



## Seagull Environmental Technologies, Inc.

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June 24, 2016

Mr. Mike Washburn  
Environmental Specialist  
Missouri Department of Natural Resources  
Brownfields/Voluntary Cleanup Section  
Jefferson City, Missouri 65102

**Subject: Phase I Environmental Site Assessment  
Markey Business Park Site, Belton, Missouri  
Missouri Environmental Assessment Services Contract, Contract No. C312021002  
Vendor No. 48120656000**

Dear Mr. Washburn:

Seagull Environmental Technologies, Inc. (Seagull) is submitting the enclosed Phase I Environmental Site Assessment (ESA) report for the Markey Business Park site in Belton, Missouri. The goal of the Phase I ESA was to identify recognized environmental conditions associated with the site. This report was completed in accordance with industry standard practice for Phase I Environmental Site Assessments.

If you have any questions or comments, please contact the project manager at (913) 213-7718.

Sincerely,

Cosmo Canacari  
Project Manager

Hieu Q. Vu, PE  
Project Director

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
MARKEY BUSINESS PARK SITE, BELTON, MISSOURI**

**Missouri Environmental Assessment Services Contract**

**Contract No. C312021002  
Vendor No. 48120656000**

Prepared For:

Missouri Department of Natural Resources – Brownfields/Voluntary Cleanup Section  
P.O. Box 176  
Jefferson City, Missouri 65102

June 24, 2016

Prepared By:

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## EXECUTIVE SUMMARY

Seagull Environmental Technologies, Inc. (Seagull) was tasked by the Missouri Department of Natural Resources (MDNR) – Brownfields/Voluntary Cleanup Section (BVCP) to conduct a Phase I Environmental Site Assessment (ESA) of the Markey Business Park site in Belton, Cass County, Missouri. The Markey Business Park site is comprised of two (non-contiguous) parcels (east and west) of mixed developed and undeveloped land that encompass approximately 113 acres. It should be noted that only the western portion of the east parcel was included as part of the Markey Business Park site for this Phase I ESA. A public recreation facility (containing baseball parks) is currently at the east portion of the east parcel. Both parcels were formerly part of the Richards-Gebaur Air Force Base until they were transferred to the City of Belton in January 2003. The parcels comprising the Markey Business Park site are included in a master development plan for light industrial use. The City of Belton intends to enroll the site in the Missouri Department of Economic Development (DED), Missouri Certified Sites Program. Seagull conducted this Phase I ESA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, American Society for Testing and Materials designation E 1527-13, and otherwise in compliance with EPA’s “All Appropriate Inquiries” Rule (“AAI Rule”) (40 *Code of Federal Regulations* [CFR] Part 312). The purpose of the Phase I ESA is to identify recognized environmental conditions (REC) and/or environmental concerns in association with the subject property, and to identify the nature of contamination and the risks posed by the contamination, if present.

The site is comprised of a proposed 113-acre light industrial business park that consists of a mix of developed and undeveloped land. The east parcel contains four structures and asphalt parking lots, and the west parcel consists of cropland. The site is south of the Bales Road and West (W.) Markey Road intersection, which is northwest of downtown Belton. The subject property is bordered north by W. Markey Road and a golf course, east by undeveloped woodland and Kuecker Logistics Group (material handling facility), south by a residential neighborhood and agricultural land, and west by a vacant parcel of land. The subject property was formerly used as a civil air field and United States (U.S.) Air Force Base (AFB). Specifically, the east portion is comprised of several structures that were designated and used as a weapons storage and maintenance area (WSA) by Richards-Gebaur AFB from approximately 1961 to 1994. The west portion of the subject property has primarily consisted of undeveloped agricultural land. The subject property has been unoccupied since the late 1990s.

The following significant findings were identified from review of historic records, environmental database review, site reconnaissance, or interviews:

- A review of historical and environmental records, site reconnaissance, or interviews has determined that there is an historical REC associated with the subject property. The subject property was part of the former Richards-Gebaur AFB, which used the west portion of the east parcel at the subject property as a weapons storage and maintenance area (WSA). Underground storage tanks (UST) associated with operations at the former AFB were located within the WSA, but were eventually removed (no USTs remain at the site). Reportedly, after removal of the USTs, fuel oil residuals were identified in soil within the UST excavation areas. Subsequent soil sampling determined the extent of contamination, and the contaminated soil was removed. Federal and state regulatory entities determined that no further action was required following removal of the contaminated soil. The subject property currently consists of unoccupied structures and undeveloped cropland and is planned for light industrial development. A review of historical records has identified structures on the property since at least 1960. Adjacent/surrounding properties are primarily comprised of cropland, woodland, residential and commercial properties, and public recreational areas (baseball parks and a golf course).
- Asbestos-containing material (ACM) and lead-based paint (LBP) could potentially be present at/in the buildings on the subject property. The presence of ACM and LBP is of environmental concern.
- Electrical ballasts that potentially contain polychlorinated biphenyls (PCBs) are present in the buildings at the site.

Based on available information, this assessment has determined that no other RECs/HRECs were identified at the site or surrounding properties; however, several structures on the subject property were constructed during the 1960s, which may include building components containing asbestos or lead-based paint. The potential presence of asbestos and lead-based paint is of environmental concern. Electrical ballasts potentially containing PCBs were also identified. Based on the identification of the potential environmental concerns, Seagull provides the following recommendations:

- If future plans for the buildings at the Markey Business Park site include renovation/demolition activities, then an asbestos and LBP inspection should be completed. Any asbestos and LBP determined to be in the buildings should be addressed prior to renovation/demolition. Future demolition or renovation of building materials determined to contain ACM and/or LBP (including abatement and disposal activities) should be conducted in accordance with applicable local, state, and federal regulations.
- Electrical ballasts potentially containing PCBs were observed at the site. Prior to changing/removing them, they should be inspected to determine if PCBs are present and then properly disposed of.

## 1.0 INTRODUCTION

Seagull Environmental Technologies, Inc. (Seagull) was tasked by the Missouri Department of Natural Resources (MDNR) – Brownfields/Voluntary Cleanup Section (BVCP) to conduct a Phase I Environmental Site Assessment (ESA) of the Markey Business Park site in Belton, Cass County, Missouri. The Markey Business Park is comprised of two (non-contiguous) parcels (east and west parcels) of mixed developed and undeveloped land that encompass approximately 113 acres. It should be noted that only the western portion of the east parcel was included as part of the Markey Business Park site for this Phase I ESA. A public recreation facility (containing baseball parks) is currently at the east portion of the east parcel. Both parcels were formerly included as part of the Richards-Gebaur Air Force Base (AFB) until they were transferred to the City of Belton in January 2003. The east parcel contains four structures and asphalt parking lots, and the west parcel consists of cropland. The parcels comprising the Markey Business Park site are included in a master development plan for light industrial use. The City of Belton intends to enroll the site in the Missouri Department of Economic Development (DED), Missouri Certified Sites Program. For the purposes of this Phase I ESA, the Markey Business Park site will hereafter be referred to as the “subject property” or “site.”

Seagull conducted this Phase I ESA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, American Society for Testing and Materials (ASTM) designation E 1527-13, and otherwise in compliance with EPA’s “All Appropriate Inquiries” Rule (AAI Rule) (40 Code of Federal Regulations [CFR] Part 312). For the purpose of this Phase I ESA, the *users* are defined as the City of Belton and MDNR (Section 3.2.98, ASTM 2013). MDNR tasked Seagull to conduct a Phase I ESA to identify recognized environmental conditions (REC) in association with the site, and to identify the nature of contamination and the risks posed by the contamination, if present.

### 1.1 PURPOSE

The goal of this Phase I ESA is to identify RECs at the site. The term REC means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property; (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs (Section 1.1.1 E 1527-13, ASTM 2013). De minimis conditions are those that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.



A controlled recognized environmental condition (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (Section 3.2.18 E 1527-13, ASTM 2013).

A historical recognized environmental condition (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (Section 3.2.42 E 1527-13, ASTM 2013).

## **1.2 SCOPE OF WORK**

MDNR's scope of work (SOW), based on ASTM designation E 1527-13, was to identify RECs at the site. Phase I ESAs are typically conducted in a four-phase process, including: (1) records review; (2) site reconnaissance; (3) interviews with current and previous owners and occupants of the site, adjacent property owners and occupants, and local government agencies; and (4) preparation of a report. Section 11.0 lists sources referenced during this investigation. Any items listed in the ASTM standard that the report does not specifically identify as present can be assumed not present within the site or within such distance to the site as to be of potential concern to the site. Any item mentioned but not specifically identified as a REC can be assumed not a REC.

## **1.3 SIGNIFICANT ASSUMPTIONS**

The following are beyond the scope of this evaluation: sampling and analysis for asbestos, lead-based paint (LBP), radon, and lead in drinking water (related to plumbing systems); evaluations of air quality, regulatory compliance, industrial hygiene, and noise impacts; and identification of geological or geotechnical hazards. Visual observations for asbestos-containing material (ACM) and LBP made during the Phase I ESA site visit are discussed in Section 4.4.

## **1.4 DEVIATIONS**

One deviation was noted from ASTM E 1527-13 for this Phase I ESA. Section 7.1 in this report provides a data gap analysis for this Phase I ESA.

## **1.5 LIMITATIONS AND EXCEPTIONS**

This report was based partially on information supplied to Seagull from outside sources and on other information available in the public domain. The conclusions and opinions reported herein are based on the information Seagull obtained in compiling the report. This information is on file at Seagull's office in Gladstone, Missouri. Seagull makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. Seagull does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of the client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

## **1.6 SPECIAL TERMS AND CONDITIONS**

There were no special terms or conditions for the Phase I ESA.

## **1.7 STATEMENT OF USER RELIANCE**

This report was prepared for use and reliance by MDNR – BVCP, the City of Belton, and all other authorized parties (users). Seagull is not required to verify independently the information provided to it by the users or gathered throughout the course of this Phase I ESA. For this Phase I ESA, Seagull may rely on information provided unless actual knowledge is possessed that certain information is incorrect based on information obtained during the Phase I ESA or otherwise actually known by the person preparing this report.

## **2.0 SITE DESCRIPTION**

This section provides a brief description of the site and the physical setting based on information obtained from the users, and a records review conducted post-reconnaissance. Observations during the site reconnaissance regarding current land use of the site and adjoining properties are described in Section 4.0.

## **2.1 SITE LOCATION**

The site is comprised of two (non-contiguous) parcels of mixed developed and undeveloped land that encompass approximately 113 acres in Belton, Missouri. The Cass County Assessor's website lists the physical address for the east parcel as 615 West (W.) Markey Road; however, no address is provided for the west parcel. The site is south of the Bales Road and W. Markey Road intersection, which is northwest of downtown Belton (see Appendix A, Figures 1 and 2). The subject property is bordered north by W. Markey Road and a golf course, east by undeveloped woodland and Kuecker Logistics Group (material handling facility), south by a residential neighborhood and agricultural land, and west by a vacant parcel of land (see Appendix A, Figure 2). The site is included on the Belton, Missouri, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 1982) (see Appendix A, Figure 1). Coordinates for the approximate center of the subject property are 38.8277240 degrees north latitude and 94.5583380 degrees west longitude. The parcel identification numbers for the site are 05-02-10-000-000-020.001 and 05-02-10-000-000-020.006. Appendix B contains property information for the site that was obtained from the Cass County Tax Assessor's website (Cass County [CC] 2016).

## **2.2 SITE VICINITY GENERAL CHARACTERISTICS**

The subject property is surrounded by woodland, agricultural land, public recreation facilities, commercial buildings, residences, a railroad, and a Marine Corps Reserve Center.

## **2.3 CURRENT AND PAST USES OF THE SITE**

The subject property was formerly used as a civil air field and United States (U.S.) Air Force Base. Specifically, the east portion is comprised of several structures that were designated and used as a weapons storage and maintenance area (WSA) by Richards-Gebaur AFB from approximately 1961 to 1994. The west portion of the subject property has primarily consisted of undeveloped agricultural land. The subject property has been unoccupied since the late 1990s.

## **2.4 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE**

Structures, asphalt parking lots, and a road are present on the subject property. Four structures are located within the WSA, which is bounded by a fence on the west portion of the east parcel. Specifically, an approximately 1,700-square-foot (ft<sup>2</sup>) maintenance building is at the northwest portion of the WSA; an 80-ft<sup>2</sup> structure is at the northeast portion of the WSA; an approximately 4,000-ft<sup>2</sup> maintenance building (former) is at the southeast portion of the WSA; and an approximately 6,000-ft<sup>2</sup> ammunition bunker

(former) is at the southwest portion of the WSA. Historical records review has determined that the structures were constructed in the early 1960s. The structures are primarily constructed of concrete and steel with cinder block façades and asphalt-covered roofs. Interior components within the former maintenance buildings consist of wood-framed walls covered by wood paneling, drywall-covered ceilings with popcorn ceiling texture, and vinyl tile floor covering. The subject property is served public utilities; however, connections for electricity and water are not currently active in the buildings. The buildings are connected to the municipal sewer system.

## **2.5 CURRENT AND PAST USES OF ADJOINING/SURROUNDING PROPERTIES**

The area surrounding the subject property primarily consists of cropland, woodland, residential and commercial properties, and public recreational areas (baseball parks and a golf course). Historical records indicate that the surrounding area has been developed since at least 1976, and has contained a mix of residential/commercial properties, woodland, and cropland.

## **2.6 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS**

The following sections describe the environmental setting of the site and surrounding area.

### **2.6.1 Topography**

Based on the recent topographic map reviewed, elevation at the site is approximately 1,109 feet above mean sea level. The topographic gradient is generally north-northwest.

### **2.6.2 Geologic Setting**

Cass County is within the west-central part of Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area. This area includes the Missouri Alluvial Plains, Loess Hills, and part of the Southern Iowa Drift Plain landform regions. The site lies within the Loess Hills region, which is overlain by loess deposits that reach thicknesses of 65 to 200 feet. The loess is underlain by pre-Illinoian glacial tills that have undergone extensive erosion and dissection. In the Loess Hills region, Holocene cycles of erosion and deposition have produced deeply incised gullies and fine grained alluvial deposits. This Quaternary overburden ranges from 150 to 450 feet in thickness throughout most of the area, but it is generally less than 150 feet thick in the southeastern part of the area. The glacial materials in the county are underlain by Pennsylvanian and Cretaceous bedrock, which consists of shales, mudstones, and sandstones. Slopes

are mostly rolling to hilly, but some broad ridgetops are nearly level to undulating hills (U.S. Department of Agriculture [USDA] 1981).

The upper bedrock in the vicinity of the subject property consists of the Kansas City Group. Late Pennsylvanian-Upper Series-Missourian Stage strata comprise the geologic units in the site vicinity. The primary and secondary rock types are limestone and shale, respectively (MDNR 2005).

Dominant soils in the site vicinity belong to the of Greenton and Macksburg series (Natural Resources Conservation Service [NRCS] 2014b). The Greenton series consists of deep and very deep, somewhat poorly drained, slowly permeable soils formed in thin loess and underlying residuum from clay shales and thinly bedded limestone on uplands. Slopes range from 2 to 25 percent. The upper 13 inches of this soil consists of silt clay loam with silty clay beneath, extending to approximately 80 inches below ground surface (bgs) (NRCS 2014a). The Macksburg series consists of very deep, somewhat poorly drained soils formed in loess. These soils are on summits and shoulders, interfluves and ridgetops, and on dissected till plains and tread risers on high stream terraces in river valleys. Slopes range from 0 to 9 percent. The upper 9 inches of this soil consists of silt loam with silt clay loam beneath, extending to approximately 72 inches bgs.

### **2.6.3 Hydrogeology**

The site lies within the West-Central Missouri groundwater province. The West-Central Missouri groundwater province lies northwest of the Salem Plateau. The boundary between the two is a freshwater-saline water transition zone. South and west of the transition zone, groundwater in the Springfield Plateau, Ozark, and St. Francois aquifers is of good chemical quality. North and west of the transition zone, these same aquifers yield water that is too mineralized for domestic use. Potable groundwater in the region is difficult to obtain. Relatively shallow Pennsylvanian-aged limestone and sandstone produce low-yielding, marginal-quality water (MDNR 2014). Surface water is the principal source of municipal drinking water provided to Belton, Missouri, citizens.

### **2.6.4 Hydrology**

Runoff from precipitation at the subject property either infiltrates into the surface soil or flows overland following the topographic gradient.

### **3.0 USER-PROVIDED INFORMATION**

The following section summarizes information provided by Ms. Carolyn Yatsook (Economic Development Specialist for the City of Belton, and principal site contact) with regard to the Phase I ESA. A copy of a user questionnaire completed by Ms. Yatsook is included in Appendix C.

#### **3.1 EXISTING INFORMATION AND DRAWINGS**

Property-specific information regarding property deed transfer, previous environmental assessments, and proposed future use were provided by the users and are included in Appendix C.

#### **3.2 SUMMARY OF TITLE INFORMATION**

A quitclaim deed document for the subject property was provided by the users.

#### **3.3 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS**

Ms. Yatsook indicated that (to her knowledge) there were no environmental liens or activity and use limitations for the site.

#### **3.4 SPECIALIZED KNOWLEDGE**

A supplement to an environmental baseline survey conducted at the subject property was provided by the users.

#### **3.5 RELATIONSHIP BETWEEN PURCHASE PRICE AND FAIR MARKET VALUE**

The users reported that the property value is likely a reflection of its fair market value.

#### **3.6 OWNER, SITE MANAGER, AND OCCUPANT INFORMATION**

The subject property is owned by the City of Belton. Ms. Carolyn Yatsook is the site manager for the subject property. The subject property is currently unoccupied. No additional occupant information was provided.

#### **3.7 REASON FOR PERFORMING PHASE I ESA**

The Phase I ESA was requested by the users to determine the environmental history of the property, as well as to identify RECs posed to the site.

## **4.0 SITE RECONNAISSANCE**

A site reconnaissance was conducted on May 31, 2016, by Seagull Team Member Cosmo Canacari. Photographic documentation from the site reconnaissance is included in Appendix C.

### **4.1 METHODOLOGY AND LIMITING CONDITIONS**

The site reconnaissance consisted of a visual inspection of the site in accordance with requirements set forth in 40 CFR Part 312, and observations of the perimeter area were noted to assess the presence of environmental concerns. Access was not available to the former ammunitions bunker, because the doors to the storage bays had been welded shut.

### **4.2 GENERAL SITE SETTING**

The following sections describe the site's main features and current and past uses.

#### **4.2.1 Site Description**

The site is comprised of two (non-contiguous) parcels of mixed developed and undeveloped land that encompass approximately 113 acres. The west parcel consists of grassland and woodland. There are four structures on the west side of the east parcel. The structures are primarily constructed of concrete and steel with cinder block façades and asphalt-covered roofs. Interior components within the former maintenance buildings consist of wood-framed walls covered by wood paneling, drywall-covered ceilings with popcorn ceiling texture, and vinyl tile floor covering. Several light poles and fencing surround the subject property. The subject property is surrounded by a mix of woodland and grassland, residential and commercial properties, and public recreational facilities.

#### **4.2.2 Current and Past Site Uses**

The subject property is currently unoccupied. The west parcel of the subject property has primarily consisted of undeveloped agricultural land. The remaining portion of the site was used as a weapons storage and maintenance area by a U. S. military installation.

### **4.3 SPECIFIC RECONNAISSANCE ITEMS**

The following sections summarize observations during the reconnaissance.

#### **4.3.1 Hazardous Substances and Petroleum Products**

No petroleum products were observed at the site.

#### **4.3.2 Hazardous Waste**

No hazardous waste was found or has been known to have been present on the site.

#### **4.3.3 Landfills, Dumps, Burials, or Solid Waste Disposal**

No landfills, dumps, burials, or solid waste disposals were found or have been known to have been present on the site.

#### **4.3.4 Storage Tanks**

##### **Underground Storage Tanks**

No visual evidence indicating the presence of underground storage tanks (UST) was identified during the site reconnaissance; however, a review of environmental records indicated that three USTs were removed from the WSA (west portion of the east parcel).

##### **Aboveground Storage Tanks**

No visual evidence of past or present on-site aboveground storage tanks (AST)—including pipes, pumps, or stains—was apparent during the site reconnaissance.

#### **4.3.5 Polychlorinated Biphenyls-containing Equipment**

Fluorescent light fixtures were observed at the site. Those fixtures may contain ballasts which potentially contain polychlorinated biphenyls (PCB).

#### **4.3.6 Heating, Ventilation, and Air Conditioning System and Fuel Source**

Piping associated with heating systems was observed at two of the buildings; however, no heating system (or fuel source) was observed. No ventilation and air conditioning system was observed at any of the structures.



#### **4.3.7 Drains, Sumps, Pools of Liquids, Standing Water, Cisterns, and Cesspools**

Floor drains were identified in the 4,000-ft<sup>2</sup> maintenance building at the southeast portion of the WSA. No sumps pits, sumps, cisterns, cesspools, or similar receptacles where liquids drain, collect, or are stored were observed on the site during the site reconnaissance.

#### **4.3.8 Pits, Ponds, and Lagoons**

No evidence of any pits, ponds, or lagoons was observed during the site reconnaissance.

#### **4.3.9 Stains or Corrosion and Stained Soil or Pavement**

No evidence of stains, corrosion, or stained soil or pavement was observed during the site reconnaissance.

#### **4.3.10 Areas of Dead, Distressed, Discolored, or Stained Vegetation**

No areas of dead, distressed, discolored, or stained vegetation that may indicate RECs were observed on the site.

#### **4.3.11 Possible Fill, Grading, or Solid Waste Disposal**

Fill and grading likely occurred to accommodate previous development at the subject property. No evidence of solid waste disposal was identified on site.

#### **4.3.12 Smells of Chemical Gases, Petroleum Products, or Noxious Odors**

No smells of chemical gases, petroleum products, or noxious odors were noted at the time of the site reconnaissance.

#### **4.3.13 Wastewater and Stormwater Systems and Discharges**

No wastewater, stormwater systems, or discharge areas were observed at the site.

#### **4.3.14 Wells and Potable Water Supply**

No wells were observed at the site. Municipal water is available to the subject property, but the service is not currently active.

#### **4.3.15 Utilities**

The subject property is served public utilities; however, connections for electricity and water are not currently active in the buildings.

#### **4.3.16 Other Site-specific Environmental Conditions**

No other site-specific environmental conditions were observed during the site reconnaissance.

### **4.4 ASBESTOS AND LBP SURVEYS**

A visual survey of materials potentially containing asbestos and LBP was conducted during the site visit on May 31, 2016. The purpose of the survey was to visually identify suspected ACM and/or LBP associated with the site buildings. Suspected ACM was identified during the site reconnaissance. Suspected ACM included, but was not limited to: drywall system materials, vinyl flooring and/or associated mastic, and roof coating materials.

According to historical records, the buildings at the subject property were constructed in the 1960s. Buildings built prior to 1978 could potentially contain LBP; therefore, based on the age of the buildings on the subject property, it is likely that LBP is present.

The presence of ACM and LBP is of environmental concern. Based on the preliminary identification of suspect materials, a subsequent asbestos and LBP inspection may be required to characterize these materials. Future renovation (including abatement and disposal activities) at the subject property that could disturb ACM or LBP should be conducted in accordance with applicable local, state, and federal regulations.

### **4.5 VICINITY RECONNAISSANCE**

Seagull surveyed the surrounding areas and conducted visual observations from public roads during the Phase I ESA activities. The area surrounding the site is primarily occupied by cropland, woodland, residences, businesses, public recreation facilities, a railroad, and a Marine Corps Reserve Center.

## **5.0 INTERVIEWS**

The objective of conducting interviews is to obtain information concerning RECs in connection with the site. Interviewees were cooperative and forthcoming with information, unless otherwise specified.

## **5.1 INTERVIEW WITH OWNER**

Information regarding current/previous use of the subject property was provided by Ms. Carolyn Yatsook (Economic Development Specialist for the City of Belton, and principal site contact). Specifically, Ms. Yatsook provided information regarding former use, property deed transfer, and previous environmental assessments for the subject property.

## **5.2 INTERVIEW WITH KEY SITE MANAGER**

Mr. Yatsook is considered the key site manager and was interviewed as described above.

## **5.3 INTERVIEW WITH CURRENT OCCUPANTS**

The subject property is unoccupied.

## **5.4 INTERVIEW WITH PAST SITE OWNER/OCCUPANTS**

No interviews were conducted with past owners or occupants of the subject property during this Phase I ESA.

## **5.5 INTERVIEW WITH LOCAL GOVERNMENT OFFICIALS**

No additional information was provided by Ms. Yatsook (Economic Development Specialist for the City of Belton).

## **6.0 RECORDS REVIEW**

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the site.

### **6.1 ENVIRONMENTAL RECORDS SOURCES**

The following sources of environmental records were accessed and reviewed as part of this assessment.

#### **6.1.1 Environmental Database Search**

Federal, state, regional, and local records were reviewed to assess whether any unauthorized releases of hazardous substances or other events with potentially adverse environmental effects have occurred at the site or at any facility within the approximate minimum search distance. Environmental Data Resources

(EDR) performed a database search of the site (east and west parcels) in accordance with ASTM E 1527-13 (EDR 2016a). A copy of this report is included as Appendix E.

The databases searched have been developed and are updated by federal, state, and local agencies. While these databases are generally reliable and comprehensive, some out-of-date data no longer reflecting actual site conditions may be encountered. The Government Records Searched/Data Currency Tracking section of the EDR report in Appendix E identifies when each database was updated.

A review of the facilities listed within the EDR Radius Map with GeoCheck<sup>®</sup> report (EDR 2016a) was conducted by Seagull and summarized as follows.

- The subject property was not listed in any of the databases searched by EDR.
- The database search identified four surrounding sites that are summarized in the table below. Unless otherwise noted, the listed surrounding sites do not pose RECs to the subject property based on distance, topography, estimated groundwater flow direction, and/or current regulatory status.

Regulatory Database	Search Distance (in miles)	Total Sites Listed
<b>Federal Records</b>		
Comprehensive Environmental Response, Compensation, and Liability Information System – No Further Remedial Action Planned (CERCLIS-NFRAP)	0.50	1
<b>Other Ascertainable Records</b>		
Resource Conservation and Recovery Act Non-Generators / No Longer Regulated (RCRA NonGen / NLR)	0.25	1
Formerly Used Defense Sites (FUDS)	1.0	1
Department of Defense (DOD)	1.0	1

### **CERCLIS-NFRAP**

The Comprehensive Environmental Response, Compensation, and Liability Information System -No Further Remedial Action Planned (CERCLIS-NFRAP) database contains sites that have been removed and archived from the CERCLIS database. Archived status indicates that, to the best of EPA's

knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

- One CERCLIS-NFRAP site was identified within the search radius. That site does not pose a REC to the subject property.

### **Other Ascertainable Records**

These databases include RCRA-NonGen/No Longer Regulated (NLR) facilities, Formerly Used Defense Sites (FUDS), and Department of Defense (DOD) sites. RCRA-NonGen /NLR facilities do not presently generate hazardous waste. The FUDS database contains sites that the U.S. Army Corps of Engineers is actively investigating or where cleanup activities are being conducted. The DOD database contains a listing of federally owned or administered lands, administered by the DOD, that have any area equal or greater than 640 acres in the U.S. Puerto Rico, and U.S Virgin Islands.

- One RCRA-NonGen / NLR facility, one FUDS, and one DOD site were identified within the search radius. Based on distance and/or current regulatory status, those sites do not pose RECs to the subject property.

### **Unmapped Sites**

The EDR report identified two “non-geocoded” or “orphan” facilities that, because of poor or inadequate address information, could not be mapped by EDR. Based on site reconnaissance observations and information obtained from database research and on-line mapping resources, it is not likely either of these “orphan” sites pose a REC to the subject property. This determination is based on their crossgradient or downgradient position relative to the subject property, current regulatory site status (no further action required), or they are located outside the approximate minimum search distance from the subject property

### **6.1.2 Additional Environmental Records**

The users provided a copy of a Supplement to the Richards-Gebaur AFB Basewide Environmental Baseline Survey (EBS), including Visual Site Inspections (VSI). The EBS and VSI were conducted for the entire Richards-Gebaur AFB in December 1993. The purpose of the Supplement to the Basewide EBS and VSI was to collect available information to establish the physical and environmental condition of the Parcel K and L areas (1100 and 1200 areas), and to assist the Air Force in complying with its

obligations under CERCLA. The 1200 area was also designated as the WSA (subject property area). The supplement contained four attachments: UST Closure Approval Letters; Unexploded Ordnance Certificate for the WSA; Consultative Letter (which includes the Final Radioactive Status Survey); and Visual Site Inspections for the K and L areas. According to the supplement, several USTs located in the 1100 and 1200 areas had been removed. Following removal of the USTs, soil sampling was conducted in the excavation areas in November 1996. Additional sampling was requested by federal and state regulators following the initial soil investigation. In 1998, soil samples collected from several boring locations in the UST excavation areas were determined to contain fuel oil residuals. Subsequently, a thorough subsurface soil investigation was initiated in October 1999 to delineate the extent of petroleum-related contamination identified at the UST excavation areas. The supplement report indicated that the extent of contamination had been delineated and the contaminated soil removed.

Additionally, unexploded ordnance and radiological surveys were conducted for the WSA. Those surveys concluded that no unexploded ordnance or radiation levels above background were present within the WSA. Based on the information reported in the Supplement to the Basewide EBS and current regulatory status, the former use of the subject property as a weapons storage and maintenance area by Richards-Gebaur AFB poses an HREC to the subject property. A copy of the Supplement to the Basewide EBS-Parcels K and L (1100 and 1200 areas) conducted at the Richards-Gebaur AFB is provided in Appendix C.

### **6.1.3 Vapor Encroachment Screening**

An initial vapor encroachment screening was conducted in accordance with ASTM Practice E 1527-13 to determine if there is a potential for vapors to occur in the subsurface below existing and/or proposed on-site structures as a result of the presence of petroleum, hazardous, or toxic materials that may contain volatile or semi-volatile organic compounds (VOC/SVOC). A “non-invasive” screening process, including a site reconnaissance and records review, was used to conduct the initial vapor encroachment screening. If a potential vapor encroachment condition (pVEC) is identified during the screening process, then it should be listed as a REC to the subject property. No pVECs were identified during the initial vapor encroachment screening for this site.

### **6.1.4 Valuation Reduction for Environmental Issues**

The users provided no information regarding valuation reduction for environmental issues associated with the site.

### 6.1.5 Engineering and Institutional Controls

As part of the environmental records search performed by EDR, federal databases for institutional and engineering controls were searched, and no record information was reported for the subject property.

### 6.1.6 Title Records

A quitclaim deed provided by the users was reviewed for this report. The quitclaim deed indicated that the parcels associated with the subject property were legally transferred from the United States of America to the City of Belton in January 2003.

## 6.2 HISTORICAL USE INFORMATION FOR THE SITE AND ADJOINING PROPERTIES

Historical data regarding the site and surrounding area were gathered to determine past uses and evaluate environmental issues that may pose RECs. The following sections describe aerial photographs, Sanborn® maps, city directories, and topographic maps that were available for the site. Historical use documentation referenced in the following sections is included as Appendix F.

### 6.2.1 Aerial Photographs

Historic aerial photographs of the site for 1940, 1952, 1970, 1976, 1981, 1985, 1990, 1997, 2005, 2006, 2007, 2009, 2010, and 2012 were obtained from EDR (EDR 2016b). The review of aerial photography is summarized below:

YEAR	COMMENTS
1940 1952	<b>Site:</b> The site consists of cropland and woodland.  <b>Surrounding Area:</b> The surrounding area primarily consists of cropland, pastures, and woodland. A railroad appears to be south of the subject property.
1970 1976 1981 1985 1990 1997 2005 2006 2007 2009 2010 2012	<b>Site:</b> The site appears to be in its current condition.  <b>Surrounding Area:</b> The surrounding area primarily consists of cropland and woodland. An airfield runway is northwest of the subject property. Development at properties east and south of the site was identified in aerial photographs dating back to 1976. The railroad south of the subject property is no longer present.

A review of the aerial photographs shows the site and the surrounding area have been in their current condition since at least 1970. The surrounding area primarily consists of cropland and woodland. Development at properties east and south of the site was identified in photographs dating back to 1976. A review of the aerial photographs could not identify any RECs on the subject property or at adjacent properties.

### **6.2.2 Sanborn® Map Report**

No Sanborn® maps were available for the subject property (EDR 2016c).

### **6.2.3 City Directories**

City directories can be used in conjunction with other historical records presented in this section to determine previous land use at the site and at surrounding properties. City directories for the years 1955, 1958, 1961, 1966, 1971, 1976, 1983, 1988, 1992, 1995, 1999, 2003, 2008, and 2013 were provided by EDR (EDR 2016d). The address associated with the east parcel (615 W. Markey Road) was not listed in any of the city directories. Surrounding addresses were listed in the city directories as containing residences and a few businesses. A review of the city directories could not identify any RECs on or adjacent to the site that may have impacted the subject property.

### **6.2.4 Historical Topographic Maps**

Historic topographic maps for the years 1892, 1893, 1953, 1954, 1970, 1975, 1981, 1990, and 1991 were obtained from EDR (EDR 2016e). No RECs were identified from review of the topographic maps.

## **7.0 FINDINGS**

The following significant findings were identified from review of historic records, environmental database review, site reconnaissance, or interviews:

- A review of historical and environmental records, site reconnaissance, or interviews has determined that there is an HREC associated with the subject property. The subject property was part of the former Richards-Gebaur AFB, which used the west portion of the east parcel at the subject property as a weapons storage and maintenance area (WSA). USTs associated with operations at the former AFB were located within the WSA, but were eventually removed (no USTs remain at the site). Reportedly, after removal of the USTs, fuel oil residuals were identified in soil within the UST excavation areas. Subsequent soil sampling determined the extent of contamination, and the contaminated soil was removed. Federal and state regulatory entities determined that no further action was required following removal of the contaminated soil. The subject property currently consists of unoccupied structures and undeveloped cropland and is planned light industrial development. A review of historical records has identified



structures on the property since at least 1960. Adjacent/surrounding properties are primarily comprised of cropland, woodland, residential and commercial properties, and public recreational areas (baseball parks and a golf course).

- ACM and LBP could potentially be present at/in the buildings on the subject property. The presence of ACM and LBP is of environmental concern.
- Electrical ballasts that potentially contain PCBs are present in the buildings at the site.

## **7.1 DATA GAP ANALYSIS**

One deviation from ASTM E 1527-13 was noted for this Phase I ESA. The Seagull Environmental Professional (EP) has conducted an analysis of the data gaps or failures resulting from this deviation, and assessed impacts of these on Seagull's ability to render an opinion regarding conditions indicative of releases or threatened releases of petroleum products or hazardous substances. A summary of that assessment follows.

- Time gaps of more than 5 years were present in available historical information. Historical documents were reviewed back to 1892. Given the consistent observed use of the subject property in the historic information reviewed, it is not necessary to review additional time periods, and the lack of information for all 5-year-or-less intervals is not considered data failure.

## **8.0 OPINIONS**

Environmental concerns, described in Section 7.0, have been identified during this Phase I ESA. In the opinion of the Environmental Professional, the environmental concerns should be addressed prior to future redevelopment at the site.

## **9.0 CONCLUSIONS AND RECOMMENDATIONS**

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13 for the Markey Business Park site in Belton, Missouri. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. Based on available information, this assessment has revealed evidence of environmental concerns in connection with the site, as described in Sections 7.0 and 8.0.

Based on the identification of the environmental concerns, Seagull provides the following recommendations:

- If future plans for the buildings at the Markey Business Park site include renovation/demolition activities, then an asbestos and LBP inspection should be completed. Any asbestos and LBP determined to be in the buildings should be addressed prior to renovation/demolition. Future demolition or renovation of building materials determined to contain ACM and/or LBP (including

abatement and disposal activities) should be conducted in accordance with applicable local, state, and federal regulations.

- Electrical ballasts potentially containing PCBs were observed at the site. Prior to changing/removing them, they should be inspected to determine if PCBs are present and then properly disposed of.

## 10.0 CERTIFICATION STATEMENT

The resume of the Environmental Professional who conducted the site reconnaissance and prepared the report is provided in Appendix G. I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property addressed in this report. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312, and attest to the completeness and accuracy of the information contained in this report.

If you have any questions concerning the findings and conclusions contained in this report, please call Environmental Professional Cosmo Canacari at (913) 213-7718.

Environmental Professional

A handwritten signature in black ink, appearing to read 'Cosmo Canacari', with a long horizontal flourish extending to the right.

Cosmo Canacari  
Environmental Scientist

## 11.0 REFERENCES

- American Society for Testing and Materials International (ASTM). 2013. Standard Practice of Environmental Site Assessments: Phase I Environmental Site Assessment Process: E 1527-13.
- Cass County (CC). 2016. Tax Assessor Parcel Search. Accessed on June 6, 2016. On-line Address: <http://cass.missouriassessors.com/search.php>
- Environmental Data Resources, Inc. (EDR).  
2016a. EDR Radius Map Report with GeoCheck®. June 2.  
2016b. Aerial Decade Package. June 3.  
2016c. Sanborn® Map Report. June 2.  
2016d. City Directory Report. June 6.  
2016e. Historic Topographic Report. June 2.
- Missouri Department of Natural Resources.  
2014. Water Resources Center. West Central Missouri Groundwater Province. Accessed on June 6, 2016. On-line address: <http://dnr.mo.gov/env/wrc/groundwater/education/provinces/westcentprovince.htm>  
2005. Geologic Survey and Resource Assessment Division. Bedrock Geology. Accessed on June 6, 2016. On-line address: <http://mrdata.usgs.gov/sgmc/mo.html>
- Natural Resources Conservation Service (NRCS). United States Department of Agriculture.  
2014a. Soil Survey Staff. Official Soil Series Descriptions. Available online. Accessed on June 6, 2016. On-line address: <https://soilseries.sc.egov.usda.gov/osdname.asp>  
2014b. Web Soil Survey. Cass County, Missouri. Accessed on June 6, 2016. On-line address: <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- United States Department of Agriculture (USDA). 1981. Soil Conservation Service. Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. Accessed on June 6, 2016. On-line Address: <http://soils.usda.gov/survey/geography/mlra/>
- U.S. Geological Survey (USGS). 1982. Belton, Missouri, 7.5-minute Series Topographic Quadrangle Map.

**APPENDIX A**

**FIGURES**

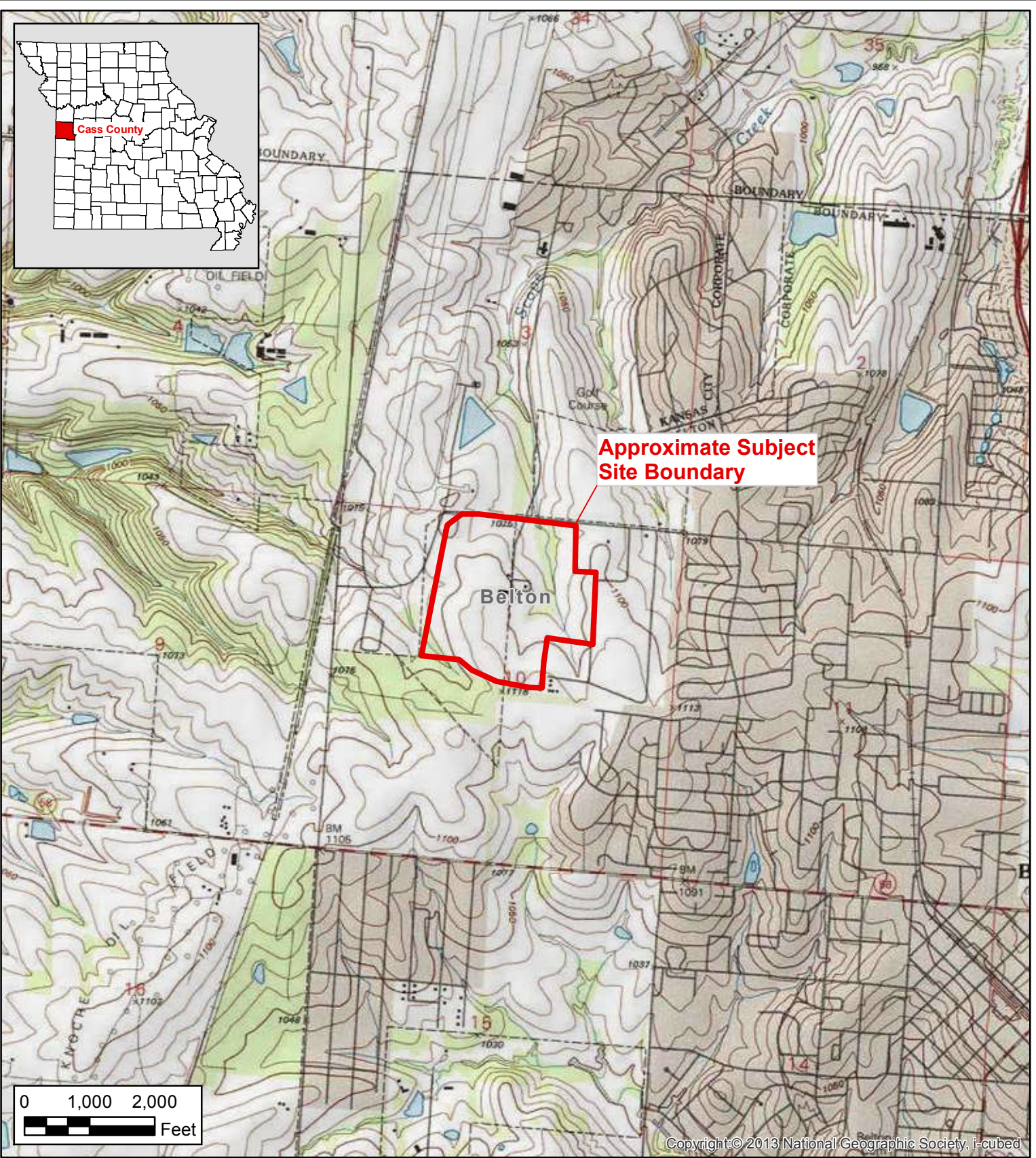
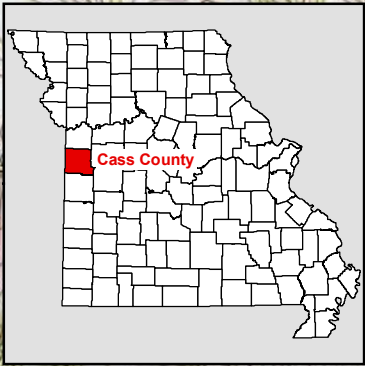
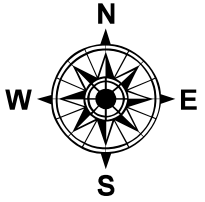


Figure 1  
Site Location Map  
Markey Business Park Phase I  
Belton, Missouri



Seagull Environmental Technologies, Inc.


Source: USGS Belton, MO 7.5 Minute Topo Quad, 1982

Date: June 2016

Project No: MOESA055EA1

CGIS: Workspace\Consulting\Seagull\MOESA055EA1\Project\amxd\Figure1.mxd

**Legend**

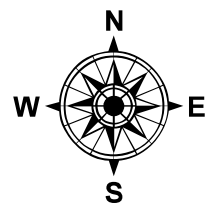
 Approximate Subject Site Boundary



**Figure 2**  
**Site Aerial Map**  
**Markey Business Park Phase I**  
**Belton, Missouri**



Seagull Environmental Technologies, Inc.



Source: Bing Maps Aerial Imagery, 2012

C:\GIS\Workspace\Consulting\Seagull\MOESA055EA1\Project\Map\Figures2.mxd

**APPENDIX B**  
**PROPERTY INFORMATION**





Hosted by Vanguard Appraisals, Inc.

**Parcel Number:** 05-02-10-000-000-020.001  
**Computer ID:** 1242101  
**Deed Holder:** CITY OF BELTON  
**Property Address:** 615 W MARKEY RD  
 BELTON, MO 64012-0000 [MAP THIS ADDRESS](#)  
**Mailing Address:** PO BOX 230  
 BELTON, MO 64012-0230 USA  
**Class:** EXEMPT  
**Map Area:** M PLSANT CTY BELTON  
**Plat Map:** 879/161  
**Subdivision:** NONE  
**Sec-Twp-Rng:** 10-46-33  
**Lot-Block:** -  
**Brief Legal Description:** PT N2 SE W CIMMARRON TRAILS AKA TR 3 EX 6A NE CR NW NE  
 (NOTE: NOT TO BE USED ON LEGAL DOCUMENTS)

No image to display

Current Value Information

	Agricultural	Residential	Commercial\Other	Exempt	Total
<b>FULL MARKET</b>					
Land	\$0	\$0	\$0	\$92,620	\$92,620
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$92,620	\$92,620
<b>ASSESSED</b>					
Land	\$0	\$0	\$0	\$92,620	\$92,620
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$92,620	\$92,620

Prior Year Value Information

Current Value Information					
	Agricultural	Residential	Commercial\Other	Exempt	Total
<b>FULL MARKET</b>					
Land	\$0	\$0	\$0	\$92,620	\$92,620
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$92,620	\$92,620
<b>ASSESSED</b>					
Land	\$0	\$0	\$0	\$92,620	\$92,620
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$92,620	\$92,620

Prior Year Value Information					
	Agricultural	Residential	Commercial\Other	Exempt	Total
<b>2016</b>					
Land	\$0	\$0	\$0	\$92,620	\$92,620
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$92,620	\$92,620
<b>2015</b>					
Land	\$0	\$0	\$0	\$92,620	\$92,620
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$92,620	\$92,620

▼ More Years...

Agricultural Land Information		
Description	Acres	CSR Points
Grade 3 - Missouri Soil Grade 3	102.700	66,241.50
Grade 4 - Missouri Soil Grade 4	61.970	25,097.85
Grade 5 - Missouri Soil Grade 5	6.230	1,277.15
<b>Averaged Taxable CSR: 541.934</b>	<b>Total Acres: 170.900</b>	<b>Net CSR Points: 92,616.50</b>

### GIS Map Information

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Parcel Number: 05-02-10-000-000-020.006

Computer ID: 1242107

Deed Holder: CITY OF BELTON

Property Address: MARKEY RD  
BELTON, MO 64012-000

Mailing Address: PO BOX 230  
BELTON, MO 64012-000 USA

Class: EXEMPT

Map Area: M PLSANT CTY BELTON

Plat Map: P18/84

Subdivision: EXEC BUSINESS PARK

Sec-Twp-Rng: 10-46-33

Lot-Block: -

Brief Legal Description: EXECUTIVE BUSINESS PARK LOT C  
**(NOTE: NOT TO BE USED ON LEGAL DOCUMENTS)**

**No image to display**

**Current Value Information**

FULL MARKET	Agricultural	Residential	Commercial\Other	Exempt	Total
Land	\$0	\$0	\$0	\$230,980	\$230,980
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$230,980	\$230,980
ASSESSED	Agricultural	Residential	Commercial\Other	Exempt	Total
Land	\$0	\$0	\$0	\$230,980	\$230,980
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$230,980	\$230,980

**Prior Year Value Information**

2016	Agricultural	Residential	Commercial\Other	Exempt	Total
------	--------------	-------------	------------------	--------	-------

(NOTE: NOT TO BE USED ON LEGAL DOCUMENTS)

**Current Value Information**

	Agricultural	Residential	Commercial\Other	Exempt	Total
<b>FULL MARKET</b>					
Land	\$0	\$0	\$0	\$230,980	\$230,980
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$230,980	\$230,980
<b>ASSESSED</b>					
Land	\$0	\$0	\$0	\$230,980	\$230,980
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$230,980	\$230,980

**Prior Year Value Information**

	Agricultural	Residential	Commercial\Other	Exempt	Total
<b>2016</b>					
Land	\$0	\$0	\$0	\$230,980	\$230,980
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$230,980	\$230,980
<b>2015</b>					
Land	\$0	\$0	\$0	\$230,980	\$230,980
Building	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$230,980	\$230,980

▼ More Years...

**Land Information**

Lot Type	Square Feet	Acres
Acres x Rate	2,063,873	47.380

**GIS Map Information**

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**APPENDIX C**  
**USER-PROVIDED INFORMATION**



**ECONOMIC DEVELOPMENT**

Carolyn Yatsook

520 MAIN STREET  
BELTON, MISSOURI 64012

TELEPHONE (816) 331-4331

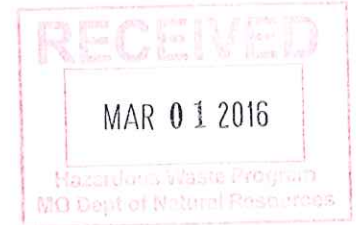
FAX (816) 331-6973

E-MAIL [cyatsook@belton.org](mailto:cyatsook@belton.org)

WEBSITE [www.belton.org/ecodevo](http://www.belton.org/ecodevo)

February 26, 2016

Department of Natural Resources  
Brownfields Assessment Department  
P.O. Box 176  
Jefferson City, MO 65102



To whom it concerns,

Please accept this Brownfields Assessment Application from the City of Belton. This application is being submitted by the City of Belton for a Phase 1 on our City owned, Markey Business Park. The business park is not addressed as it is still in the planning phase, but documentation regarding location, including aerials and maps are attached for reference.

Markey Business Park has been a long range plan of the City of Belton for since it was purchased in 2002. We have contracted with Olsson Associates for Master Planning, Site Diligence and Logical Phasing of the business park. It is our intention, for the purposes of economic development, to have this business park become a Certified Site through the State of Missouri. One of the stipulations as I am sure you are aware is that a Phase 1 be completed.

Attached to this cover letter:

- 1. Application
- 2. Pertinent pages from appraisal by Valbridge (aerial views, parcel outline, pictures etc.)
- 3. Map of subject property location within Belton City limits
- 4. Master Plan concept, created by Olsson Associates
- 5. Supplement to Basewide EBS, with DNR letters, November 2000 (This report contains information on additional areas and not just Markey Business Park)
- 6. Quitclaim Deed, December 2002

Please let me know if there is further information that you require.

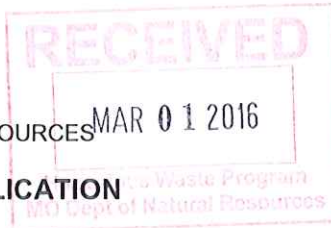
Respectfully,

Carolyn Yatsook  
Economic Development Specialist - City of Belton, MO  
520 Main St.  
Belton, MO 64012





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
HAZARDOUS WASTE PROGRAM  
**BROWNFIELDS ASSESSMENT APPLICATION**



APPLICANT			
NAME City of Belton, MO			
CONTACT PERSON Carolyn Yatsook	TELEPHONE NUMBER WITH AREA CODE (816) 331-4331	E-MAIL ADDRESS cyatsook@belton.org	
MAILING ADDRESS 506 Main St.	CITY Belton	STATE MO	ZIP CODE 64012
SITE NAME			
SITE NAME Markey Business Park		PARCEL NUMBER (IF KNOWN) 05021000000020001/w portion 20006	
SITE ADDRESS Not Addressed	CITY Belton	STATE MO	ZIP CODE 64012
CURRENT SITE OWNERSHIP			
OWNER NAME City of Belton		TELEPHONE NUMBER WITH AREA CODE (816) 331-4331	
MAILING ADDRESS 506 Main St.	CITY Belton	STATE MO	ZIP CODE 64012
If the property is not owned by applicant, will the applicant obtain the property through: <input type="checkbox"/> Foreclosure <input type="checkbox"/> Purchase <input type="checkbox"/> Other (Specify):			
If the property is not owned by applicant, will the applicant be able to obtain legal permission for department staff or department's contractor to enter the property to conduct site assessment activities?  N/A <input type="checkbox"/> Yes <input type="checkbox"/> No (Explain):			
<b>Note:</b> The department ensures that upon completion of the project, any department material and equipment will be removed from the site.			
SITE HISTORY			
Is there any reason to believe the property is contaminated with hazardous substances, (e.g., solvents, pesticides, creosote, metals - lead, mercury, arsenic -, dry-cleaning products, petroleum or controlled substances), as defined in 40 CFR Part 30?  <input type="checkbox"/> Yes (Describe below) <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
Is the property mine scarred? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
Is applicant, or any other party, under order from the EPA or the Missouri Department of Natural Resources to conduct site assessment or cleanup? <input type="checkbox"/> Yes (Describe below) <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown  Briefly describe the involvement or role of EPA or the department in enforcement or oversight of the assessment or cleanup of candidate site:			
If property is owned by applicant, did applicant generate or dispose of any of the contaminants? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Is applicant aware of any federal, state or local agency inquiry or order regarding any party's responsibility for contamination or hazardous waste at the property? <input type="checkbox"/> Yes (Describe below) <input checked="" type="checkbox"/> No			
SITE ZONING BP-R		TOTAL ACREAGE OF SITE (ATTACH SITE MAP) 2 Parcels, Totaling 113 acres m/l	

IF APPLICABLE – PAST SITE USES (e.g., TYPE OF MANUFACTURING)		
PAST SITE USES Civil Airport / Richards-Gebaur Air Force Base		APPROXIMATE DATES 1941-1944 Civil Airport / 1944-1994 Richards-Gebaur
BUILDINGS ON-SITE 3	SQUARE FOOTAGE unknown	CONDITION (USEABLE, GUTTED, RAZED, ETC.) guttled
PRIOR SITE ASSESSMENT ACTIVITIES		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown  Describe conclusions of prior site assessment activities (or attach "conclusion" section of report(s)). If reports are unavailable, identify consultant, client and approximate date of study: 1. Supp. Basewide EBS (DNR states no remediation required) 2. Quitclaim Deed		
SITE ASSESSMENT NEEDS		
Describe how perceived contamination has hindered reuse of the property:  The City purchased this property from the United States via a quitclaim deed in December, 2002. The quitclaim deed states that all remedial action necessary to protect human health and the environment with respect to hazardous substances remaining on the property has been taken care of prior to the date of the quitclaim deed. However, a Phase 1 has not been conducted and therefore the property in the eyes of the development world, is a risk.  We have submitted this site to the Kansas City Area Development Council as well as Missouri Partnership on various economic development projects/site searches. We have not had any interest in the site. Feedback received has stated that it is not site ready and does not have a Phase 1. A Phase 1 will mitigate risk to both site selectors and developers.		
ANTICIPATED FUTURE USE		
<input type="checkbox"/> Residential <input type="checkbox"/> Recreational <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Other  Describe the applicant's proposed reuse plan:  The long range plan for this property has always been to develop it as a light industrial business park for the purpose of attracting industry and the primary jobs that industry creates for the benefit of our residents with regard to family supporting jobs as well as the economic well-being of the City. Belton is experiencing unprecedented commercial growth. We would like to balance that growth with primary jobs to support the commercial growth. This site is adjacent to CenterPoint Intermodal, which will create synergy and it is VERY close to the KC Southern rail line.		
FUNDING SOURCES		
Describe any financial incentives planned to spur development and proposed funding sources, like tax incentives:  An aggressive incentive proposal will be crafted utilizing the tools set forth in our Economic Development Incentive Policy. The site is located within an Enhanced Enterprise Zone. Chapter 100 is also an option. In this instance, due to City ownership, there is a unique opportunity, under certain conditions, to significantly reduce land and/or development costs.  We will actively assist in the pursuit of incentives at the State level.  <b>Note:</b> This program is for site assessment only, cleanup money is not being offered as part of this program.		
PUBLIC OR COMMUNITY INVOLVEMENT		
Describe public interest or community involvement in site reuse planning:  The City of Belton's Economic Development Department has contracted with Olsson Associates for the purposes of master planning, site diligence, logical phasing and target market viability. KCP&L, our local utility partner believes this property is extremely well positioned and therefore, through its Local Partners program, paid for a portion of the cost of the contract with Olsson Associates.  We engaged in a Community Competitive Assessment with Missouri Partnership. We showed 3 separate sites. Overall, Belton scored very well. The site selector involved in the assessment encouraged us to move forward with development on THIS particular site. In her opinion, it is our most viable location for industrial development.  As previously stated, this site has been slated for industrial development since the purchase. We do have public interest in the park as we have several local businesses that have inquired about the site for the future location of their expanding business.		



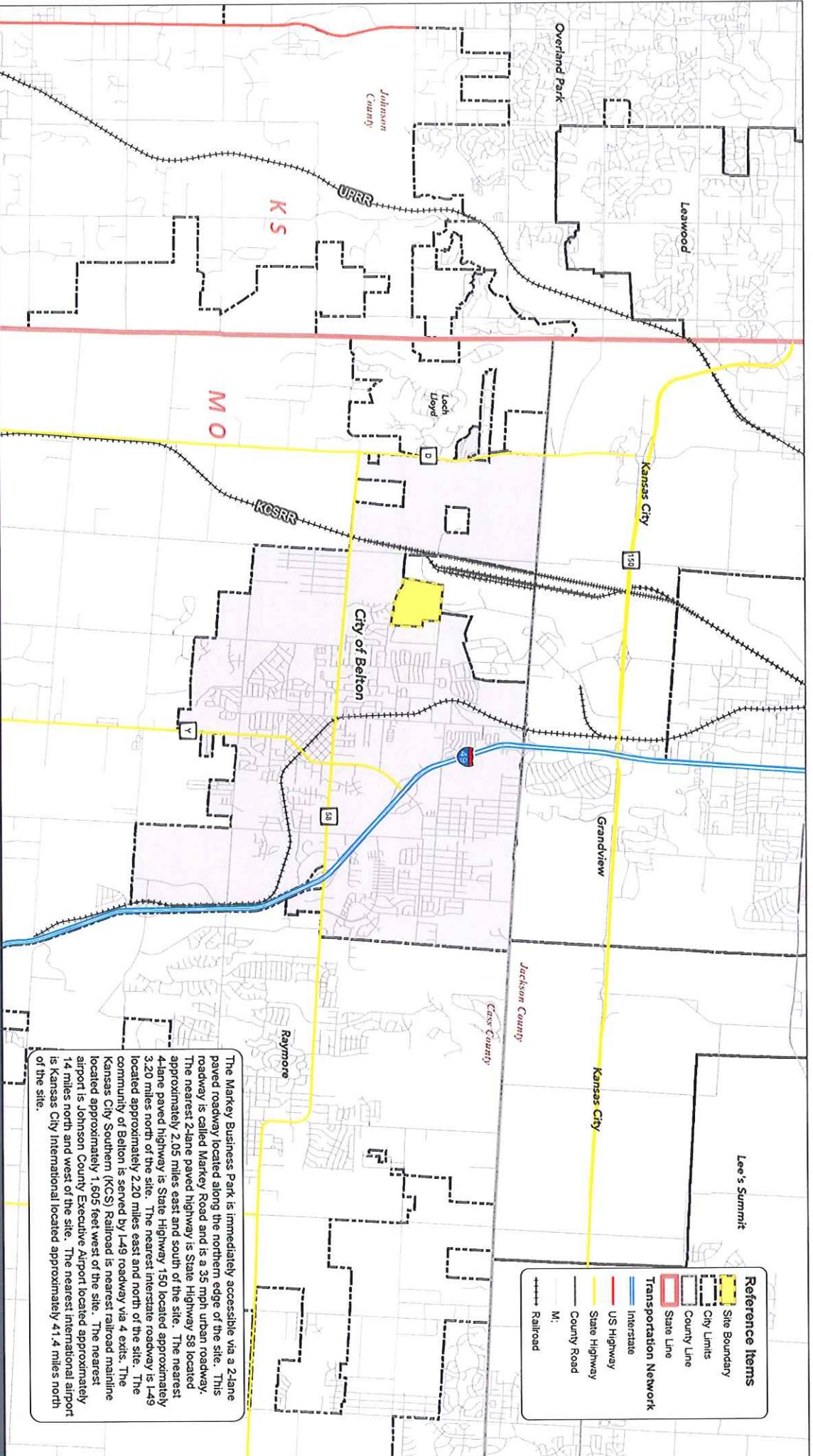
Legend	
[Dashed line]	Site Boundary
[Red line]	Proposed Markey Pkwy
[Blue line]	Proposed Detention
[Grey line]	Proposed Local Road
[Green line]	Existing Vegetation
[Blue line]	Existing Natural Gas Line
[Blue line]	Existing Water Line
[Blue line]	Existing Sanitary Line
[Blue line]	Existing Electric Line
[Blue line]	Existing Overhead Power
User Type	
[Orange]	Industrial Flex
[Yellow]	Manufacturing
[Blue]	Wholesaling

## Master Plan - Option 2

Markey Business Park  
February, 2016

(Draft Document)



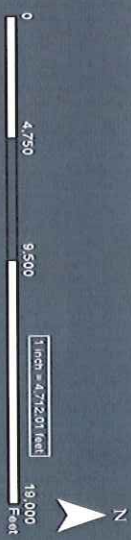


**Reference Items**

- Site Boundary
- City Limits
- County Line
- State Line
- Transportation Network
- Interstate
- US Highway
- State Highway
- County Road
- M.
- Railroad

The Markley Business Park is immediately accessible via a 2-lane paved roadway located along the northern edge of the site. This roadway is called Markley Road and is a 35 mph urban roadway. The nearest 2-lane paved highway is State Highway 58 located approximately 2.05 miles east and south of the site. The nearest 4-lane paved highway is State Highway 150 located approximately 3.20 miles north of the site. The nearest interstate roadway is I-49 located approximately 7.20 miles east and north of the site. The community of Belton (KCS) Railroad is nearest railroad mainline located approximately 1.605 feet west of the site. The nearest airport is Johnson County Executive Airport located approximately 14 miles north and west of the site. The nearest international airport is Kansas City International located approximately 41.4 miles north of the site.

**Local Roadway Network**  
 Markley Business Park  
 October, 2015  
 (Client Document)



**AERIAL VIEW**



**REPRESENTATIVE VIEW**



## Introduction

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### Client and Other Intended Users of the Appraisal

The client in this assignment is the City of Belton. The intended user of this report is the City of Belton and no others.

### Intended Use of the Appraisal

The intended use of this report is for internal decision making purposes.

### Real Estate Identification

The subject property is located in the SWQ of W Markey Road and Seabee Drive, Belton, Missouri 64012. According to client and Cass County records, the subject property includes parcel number 05021000000020001 and the western portion of parcel number 05021000000020006. See aerial photos for additional identification of the subject property.

### Legal Description

A legal description was not provided by the client. For additional identification of the subject property, see aerial photos included later in the report.

### Real Property Interest Appraised

We have appraised the market value of the fee simple interest in the subject property.

### Types of Value

We have estimated the following types of value for the subject property.

#### VALUATION SCENARIOS

Valuation	Completed
"As Is"	Yes
"Upon Completion"	Not Required

Please refer to the Glossary in the Addenda section for the definitions of value type employed in this report.

### Effective Date of Value

The effective date of value is as follows:

Valuation	Effective Date
"As Is"	December 19, 2013

Brock Heyde inspected the property on December 19, 2013.

### Use of Real Estate as of the Effective Date of Value

The subject property was vacant industrial land as of the effective date of value.

### Use of Real Estate as of the Date of this Appraisal

The subject property was vacant industrial land as of the effective date of the appraisal.

### Ownership and Sales History

According to county records, title to the subject property is vested in City of Belton. To our knowledge, the subject property has not been sold, listed or entertained offers for purchase within the past three years.

### Extraordinary Assumptions

According to the client, the subject property includes parcel number 05021000000020006 and only the western portion of parcel number 05021000000020001. Because the latter parcel has not yet been split, we relied upon the GIS department at the City of Belton to provide the land size and approximate property boundaries. We assume the land size and property boundaries reported by the GIS Department are accurate.

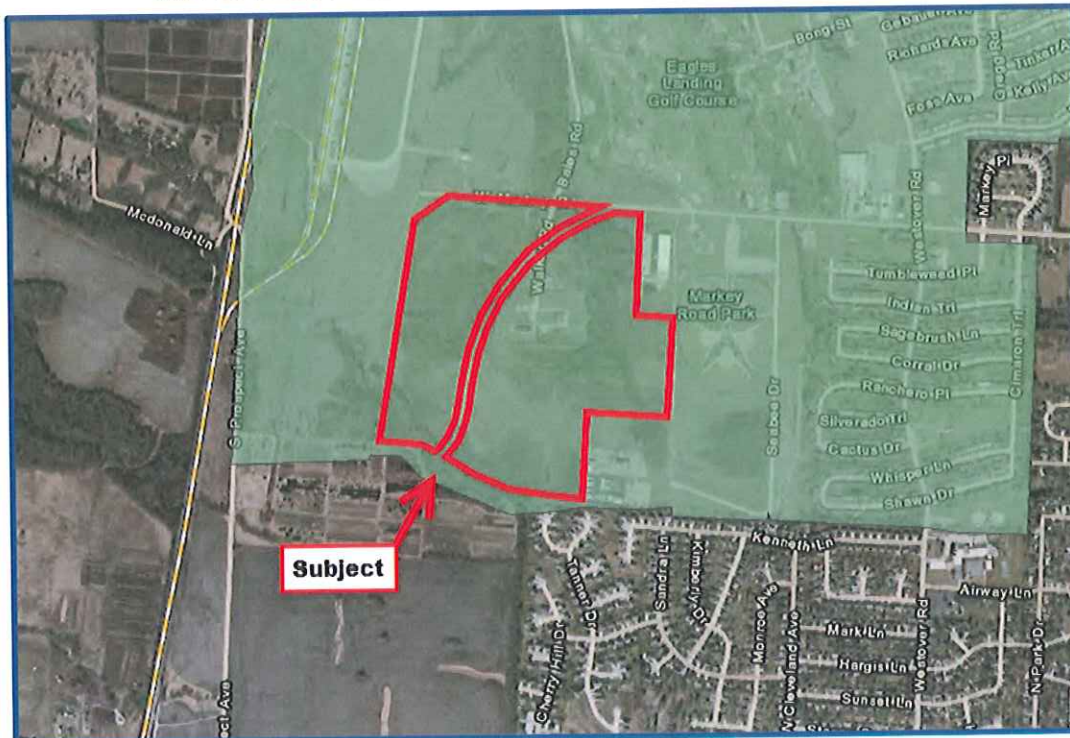
### Hypothetical Conditions

None

### New Markets Tax Credit Program

The subject property is located within an area eligible to participate in the New Markets Tax Credit Program (NMTC Program), which was established by Congress in 2000 to spur new or increased investments into operating businesses and real estate projects located in low-income communities. The NMTC Program attracts investment capital to low-income communities by permitting individual and corporate investors to receive a tax credit against their Federal income tax return in exchange for making equity investments in specialized financial institutions called Community Development Entities (CDEs). According to the Novogradac NMTC Resource Center, this program most often applies to small technology firms, inner-city shopping centers, manufacturers, retail stores or micro-entrepreneurs. However, according to a local industrial broker familiar with this program, Andrew Fischer with Jones Lang LaSalle, this program would apply to a very limited pool of potential investors, and would have a limited impact on the subject's marketability.

### MAP OF AREA ELIGIBLE FOR NEW MARKET TAX CREDITS (NMTC)



Source: www.novoco.com



## Tract Description

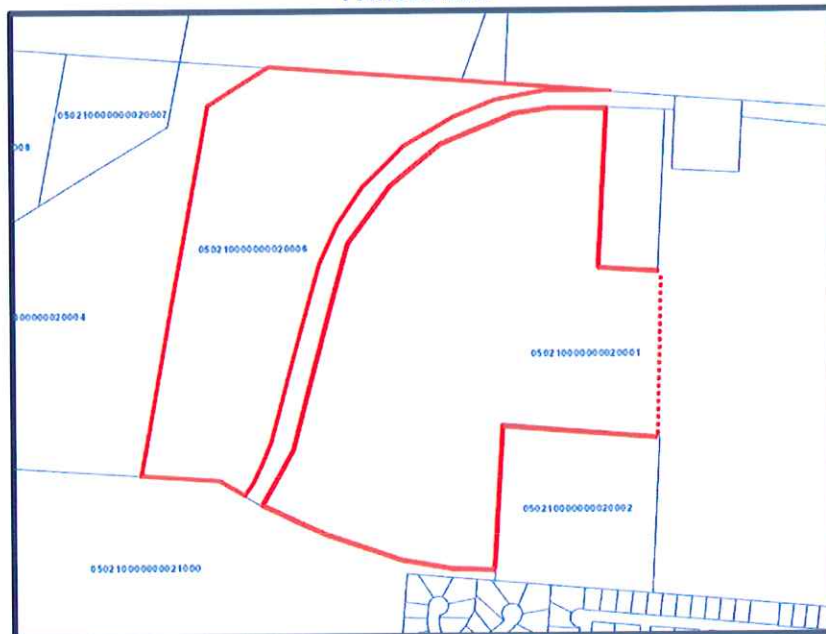
The following description is based on our property inspection, county records, city records, and information provided by the client.

### PARCEL AERIAL



Source: GIS Department at the City of Belton

### PARCEL MAP



**LOCATION OF EXISTING STRUCTURES**



**Contamination**

As noted in the General Assumptions and Limiting Conditions section later in this report, we have valued the property as though free of contamination. According to Carolyn Yatsook with the City of Belton, there is a preliminary environmental assessment on the subject property, which revealed no concerns.

**Flood Zone Data**

Flood Map Panel:	29037C0010F dated 01-02-2013
Flood Zone:	Zone X
Floodplain Description:	Low flood risk
Floodplain Insurance:	Not typically required within this zone.

Subject Photographs



Looking west across southern portion of tract



Looking southwest from north central portion of tract



Looking northwest from Seabee Drive



Looking west across central portion of tract



Looking south from W Markey Road



Looking southwest from Bales Road and W Markey Road



Looking along closed W Markey Road



Looking south along Bales Road

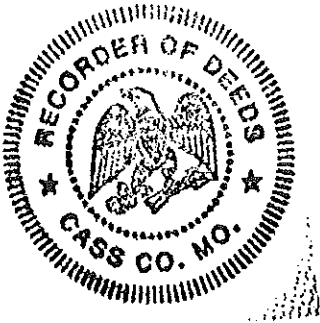


Looking southeast from Bales Road



Looking south towards abandoned ammunition bunker

252505



STATE OF MISSOURI  
COUNTY OF CASS  
CERTIFIED INSTRUMENT RECORDED

2003 JAN 31 P 2:39.0

BOOK 2226 PAGE 000131  
SANDRA GREGORY, RECORDER

\_\_\_\_\_  
DEPUTY

Recording Fee: \$ 47.00

Non-Standard fee: \$ 25.00

Total Recording Fees: \$ 72.00

Space above line for Recorder's Certification

RECORDER OF DEEDS CERTIFICATE

NON-STANDARD DOCUMENT

This document has been recorded and you have been charged the \$25.00 non-standard fee pursuant to RSMo 59.310.3 and this certificate has been added to your document in compliance with laws of the State of Missouri.

2226/131

*Sandra A. Gregory*  
*Recorder of Deeds*

Cass County Courthouse  
102 E Wall Street  
Harrisonville, Missouri 64701  
1-816-380-8117

[gregoryjesagreg@aol.com](mailto:gregoryjesagreg@aol.com)

BOOK \_\_\_\_\_ PAGE \_\_\_\_\_

2226/131

## QUITCLAIM DEED

### I. PARTIES

**THIS QUITCLAIM DEED** is made and entered into this 30<sup>th</sup> day of December, 2002 by and between the UNITED STATES OF AMERICA, acting by and through the Secretary of the Air Force, under and pursuant to the powers and authority contained in the Defense Authorization Amendments and Base Closure and Realignment Act of 1988, as amended (10 U.S.C. § 2687 note), and delegations and regulations promulgated thereunder (the "Grantor"), and the City of Belton, Missouri, a municipal corporation under the laws of the State of Missouri (the "Grantee"). When used in this Quitclaim Deed, unless the context specifies otherwise, "Grantor" shall include the assigns of the Grantor, and "Grantee" shall include the successors and assigns of the Grantee.

This Quitclaim Deed is being made pursuant to a public sale, and it conveys two parcels: (1) Parcel K, containing 2.8961 acres, more or less, of land, which includes facilities 1100 and 1101; and (2) Parcel L, containing 0.4519 acres, more or less, of land, which includes facilities 1201, 1202, 1203, 1205, 1206 (spares inert storage) and 1207 (equipment pad). *Reference*

*Survey Book 12 Page 3.*

### II. CONSIDERATION AND CONVEYANCE

WITNESSETH, THAT the Grantor, for and in consideration of the sum of **THREE HUNDRED THOUSAND DOLLARS (\$300,000.00)** paid by the Grantee, the receipt of which is hereby acknowledged, does by these presents remise, release, and forever quitclaim unto the Grantee the following described real estate situated in the City of Belton, County of Cass, and State of Missouri, to wit: The real estate description is set forth on **Exhibit "A"** to this Quitclaim Deed.

### III. APPURTENANCES AND HABENDUM

**TOGETHER WITH** all buildings and improvements erected thereon, except for monitoring wells, treatment wells, and treatment facilities and related piping, and all and singular the tenements, hereditaments, appurtenances, and improvements hereunto belonging, or in any wise appertaining, which, together with the real property above described, is called the "Property" in this Deed.

### IV. EXCEPTIONS - RESERVED

### V. RESERVATIONS

**A. AND FURTHER RESERVING UNTO The GRANTOR**, including the United States Environmental Protection Agency ("EPA") and the State of Missouri (the "State"), and its and their respective officials, agents, employees, contractors, and subcontractors, the right of access to the Property (including the right of access to, and use of, utilities at reasonable cost to the Grantor), for the following purposes, either on the Property or on adjoining lands, and for

such other purposes consistent with the Installation Restoration Program ("IRP") of the Grantor or the Federal Facility Agreement ("FFA"), if applicable:

1. To conduct investigations and surveys, including, where necessary, drilling, soil and water sampling, testpitting, testing soil borings, and other activities related to the IRP or FFA, if applicable.

2. To inspect field activities of the Grantor and its contractors and subcontractors in implementing the IRP or the FFA, if applicable.

3. To conduct any test or survey required by the EPA or the State relating to the implementation of the IRP or FFA, if applicable, or to verify any data submitted to the EPA or the State by the Grantor relating to such conditions.

4. To conduct, operate, maintain, or undertake any other response, corrective, or remedial action as required or necessary under the IRP or the FFA, if applicable, or the covenant of the Grantor in Section VII.D. of this Deed, but not limited to, the installation of monitoring wells, pumping wells, and treatment facilities.

## VI. CONDITION

A. The Grantee agrees to accept conveyance of the Property subject to all existing covenants, conditions, restrictions, easements, rights-of-way, reservations, rights, agreements, and encumbrances, whether or not of record.

B. The Grantee acknowledges that it has inspected, is aware of, and accepts the condition and state of repair of the Property, and that the Property is conveyed, "as is," "where is," without any representation, promise, agreement, or warranty on the part of the Grantor regarding such condition and state of repair, or regarding the making of any alterations, improvements, repairs, or additions. The Grantee further acknowledges that the Grantor shall not be liable for any latent or patent defects in the Property, except to the extent required by applicable law.

C. Grantee and its successors and assigns hereby understand and agree that all costs associated with removing any restrictions of any kind whatsoever contained in this deed, whether necessitated by an environmental or other law or regulation, shall be the sole responsibility of Grantee, its successors and assigns, without any cost whatsoever to the United States.

## VII. GRANTEE COVENANTS

A. Lead-Based Paint ("LBP"). LBP might be present in facilities other than housing on the property since the facilities were built prior to 1978. The Grantee is responsible for managing all LBP and potential LBP in compliance with all applicable laws and regulations.

**VIII. ENVIRONMENTAL COVENANTS RELATED TO SECTION 120(h)(3) OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA), AS AMENDED, 42 U.S.C. §9620(h)(3).**

A. Pursuant to section 120(h)(3)(A)(i) of CERCLA, the following is notice of hazardous substances on the Property, and a description of remedial action concerning the Property.

1. The Grantor has made a complete search of its files and records. **Exhibit B** contains a table with the name of hazardous substances stored for one year or more, or known to have been released or disposed of, on the Property; the quantity in kilograms and pounds of the hazardous substance stored for one year or more, or known to have been released, or disposed of, on the Property; and the date(s) on which such storage, release, or disposal took place. The release was below action levels determined and does not pose a hazard to human health and the environment, therefore no remedial action was associated or required in association with this release.

2. A description of the remedial action(s) taken by the Grantor on the Property regarding hazardous substances is contained in **Exhibit C**.

3. Pursuant to section 120(h)(3)(A)(ii) of CERCLA, the United States covenants and warrants:

(a) That all remedial action necessary to protect human health and the environment with respect to hazardous substances remaining on the Property has been taken before the date of this Quitclaim Deed; and

(b) Any additional remedial action found to be necessary after the date of this Deed for contamination on the Property existing prior to the date of this Deed will be conducted by the United States.

B. The foregoing covenants contained in this Section VIII will not apply in any case in which any grantee of the Property, or any part thereof, is a potentially responsible party with respect to the Property before the date on which any grantee acquired an interest in the Property or is a potentially responsible party as a result of an act or omission affecting the Property. For the purposes of these covenants, the phrase "remedial action necessary" shall not include any performance of, or payment to, the Grantee for additional remedial action required to facilitate a Grantee change in the proposed use of the property.

**IX. MISCELLANEOUS.** Each covenant of this Deed shall be deemed to "touch and concern the land" and shall "run with the land."

**X. LIST OF EXHIBITS.** The following three Exhibits are attached to and made a part of this Quitclaim Deed:

- A. Exhibit A - Description of Deeded Premises
- B. Exhibit B - Hazardous Substance Notification
- C. Exhibit C - Description of Remedial Action Taken





**Acceptance**

The Grantee hereby accepts this Deed and agrees to be bound by all the agreements, covenants, conditions, restrictions, and reservations contained in it, and assumes all obligations for taxes affecting the Property, including past due and delinquent taxes with all penalties, interest, attorney fees, or related charges.

DATE: Jan. 15, 2003

(Grantee)

By: Billie Pinkepank  
BILLIE PINKEPANK  
Mayor, City of Belton

Attest:

Ronald D. Trivitt

2003

**EXHIBIT A**

**DESCRIPTION OF DEEDED PREMISES**

**PARCEL "K" OR TRACT 1100 Located in Cass County, Missouri**

A tract of land in the Northeast Quarter of Section 10, Township 46, Range 33, Cass County, Missouri, (more particularly described as follows):

COMMENCING at the Northeast corner of the Northeast Quarter of said Section 10; thence North 85°20'29" West, along the North line of said Northeast Quarter Section, a distance of 967.08 feet; thence South 4°39'31" West, a distance of 25.00 feet, to the POINT OF BEGINNING, said point being on the assumed South right of way line of Markey Road; thence South 2°55'42" West, a distance of 362.72 feet, thence North 87°04'57" West, a distance of 342.62 feet; thence North 2°51'06" East, a distance of 373.15 feet, to a point on the assumed South right of way line of said Markey Road; thence South 85°20'29" East, 25 feet South of and parallel with the North line of said Northeast Quarter Section a distance of 343.28 feet, to the POINT OF BEGINNING, containing 2.8961 acres.

**PARCEL "L" OR TRACT 1200 Located in Cass County, Missouri**

A tract of land in the North One-Half of Section, 10, Township 46, Range 33, Cass County, Missouri, more particularly described as follows:

COMMENCING at the Northeast corner of the Northeast Quarter of said Section 10; thence North 85°20'29" West, along the North line of said Northeast Quarter Section, a distance of 2396.73 feet; thence South 4°39'31" West, a distance of 25.00 feet, to the POINT OF BEGINNING, said point being on the South right of way line of Markey Road as described in Book 308 at Page 115; way line of Markey Road as described in Book 308 at Page 115; thence South 20°22'00" West a distance of 198.96 feet, to a point of curvature; thence Southwesterly along a curve to the left, having a radius of 1387.12 feet and a central angle of 17°05'38", an arc distance of 413.84 feet; thence 87° 00'01" East, a distance of 109.70 feet; thence South 2 56'00" West, a distance of 175.00 feet, thence South 87 00'01" East a distance of 109.03 feet; thence 42 03'07" East, a distance of 177.60 feet; thence South 2°54'39" West, a distance of 354.55 feet; thence North 87°02'44" West, a distance of 707.27 feet; thence North 2°57'27" East, a distance of 204.37 feet; thence North 35°24'40" East, a distance of 327.18 feet; thence North 8°25'58" East, a distance of 43.74 feet; thence North 57°30'56" East, a distance of 101.68 feet; thence North 2°56'00" East a distance of 64.10 feet to appoint of curvature; thence Northeasterly along a curve to the right, having a radius of 1487.12 feet and a central angle of 17°26'00", an arc distance of 452.48 feet, to the point of 17°26'00", an arc distance of 452.48 feet, to the point of tangency; thence North 20°22'00" East, a distance of 170.84 feet, to a point on the South right of way line of said Markey Road; thence South 85°20'29" East, 25 feet South of and parallel with the North line of the Northeast Quarter of said Section 10 a distance of 103.88 feet, to the POINT OF BEGINNING, containing 9.4519 acres.

**EXHIBIT B**

**HAZARDOUS SUBSTANCE NOTIFICATION**

COPY

Table C-2. Hazardous Material Storage In Quantities Exceeding 40 CFR 373 Thresholds  
Page 2 of 2

Facility Number	Product	Quantity Stored (Units Provided)	Quantity Stored (kg)	Years	Constituents	%	Synonym(s)	CASRN
828	Safety Kleen 140 solvent	150 gallons/8 months	567/6 months	1990	Anti-static additive Dye 140 solvent	NL 0.003 100	NL NL NL	NL NL NL
839	Zygo cleaner	12 cans/month	272/month	1981	NL	NL	NL	NL
839	Zygo developer	1 can/month	23/month	1981	NL	NL	NL	NL
918	Brake parts cleaner	264 cans/year	5,987/year	1993	NL	NL	NL	NL
918	Brakeair	264 cans/year	5,987/year	1993	NL	NL	NL	NL
927	Cleaning, engine	50 gallons/month	129/month	1981	NL	NL	NL	NL
927	Lubricating oil, turbine	50 gallons/month	189/month	1981	NL	NL	NL	NL
927	Methanol, technical	300 gallons/month	1,134/month	1983	Methanol	100	Methyl alcohol Monohydroxymethane Wood alcohol	67-56-1
927	Lubricating oil, turbine	50 gallons/month	189/month	1981	NL	NL	NL	NL
927	Methanol, technical	300 gallons/month	1,134/month	1983	Methanol	100	Methyl alcohol Monohydroxymethane Wood alcohol	67-56-1
927	Safety-Kleen 140	490 gallons/year	1,852/year	1990	Anti-static additive Dye	NL 0.003	NL NL	NL NL
927	Safety-Kleen 140	280 gallons/year	1,050.4/year	1993	140 solvent	100	NL	NL
940	Lube oil, general purpose	48 cans/year	1,089/year	1993	Transformer oil (PCB free) Corrosion inhibitor Thermosetting acrylic Food grade antioxidant	100 92 6 1 0.5	NL NL NL NL NL	NL NL NL NL NL
948	Alkaline cleaning compound	500 gallons/year	1,890/year	1984-1986	Low foaming surfactant	0.5	NL	NL
* → 1202	Black handy-spray Ink	59.345/year	1,661.66/year	1986	Methylene chloride	29	Dichloromethane Methylene chloride Narkoil	75-09-2
					Aromatic hydrocarbons Ketones	15 18	NL NL	NL NL

CFR = Code of Federal Regulations.  
NL = Not Listed.

## EXHIBIT C

### DESCRIPTION OF REMEDIAL ACTION TAKEN

#### Underground and Above Ground Storage Tanks (USTs and ASTs)

There are no USTs remaining on the deeded Property. All USTs formerly on Parcel L property are identified in the Finding of Suitability to Transfer (FOST) document. Confirmatory soil sampling was conducted on November 14, 1996, to determine if contamination was present at the excavation sites of previously removed tanks. A thorough investigation to delineate the extent of contamination began in October 1999. The extent of the contamination was delineated and contaminated soil removed. Details of the investigation and remediation can be found in the Final Underground Storage Tank Closure Reports, 1100 Area and 1200 Areas, dated December 2000. The closure approval letters dated November 28, 2000 and December 22, 2000 are provided as attachments to the FOST.

#### Unexploded Ordinance

Unexploded ordnance was located on the property. An unexploded ordnance survey has been conducted, and a clearance certificate issued which documents that there is now no unexploded ordnance at the site. The Certificate and conditions of the survey are identified in the FOST with supporting clearances provided as FOST attachments. Based upon the proposed use of the site no notice or deed restrictions are required in association with this issue.

#### Septic tanks (Wastewater)

A septic tank is present on the property (adjacent to Building 1100). In August 2000, the septic tank contents were sampled, the tank emptied and inspected for cracks, and the tank filled in with soil. Results of the samples indicated no evidence of a release. Results of the septic tank closure are included in the UST Final Closure Report, 1100 Area, dated December 2000. The report was approved by the Missouri Department of Natural Resources on December 22, 2000. The closed septic tank is identified as Category 1 in the Basewide Environmental Baseline Survey. No institutional controls are required for this site. The Grantee is responsible for complying with all applicable laws and regulations pertaining to discharge and maintenance of the tank.

#### Asbestos Containing Material (ACM)

ACM is located on the property (Buildings 1100, 1201, and 1202) and is in good condition and not damaged or deteriorated to the extent that it creates a potential source of airborne fibers. The Grantee is responsible for complying with all applicable Federal, State, and local laws relating to asbestos.

**SUPPLEMENT TO THE BASEWIDE ENVIRONMENTAL BASELINE SURVEY**  
**Parcels K & L (1100 and 1200 Area)**  
**Richards-Gebaur Air Force Base, Missouri**

This supplement to the Basewide Environmental Baseline Survey (EBS) documents updates to the environmental condition of Parcels K and L Areas, which include Buildings 1100, 1101, 1201, 1202, 1203, 1205, 1206, and 1207, at Richards-Gebaur Air Force Base (AFB) MO, and is based on a review of the December 1993 Richards-Gebaur AFB Basewide EBS, and the Visual Site Inspections (VSI) of the property which were conducted on September 24, 2002. Based on an analysis of the available data, this survey concludes that a release, disposal, and/or migration of hazardous substances or petroleum products has occurred.

This supplement to the Basewide EBS collects available information to establish the current physical and environmental condition of the Parcels K and L property, and to assist the Air Force in complying with its obligations under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended (42 U.S.C. Section 9620(h)).

As detailed below, the information in this supplement to the Basewide EBS was compiled from current records and investigations, visual site inspections, aerial photographs, and/or interviews with former base personnel familiar with current and past operations. Any changes or information not outlined below is considered to be the same as stated in the Basewide EBS.

The following is an update to the environmental findings listed in the Base-Wide EBS.

**3.3.3.1 Aboveground Storage Tanks (AST)**

A 250-gallon AST, located adjacent to Building 1100, has been removed. This AST was investigated as part of the Building 1100 Underground Storage Tank Closure Project in February 2000. The Closure Report, dated December 2000, verified there were no soil contaminants above Missouri Department of Natural Resources (MDNR) action levels at the site. This AST is identified as Category 2 in the Basewide EBS. The specific EBS Category is unchanged from the Basewide EBS.

**3.3.3.2 Underground Storage Tanks (UST)**

There are no USTs remaining on the property to be deeded. All USTs formerly on the Parcels K and L property are identified in the following chart. Confirmatory soil sampling was conducted in November 1996, to determine if contamination was present at the excavation sites of previously removed tanks. The final study document, Analytical Data Report Subsurface Assessment, Underground Storage Tank Sites, by HDB Construction was submitted to the Federal and State regulators in November 1996. In 1998, samples were taken from several borings and revealed the presence of fuel oil residuals. A thorough investigation to delineate the extent of the contamination began in October 1999. The extent of contamination was delineated and contaminated soil removed. Details of the investigation and remediation can be found in the

Underground Storage Tank Closure Reports, Dames & Moore, 1100 Area and 1200 Area, dated December 2000. Closure approval letters dated November 28, 2000 and December 22, 2000, are in Attachment 1.

Underground Storage Tanks						
Facility	Contents	Capacity (gallons)	Status	Years of Operation	Program Status	Specific Property Category
1100	Gasoline	250	Removed	1953-1988	MDNR	2
1100	Fuel oil	550	Removed	1953-1988	MDNR	2
1201	Fuel oil #2	3,000	Removed	1961-1992	MDNR	2
1202	Fuel oil #2	1,500	Removed	1959-1982	MDNR	2
1202	Fuel oil #2	1,650	Removed	1982-1992	MDNR	2

### 3.3.3.4 Septic Tanks

There is currently one (1) septic tank located on the property to be transferred, located adjacent to Building 1100. In August 2000, the septic tank contents were sampled, the tank emptied and inspected for cracks, and filled in with soil. Results of the samples indicated no evidence of a release. Results of the septic tank closure are included in the 1100 Area UST Closure Report, dated December 2000. The report was approved by MDNR on December 22, 2000. This septic tank was not mentioned in the Basewide EBS. No institutional controls are required for this site. This septic tank is now Category 1 in the Supplemental EBS.

### 3.3.7 Ordnance

Unexploded ordnance was not located on the property. An unexploded ordnance survey has been conducted, and a clearance certificate issued (see Atch. 2) which documents that there is no unexploded ordnance at the site.

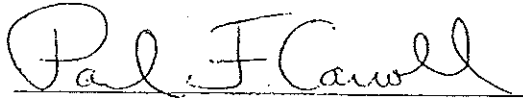
### 3.3.9 Radioactive and Mixed Wastes

A radiological survey was conducted at Richards-Gebaur AFB on August 4-8, 1997. Results of the survey indicated all alpha and gamma radiation measured at the former Weapons Storage Area (WSA) were indistinguishable from background measurements. Based on the survey measurements and documented findings, the WSA may be released to the public for unrestricted use (See Atch. 3: Consultative Letter, AL/OE-CL-1997-0197, Final Status Survey of Weapon Storage and Maintenance Area, Richards-Gebaur Memorial Airport MO., 30 Oct. 97).



## CERTIFICATION

I certify that the property conditions stated in this report are based on a thorough review of available records, visual inspections, sampling and analysis as noted and are true and correct, to the best of my knowledge and belief.



PAUL F. CARROLL  
BRAC Environmental Coordinator  
AFRPA/DC-Reese

24 September 2002  
Date

### Attachments:

1. UST Closure Approval Letters, 1100 and 1200 areas
2. Unexploded Ordnance Certificate for WSA (1200 area)
3. Consultative Letter, AL/OE-CL-1997-0197, Final Radioactive Status Survey
4. Visual Site Inspections

ATTACHMENT 1  
UST Closure Approval Letters  
1100 and 1200 Areas

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL QUALITY  
P.O. Box 176 Jefferson City, MO 65102-0176

Roger B. Wilson  
Governor • Stephen M. Mahfood, Director

JAN 03 2001

December 22, 2000

Mr. Paul Carroll  
BRAC Environmental Coordinator  
9801 Reese Boulevard North, Suite 300  
Lubbock, TX 79416

RE: *Draft Final Underground Storage Tank Closure Report Building 1100*

Dear Mr. Carroll:

The Federal Facilities Section of the Hazardous Waste Program has received and reviewed the above referenced report. Based upon the analytical data within the report it appears no additional remediation is required at this time.

If you have any questions regarding this letter, or need further information, you may contact me at (573) 526-2736.

Sincerely,

HAZARDOUS WASTE PROGRAM

  
James R. Harris, Environmental Specialist III  
Federal Facilities Section, HWP

JH:lg

c: Bob Koke, USEPA  
Kay Grosinke, AFCEE

DEC 05 2000

STATE OF MISSOURI  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF ENVIRONMENTAL QUALITY  
 P.O. Box 176 Jefferson City, MO 65102-0176

Roger B. Wilson  
~~MISSOURI~~ Governor • Stephen M. Mahood, Director

November 28, 2000

Mr. Paul Carroll  
 BRAC Environmental Coordinator  
 9801 Reese Boulevard North  
 Suite 300  
 Lubbock, TX 79416

RE: *Final Underground Storage Tank Closure Report Building 1200*

Dear Mr. Carroll:

The Federal Facilities Section of the Hazardous Waste Program has received your closure report for the site listed above.

Based upon review of the analytical data and other information submitted, the department finds that no additional investigation or remedial action is currently required with regard to these petroleum substances. However, the department's finding is based solely on the information contained in these reports. This finding does not constitute a certification or guarantee of the quality of the remedial action conducted or with regard to the lack of contamination on the property.

In the event a future petroleum-related environmental problem arises in the vicinity of this property, the department reserves the right to require responsible parties to conduct additional investigation and/or remedial actions.

If you have any questions regarding this letter, or need further information, you may contact Jim Harris of my staff at (573) 526-2736.

Sincerely,

HAZARDOUS WASTE PROGRAM



James R. Harris, Environmental Specialist III, DOD Unit  
 Federal Facilities Section, HWP

Jh:lg

c: Bob Koke, USEPA  
 Kay Grosinke, AFCEE

ATTACHMENT 2  
Unexploded Ordnance Certificate  
for WSA (1200 Area)

8 June, 1998

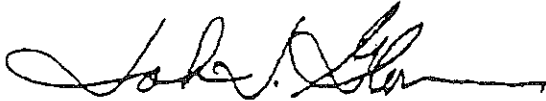
MEMORANDUM FOR: Air Force Conversion Agency, OL Q, AFBCA

FROM: HQ AFRC/CEXP

WSA is the 1200 Area

SUBJECT: Unexploded Ordnance (UXO) Certification of the Small Arms Training Area, and Weapons Storage Area, Richards-Gebaur ARB, MO

This memorandum certifies that the weapons storage area (WSA) and small arms training area, Richards-Gebaur ARB, MO were surveyed and inspected during the period of 12 - 26 July 1996. To the best of my knowledge and ability, I certify that as of the dates reflected above, there is no unexploded ordnance located at these sites.



JOHN J. GLOVER, GS 11

Explosive Ordnance Disposal Program Manager  
Survey and Inspection Team Chief

# BELTON TRAINING COMPLEX, RICHARDS-GEBAUR AFB, MO UNEXPLODED ORDNANCE CLEARANCE PLAN

## 1. Summary of Research Sources:

- a. Records Search, Preliminary Findings Report; Prepared by *Science Applications International Corporation*, September 1994
- b. Survey Report Explosive Ordnance Disposal (EOD) Contamination Survey, Prepared by *Science Applications International Corporation*, December 1994
- c. Final Environmental Impact Statement, July 1994
- d. CMSgt (Retired) Darryle McCombee, EOD Branch Chief, Sun City, AZ

## 2. Summary of Survey Team Investigation:

a. GENERAL INFORMATION: A surface/sub-surface survey of specific areas (Weapons Storage Area (WSA) and Belton Training Complex (BTC)) belonging to Richards-Gebaur AFB was conducted 12 - 26 July 1996. The survey was conducted to determine if unexploded ordnance or ordnance residue was present within specified locations and to provide suggested methods and cost estimates for remediation to permit closure/conversion of the property. The survey was conducted by Mr. John J. Glover, GS-11, HQ AFRC/CEXP; TSgt Darin Frye, Dover AFB DE; TSgt Schmelz, McConnell AFB KS; SSgt Carpenter, Charleston AFB SC; Sgt VandePol, SrA Haupt, SrA Stevens, Travis AFB, CA; and A1C Davidson, McChord AFB WA.

b. A 100% surface/sub-surface survey was performed at the BTC. The survey was accomplished in 30-foot wide sweeps with the starting and corner boundaries clearly marked with surveyor's tape, fences and hedgerows. A stake was placed along one end boundary line 30 feet from the starting position, perpendicular to the route of travel. As the six EOD technicians proceeded forward in parallel, but in a slightly diagonal formation, 100% of the 30-foot sweep path was visually and locator surveyed. When the end of the sweep was reached, another stake was placed 30 feet down the end boundary line, perpendicular to the route of travel. The team then started a sweep in the opposite direction paralleling their first path. Intermediate markers were used when sight of the end marker was lost. A seventh person acted as the sweep team supervisor ensuring proper pattern alignment. Anomalies were marked with marking flags and the location recorded using an eighth person and two military GPS systems operating in the DoD mode.

c. SITUATION: Richards-Gebaur AFB property is currently transitioning to the public and other DOD components. This survey was conducted as a result of findings identified in the *Final Environmental Impact Statement*, July 1994, and the *Preliminary*

*Findings Report* produced by Science Applications International Corporation (SAIC) under contract number F090609-93-D-0004 during September of 1994. The preliminary survey identified two areas for further interrogation: the WSA and the BTC (paragraphs 3.3 and 3.4 respectively of the preliminary report). HQ AFRC/CEXP and WL/FIVCF viewed these areas during a pre-operation site visit in May of 1996.

d. HISTORICAL AND PLANNING DATA: The 442d Fighter Wing (USAFR), moved from Richards-Gebaur AFB to Whiteman AFB in June 1994. Prior to that, the WSA was used extensively to support an A-10 aircraft mission.

(1) The preliminary report finding, "Required visual and subsurface survey and soil screening," for the WSA is puzzling. CMSgt (Retired) Darryle McCombee was contacted at his residence in Sun City, Arizona. He closed the EOD capability at Richards-Gebaur AFB in 1970 when a change in mission deleted the requirement for an organic EOD capability. After that, TDY EOD teams or qualified munitions maintenance personnel conducted munitions disposal operations at the BTC. He also stated there is no reason to expect UXO or ordnance residue contamination in the WSA. There is no established correlation between the presence of UXO or ordnance residue in a WSA and the presence of an EOD team. Although build-up, maintenance, and storage operations for munitions was conducted in the WSA, consideration must be given of the demand for strict and accurate accountability placed on munitions storage operators. The probability of finding any UXO or ordnance residue in the WSA is extremely remote and does not warrant soil screening. The survey team spent several hours sweeping and excavating anomalies (45) discovered near the storage magazine and missile maintenance facility. Items recovered included a quarter (25 cent coin), drill bit, needle nose pliers, concrete reinforcing bars, and drainage pipes at depths between 1 and 12 inches. No ordnance-related items were found. We do not recommend any further action be taken in the WSA.

\* 1200  
AKEA

(2) The BTC has been used for many purposes and by several other DOD components throughout its history. Indiscriminate dumping and burial of ordnance residue was prevalent over a large area where detonation, burning, and training operations had taken place in the past. The finding and presence of ordnance residue were confirmed during the pre-operation site visit to the BTC. Thermally treated small arms ammunition, impulse cartridge, and aircraft/personal distress flare residue were discovered on the surface near the location identified as the "Training and Burning Area" on the attached SAIC-annotated map.

(3) The methodology used to prepare and conduct this survey was outlined prior to the pre-operation site visit. Initial efforts were concentrated on the preliminary report produced by SAIC. During the pre-operation site visit, findings were confirmed and locations identified for further study were visited to determine feasibility, manpower, and equipment requirements for the survey.



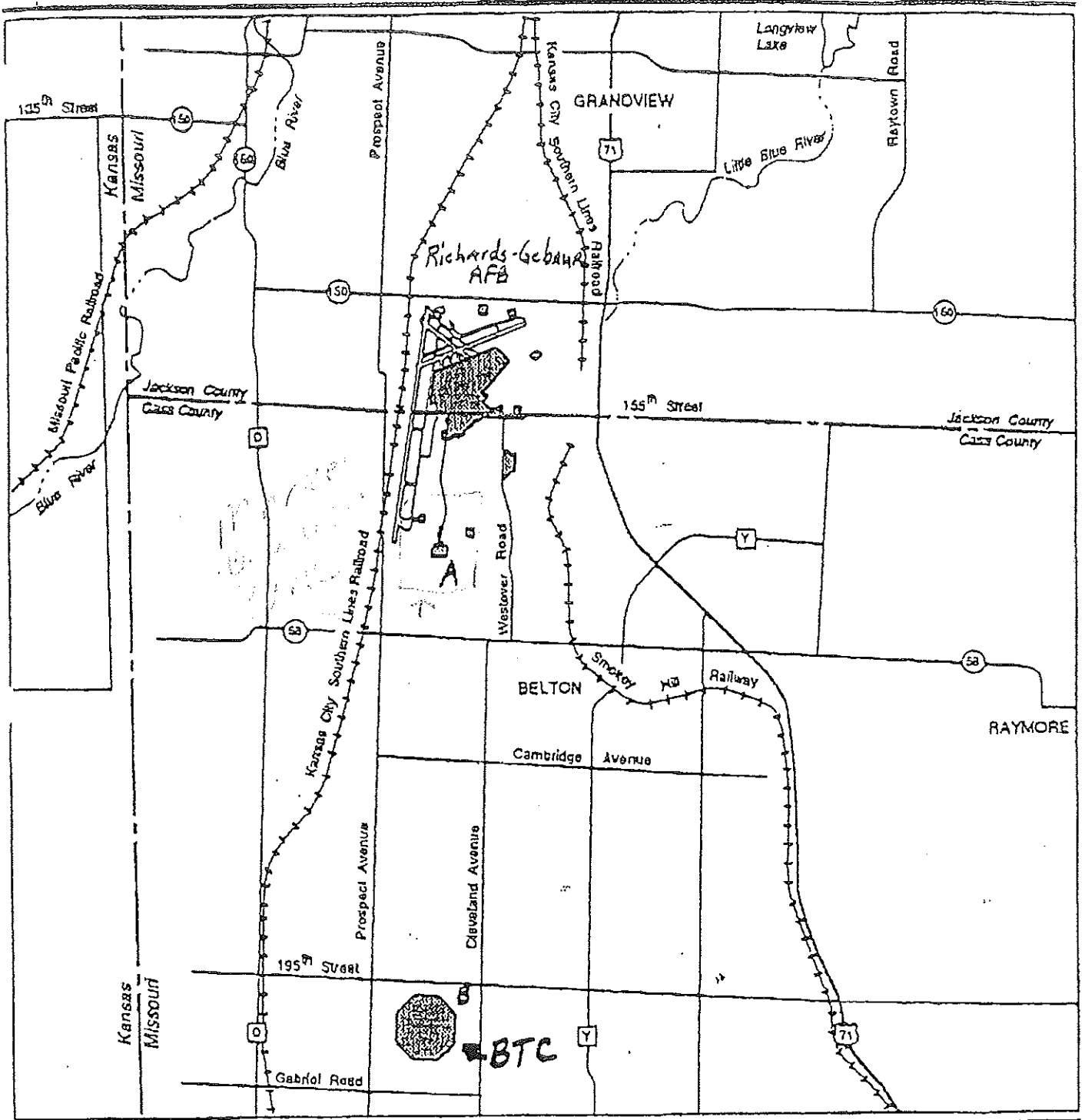
(4) After determining resources were available to conduct the survey, a start date was established and support/logistics preparation initiated. In an effort to provide an optimum-operating environment for the EOD technicians/locators and the locator platform used by Wright Labs, vegetation was cut to an average length of 8 inches wherever possible. The BTC was divided into four sections of approximately 25 percent of the total area each. Section one contained the previously identified detonation and burn sites and would serve as the starting point for the survey since it was suspected as containing the bulk of the problem material.

### 3. Description of Areas to be Cleared:

**BELTON TRAINING COMPLEX:** This area consists of approximately 213 acres of gently rolling hills covered with grass, brush, and trees of various sizes. The area contains two ordnance demolition sites and an ordnance burning/training pit in the northeast quadrant. It also has two earth-covered storage igloos and a multi-cube storage facility centrally located within the complex. As suspected, the northeast quadrant contained the greatest number of anomalies and surface residue. Many saturated areas were discovered in close proximity to the detonation points and training/burning area. Throughout the BTC, several large areas were located that contained metallic material. Some of these areas were located near old chain-link fences that were removed in the late sixties or early seventies. Other anomalies had no correlation to any known activity in the area.





# MAPS

1. General Area Layout
2. Closer View of Areas
3. Belton Training Complex



Base Setting

EXPLANATION

-  Base Property
-  U. S. Highway
-  State Highway
-  County Road

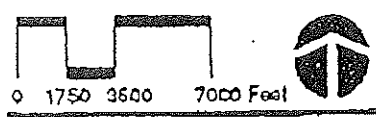
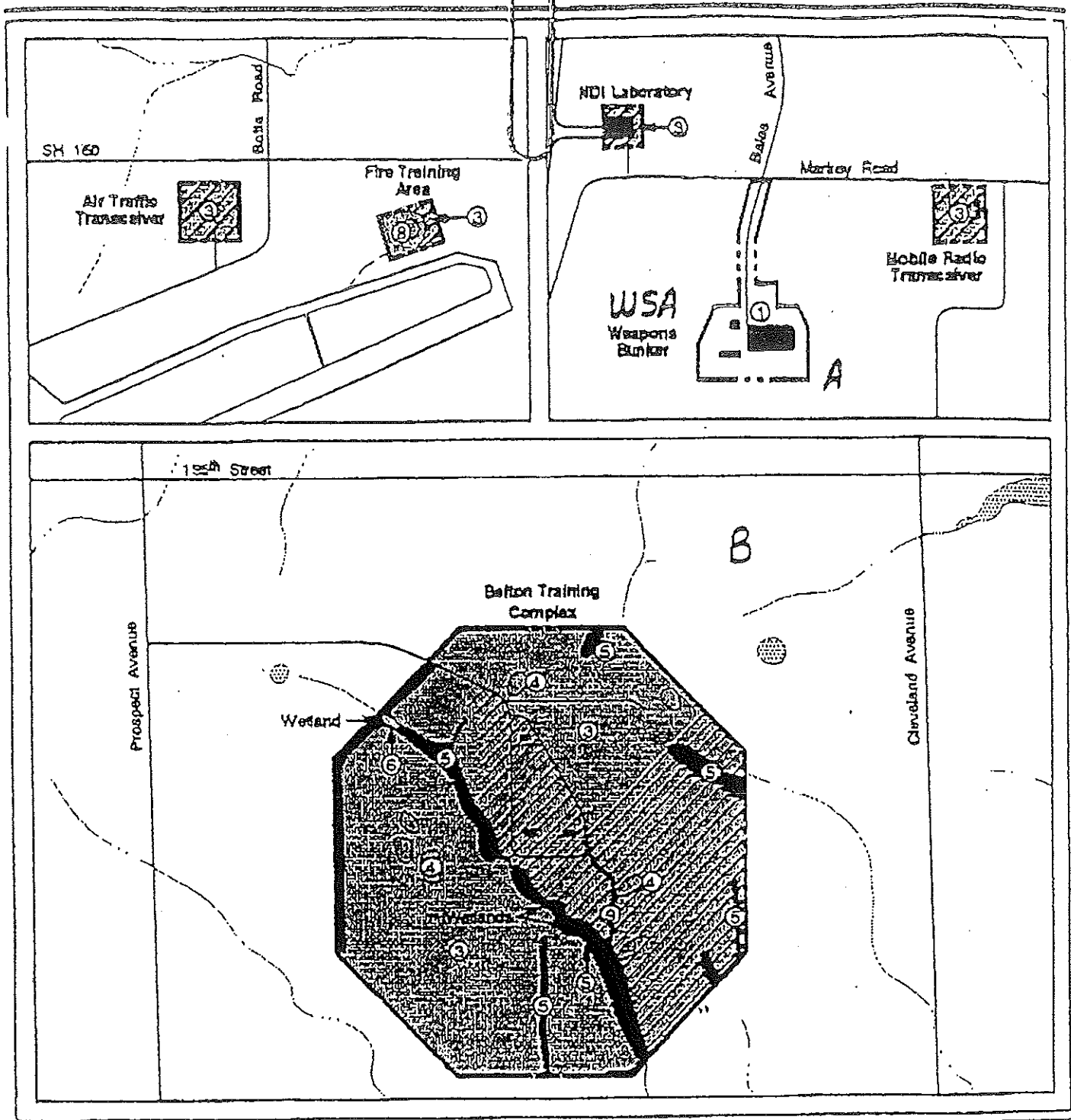


Figure 3.2-4



**EXPLANATION**

- |  |               |  |             |  |           |
|--|---------------|--|-------------|--|-----------|
|  | Landscaped    |  | Forest      |  | Water     |
|  | Agriculture * |  | Swamp/Marsh |  | Developed |
|  | Grassland     |  | Tundra *    |  | Disturbed |
|  | Shrubland     |  | Barren      |  | Wetlands  |



--- Base Boundary

\* Standard vegetation designation not applicable to this figure.

**Biological Resources**

Figure 3.4-6b

4. **Future Intended Use of the Land and any Planned Restrictions on Use:** OLC AFBCA at Richards-Gebaur AFB has determined that the land will be cultivated and used for agricultural purposes. This will require the land to be cleared to a depth of four feet.

5. **Clearance Procedures to be Used:**

a. Identified areas will be excavated to a depth of four feet. Initial clearance boundaries have been set by the surface/sub-surface survey (see maps) but clearance activities will continue if contamination is found at these boundaries and continue until no further munitions contamination is present. All reactive (UXO) waste discovered during the clearance will be separated and stored until proper thermal treatment can be accomplished at an approved facility. Only items found in too hazardous a condition to be safed or moved will be disposed of locally under emergency conditions. To ensure the proper storage and treatment of any hazardous waste discovered during the clearance operation, hazardous waste/material accumulation points will be established (the igloos should serve this purpose very well).

b. All ordnance burial pits will be excavated and cleared to a depth of 4 feet below previous excavation levels. The personnel shelter will be removed to facilitate clearance operations.

c. One area contains thick brush with 2- to 3-inch thorns and small trees. This area is directly below (in grade) an area used to dump thermally treated ordnance residue. Years of rain have caused this material to migrate from the dumpsite into a natural drainage area. This entire area must be cleared of all vegetation and excavated using the same methods applied to the open areas.

d. In general terms, the area(s) will be excavated to a depth of four feet with removed soil taken to a "shaker" used to separate loose soil and solid objects. This material will be inspected by explosive ordnance disposal personnel for live ordnance and ordnance residue. Live ordnance will be separated and held in a secure and hazardous material/waste permitted temporary holding area for final disposition. Inert or empty ordnance residue will be placed in a separate temporary hazardous material/waste permitted temporary holding area pending final disposition. Once cleared, the soil will be returned to the excavated area(s) and distributed in a manner that conforms to the natural characteristics of the surrounding landscape.

6. **Possible Environmental Issues:**

a. Permitting of temporary storage areas.

b. Emergency disposal permits if live ordnance is found in too hazardous a condition to move or store.

c. No known natural environmental issues at the time this report was written.

7. **Support Required by the Unit:** It is recommended that this project be completed using contract resources. Support requirements should be identified and included in specific contracts.

8. This clearance plan was created by Mr. John J. Glover, HQ AFRC/CEXP, DSN 497-1088, e-mail address: [john.glover@afrc.af.mil](mailto:john.glover@afrc.af.mil).

JOHN J. GLOVER, GS 11  
Explosive Ordnance Disposal Program Manager

ATTACHMENT 3  
Consultative Letter  
Final Radiation Status Survey

---



30 OCT 97

MEMORANDUM FOR OL Q, AFBCA  
15471 HANGAR RD  
KANSAS CITY MO 64147-1220

FROM: Det 1, HSC/OEBZ  
2402 E Drive  
Brooks AFB TX 78235-5114

SUBJECT: Consultative Letter, AL/OE-CL-1997-0197, Final Status Survey of Weapon Storage and Maintenance Areas, Richards-Gebaur Memorial Airport MO

1. Introduction:

a. Purpose: A final status survey of the former Weapon Storage Area (WSA) and associated maintenance buildings was accomplished by the former Armstrong Laboratory, Health Physics Branch now (Detachment 1, HSC/OEBZ) on 4-8 Aug 97. The purpose of the survey was to perform a final assessment of the radiological conditions within areas having the greatest likelihood for potential contamination, based on site history and professional judgment. At the completion of this survey, the facility will be cleared for unrestricted public use.

b. Background: Richards-Gebaur AFB had a history of storing weapons and munitions containing radioactive materials. The primary radioisotope of concern is Depleted Uranium (DU) used in munitions, although other isotopes could have been stored here. It is highly unlikely that an incident of sufficient magnitude to release radioactive material could have occurred without being detected. The objective of this survey was to determine if contamination from DU and possibly other radionuclides exists at a level above Nuclear Regulatory Commission (NRC) facility release limits.

c. Scope: The activities performed for this evaluation included: the assessment of the total and removable contamination on wall and floor locations within each building that has a history of radioactive materials storage or use. Drains and ceiling beams were also sampled in building 1202.

(1) Total alpha/beta/gamma contamination levels were assessed utilizing a variety of radiation detection equipment. Background levels were measured to determine the magnitude of naturally occurring radioactivity. These measurements were taken in an area where the likelihood of contamination was considered remote.

(2) Removable alpha/beta/gamma contamination were determined by swiping wall and floor locations with Whatman-1 filter paper. Each swipe was taken over an area of 100 cm<sup>2</sup>. These samples were analyzed by the former Armstrong Laboratory, Radioanalytical Branch now (Detachment 1, HSC/OEBA).

2. Survey Personnel and Site Contacts: A list of survey personnel and site contacts is enclosed at Attachment 1.



3. **Equipment Used and Radioanalytical Measurement Techniques:** Brief discussions of equipment use and radioanalytical measurement techniques are enclosed at Attachment 2.

4. **Survey Protocols:** A description of survey protocols is enclosed at Attachment 3.

5. **Parameters:** A discussion of the relevant radiological parameters is enclosed at Attachment 4.

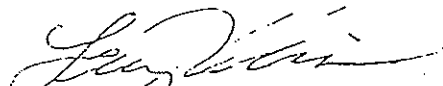
6. **Findings and Discussion:**

a. **Instrument Monitoring:** All total alpha/beta/gamma contamination levels assessed with the equipment listed in Attachment 2 showed levels near or below the background levels measured in the administrative area of building 1202. All results, after subtracting background measurements, were well below the NRC guidelines listed in Attachment 4. A table is included at Attachment 5 showing the various measurements comparable to background. Building diagrams are included at Attachment 6 showing monitoring locations.

b. **Swipe Samples:** All removable alpha/beta/gamma contamination levels assessed by swipe sampling revealed no areas to have contamination significantly above the Minimum Detectable Activities (MDA's) of the analytical equipment and measurement techniques as listed in Attachment 2. All levels were well below the NRC guidelines listed in Attachment 4. Specific results are also included in Attachment 5.

7. **Conclusions and Recommendations:** Based on the results of sampling taken during this final status survey, no radioactive contamination was found to exist. All facilities surveyed can be considered free for unrestricted public use.

8. Please contact SSgt Favret, DSN 240-3486, if you have any questions regarding this consultation. We need your comments to improve our services to the field. Please complete and return the enclosed critique at Attachment 7.

  
LARRY T. KIMM, Maj, USAF, BSC  
Chief, Bioenvironmental Engineering  
Division

**Attachments:**

1. Survey Personnel and Site Contacts
2. Equipment Used and Radioanalytical Measurement Techniques
3. Survey Protocols
4. Radiological Parameters
5. Survey Results
6. Building Diagrams
7. Critique

cc:

HQ AFMOA/SGOE wo Atchs

HQ AFBCA wo Atchs

## SURVEY PERSONNEL AND SITE CONTACTS

### Survey Personnel:

TSgt Roddray Walker, Health Physics Technician, Det 1, HSC/OEBZ  
SSgt Derek Favret, Health Physics Technician, Det 1, HSC/OEBZ  
Robert Cole, Instrument Calibration Technician, Det 1, HSC/OEBD-ICF

### Personnel Contacted:

Robert Lodato, OL Q, AFBCA  
Bob Zuiss, OL Q, AFBCA  
Garey Reeves, OL Q, AFBCA

## EQUIPMENT USED AND RADIOANALYTICAL MEASUREMENT TECHNIQUES

### Equipment Used:

1. Ludlum Model 2224 Meter with Model 43-89 Scintillation Detector: hand-held static floor and wall monitor used in a one-minute counting mode to measure total (fixed plus removable) alpha and beta contamination.
2. Victoreen 450P Exposure Rate Meter: hand-held monitor used in a continuous reading mode to measure gamma radiation exposure fields.
3. Field Instrument for Detection of Low Energy Radiation (FIDLER): static monitor used in a one-minute counting mode to measure total gamma contamination on floors.
4. Ludlum 237-1 Floor Monitor: Mounted detector for measurement of alpha and beta contamination on floors. Monitor is used to measure contamination over 100% of exposed floor surfaces.

### Radioanalytical Measurement Techniques:

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Alpha/Beta Swipe Samples: The filter papers are counted by a Gamma Products Model G5000 thin window gas proportional counter for 10 minutes. Raw data are then analyzed by G5000 software and reported in appropriate units. Minimum Detectable Activities (MDA's) for gross alpha/beta swipe sampling are 2 pCi/swipe.

Gamma Swipe Samples: Swipes are counted on the high efficiency, low background Bicron Sodium Iodide (NaI) detector array for 20 minutes. This is simply a screening device and MDA's are 50 pCi/swipe.

## SURVEY PROTOCOLS

### Survey Protocols:

1. Room Descriptions: Building diagrams were made to plot sampling locations. Measurement readings were recorded in a survey notebook and the swipes were placed in appropriately marked envelopes (AF Form 495). Upon return to Brooks AFB, the swipes were logged into the Det 1, HSC/OEBZ sample control logbook. This provides a mechanism by which we can track samples in Det 1, HSC/OEBA.
2. Background Measurements: Prior to conducting the survey, ambient background radiation levels were determined for all equipment used. Specifically, six background measurements were taken in the administrative area of building 1202 and outside of 1202. Furthermore, instrument source checks, using a thorium mantle, were performed in the same location to verify the instruments were operating correctly.
3. Total Contamination Measurements: A total of 203 measurement locations were chosen within buildings 1202, 1203, 1601, 1602, 1604 and 828. Specific locations were determined based on room size, historical information, and professional judgment. Within each building, the following measurements were taken: (a) total surface alpha and beta counts per minute (cpm/100 cm<sup>2</sup>) using the Ludlum Model 2224 with Model 43-89 Scintillation Detector at each floor and wall location; (b) a gamma exposure rate reading using the Victoreen 450P Exposure Rate Meter at each floor and wall location; (c) a qualitative gamma contamination reading (less than, greater than, or equal to ambient background levels) as measured by the Bicon Surveyor M Meter with PGM Probe while it was slowly moved over the immediate wall area; (d) a total surface gamma counts per minute using the FIDLER on floor areas. With the exception of Bicon measurements, all results are listed in Attachment 5 along with background measurements. Results are subtracted from background and then compared to action levels discussed in Attachment 4.
4. Removable Contamination Measurements: Swipes were taken at each floor/wall measurement location for gross alpha/beta/gamma analysis. Two drains and ceiling locations were swiped in building 1202.

## RADIOLOGICAL PARAMETERS

### Parameters:

1. The most restrictive net total (fixed plus removable) alpha surface contamination limit specified in the United States Nuclear Regulatory Commission (USNRC) Regulatory Guide 1.86 is 100 dpm/100 cm<sup>2</sup> (or 45 pCi/100 cm<sup>2</sup>). A survey "action level" was determined based on this regulatory limit and the operating characteristics of the hand-held alpha contamination monitor. Specifically, 14 cpm/100 cm<sup>2</sup> was used for the Ludlum Model 2224 with Model 43-89 Scintillation Detector. Had any reading been greater than this action level, additional measurements would have been taken to further characterize the immediate area. The results of these measurements would have a significant impact on the design of the final decommissioning survey.
2. The net total (fixed plus removable) beta/gamma contamination limit specified in USNRC Regulatory Guide 1.86 is 5,000 dpm/100 cm<sup>2</sup> (or 2252 pCi/100 cm<sup>2</sup>). A survey action level of 375 cpm/100 cm<sup>2</sup> was determined based on this regulatory limit and the operating characteristics of the Ludlum Model 2224 with Model 43-89 Scintillation Detector. Note that only a qualitative determination was made for each beta/gamma measurement taken with the Bicon Surveyor M with PGM Probe. Had any reading been greater than this action level, additional measurements would have been taken to further characterize the immediate area. The results of these measurements would have a significant impact on the design of the final decommissioning survey.
3. The most restrictive removable alpha contamination limit specified in USNRC Regulatory Guide 1.86 is 20 dpm/100 cm<sup>2</sup> (or 9 pCi/100 cm<sup>2</sup>). The limit for removable beta/gamma is 1,000 dpm/100 cm<sup>2</sup> (or 450 pCi/100 cm<sup>2</sup>).

Building: 1202

Date: 5-Sep-97

Total (fixed + removable) Contamination (counts/min unless noted)					Removable Contamination		
Sample #	Ludlum 2224 w/ 43-89 probe		Vict 450P	FIDLER	Swipes (pCi/swipe)		
	$\alpha$	$\beta$	$\mu\text{R/hr}$		$\alpha$	$\beta$	$\gamma$
1	3	252	12	8600	2	2	50
2	1	231	12	7580	2	2	50
3	3	216	11	7400	2	2	50
4	3	236	10	7350	2	2	50
5	2	231	11	8020	2	2	50
6	1	235	12	7540	2	2	50
7	1	244	10	7630	2	2	50
8	1	261	11	7340	2	2	50
9	1	245	10	7880	2	2	50
10	0	226	11	7590	2	2	50
11	1	217	10	7480	2	2	50
12	1	231	10	7000	2	2	50
13	2	227	10	8250	2	2	50
14	1	224	11	7880	2	2	50
15	0	222	10	7490	2	2	50
16	1	233	10	7230	2	2	50
17	1	184	12	8700	2	2	50
18	1	199	14	9570	2	2	50
19	0	186	13	9310	2	2	50
20	1	175	14	9430	2	2	50
21	4	257	14	-	2	2	50
22	2	263	12	-	2	2	50
23	1	247	11	-	2	2	50
24	1	247	14	-	2	2	50
25	1	182	11	-	2	2	50
26	3	228	10	-	2	2	50
27	1	198	13	-	2	2	50
28	0	278	14	-	2	2	50
29	0	290	15	-	2	2	50
30	1	297	13	-	2	2	50
D1	-	-	-	-	2	2	50
D2	-	-	-	-	2	2	50
S1	-	-	-	-	2	2	50
S2	-	-	-	-	2	2	50
<b>Background</b>							
Inside:	0	169	15	9280	n/a	n/a	n/a
	2	174	14	9440	n/a	n/a	n/a
Outside:	0	169	16	9640	n/a	n/a	n/a
	0	191	13	9580	n/a	n/a	n/a
	1	202	14	9480	n/a	n/a	n/a
	1	201	12	9350	n/a	n/a	n/a
	17	293	7	6510	n/a	n/a	n/a
	18	254	7	6590	n/a	n/a	n/a
	19	260	8	6570	n/a	n/a	n/a
	16	249	6	6480	n/a	n/a	n/a
	18	233	7	6490	n/a	n/a	n/a
	21	234	6	6580	n/a	n/a	n/a

Total (fixed + removable) Contamination (counts/min unless noted)					Removable Contamination		
Sample #	Ludlum 2224 w/ 43-89 probe		Vict 450P	FIDLER	Swipes (pCi/swipe)		
	$\alpha$	$\beta$	$\mu$ R/hr		$\alpha$	$\beta$	$\gamma$
1	0	271	10	7530	2	2	50
2	0	235	12	-	2	2	50
3	2	259	11	7560	2	2	50
4	0	247	10	-	2	2	50
5	1	242	12	7430	2	2	50
6	3	252	11	-	2	2	50
7	1	269	10	7710	2	2	50
8	1	201	11	-	2	2	50
9	2	250	11	7580	2	2	50
10	3	226	10	-	2	2	50
11	1	240	10	7850	2	2	50
12	3	204	10	-	2	2	50
13	1	244	12	7760	2	2	50
14	1	206	12	-	2	2	50
15	1	229	10	7630	2	2	50
16	2	205	10	-	2	2	50
17	4	254	10	7770	2	8.3	50
18	0	203	11	-	2	2	50
19	4	239	10	7980	2	2	50
20	4	214	12	-	2	2	50
21	5	248	11	8160	2	2	50
22	1	216	12	-	2	2	50
23	3	263	11	8130	2	2	50
24	2	215	11	-	2	2	50
25	4	244	11	8100	2	2	50
26	1	205	11	-	2	2	50
27	3	247	10	8020	2	2	50
28	5	203	13	-	2	2	50
29	7	225	10	8120	2	2	50
30	1	218	12	-	2	2	50
<b>Background</b>							
Inside:	0	169	15	9280	n/a	n/a	n/a
	2	174	14	9440	n/a	n/a	n/a
Outside:	0	169	16	9640	n/a	n/a	n/a
	0	191	13	9580	n/a	n/a	n/a
	1	202	14	9480	n/a	n/a	n/a
	1	201	12	9350	n/a	n/a	n/a
	17	293	7	6510	n/a	n/a	n/a
	18	254	7	6590	n/a	n/a	n/a
	19	260	8	6570	n/a	n/a	n/a
	16	249	6	6480	n/a	n/a	n/a
	18	233	7	6490	n/a	n/a	n/a
	21	234	6	6580	n/a	n/a	n/a

Building: 1203

Date: 5-Sep-97

Total (fixed + removable) Contamination (counts/min unless noted)					Removable Contamination		
Sample #	Ludlum 2224 w/ 43-89 probe		Vict 450P	FIDLER	Swipes (pCi/swipe)		
	$\alpha$	$\beta$	$\mu\text{R/hr}$		$\alpha$	$\beta$	$\gamma$
31	1	240	10	7760	2	2	50
32	6	205	11	-	2	2	50
33	2	229	11	7920	2	2	50
34	2	214	10	-	2	2	50
35	1	285	10	7960	2	2	50
36	1	254	12	-	2	2	50
37	0	240	12	8070	2	2	50
38	2	233	10	-	2	2	50
39	2	280	10	7900	2	2	50
40	0	220	12	-	2	2	50
41	1	265	12	7770	2	2	50
42	1	247	11	-	2	2	50
43	1	252	11	7700	2	2	50
44	1	231	10	-	2	2	50
45	1	260	10	7680	2	2	50
46	1	234	11	-	2	2	50
47	4	262	11	7740	2	2	50
48	1	226	12	-	2	2	50
49	7	248	10	7620	2	2	50
50	2	230	10	-	2	2	50
51	3	254	12	7520	2	2	50
52	0	253	11	-	2	2	50
53	2	211	9	7630	2	2	50
54	1	223	10	-	2	2	50
55	2	270	11	7700	2	2	50
56	2	213	12	-	2	2	50
57	2	254	12	7800	2.4	2.2	50
58	2	216	11	-	2	2	50
59	3	249	11	7880	2	2	50
60	1	215	12	-	2	2	50
<b>Background</b>							
Inside:	0	169	15	9280	n/a	n/a	n/a
	2	174	14	9440	n/a	n/a	n/a
	0	169	16	9640	n/a	n/a	n/a
	0	191	13	9580	n/a	n/a	n/a
	1	202	14	9480	n/a	n/a	n/a
	1	201	12	9350	n/a	n/a	n/a
Outside:	17	293	7	6510	n/a	n/a	n/a
	18	254	7	6590	n/a	n/a	n/a
	19	260	8	6570	n/a	n/a	n/a
	16	249	6	6480	n/a	n/a	n/a
	18	233	7	6490	n/a	n/a	n/a
	21	234	6	6580	n/a	n/a	n/a



Total (fixed + removable) Contamination (counts/min unless noted)					Removable Contamination		
Sample #	Ludlum 2224 w/ 43-89 probe		Vict 450P	FIDLER	Swipes (pCi/swipe)		
	$\alpha$	$\beta$	$\mu$ R/hr		$\alpha$	$\beta$	$\gamma$
1	7	238	11	8410	2	2	50
2	1	300	14	9430	2	2	50
3	5	249	13	8970	2	2	50
4	5	276	14	9030	2	2	50
5	5	274	11	9570	2	2	50
6	1	283	12	9270	2	2	50
7	4	255	13	9490	2	2	50
8	9	303	14	9670	2	2	50
9	6	269	14	9190	2	2	50
10	4	278	12	9500	2	2	50
11	5	284	13	9370	2	2	50
12	2	307	12	9270	2	2	50
13	2	267	12	9650	2	2	50
14	4	252	13	9030	2	2	50
15	5	271	14	9420	2	2	50
16	3	255	14	9690	2	2	50
17	4	232	12	-	2	2	50
18	5	247	13	-	2	2	50
19	1	230	14	-	2	2	50
20	1	231	13	-	2	2	50
21	5	269	12	-	2	2	50
22	5	250	13	-	2	2	50
23	3	230	13	-	2	2	50
24	7	215	13	-	2	2	50
25	1	240	14	-	2	2	50
26	1	237	12	-	2	2	50
27	2	234	12	-	2	2	50
28	3	254	13	-	2	2	50
29	5	238	12	-	2	2	50
30	4	237	11	-	2	2	50
<b>Background</b>							
Inside:	0	169	15	9280	n/a	n/a	n/a
	2	174	14	9440	n/a	n/a	n/a
	0	169	16	9640	n/a	n/a	n/a
	0	191	13	9580	n/a	n/a	n/a
	1	202	14	9480	n/a	n/a	n/a
Outside:	1	201	12	9350	n/a	n/a	n/a
	17	293	7	6510	n/a	n/a	n/a
	18	254	7	6590	n/a	n/a	n/a
	19	260	8	6570	n/a	n/a	n/a
	16	249	6	6480	n/a	n/a	n/a
	18	233	7	6490	n/a	n/a	n/a
	21	234	6	6580	n/a	n/a	n/a

## Richards-Gebaur Decommissioning Survey

Building: 1602

Date: 6-Sep-97

Total (fixed + removable) Contamination (counts/min unless noted)					Removable Contamination		
Sample #	Ludlum 2224 w/ 43-89 probe		Vict 450P	FIDLER	Swipes (pCi/swipe)		
	$\alpha$	$\beta$	$\mu\text{R/hr}$		$\alpha$	$\beta$	$\gamma$
1	5	246	12	8060	2	2	50
2	1	294	12	9080	2	2	50
3	6	253	11	8650	2	2	50
4	0	278	12	9070	2	2	50
5	1	274	11	9180	2	2	50
6	3	271	13	8840	2	2	50
7	4	259	13	9340	2	2	50
8	3	272	12	9230	2	2	50
9	0	285	12	9090	2	2	50
10	1	291	14	9290	2	2	50
11	5	250	12	9300	2	2	50
12	2	265	13	8900	2	2	50
13	3	283	13	9380	2	2	50
14	3	288	12	9200	2	2	50
15	5	278	12	9340	2	2	50
16	4	252	13	9250	2	2	50
17	0	263	12	-	2	2	50
18	1	241	14	-	2	2	50
19	4	236	12	-	2	2	50
20	1	243	13	-	2	2	50
21	4	215	13	-	2	2.1	50
22	3	240	12	-	2.4	6.5	50
23	5	247	12	-	2	2	50
24	2	243	12	-	2	2	50
25	1	223	13	-	2	2	50
26	2	244	13	-	2	2	50
27	1	246	13	-	2	2	50
28	2	253	13	-	2	2	50
29	5	237	11	-	2	2	50
30	4	225	11	-	2	2	50
<b>Background</b>							
Inside:	0	169	15	9280	n/a	n/a	n/a
	2	174	14	9440	n/a	n/a	n/a
	0	169	16	9640	n/a	n/a	n/a
	0	191	13	9580	n/a	n/a	n/a
	1	202	14	9480	n/a	n/a	n/a
	1	201	12	9350	n/a	n/a	n/a
Outside:	17	293	7	6510	n/a	n/a	n/a
	18	254	7	6590	n/a	n/a	n/a
	19	260	8	6570	n/a	n/a	n/a
	16	249	6	6480	n/a	n/a	n/a
	18	233	7	6490	n/a	n/a	n/a
	21	234	6	6580	n/a	n/a	n/a

Total (fixed + removable) Contamination (counts/min unless noted)					Removable Contamination		
Sample #	Ludlum 2224 w/ 43-89 probe		Vict 450P μR/hr	FIDLER	Swipes (pCi/swipe)		
	α	β			α	β	γ
1	Unable to survey this room						
2	Unable to survey this room						
3	6	214	10	6300	2	2	50
4	2	226	8	-	2	2	50
5	1	204	10	6780	2	2	50
6	2	202	11	-	2	2	50
7	4	204	9	6640	2	2	50
8	2	221	11	-	2	2	50
9	3	230	9	6310	2	2	50
10	3	212	11	-	2	2	50
11	5	237	11	5810	2	2	50
12	3	240	9	-	2	2	50
13	2	232	11	6550	2	2	50
14	8	217	10	-	2	2	50
15	4	234	11	6580	2	2	50
16	2	227	9	-	2	2	50
<b>Background</b>							
Inside:	0	169	15	9280	n/a	n/a	n/a
	2	174	14	9440	n/a	n/a	n/a
	0	169	16	9640	n/a	n/a	n/a
	0	191	13	9580	n/a	n/a	n/a
	1	202	14	9480	n/a	n/a	n/a
	1	201	12	9350	n/a	n/a	n/a
Outside:	17	293	7	6510	n/a	n/a	n/a
	18	254	7	6590	n/a	n/a	n/a
	19	260	8	6570	n/a	n/a	n/a
	16	249	6	6480	n/a	n/a	n/a
	18	233	7	6490	n/a	n/a	n/a
	21	234	6	6580	n/a	n/a	n/a

Building: 828

Date: 7-Sep-97

Total (fixed + removable) Contamination (counts/min unless noted)					Removable Contamination		
Sample #	Ludlum 2224 w/ 43-89 probe		Vict 450P	FIDLER	Swipes (pCi/swipe)		
	$\alpha$	$\beta$	$\mu\text{R/hr}$		$\alpha$	$\beta$	$\gamma$
1	4	255	12	7950	2	2	50
1A	3	269	11	8330	-	-	-
2	4	279	10	7940	2	2	50
3	1	271	11	7910	2	2	50
4	3	256	12	7820	2	2	50
5	2	277	11	7700	2	2	50
6	5	232	11	-	2	2	50
7	2	258	10	7290	2	2	50
8	7	260	11	8120	2	2	50
9	1	249	11	8180	2	2	50
10	1	226	11	7580	2	2	50
11	2	248	13	7850	2	2	50
12	1	234	12	-	2	2	50
13	1	267	12	7990	2	2	50
13A	1	271	12	7900	-	-	-
14	4	268	13	8270	2	2	50
14A	2	258	10	8150	-	-	-
15	6	219	10	-	2	2	50
16	3	259	10	8030	2	2	50
17	7	270	11	7840	2	2	50
18	4	259	10	7610	2	2	50
19	1	257	10	8010	2	2	50
19A	7	240	10	7420	-	-	-
20	1	223	11	7950	2	2	50
21	1	274	11	7310	2	2	50
21A	3	264	13	7250	-	-	-
22	4	257	10	7840	2	2	50
23	3	235	13	-	2	2	50
24	5	194	10	8470	2	2	50
25	2	159	11	8380	2	2	50
26	3	297	13	8820	2	2	50
27	1	154	10	7920	2	2	50
28	5	160	12	8310	2	2	50
29	6	263	11	8200	2	2	50
30	5	279	10	8280	2	2	50
<b>Background</b>							
Inside:	0	169	15	9280	n/a	n/a	n/a
	2	174	14	9440	n/a	n/a	n/a
	0	169	16	9640	n/a	n/a	n/a
	0	191	13	9580	n/a	n/a	n/a
	1	202	14	9480	n/a	n/a	n/a
	1	201	12	9350	n/a	n/a	n/a
Outside:	17	293	7	6510	n/a	n/a	n/a
	18	254	7	6590	n/a	n/a	n/a
	19	260	8	6570	n/a	n/a	n/a
	16	249	6	6480	n/a	n/a	n/a
	18	233	7	6490	n/a	n/a	n/a
	21	234	6	6580	n/a	n/a	n/a

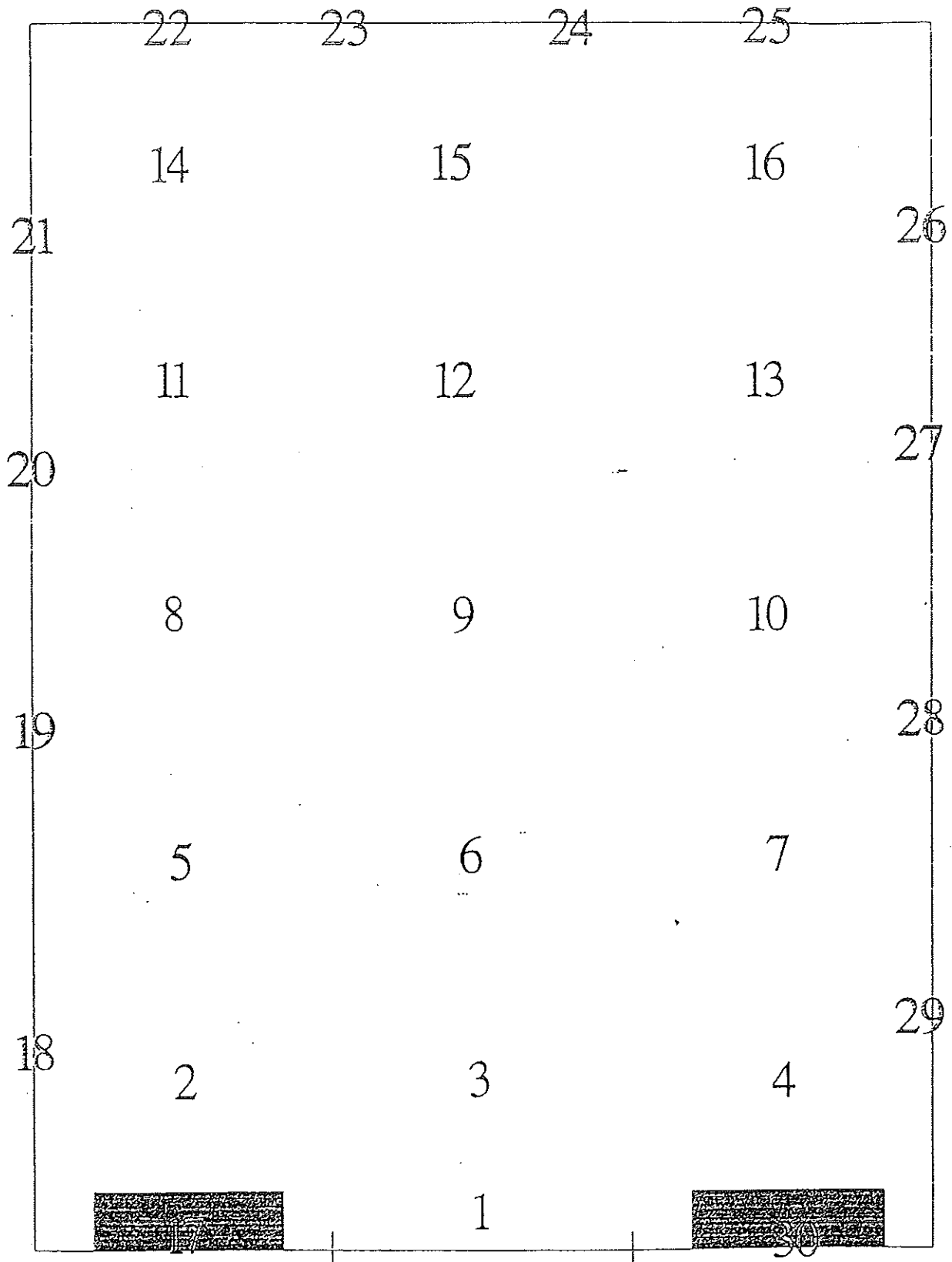


Richardus-Gebäude Decommissioning Survey  
Bldg 1203

			30	29	15
16	31	32	28	27	14
17	33	34	26	25	13
18	35	36	24	23	12
19	37	38	22	21	11
20	39	40	20	19	10
21	41	42	18	17	9
22	43	44	16	15	8
23	45	46	14	13	7
24	47	48	12	11	6
25	49	50	10	9	5
26	51	52	8	7	4
27	53	54	6	5	3
28	55	56	4	3	2
29	57	58	2	1	1
30	59	60			

Key: 1 = Floor Sample Location    30 = Wall Sample Location

### Bldg 1601 & 1602



Key: 1 = Floor Sample Location    30 = Wall Sample Location

Richards-Gebaur Decommissioning Survey  
Bldg 1604

16	15	8
14	13	7
12	11	6
10	9	5
8	7	4
6	5	3
4	3	2
Not Surveyed		1

Key: 1 = Floor Sample Location    30 = Wall Sample Location





POC Phone: DSN 240-3486

OEHD Numbers: AL/OE-CL-1997-0197

Division: OEB

### CUSTOMER SERVICE SATISFACTION SURVEY

This survey is used to help us improve our service to you. Your answer will be held in confidence and will significantly impact on how we allocate resources to meet your needs. Please return this completed form promptly.

LIC F C Davis, Chief, Quality Mgt

Grading Scale:

1	2	3	4	5	6
Extremely Dissatisfied	Dissatisfied	Slightly Dissatisfied	Slightly Satisfied	Satisfied	Extremely Satisfied

		1	2	3	4	5	6
A	Timeliness: Did you receive your results within the published time limits?	1	2	3	4	5	6
B	Accuracy: Is the report in the proper format? Is your address and other data correct?	1	2	3	4	5	6
C	Content: Does the report answer your questions and provide the necessary data? Are our services per dollar adequate when compared to civilian sector?	1	2	3	4	5	6
D	Customer Support: Have we been courteous and helpful in meeting your special needs (priority service, reporting format, etc.)?	1	2	3	4	5	6
E	Consult Service: Have we answered your questions and provided necessary materials or reviews to support your mission requirements?	1	2	3	4	5	6
F	Overall Rating: How would you rate our overall service to you?	1	2	3	4	5	6

Comments / Suggestions: Are there other services that you would like provided in the future? Are there any specifics of your current service you would like to discuss? (Use back of page if more space is required)

(fold)

OFFICIAL BUSINESS

Return to:

DET 1, HSC/OEPQ  
2402 E Drive  
Brooks AFB, TX 78235-5114

8257

ATTACHMENT 4  
Visual Site Inspections

ENVIRONMENTAL BASELINE SURVEY  
Visual Site Inspection (VSI)

Facility # 1100, 1101 Name/Current Use: Mobile Radio  
Transceiver/Vacant

Past Use: ( Same as above) \_\_\_\_\_

Location/Topography: South of Markey Rd/surrounded by grassy fields

Year of Construction: 1953 Major Renovations: None

Does/Did Facility use Hazardous Materials:  Yes  No Types: \_\_\_\_\_

Does/Did Facility store Hazardous Materials:  Yes  No Types: \_\_\_\_\_

Does/Did Facility generate Hazardous Waste:  Yes  No Types: \_\_\_\_\_

Does/Did Facility store Hazardous Waste:  Yes  No If Yes  Accumulation point # \_\_\_\_\_

Satellite Point \_\_\_\_\_

Other \_\_\_\_\_

Years of Storage: NA

Disposal practices: NA

"Housekeeping" in and around building is  Good  Poor

If poor: \_\_\_\_\_

Effluent/discharged waste destination:  Sanitary Sewer  Industrial Sewer

Septic Tank  Storm Drain

Other: \_\_\_\_\_

Conditions not mentioned that present concerns: None

Interviews: None

## BUILDING INSPECTION CHECKLIST

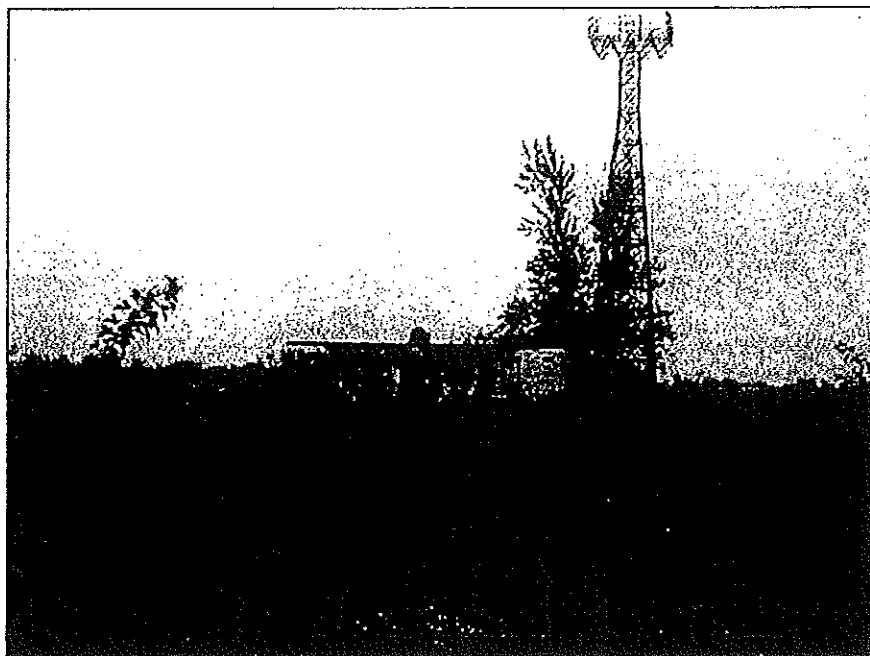
Are there any signs of the following on the property (Y-Yes N-No Unk-Unknown)

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A) <u>YES</u> UST</p> <p>B) <u>YES</u> AST</p> <p>C) <u>NO</u> Oil/Water Separator</p> <p>D) <u>NO</u> IRP Site</p> <p>E) <u>NO</u> Waste Piles/Evidence of improper disposal<br/><input type="checkbox"/> Minor <input type="checkbox"/> AOC</p> <p>F) <u>YES</u> Transformers<br/>PCBs Unknown <input type="checkbox"/> PCB Free Label <input checked="" type="checkbox"/></p> <p>G) <u>YES</u> Floor Drains discharge to:<br/><u>decommissioned septic tank</u></p> <p>H) <u>NO</u> Evidence of Spills/Staining<br/><input type="checkbox"/> Minor <input type="checkbox"/> AOC</p> | <p>I) <u>NO</u> Discolored Soil/Stressed Vegetation<br/><input type="checkbox"/> Minor <input type="checkbox"/> AOC</p> <p>J) <u>NO</u> Noxious Odors</p> <p>K) <u>NO</u> Radioactive and Mixed Waste</p> <p>L) <u>NO</u> Fill Areas/Buried Objects</p> <p>M) <u>NO</u> Drums/Drum Storage</p> <p>N) <u>NO</u> Surface Water<br/>w/in _____ ft. to _____</p> <p>O) <u>NO</u> Sensitive Receptors<br/>w/in _____ ft. to _____</p> <p>P) _____ Other: _____</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

COMMENTS/OBSERVATIONS: The two former underground storage tanks (USTs) and associated contaminated soil have been removed and have been issued a final closure letter from the Missouri Department of Natural Resources. The above ground storage tank (AST) and associated piping have been removed, and the septic tank has been closed in place by backfilling with clean soil. Samples were collected from the soil along the AST piping and the from the contents of the septic tank during closure of the UST. No contamination was detected in the samples. Asbestos-containing material remains in the building fan room and bathroom, and floor tiles in the main room. Lead-based paint is suspected. An electrical generator remains in the building (EMU-10 serial number 67-1311). Transformers remain on an exterior pad and have PCB-free labels. Facility 1101, Support Structure Antenna, remains on site and appears to be in sound condition. The perimeter fencing and gate are in good condition.

Inspector's Name: Robert Zuiss Signature: Robert Zuiss Date: 9/19/02

VSI Photographic Log  
Parcel K  
September 19, 2002



Photograph 1. Mobile Radio Transceiver (Facility 1100) and  
Support Structure Antenna (Facility 1101)



Photograph 2. Electrical generator EMU-10, serial number 67-1311, remains inside Facility  
1100

ENVIRONMENTAL BASELINE SURVEY  
Visual Site Inspection (VSI)

Facility # 1201 Name/Current Use: Weapons Systems Maintenance Management Facility/Vacant

Past Use: ( Same as above)

Location/Topography: South of Markey Rd/surrounded by grassy fields

Year of Construction: 1961 Major Renovations: None

Does/Did Facility use Hazardous Materials:  Yes  No Types:

Does/Did Facility store Hazardous Materials:  Yes  No Types:

Does/Did Facility generate Hazardous Waste:  Yes  No Types:

Does/Did Facility store Hazardous Waste:  Yes  No If Yes  Accumulation point #  
 Satellite Point  
 Other

Years of Storage: NA

Disposal practices: NA

"Housekeeping" in and around building is  Good  Poor

If poor:

Effluent/discharged waste destination:  Sanitary Sewer  Industrial Sewer  
 Septic Tank  Storm Drain

Other: NA

Conditions not mentioned that present concerns: None

Interviews: None

BUILDING INSPECTION CHECKLIST

Are there any signs of the following on the property (Y-Yes N-No Unk-Unknown)

- A) YES UST
- B) NO AST
- C) NO Oil/Water Separator  Minor  AOC
- D) NO IRP Site
- E) NO Waste Piles/Evidence of improper disposal  Minor  AOC
- F) YES Transformers  
PCBs Unknown  PCB Free Label
- G) YES Floor Drains discharge to: Sanitary sewer
- H) NO Evidence of Spills/Staining  Minor  AOC
- I) NO Discolored Soil/Stressed Vegetation  Minor  AOC
- J) NO Noxious Odors
- K) NO Radioactive and Mixed Waste
- L) NO Fill Areas/Buried Objects
- M) NO Drums/Drum Storage
- N) NO Surface Water w/in \_\_\_\_\_ ft. to \_\_\_\_\_
- O) NO Sensitive Receptors w/in \_\_\_\_\_ ft. to \_\_\_\_\_
- P) \_\_\_\_\_ Other: \_\_\_\_\_

COMMENTS/OBSERVATIONS: The underground storage tank and associated contaminated soil have been removed and a final closure letter has been issued by the Missouri Department of Natural Resources. Asbestos-containing material floor tile mastic remains in the office area. The doorway to the utility room has been secured with plywood. Lead-based paint is suspected.

Inspector's Name: Robert Zuiss

Signature: Robert Zuiss

Date: 9/19/02



ENVIRONMENTAL BASELINE SURVEY  
Visual Site Inspection (VSI)

Facility # 1202

Name/Current Use: Missile Assembly and  
Training/Vacant

Past Use: ( Same as above)

Formerly used as a weapons maintenance and assembly shop.  
Vacant since approximately 1994.

Location/Topography: South of Markey Rd. Belton, MO/Flat, surrounded by grassy fields

Year of Construction: 1961

Major Renovations: None

Does/Did Facility use Hazardous Materials:  Yes  No

Types: Paints, solvents,  
lubricants, brake fluid,  
adhesives

Does/Did Facility store Hazardous Materials:  Yes  No

Types: Paints, solvents,  
lubricants, brake fluid,  
adhesives

Does/Did Facility generate Hazardous Waste:  Yes  No

Types: Brake fluid

Does/Did Facility store Hazardous Waste:  Yes  No

If Yes  Accumulation point #UNK

Satellite Point

Other

Years of Storage: Unknown

Disposal practices: Unknown

"Housekeeping" in and around building is  Good  Poor

If poor: NA

Effluent/discharged waste destination:  Sanitary Sewer  Industrial Sewer

Septic Tank  Storm Drain

Other: NA

Conditions not mentioned that present concerns: None

Interviews: None

## BUILDING INSPECTION CHECKLIST

Are there any signs of the following on the property (Y-Yes N-No Unk-Unknown)

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A) <u>YES</u> UST</p> <p>B) <u>NO</u> AST</p> <p>C) <u>NO</u> Oil/Water Separator</p> <p>D) <u>NO</u> IRP Site</p> <p>E) <u>NO</u> Waste Piles/Evidence of improper disposal<br/><input type="checkbox"/> Minor <input type="checkbox"/> AOC</p> <p>F) <u>YES</u> Transformers<br/>PCBs Unknown <input type="checkbox"/> PCB Free Label <input checked="" type="checkbox"/></p> <p>G) <u>YES</u> Floor Drains discharge to:<br/><u>Sanitary sewer</u></p> <p>H) <u>NO</u> Evidence of Spills/Staining<br/><input type="checkbox"/> Minor <input type="checkbox"/> AOC</p> | <p>I) <u>NO</u> Discolored Soil/Stressed Vegetation<br/><input type="checkbox"/> Minor <input type="checkbox"/> AOC</p> <p>J) <u>NO</u> Noxious Odors</p> <p>K) <u>NO</u> Radioactive and Mixed Waste</p> <p>L) <u>NO</u> Fill Areas/Buried Objects</p> <p>M) <u>NO</u> Drums/Drum Storage</p> <p>N) <u>NO</u> Surface Water<br/>w/in _____ ft. to _____</p> <p>O) <u>NO</u> Sensitive Receptors<br/>w/in _____ ft. to _____</p> <p>P) _____ Other: _____</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

COMMENTS/OBSERVATIONS: The former underground storage tank and associated contaminated soil have been removed and a final closure letter has been issued by the Missouri Department of Natural Resources. Asbestos-containing materials remain in floor tile and mastic in the office, locker room, administration, and storage areas. The flooring appeared in good condition. Lead-based paint is suspected.

Inspector's Name: Robert Zuiss Signature: Robert Zuiss Date: 9/19/02

ENVIRONMENTAL BASELINE SURVEY  
Visual Site Inspection (VSI)

Facility # 1203 Name/Current Use: Storage Magazine  
Aboveground/Vacant

Past Use: ( Same as above) Formerly used for munitions storage. Vacant since  
approximately 1994.

Location/Topography: South of Markey Rd/Flat, surrounded by grassy fields

Year of Construction: 1961 Major Renovations: None

Does/Did Facility use Hazardous Materials:  Yes  No Types:  
Does/Did Facility store Hazardous Materials:  Yes  No Types: Munitions  
Does/Did Facility generate Hazardous Waste:  Yes  No Types:  
Does/Did Facility store Hazardous Waste:  Yes  No If Yes  Accumulation point #  
 Satellite Point \_\_\_\_\_  
 Other \_\_\_\_\_

Years of Storage: Unknown

Disposal practices: Unknown

"Housekeeping" in and around building is  Good  Poor

If poor: NA

Effluent/discharged waste destination:  Sanitary Sewer  Industrial Sewer  
 Septic Tank  Storm Drain

Other: \_\_\_\_\_

Conditions not mentioned that present concerns: None

Interviews: None

BUILDING INSPECTION CHECKLIST

Are there any signs of the following on the property (Y-Yes N-No Unk-Unknown)

- A) NO UST
- B) NO AST
- C) NO Oil/Water Separator
- D) NO IRP Site
- E) NO Waste Piles/Evidence of improper disposal  
 Minor  AOC
- F) NO Transformers  
PCBs Unknown  PCB Free Label
- G) NO Floor Drains discharge to:
- H) NO Evidence of Spills/Staining  
 Minor  AOC
- I) NO Discolored Soil/Stressed Vegetation  
 Minor  AOC
- J) NO Noxious Odors
- K) NO Radioactive and Mixed Waste
- L) NO Fill Areas/Buried Objects
- M) NO Drums/Drum Storage
- N) NO Surface Water  
w/in \_\_\_\_ ft. to \_\_\_\_
- O) NO Sensitive Receptors  
w/in \_\_\_\_ ft. to \_\_\_\_
- P) \_\_\_\_\_ Other: \_\_\_\_\_

COMMENTS/OBSERVATIONS: Lead-based paint is suspected. Paint is peeling on the south side exterior wall.

Inspector's Name: Robert Zuiss

Signature: Robert Zuiss

Date: 9/19/02

ENVIRONMENTAL BASELINE SURVEY  
Visual Site Inspection (VSI)

Facility # 1205 Name/Current Use: Base Hazardous Storage/Vacant  
Past Use: ( Same as above) Formerly used to store hazardous materials. Vacant since approximately 1994.  
Location/Topography: South of Markey Rd/Flat, surrounded by grassy fields  
Year of Construction: 1962 Major Renovations: None  
Does/Did Facility use Hazardous Materials:  Yes  No Types:  
Does/Did Facility store Hazardous Materials:  Yes  No Types: Unknown  
Does/Did Facility generate Hazardous Waste:  Yes  No Types:  
Does/Did Facility store Hazardous Waste:  Yes  No If Yes  Accumulation point #  
 Satellite Point \_\_\_\_\_  
 Other \_\_\_\_\_

Years of Storage: Unknown

Disposal practices: Unknown

"Housekeeping" in and around building is  Good  Poor

If poor: NA

Effluent/discharged waste destination:  Sanitary Sewer  Industrial Sewer  
 Septic Tank  Storm Drain

Other: \_\_\_\_\_

Conditions not mentioned that present concerns: None

Interviews: None

BUILDING INSPECTION CHECKLIST

Are there any signs of the following on the property (Y-Yes N-No Unk-Unknown)

- A) NO UST
- B) NO AST
- C) NO Oil/Water Separator
- D) NO IRP Site
- E) NO Waste Piles/Evidence of improper disposal  
 Minor  AOC
- F) NO Transformers  
PCBs Unknown  PCB Free Label
- G) NO Floor Drains discharge to:
- H) NO Evidence of Spills/Staining  
 Minor  AOC
- I) NO Discolored Soil/Stressed Vegetation  
 Minor  AOC
- J) NO Noxious Odors
- K) NO Radioactive and Mixed Waste
- L) NO Fill Areas/Buried Objects
- M) NO Drums/Drum Storage
- N) NO Surface Water  
w/in \_\_\_\_\_ ft. to \_\_\_\_\_
- O) NO Sensitive Receptors  
w/in \_\_\_\_\_ ft. to \_\_\_\_\_
- P) \_\_\_\_\_ Other: \_\_\_\_\_

COMMENTS/OBSERVATIONS: No issues were observed during this VSI.

Inspector's Name: Robert Zuiss Signature: Robert Zuiss Date: 9/19/02

ENVIRONMENTAL BASELINE SURVEY  
Visual Site Inspection (VSI)

Facility # 1206 Name/Current Use: Spares Inert Storage/Vacant asphalt pad

Past Use: ( Same as above) Asphalt pad east of Facility 1203 within fenced 1200 Area.

Location/Topography: South of Markey Rd. Belton, MO/Flat, surrounded by grassy fields

Year of Construction: 1991 Major Renovations: None

Does/Did Facility use Hazardous Materials:  Yes  No Types:

Does/Did Facility store Hazardous Materials:  Yes  No Types:

Does/Did Facility generate Hazardous Waste:  Yes  No Types:

Does/Did Facility store Hazardous Waste:  Yes  No If Yes  Accumulation point #  
 Satellite Point  
 Other

Years of Storage: Unknown

Disposal practices: Unknown

"Housekeeping" in and around building is  Good  Poor

If poor: NA

Effluent/discharged waste destination:  Sanitary Sewer  Industrial Sewer

Septic Tank  Storm Drain

Other: None

Conditions not mentioned that present concerns: None

Interviews: None

BUILDING INSPECTION CHECKLIST

Are there any signs of the following on the property (Y-Yes N-No Unk-Unknown)

- |                                                                               |                                                             |
|-------------------------------------------------------------------------------|-------------------------------------------------------------|
| A) <u>NO</u> UST                                                              | I) <u>NO</u> Discolored Soil/Stressed<br>Vegetation         |
| B) <u>NO</u> AST                                                              |                                                             |
| C) <u>NO</u> Oil/Water Separator                                              | <input type="checkbox"/> Minor <input type="checkbox"/> AOC |
| D) <u>NO</u> IRP Site                                                         | J) <u>NO</u> Noxious Odors                                  |
| E) <u>NO</u> Waste Piles/Evidence of<br>improper disposal                     | K) <u>NO</u> Radioactive and Mixed Waste                    |
| <input type="checkbox"/> Minor <input type="checkbox"/> AOC                   | L) <u>NO</u> Fill Areas/Buried Objects                      |
| F) <u>NO</u> Transformers                                                     | M) <u>NO</u> Drums/Drum Storage                             |
| PCBs Unknown <input type="checkbox"/> PCB Free Label <input type="checkbox"/> | N) <u>NO</u> Surface Water<br>w/in _____ ft. to             |
| G) <u>NO</u> Floor Drains discharge to:                                       | O) <u>NO</u> Sensitive Receptors<br>w/in _____ ft. to       |
| H) <u>NO</u> Evidence of Spills/Staining                                      | P) _____ Other:                                             |
| <input type="checkbox"/> Minor <input type="checkbox"/> AOC                   |                                                             |
- 

COMMENTS/OBSERVATIONS: Facility 1206 was identified in the Environmental Baseline Survey as a 6,000 square foot storage area, located east of Facility 1203. The Spares Inert Storage area was an asphalt pad located within the fenced 1200 Area. No issues were observed during this VSI.

Inspector's Name: Robert Zuiss Signature: Robert Zuiss Date: 9/19/02



ENVIRONMENTAL BASELINE SURVEY  
Visual Site Inspection (VSI)

Facility # 1207 Name/Current Use: Equipment Pad/Vacant unspecified pad

Past Use: ( Same as above) Unspecified asphalt pad within fenced 1200 Area.

Location/Topography: South of Markey Rd/Flat, surrounded by grassy fields

Year of Construction: 1991 Major Renovations: None

Does/Did Facility use Hazardous Materials:  Yes  No Types: \_\_\_\_\_

Does/Did Facility store Hazardous Materials:  Yes  No Types: \_\_\_\_\_

Does/Did Facility generate Hazardous Waste:  Yes  No Types: \_\_\_\_\_

Does/Did Facility store Hazardous Waste:  Yes  No If Yes  Accumulation point #  
 Satellite Point \_\_\_\_\_  
 Other \_\_\_\_\_

Years of Storage: Unknown

Disposal practices: Unknown

"Housekeeping" in and around building is  Good  Poor

If poor: NA

Effluent/discharged waste destination:  Sanitary Sewer  Industrial Sewer  
 Septic Tank  Storm Drain

Other: \_\_\_\_\_

Conditions not mentioned that present concerns: None

Interviews: None

BUILDING INSPECTION CHECKLIST

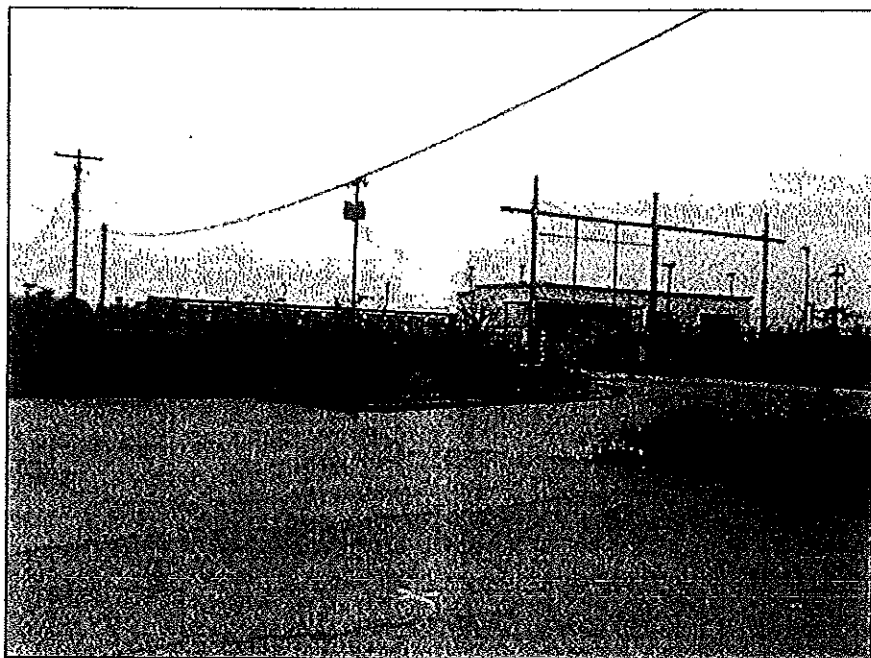
Are there any signs of the following on the property (Y-Yes N-No Unk-Unknown)

- A) NO UST
- B) NO AST
- C) NO Oil/Water Separator  Minor  AOC
- D) NO IRP Site
- E) NO Waste Piles/Evidence of improper disposal  Minor  AOC
- F) NO Transformers  
PCBs Unknown  PCB Free Label
- G) NO Floor Drains discharge to:
- H) NO Evidence of Spills/Staining  Minor  AOC
- I) NO Discolored Soil/Stressed Vegetation  Minor  AOC
- J) NO Noxious Odors
- K) NO Radioactive and Mixed Waste
- L) NO Fill Areas/Buried Objects
- M) NO Drums/Drum Storage
- N) NO Surface Water w/in \_\_\_\_ ft. to \_\_\_\_
- O) NO Sensitive Receptors w/in \_\_\_\_ ft. to \_\_\_\_
- P) \_\_\_\_ Other: \_\_\_\_

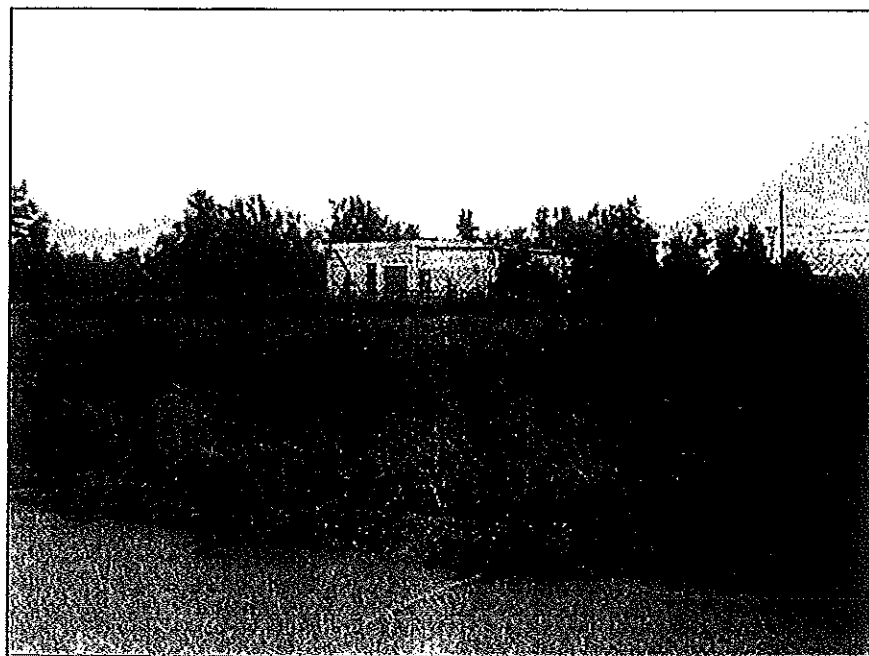
COMMENTS/OBSERVATIONS: Facility 1207 was identified in the EBS as a 7,074 square foot equipment pad. The equipment pad was an asphalt pad located north of Facility 1203 within the fenced 1200 Area. No issues were observed during this VSI.

Inspector's Name: Robert Zuiss Signature: Robert Zuiss Date: 9/19/02

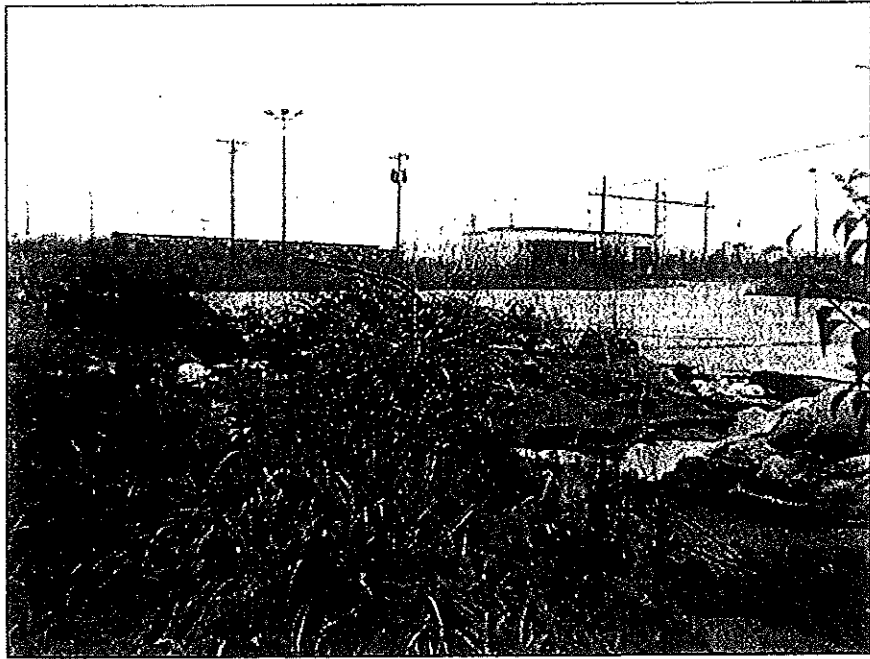
VSI Photographic Log  
Parcel L  
September 19, 2002



Photograph 1. Facility 1201 at front gate



Photograph 2. Facility 1202



Photograph 3. Yard wastes and carpet scraps dumped on north parking lot

**APPENDIX D**  
**SITE PHOTOGRAPHS**



# Markey Business Park Site

Belton, Missouri

Seagull Project No. MOESA055EA1



Client: Missouri Department of Natural Resources

Description: Photograph showing structures on the western portion of the east parcel of the site area. Four structures on the west portion of the east parcel were formerly used by Richards-Gebaur Air Force Base, which was designated as the weapons storage area (WSA).

Photograph Number: 1

Direction: Southeast

Photographer: Cosmo Canacari

Date: 5/31/2016



Client: Missouri Department of Natural Resources

Description: Photograph showing the approximately 6,000 square foot (ft<sup>2</sup>) former ammunitions bunker located within the WSA.

Photograph Number: 2

Direction: Northwest

Photographer: Cosmo Canacari

Date: 5/31/2016



# Markey Business Park Site

Belton, Missouri

Seagull Project No. MOESA055EA1



Client: Missouri Department of Natural Resources

Description: Photograph of the approximately 4,000 ft<sup>2</sup> former maintenance building located within the WSA.

Photograph Number: 3

Direction: Northwest

Photographer: Cosmo Canacari

Date: 5/31/2016



Client: Missouri Department of Natural Resources

Description: Photograph showing piping within the former maintenance building.

Photograph Number: 4

Direction: NA

Photographer: Cosmo Canacari

Date: 5/31/2016



# Markey Business Park Site

Belton, Missouri

Seagull Project No. MOESA055EA1



Client: Missouri Department of Natural Resources

Description: Photograph showing the 80 ft<sup>2</sup> structure at the northeast portion of the site.

Photograph Number: 5

Direction: North

Photographer: Cosmo Canacari

Date: 5/31/2016



Client: Missouri Department of Natural Resources

Description: Photograph showing the approximately 1,700 ft<sup>2</sup> former maintenance building located within the WSA.

Photograph Number: 6

Direction: South

Photographer: Cosmo Canacari

Date: 5/31/2016





# Markey Business Park Site

Belton, Missouri

Seagull Project No. MOESA055EA1



Client: Missouri Department of Natural Resources

Description: Photograph showing interior building components of the smaller maintenance structure.

Photograph Number: 7

Direction: NA

Photographer: Cosmo Canacari

Date: 5/31/2016



Client: Missouri Department of Natural Resources

Description: Photograph showing vinyl flooring suspected to contain asbestos. That material was located within the larger maintenance building.

Photograph Number: 8

Direction: NA

Photographer: Cosmo Canacari

Date: 5/31/2016



# Markey Business Park Site

Belton, Missouri

Seagull Project No. MOESA055EA1



Client: Missouri Department of Natural Resources

Description: Photograph showing the west parcel of the subject property.

Photograph Number: 9

Direction: Southwest

Photographer: Cosmo Canacari

Date: 5/31/2016



Client: Missouri Department of Natural Resources

Description: Photograph showing the surrounding area to the east of the subject property.

Photograph Number: 10

Direction: East

Photographer: Cosmo Canacari

Date: 5/31/2016

**APPENDIX E**  
**EDR RADIUS MAP REPORT**

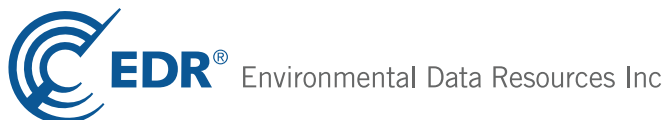
**Markey Business Park**

Markey Road and Bales Road  
Kansas City, MO 64147

Inquiry Number: 4635016.2s

June 02, 2016

**The EDR Radius Map™ Report with GeoCheck®**



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
 Please contact EDR at 1-800-352-0050  
 with any questions or comments.

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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

MARKEY ROAD AND BALES ROAD  
KANSAS CITY, MO 64147

### COORDINATES

Latitude (North): 38.8277240 - 38° 49' 39.80"  
Longitude (West): 94.5583380 - 94° 33' 30.01"  
Universal Transverse Mercator: Zone 15  
UTM X (Meters): 364727.1  
UTM Y (Meters): 4298605.0  
Elevation: 1109 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6726087 BELTON, MO  
Version Date: 2015

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120609, 20120608  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
 MARKEY ROAD AND BALES ROAD  
 KANSAS CITY, MO 64147

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">Reg</a>	RICHARDS-GEBAUR AIR		DOD	Same	4933, 0.934, North
1	NAVAL MOBILE CONSTRU	600 SEABEE DR	RCRA NonGen / NLR, FINDS, ECHO	Higher	309, 0.059, SE
2	BELTON (EX) 1ST OUT	203 RD ST	SEMS-ARCHIVE	Lower	1117, 0.212, SSE
3	RICHARDS-GEBAUR AFB		FUDS	Lower	3789, 0.718, North

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System



## EXECUTIVE SUMMARY

### **State- and tribal - equivalent CERCLIS**

SHWS..... Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

### **State and tribal landfill and/or solid waste disposal site lists**

SWF/LF..... Permitted Facility List

### **State and tribal leaking storage tank lists**

LUST..... Leaking Underground Storage Tanks  
LAST..... Leaking Aboveground Storage Tanks  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

FEMA UST..... Underground Storage Tank Listing  
UST..... Petroleum Storage Tanks  
AST..... Aboveground Petroleum Storage Tanks  
INDIAN UST..... Underground Storage Tanks on Indian Land

### **State and tribal institutional control / engineering control registries**

AUL..... Sites with Controls

### **State and tribal voluntary cleanup sites**

VCP..... Voluntary Cleanup Program Site Listing  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### **State and tribal Brownfields sites**

BROWNFIELDS..... Brownfields Site List

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

SWRCY..... Solid Waste Recycling Facilities  
HIST LF..... Solid Waste Facility Database List  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

#### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL..... Delisted National Clandestine Laboratory Register  
CDL..... Environmental Emergency Response System  
DEL SHWS..... Registry Sites Withdrawn or Deleted

## EXECUTIVE SUMMARY

US CDL..... National Clandestine Laboratory Register

### **Local Land Records**

LIENS 2..... CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
SPILLS..... Environmental Response Tracking Database  
SPILLS 90..... SPILLS 90 data from FirstSearch

### **Other Ascertainable Records**

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
FINDS..... Facility Index System/Facility Registry System  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
UXO..... Unexploded Ordnance Sites  
AIRS..... Permit Facility Listing  
COAL ASH..... Coal Ash Disposal Sites  
DRYCLEANERS..... Drycleaners in Missouri Listing  
Financial Assurance..... Financial Assurance Information Listing  
MINES..... Industrial Mineral Mines Database  
NPDES..... Permitted Facility Listing  
MO RRC..... Certified Hazardous Waste Resource Recovery Facilities  
SMARS..... Site Management and Reporting System  
UIC..... Underground Injection Wells Database

## EXECUTIVE SUMMARY

FUELS PROGRAM..... EPA Fuels Program Registered Listing  
ECHO..... Enforcement & Compliance History Information

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants  
EDR Hist Auto..... EDR Exclusive Historic Gas Stations  
EDR Hist Cleaner..... EDR Exclusive Historic Dry Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List  
RGA LF..... Recovered Government Archive Solid Waste Facilities List  
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BELTON (EX) 1ST OUT	203 RD ST	SSE 1/8 - 1/4 (0.212 mi.)	2	10

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NAVAL MOBILE CONSTRU</b>	<b>600 SEABEE DR</b>	<b>SE 0 - 1/8 (0.059 mi.)</b>	<b>1</b>	<b>8</b>

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RICHARDS-GEBAUR AFB		N 1/2 - 1 (0.718 mi.)	3	11

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

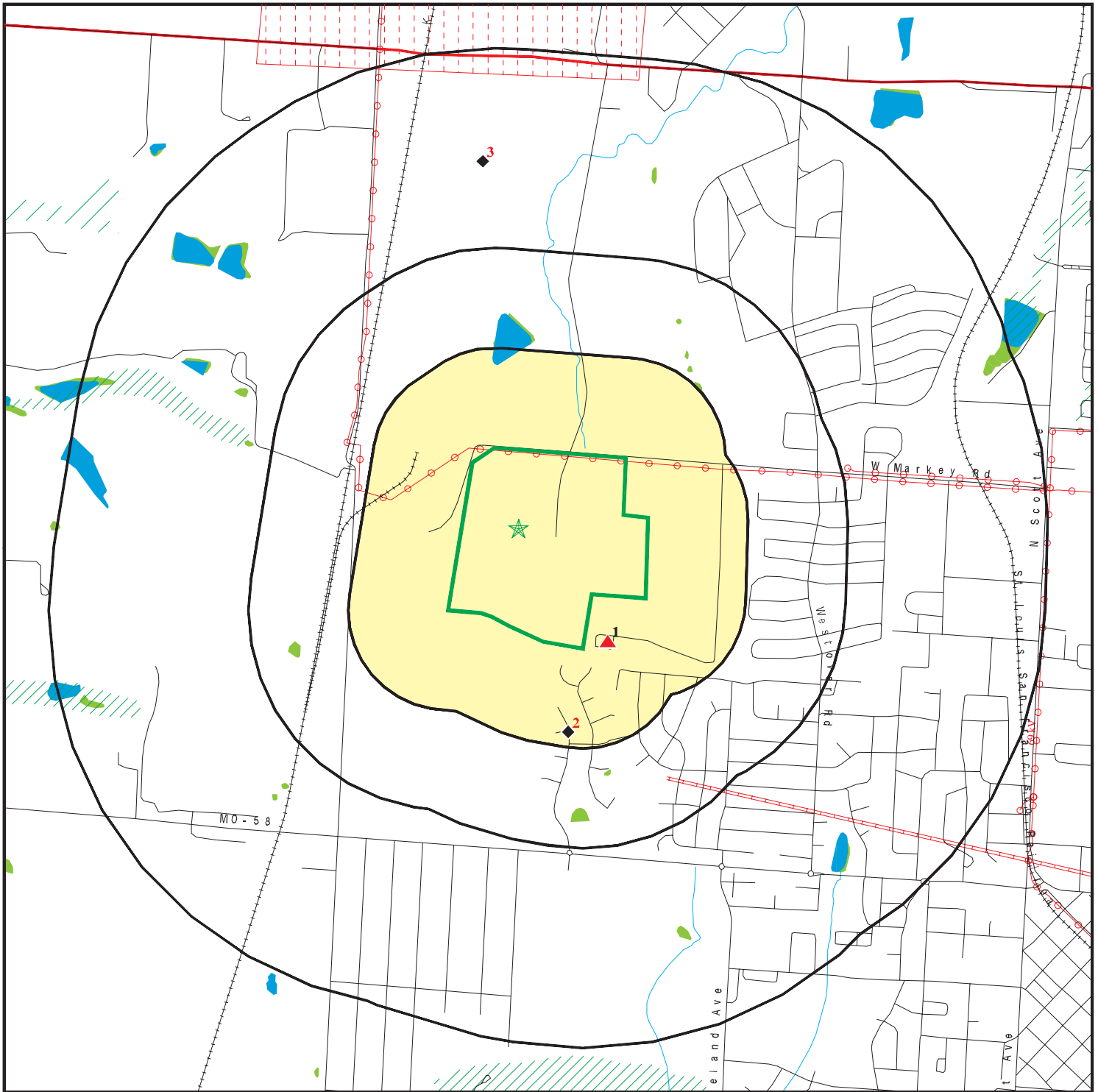
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RICHARDS-GEBAUR AIR		N 1/2 - 1 (0.934 mi.)	0	8

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

<u>Site Name</u>	<u>Database(s)</u>
MARKEY BUSINESS PARK	SMARS
MILES CLEANERS, HOBBS' NU-WAY LAUN	DRYCLEANERS

# OVERVIEW MAP - 4635016.2S



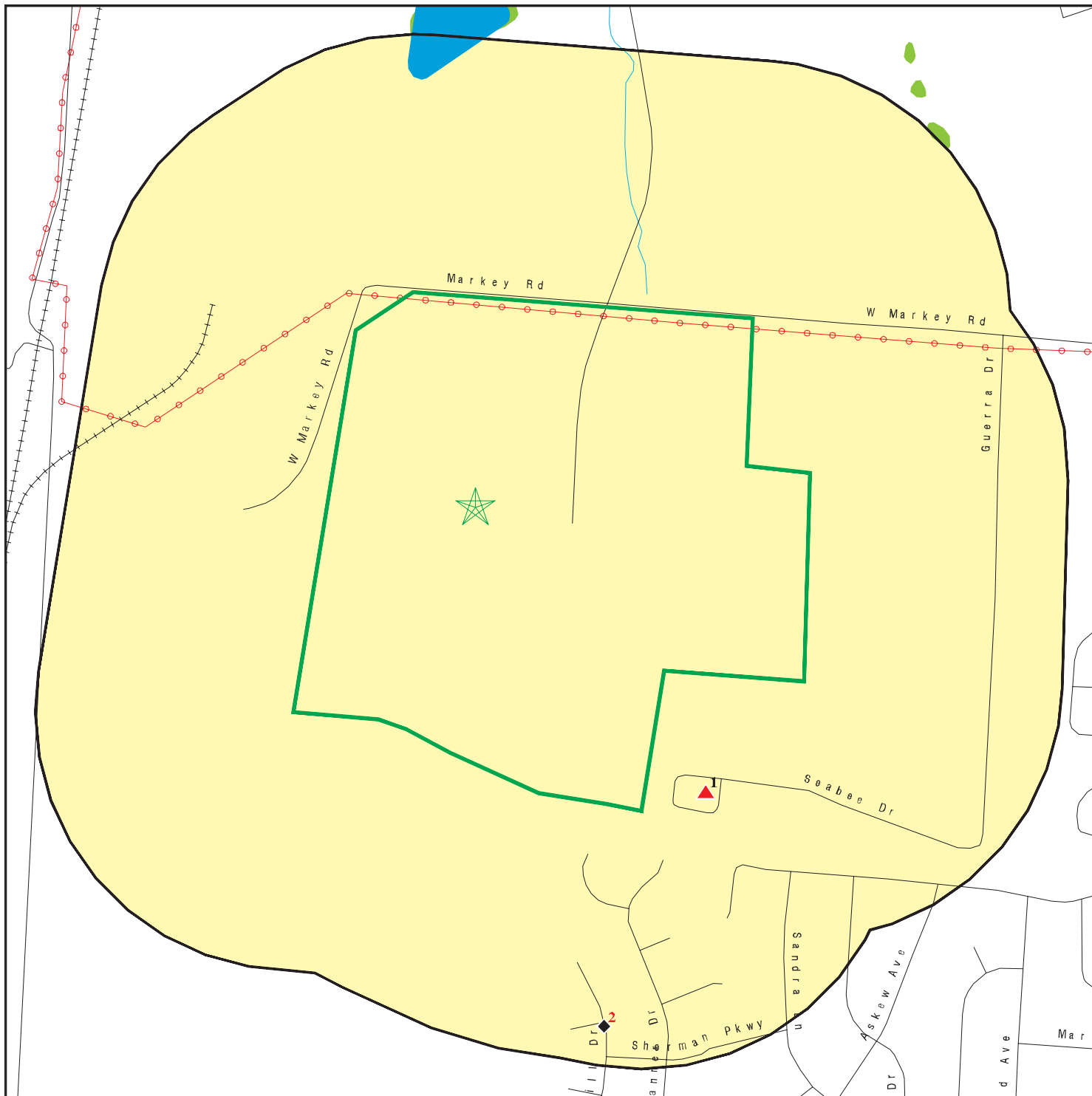
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands














This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Markey Business Park  
 ADDRESS: Markey Road and Bales Road  
 Kansas City MO 64147  
 LAT/LONG: 38.827724 / 94.558338

CLIENT: Seagull Env. Technologies  
 CONTACT: Ryan M. Lunt  
 INQUIRY #: 4635016.2s  
 DATE: June 02, 2016 9:55 am

# DETAIL MAP - 4635016.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Markey Business Park  
 ADDRESS: Markey Road and Bales Road  
 Kansas City MO 64147  
 LAT/LONG: 38.827724 / 94.558338

CLIENT: Seagull Env. Technologies  
 CONTACT: Ryan M. Lunt  
 INQUIRY #: 4635016.2s  
 DATE: June 02, 2016 9:56 am

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	0	NR	NR	0
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
AUL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	1	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
SMARS	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA HWS	TP		NR	NR	NR	NR	NR	0
---------	----	--	----	----	----	----	----	---

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	1	1	0	2	0	4

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DOD**  
**Region**  
**North**  
**1/2-1**  
**4933 ft.**

**RICHARDS-GEBAUR AIR FORCE BASE (CLOSED)**  
**RICHARDS-GEBAUR AIR FORCE (County), MO**

**DOD** **CUSA133969**  
**N/A**

DOD:

Feature 1: Air Force DOD  
Feature 2: Not reported  
Feature 3: Not reported  
URL: Not reported  
Name 1: Richards-Gebaur Air Force Base (Closed)  
Name 2: Not reported  
Name 3: Not reported  
State: MO  
DOD Site: Yes  
Tile name: MOJACKSON

**1**  
**SE**  
**< 1/8**  
**0.059 mi.**  
**309 ft.**

**NAVAL MOBILE CONSTRUCTION BATTALION 15**  
**600 SEABEE DR**  
**BELTON, MO 64012**

**RCRA NonGen / NLR** **1000868475**  
**FINDS** **MO0000093112**  
**ECHO**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

Date form received by agency: 03/31/2014  
Facility name: NAVAL MOBILE CONST BATT 15  
Facility address: 600 SEABEE DR  
BELTON, MO 64012-3228  
EPA ID: MO0000093112  
Contact: LAWRENCE HORTON  
Contact address: 600 SEABEE DR  
BELTON, MO 64012-3228  
Contact country: US  
Contact telephone: (816) 331-9250  
Contact email: JOHN.PACE@NAVY.MIL  
EPA Region: 07  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Actual:**  
**1111 ft.**

Owner/Operator Summary:

Owner/operator name: U S NAVY  
Owner/operator address: 600 SEABEE DR  
BELTON, MO 64012  
Owner/operator country: US  
Owner/operator telephone: (816) 331-9250  
Legal status: Federal  
Owner/Operator Type: Operator  
Owner/Op start date: 08/12/2004  
Owner/Op end date: Not reported  
Owner/operator name: U S NAVY  
Owner/operator address: 600 SEABEE DR  
BELTON, MO 64012  
Owner/operator country: US  
Owner/operator telephone: (816) 331-9250  
Legal status: Federal  
Owner/Operator Type: Owner  
Owner/Op start date: 08/12/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NAVAL MOBILE CONSTRUCTION BATTALION 15 (Continued)**

**1000868475**

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 08/12/2004  
Site name: NAVEL MOBILE CONST BATT 15  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 09/01/1995  
Site name: NAVEL MOBILE CONST BATT 15  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110003935252

Environmental Interest/Information System  
The MO-DNR (Missouri Department of Natural Resources) program involves

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NAVAL MOBILE CONSTRUCTION BATTALION 15 (Continued)**

**1000868475**

a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**ECHO:**

Envid: 1000868475  
Registry ID: 110003935252  
DFR URL: [http://echo.epa.gov/detailed\\_facility\\_report?fid=110003935252](http://echo.epa.gov/detailed_facility_report?fid=110003935252)

**2**  
**SSE**  
**1/8-1/4**  
**0.212 mi.**  
**1117 ft.**

**BELTON (EX) 1ST OUT MRX AX**  
**203 RD ST**  
**BELTON, MO 64012**

**SEMS-ARCHIVE 1012043218**  
**MON000703400**

**Relative:**  
**Lower**

**SEMS-ARCHIVE:**  
Site ID: 703400  
EPA ID: MON000703400  
Federal Facility: N  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Actual:**  
**1092 ft.**

**Following information was gathered from the prior CERCLIS update completed in 10/2013:**

Site ID: 0703400  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Site Contact Details:**

Contact Sequence ID: 7358970.00000  
Person ID: 7271582.00000

**CERCLIS-NFRAP Site Alias Name(s):**

Alias Name: BELTON 1ST OUT MRX AX (EX)  
Alias Address: Not reported  
BELTON, MO

Alias Name: BELTON ILS OUTER MARKER ANNEX  
Alias Address: Not reported  
BELTON, MO

Alias Name: BELTON ISLAND OUT MRK AX  
Alias Address: Not reported  
Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BELTON (EX) 1ST OUT MRX AX (Continued)**

**1012043218**

CERCLIS-NFRAP Assessment History:

Action: PRELIMINARY ASSESSMENT  
Date Started: 04/22/02  
Date Completed: 03/07/03  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 02/11/08  
Priority Level: Not reported

Action: DISCOVERY  
Date Started: / /  
Date Completed: 10/20/00  
Priority Level: Not reported

Action: PRE-CERCLIS SCREENING  
Date Started: / /  
Date Completed: 10/20/00  
Priority Level: Not reported

**3**  
**North**  
**1/2-1**  
**0.718 mi.**  
**3789 ft.**

**RICHARDS-GEBAUR AFB**  
**BELTON, MO**

**FUDS 1007211792**  
**N/A**

**Relative:**  
**Lower**

FUDS:  
Federal Facility ID: MO9799F0395  
FUDS #: B07MO0251  
INST ID: 58412  
Facility Name: RICHARDS-GEBAUR AFB  
City: BELTON  
State: MO  
EPA Region: 07  
County: CASS  
Congressional District: 04  
US Army District: Kansas City District (NWK)  
Fiscal Year: 2013  
Telephone: 816-389-3072  
NPL Status: Not Listed  
RAB: Y  
CTC: 3821.599  
Current Owner: Local Government  
Current Prog: Not reported  
Future Prog: Not reported  
Acreage: Not reported  
Description:

**Actual:**  
**1065 ft.**

The former Richards-Gebaur Air Force Base site (3111.70 acres) is located in western Missouri near the cities of Belton, Grandview, and Kansas City. The installation is 2.6 miles from the Kansas-Missouri state line on the borders of Jackson and Cass Counties. The site is bordered on the north by U.S. Highway 150, on the east by U.S. Highway 71, and on the west by Kansas City Southern railroad tracks. The Formerly Used Defense Sites property is adjacent to Air Force-owned property and includes the south conterminous area and northeast landfill as well as Building 1010; the west burn area; a low-level radioactive disposal cell; a herbicide burial area; petroleum, oil and

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RICHARDS-GEBAUR AFB (Continued)**

**1007211792**

lubricants yard (AST 956/Pump House Building 959); and tarmac fuel hydrants 4, 5, and 6; all of which are areas of concern located on the former Richards-Gebaur AFB FUDS property.

History: Kansas City used the site as an auxiliary airport in 1941. It was leased by the Air Defense Command in 1952 and was transferred to the government in 1953; since that time the site has been under the command of the Aerospace Defense Command, Air Force Command Center, MAC, and the Air Force Reserve. Industrial activity by the Air Force consisted of aircraft and ground-support equipment maintenance. Portions of the property were taken back by the cities of Belton and Kansas City in 1980. The large AST, Project No 2 was removed by the City of Kansas City in November 1999. A commercial intermodal freight facility has been proposed and is currently being constructed on the property. The Kansas City Port Authority enrolled the property in the Missouri Voluntary Cleanup Program and is seeking closure of all existing environmental projects at the property as part of their negotiations with the property developer. As the property is concurrently enrolled in VCP its eligibility for FUDS is suspect. Negotiations are in progress.

Latitude: -94.5515975951  
Longitude: 38.841999053999



Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BELTON	S118557533	MARKEY BUSINESS PARK	MARKEY AND BALES ROAD	64012	SMARS
KANSAS CITY	S106976840	MILES CLEANERS, HOBBS' NU-WAY LAUN	5743,5743.5 PROSPECT AVE.		DRYCLEANERS

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 04/08/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015	Source: EPA
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 913-551-7003
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 913-551-7003
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 913-551-7003
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 913-551-7003
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 05/16/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 08/29/2016
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Federal ERNS list**

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016  
Date Data Arrived at EDR: 03/30/2016  
Date Made Active in Reports: 05/20/2016  
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 03/30/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Annually

## **State- and tribal - equivalent CERCLIS**

### SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 11/10/2015  
Date Data Arrived at EDR: 01/05/2016  
Date Made Active in Reports: 02/19/2016  
Number of Days to Update: 45

Source: Department of Natural Resources  
Telephone: 573-751-1990  
Last EDR Contact: 05/31/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Quarterly

### HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includes the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2014  
Date Data Arrived at EDR: 03/10/2015  
Date Made Active in Reports: 03/19/2015  
Number of Days to Update: 9

Source: Department of Natural Resources  
Telephone: 573-751-3176  
Last EDR Contact: 05/31/2016  
Next Scheduled EDR Contact: 07/02/5007  
Data Release Frequency: Annually

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/20/2016  
Date Data Arrived at EDR: 02/23/2016  
Date Made Active in Reports: 04/07/2016  
Number of Days to Update: 44

Source: Department of Natural Resources  
Telephone: 573-751-5401  
Last EDR Contact: 05/17/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: Quarterly

## **State and tribal leaking storage tank lists**

### LUST: Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/15/2016  
Date Data Arrived at EDR: 03/17/2016  
Date Made Active in Reports: 05/09/2016  
Number of Days to Update: 53

Source: Department of Natural Resources  
Telephone: 573-751-0135  
Last EDR Contact: 03/17/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 03/15/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/17/2016	Telephone: 573-751-6822
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 03/17/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Quarterly

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015	Source: EPA Region 6
Date Data Arrived at EDR: 10/30/2015	Telephone: 214-665-6597
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 111	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015	Source: EPA Region 4
Date Data Arrived at EDR: 12/01/2015	Telephone: 404-562-8677
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015	Source: EPA Region 7
Date Data Arrived at EDR: 04/28/2015	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 04/29/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 04/27/2016
Number of Days to Update: 32	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-7439
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

### **State and tribal registered storage tank lists**

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/11/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Varies

#### UST: Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/15/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/17/2016	Telephone: 573-751-0135
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 03/17/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Semi-Annually

#### AST: Aboveground Petroleum Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 03/07/2016	Source: Department of Agriculture
Date Data Arrived at EDR: 03/18/2016	Telephone: 573-751-7062
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 03/07/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 06/20/2016
	Data Release Frequency: Semi-Annually

#### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6137
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/29/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015	Source: EPA Region 6
Date Data Arrived at EDR: 10/30/2015	Telephone: 214-665-7591
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 111	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014	Source: EPA Region 9
Date Data Arrived at EDR: 02/13/2015	Telephone: 415-972-3368
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 04/27/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015	Source: EPA Region 4
Date Data Arrived at EDR: 12/01/2015	Telephone: 404-562-9424
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

### **State and tribal institutional control / engineering control registries**

#### AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 01/08/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/18/2016	Telephone: 573-751-3176
Date Made Active in Reports: 04/07/2016	Last EDR Contact: 05/19/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 08/29/2016
	Data Release Frequency: Varies

### **State and tribal voluntary cleanup sites**

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

#### VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 01/08/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/18/2016	Telephone: 573-526-8913
Date Made Active in Reports: 04/07/2016	Last EDR Contact: 05/19/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 08/29/2016
	Data Release Frequency: Semi-Annually

### **State and tribal Brownfields sites**

#### BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/08/2016  
Date Data Arrived at EDR: 02/18/2016  
Date Made Active in Reports: 04/07/2016  
Number of Days to Update: 49

Source: Department of Natural Resources  
Telephone: 573-526-8913  
Last EDR Contact: 05/19/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: Semi-Annually

## ADDITIONAL ENVIRONMENTAL RECORDS

### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015  
Date Data Arrived at EDR: 12/23/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 57

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 03/22/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005  
Date Data Arrived at EDR: 07/19/2006  
Date Made Active in Reports: 08/18/2006  
Number of Days to Update: 30

Source: Department of Natural Resources  
Telephone: 573-751-5401  
Last EDR Contact: 01/12/2009  
Next Scheduled EDR Contact: 04/13/2009  
Data Release Frequency: No Update Planned

#### SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 03/29/2016  
Date Data Arrived at EDR: 03/31/2016  
Date Made Active in Reports: 05/10/2016  
Number of Days to Update: 40

Source: Department of Natural Resources  
Telephone: 573-526-3944  
Last EDR Contact: 05/27/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Varies

#### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 04/27/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 04/21/2016  
Next Scheduled EDR Contact: 08/08/2016  
Data Release Frequency: No Update Planned

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/17/2015  
Date Data Arrived at EDR: 12/04/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 76

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/01/2016  
Next Scheduled EDR Contact: 06/13/2016  
Data Release Frequency: No Update Planned

### CDL: Environmental Emergency Response System

Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 02/05/2016  
Date Data Arrived at EDR: 03/17/2016  
Date Made Active in Reports: 05/10/2016  
Number of Days to Update: 54

Source: Department of Natural Resources  
Telephone: 573-751-3443  
Last EDR Contact: 03/17/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Varies

### DEL SHWS: Registry Sites Withdrawn or Deleted

A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 11/10/2015  
Date Data Arrived at EDR: 01/05/2016  
Date Made Active in Reports: 02/19/2016  
Number of Days to Update: 45

Source: Department of Natural Resources  
Telephone: 573-522-3710  
Last EDR Contact: 05/31/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Annually

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015  
Date Data Arrived at EDR: 12/04/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 76

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 05/31/2016  
Next Scheduled EDR Contact: 09/12/2016  
Data Release Frequency: Quarterly

## **Local Land Records**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 04/26/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 03/30/2016
Number of Days to Update: 68	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Annually

### SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 02/05/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/17/2016	Telephone: 573-526-3349
Date Made Active in Reports: 05/10/2016	Last EDR Contact: 03/17/2016
Number of Days to Update: 54	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Semi-Annually

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/27/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## Other Ascertainable Records

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 913-551-7003
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/11/2016  
Next Scheduled EDR Contact: 06/20/2016  
Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 04/15/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: Semi-Annually

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 04/15/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 05/20/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015  
Date Data Arrived at EDR: 09/03/2015  
Date Made Active in Reports: 11/03/2015  
Number of Days to Update: 61

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 05/18/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 05/09/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 05/12/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Varies

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 01/15/2015  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 14

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 03/24/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 11/24/2015  
Date Made Active in Reports: 04/05/2016  
Number of Days to Update: 133

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 05/24/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 04/25/2016  
Next Scheduled EDR Contact: 08/08/2016  
Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/08/2016  
Next Scheduled EDR Contact: 06/20/2016  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/26/2015	Telephone: 202-564-8600
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 04/25/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 04/12/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 05/20/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 05/20/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016  
Date Data Arrived at EDR: 03/18/2016  
Date Made Active in Reports: 04/15/2016  
Number of Days to Update: 28

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 05/06/2016  
Next Scheduled EDR Contact: 08/22/2016  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 04/15/2016  
Next Scheduled EDR Contact: 07/25/2016  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 03/11/2016  
Next Scheduled EDR Contact: 06/20/2016  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 04/26/2016  
Next Scheduled EDR Contact: 08/08/2016  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/07/2015  
Date Data Arrived at EDR: 07/09/2015  
Date Made Active in Reports: 09/16/2015  
Number of Days to Update: 69

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 04/08/2016  
Next Scheduled EDR Contact: 07/18/2016  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 05/04/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 04/17/2015  
Date Made Active in Reports: 06/02/2015  
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 03/24/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 05/27/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/15/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015	Source: Department of Energy
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-586-3559
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 05/09/2016
Number of Days to Update: 86	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 05/23/2016
Number of Days to Update: 146	Next Scheduled EDR Contact: 09/05/2016
	Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/26/2014	Telephone: 703-603-8787
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/07/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 03/24/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 03/24/2016  
Next Scheduled EDR Contact: 07/11/2016  
Data Release Frequency: Annually

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016  
Date Data Arrived at EDR: 03/02/2016  
Date Made Active in Reports: 04/15/2016  
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 03/02/2016  
Next Scheduled EDR Contact: 06/13/2016  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 03/04/2016  
Next Scheduled EDR Contact: 06/13/2016  
Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 03/04/2016  
Next Scheduled EDR Contact: 06/13/2016  
Data Release Frequency: Varies

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015  
Date Data Arrived at EDR: 09/09/2015  
Date Made Active in Reports: 11/03/2015  
Number of Days to Update: 55

Source: EPA  
Telephone: (913) 551-7003  
Last EDR Contact: 03/08/2016  
Next Scheduled EDR Contact: 06/20/2016  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 03/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 05/25/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 04/18/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 07/04/2016
	Data Release Frequency: Varies

## AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 03/31/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/01/2016	Telephone: 573-751-4817
Date Made Active in Reports: 05/10/2016	Last EDR Contact: 03/15/2016
Number of Days to Update: 39	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Varies

## COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 01/14/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/08/2016	Telephone: 573-526-1825
Date Made Active in Reports: 05/10/2016	Last EDR Contact: 04/04/2016
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

## DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 11/13/2015	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/21/2015	Telephone: 573-526-8913
Date Made Active in Reports: 02/19/2016	Last EDR Contact: 05/19/2016
Number of Days to Update: 60	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 03/09/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/11/2016	Telephone: 573-751-3553
Date Made Active in Reports: 05/10/2016	Last EDR Contact: 03/07/2016
Number of Days to Update: 60	Next Scheduled EDR Contact: 06/20/2016
	Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/08/2016  
Date Data Arrived at EDR: 03/09/2016  
Date Made Active in Reports: 05/10/2016  
Number of Days to Update: 62

Source: Department of Natural Resources  
Telephone: 573-751-5401  
Last EDR Contact: 03/20/2016  
Next Scheduled EDR Contact: 06/20/2016  
Data Release Frequency: Varies

## MINES: Industrial Mineral Mines Database

This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 09/12/2014  
Date Data Arrived at EDR: 10/23/2014  
Date Made Active in Reports: 12/01/2014  
Number of Days to Update: 39

Source: Department of Natural Resources  
Telephone: 573-751-4041  
Last EDR Contact: 04/22/2016  
Next Scheduled EDR Contact: 08/01/2016  
Data Release Frequency: Varies

## NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 04/05/2016  
Date Data Arrived at EDR: 04/08/2016  
Date Made Active in Reports: 05/10/2016  
Number of Days to Update: 32

Source: Department of Natural Resources  
Telephone: 573-751-7023  
Last EDR Contact: 04/05/2016  
Next Scheduled EDR Contact: 07/18/2016  
Data Release Frequency: Varies

## RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 03/11/2016  
Date Data Arrived at EDR: 03/16/2016  
Date Made Active in Reports: 05/10/2016  
Number of Days to Update: 55

Source: Department of Natural Resources  
Telephone: 573-751-3176  
Last EDR Contact: 03/14/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Semi-Annually

## SMARS: Site Management and Reporting System

SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.

Date of Government Version: 04/12/2016  
Date Data Arrived at EDR: 05/04/2016  
Date Made Active in Reports: 05/20/2016  
Number of Days to Update: 16

Source: Department of Natural Resources  
Telephone: 573-751-3043  
Last EDR Contact: 05/04/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Varies

## UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 02/29/2016  
Date Data Arrived at EDR: 03/18/2016  
Date Made Active in Reports: 05/10/2016  
Number of Days to Update: 53

Source: Department of Natural Resources  
Telephone: 573-368-2183  
Last EDR Contact: 05/27/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/22/2016  
Date Data Arrived at EDR: 02/24/2016  
Date Made Active in Reports: 05/20/2016  
Number of Days to Update: 86

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 05/25/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015  
Date Data Arrived at EDR: 09/23/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 103

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 03/23/2016  
Next Scheduled EDR Contact: 07/04/2016  
Data Release Frequency: Quarterly

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **EDR RECOVERED GOVERNMENT ARCHIVES**

### ***Exclusive Recovered Govt. Archives***

#### **RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List**

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/03/2014  
Number of Days to Update: 186

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### **RGA LF: Recovered Government Archive Solid Waste Facilities List**

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/15/2014  
Number of Days to Update: 198

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### **RGA LUST: Recovered Government Archive Leaking Underground Storage Tank**

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Missouri.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/03/2014  
Number of Days to Update: 186

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### **CT MANIFEST: Hazardous Waste Manifest Data**

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 05/13/2016  
Next Scheduled EDR Contact: 08/29/2016  
Data Release Frequency: No Update Planned



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2016  
Date Data Arrived at EDR: 02/03/2016  
Date Made Active in Reports: 03/22/2016  
Number of Days to Update: 48

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 05/06/2016  
Next Scheduled EDR Contact: 08/15/2016  
Data Release Frequency: Annually

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 08/18/2015  
Number of Days to Update: 25

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/18/2016  
Next Scheduled EDR Contact: 08/01/2016  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 05/23/2016  
Next Scheduled EDR Contact: 09/05/2016  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 03/19/2015  
Date Made Active in Reports: 04/07/2015  
Number of Days to Update: 19

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/14/2016  
Next Scheduled EDR Contact: 06/27/2016  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Child Care Facilities

Source: Department of Health & Senior Services

Telephone: 573-751-2450

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: National Wetland Inventory of Missouri

Source: Department of Natural Resources

Telephone: 573-751-5110

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

### STREET AND ADDRESS INFORMATION

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

MARKEY BUSINESS PARK  
MARKEY ROAD AND BALES ROAD  
KANSAS CITY, MO 64147

### **TARGET PROPERTY COORDINATES**

Latitude (North):	38.827724 - 38° 49' 39.81"
Longitude (West):	94.558338 - 94° 33' 30.02"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	364727.1
UTM Y (Meters):	4298605.0
Elevation:	1109 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	6726087 BELTON, MO
Version Date:	2015

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

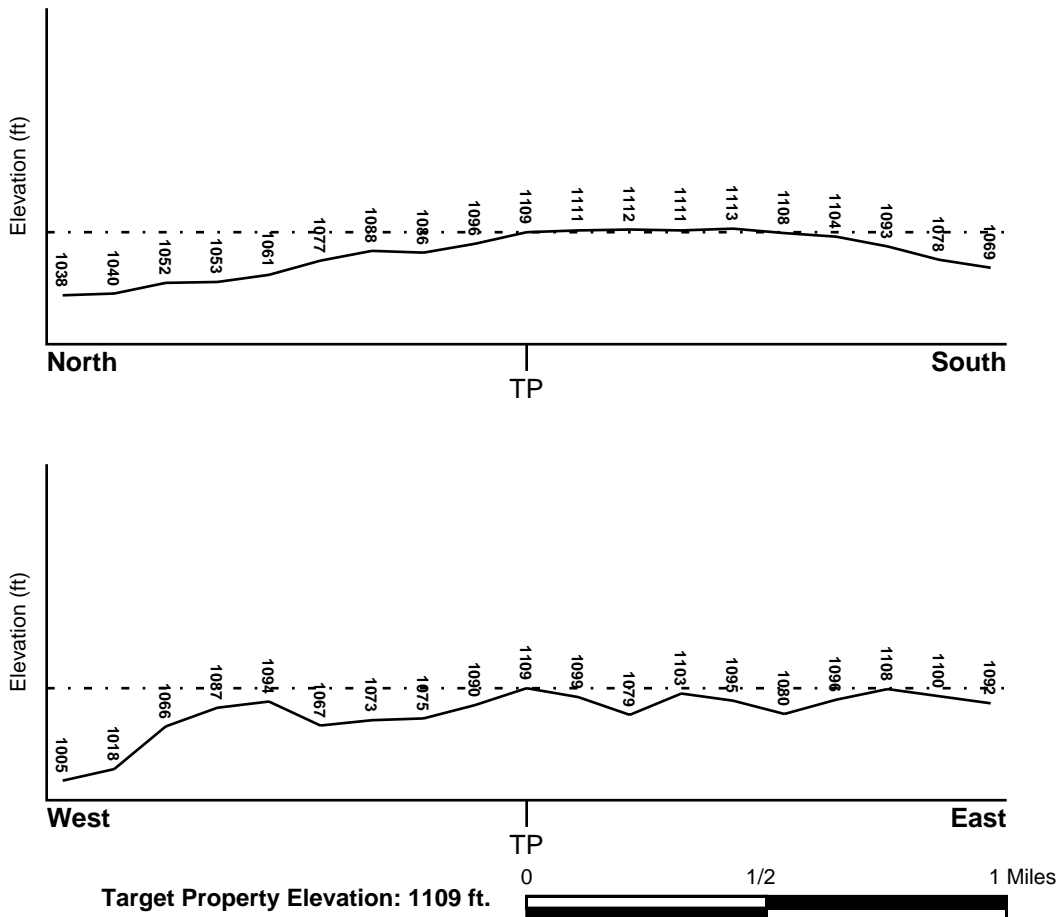
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Target Property County</u> CASS, MO	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	29037C - FEMA DFIRM Flood data
Additional Panels in search area:	Not Reported

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u> BELTON	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
----------------------------------------------	---------------------------------------------------------------------------------------

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

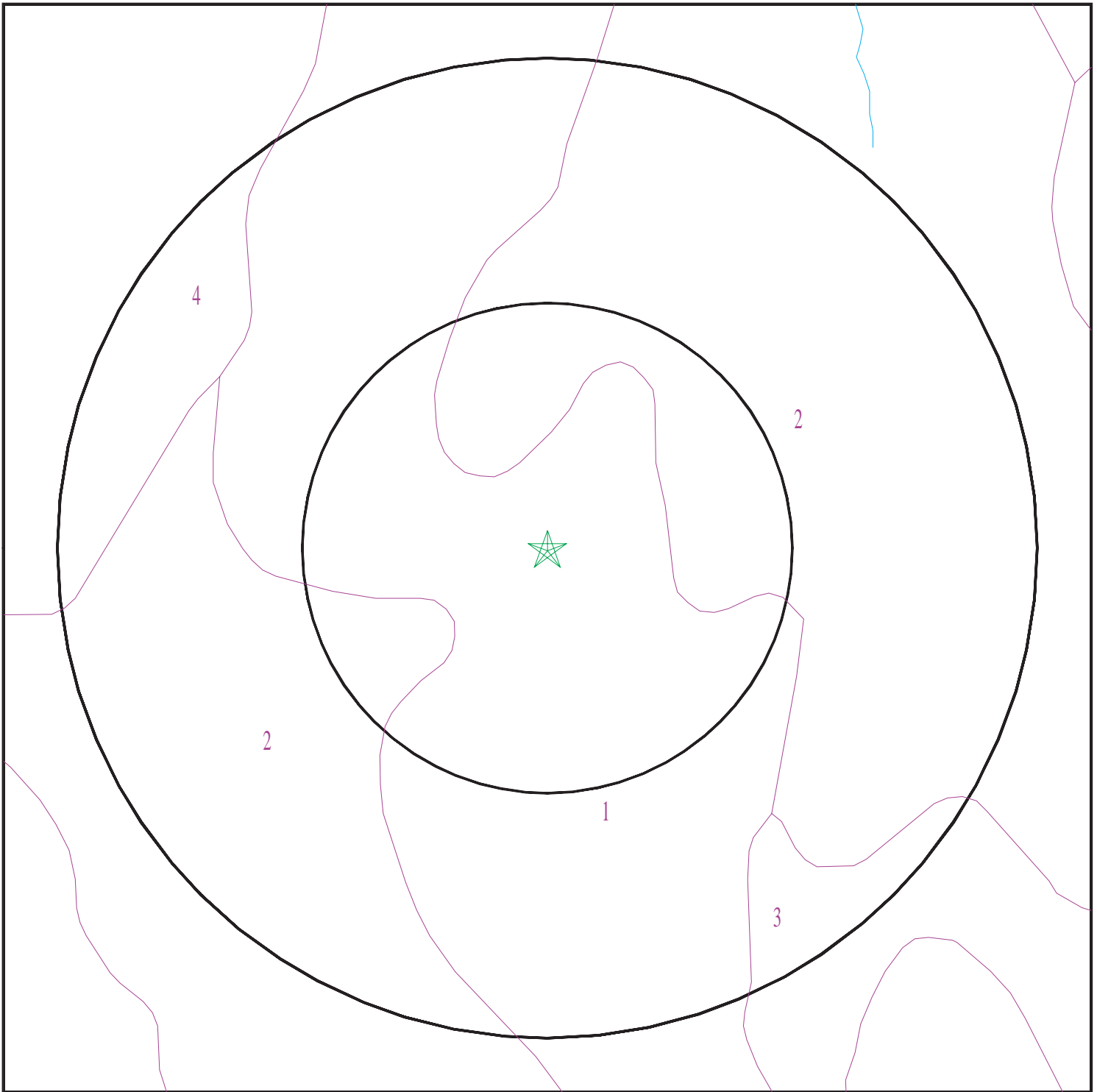
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 ( <i>decoded above as Era, System &amp; Series</i> )

#### **GEOLOGIC AGE IDENTIFICATION**

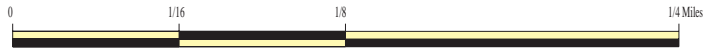
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 4635016.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Markey Business Park  
ADDRESS: Markey Road and Bales Road  
Kansas City MO 64147  
LAT/LONG: 38.827724 / 94.558338

CLIENT: Seagull Env. Technologies  
CONTACT: Ryan M. Lunt  
INQUIRY #: 4635016.2s  
DATE: June 02, 2016 9:56 am

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Macksburg

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.1
2	9 inches	57 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.233 Min: 1.411	Max: 6 Min: 5.1
3	57 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.6



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Greenton

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.233 Min: 1.411	Max: 6.5 Min: 5.6
2	16 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.411 Min: 0.4233	Max: 7.3 Min: 5.6

### Soil Map ID: 3

Soil Component Name: Higginsville

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 7.3 Min: 5.6
2	9 inches	18 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.1
3	18 inches	31 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.1
4	31 inches	64 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.1

**Soil Map ID: 4**

Soil Component Name: Macksburg

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.1
2	18 inches	57 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.233 Min: 1.411	Max: 6 Min: 5.1
3	57 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.233	Max: 6.5 Min: 5.6

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
_____	_____	_____

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000696494	1/2 - 1 Mile NE
4	USGS40000696553	1/2 - 1 Mile NNE

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	MOLOG1000019983	1/2 - 1 Mile SW
3	MOLOG1000019963	1/2 - 1 Mile SW

## OTHER STATE DATABASE INFORMATION

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	MOOG50000002176	1/8 - 1/4 Mile SW
A2	MOOG50000002177	1/8 - 1/4 Mile WSW
3	MOOG50000001616	1/4 - 1/2 Mile NNW
4	MOOG50000002072	1/4 - 1/2 Mile SSE
5	MOOG50000001700	1/4 - 1/2 Mile WNW
6	MOOG50000001615	1/4 - 1/2 Mile NE
7	MOOG50000001620	1/4 - 1/2 Mile NW
8	MOOG50000001618	1/4 - 1/2 Mile NW
9	MOOG50000002479	1/4 - 1/2 Mile SW
B10	MOOG50000002247	1/4 - 1/2 Mile SW
B11	MOOG50000002042	1/4 - 1/2 Mile SW
C12	MOOG50000001630	1/4 - 1/2 Mile WNW
13	MOOG50000002445	1/2 - 1 Mile West
14	MOOG50000002081	1/2 - 1 Mile West
C15	MOOG50000001627	1/2 - 1 Mile WNW
16	MOOG50000001619	1/2 - 1 Mile NNW
D17	MOOG50000001697	1/2 - 1 Mile WNW
18	MOOG50000002073	1/2 - 1 Mile South
D19	MOOG50000001696	1/2 - 1 Mile WNW
20	MOOG50000001629	1/2 - 1 Mile NW
E21	MOOG50000002066	1/2 - 1 Mile WSW
22	MOOG50000002499	1/2 - 1 Mile WSW
F23	MOOG50000002721	1/2 - 1 Mile West
F24	MOOG50000002080	1/2 - 1 Mile West
F25	MOOG50000002717	1/2 - 1 Mile West
E26	MOOG50000002713	1/2 - 1 Mile WSW
F27	MOOG50000002783	1/2 - 1 Mile West
G28	MOOG50000002140	1/2 - 1 Mile WNW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
F29	MOOG50000002785	1/2 - 1 Mile West
H30	MOOG50000002082	1/2 - 1 Mile WSW
I31	MOOG50000002340	1/2 - 1 Mile SW
H32	MOOG50000002710	1/2 - 1 Mile WSW
J33	MOOG50000002778	1/2 - 1 Mile West
34	MOOG50000001641	1/2 - 1 Mile NW
35	MOOG50000002444	1/2 - 1 Mile SW
I36	MOOG50000001695	1/2 - 1 Mile WSW
G37	MOOG50000001628	1/2 - 1 Mile WNW
K38	MOOG50000002724	1/2 - 1 Mile West
H39	MOOG50000002498	1/2 - 1 Mile WSW
F40	MOOG50000002720	1/2 - 1 Mile West
K41	MOOG50000002727	1/2 - 1 Mile West
H42	MOOG50000002775	1/2 - 1 Mile WSW
J43	MOOG50000002716	1/2 - 1 Mile West
44	MOOG50000001701	1/2 - 1 Mile SE
H45	MOOG50000001678	1/2 - 1 Mile WSW
J46	MOOG50000002079	1/2 - 1 Mile WSW
J47	MOOG50000002712	1/2 - 1 Mile WSW
H48	MOOG50000002612	1/2 - 1 Mile WSW
K49	MOOG50000002782	1/2 - 1 Mile West
H50	MOOG50000002611	1/2 - 1 Mile WSW
I51	MOOG50000002666	1/2 - 1 Mile SW
I52	MOOG50000002665	1/2 - 1 Mile SW
L53	MOOG50000002784	1/2 - 1 Mile West
I54	MOOG50000002664	1/2 - 1 Mile SW
H55	MOOG50000002709	1/2 - 1 Mile WSW
M56	MOOG50000002379	1/2 - 1 Mile SW
J57	MOOG50000002777	1/2 - 1 Mile West
N58	MOOG50000002341	1/2 - 1 Mile WSW
N59	MOOG50000002618	1/2 - 1 Mile WSW
N60	MOOG50000002617	1/2 - 1 Mile WSW
O61	MOOG50000002443	1/2 - 1 Mile SW
I62	MOOG50000002385	1/2 - 1 Mile SW
P63	MOOG50000002109	1/2 - 1 Mile West
Q64	MOOG50000002774	1/2 - 1 Mile WSW
65	MOOG50000002107	1/2 - 1 Mile SSW
L66	MOOG50000002719	1/2 - 1 Mile West
R67	MOOG50000002497	1/2 - 1 Mile WSW
P68	MOOG50000001699	1/2 - 1 Mile WNW
L69	MOOG50000002715	1/2 - 1 Mile West
P70	MOOG50000002730	1/2 - 1 Mile WNW
M71	MOOG50000002660	1/2 - 1 Mile SW
M72	MOOG50000002659	1/2 - 1 Mile SW
M73	MOOG50000002658	1/2 - 1 Mile SW
M74	MOOG50000002657	1/2 - 1 Mile SW
Q75	MOOG50000002711	1/2 - 1 Mile West
M76	MOOG50000002765	1/2 - 1 Mile SW
O77	MOOG50000001685	1/2 - 1 Mile SW
N78	MOOG50000002663	1/2 - 1 Mile WSW
S79	MOOG50000002339	1/2 - 1 Mile SW
L80	MOOG50000002779	1/2 - 1 Mile West
N81	MOOG50000002662	1/2 - 1 Mile WSW
N82	MOOG50000002661	1/2 - 1 Mile WSW
O83	MOOG50000002188	1/2 - 1 Mile SW
P84	MOOG50000002780	1/2 - 1 Mile West

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
O85	MOOG50000002648	1/2 - 1 Mile SW
R86	MOOG50000002609	1/2 - 1 Mile WSW
Q87	MOOG50000002708	1/2 - 1 Mile WSW
O88	MOOG50000002647	1/2 - 1 Mile SW
R89	MOOG50000002610	1/2 - 1 Mile WSW
O90	MOOG50000002191	1/2 - 1 Mile SW
O91	MOOG50000002646	1/2 - 1 Mile SW
T92	MOOG50000002776	1/2 - 1 Mile West
93	MOOG50000002074	1/2 - 1 Mile SSE
U94	MOOG50000002496	1/2 - 1 Mile WSW
M95	MOOG50000002382	1/2 - 1 Mile SW
V96	MOOG50000002458	1/2 - 1 Mile SW
W97	MOOG50000001686	1/2 - 1 Mile SW
98	MOOG50000001642	1/2 - 1 Mile NW
Q99	MOOG50000002773	1/2 - 1 Mile WSW
R100	MOOG50000002616	1/2 - 1 Mile WSW
R101	MOOG50000002615	1/2 - 1 Mile WSW
S102	MOOG50000002384	1/2 - 1 Mile WSW
X103	MOOG50000002723	1/2 - 1 Mile West
X104	MOOG50000002718	1/2 - 1 Mile West
P105	MOOG50000002726	1/2 - 1 Mile West
R106	MOOG50000001673	1/2 - 1 Mile WSW
R107	MOOG50000002536	1/2 - 1 Mile WSW
T108	MOOG50000002714	1/2 - 1 Mile West
Y109	MOOG50000002729	1/2 - 1 Mile WNW
110	MOOG50000002086	1/2 - 1 Mile WNW
S111	MOOG50000002494	1/2 - 1 Mile SW
W112	MOOG50000002645	1/2 - 1 Mile SW
W113	MOOG50000002644	1/2 - 1 Mile SW
S114	MOOG50000002656	1/2 - 1 Mile SW
S115	MOOG50000002655	1/2 - 1 Mile SW
W116	MOOG50000002643	1/2 - 1 Mile SW
S117	MOOG50000002654	1/2 - 1 Mile SW
W118	MOOG50000002642	1/2 - 1 Mile SW
S119	MOOG50000002653	1/2 - 1 Mile SW
U120	MOOG50000001679	1/2 - 1 Mile WSW
S121	MOOG50000002652	1/2 - 1 Mile SW
V122	MOOG50000001693	1/2 - 1 Mile SW
V123	MOOG50000002493	1/2 - 1 Mile SW
W124	MOOG50000002187	1/2 - 1 Mile SW
Z125	MOOG50000002378	1/2 - 1 Mile WSW
V126	MOOG50000002522	1/2 - 1 Mile SW
W127	MOOG50000002190	1/2 - 1 Mile SW
AA128	MOOG50000002797	1/2 - 1 Mile NW
V129	MOOG50000002523	1/2 - 1 Mile SW
Y130	MOOG50000002781	1/2 - 1 Mile West
AB131	MOOG50000002186	1/2 - 1 Mile SW
U132	MOOG50000002622	1/2 - 1 Mile WSW
U133	MOOG50000002621	1/2 - 1 Mile WSW
AC134	MOOG50000001691	1/2 - 1 Mile WSW
U135	MOOG50000002623	1/2 - 1 Mile WSW
V136	MOOG50000002521	1/2 - 1 Mile SW
S137	MOOG50000002381	1/2 - 1 Mile SW
Z138	MOOG50000001676	1/2 - 1 Mile WSW
V139	MOOG50000002194	1/2 - 1 Mile SW
AC140	MOOG50000002608	1/2 - 1 Mile WSW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AC141	MOOG50000002607	1/2 - 1 Mile WSW
AA142	MOOG50000002118	1/2 - 1 Mile WNW
AC143	MOOG50000001674	1/2 - 1 Mile WSW
AD144	MOOG50000002457	1/2 - 1 Mile SW
AB146	MOOG50000001689	1/2 - 1 Mile SW
AB145	MOOG50000001688	1/2 - 1 Mile SW
AB147	MOOG50000001690	1/2 - 1 Mile SW
AC148	MOOG50000001680	1/2 - 1 Mile WSW
AE149	MOOG50000002534	1/2 - 1 Mile WSW
AA150	MOOG50000002077	1/2 - 1 Mile NW
Y151	MOOG50000002349	1/2 - 1 Mile West
X152	MOOG50000002722	1/2 - 1 Mile West
AD153	MOOG50000001684	1/2 - 1 Mile SSW
154	MOOG50000002725	1/2 - 1 Mile West
AC155	MOOG50000002614	1/2 - 1 Mile WSW
AC156	MOOG50000002613	1/2 - 1 Mile WSW
AA157	MOOG50000002787	1/2 - 1 Mile NW
Y158	MOOG50000002728	1/2 - 1 Mile WNW
AF159	MOOG50000002638	1/2 - 1 Mile SW
Z160	MOOG50000002651	1/2 - 1 Mile WSW
Z161	MOOG50000002650	1/2 - 1 Mile WSW
Z162	MOOG50000002649	1/2 - 1 Mile WSW
AF163	MOOG50000002637	1/2 - 1 Mile SW
Z164	MOOG50000002202	1/2 - 1 Mile SW
AF165	MOOG50000002636	1/2 - 1 Mile SW
166	MOOG50000001643	1/2 - 1 Mile NNW
AG167	MOOG50000002348	1/2 - 1 Mile WNW
AF168	MOOG50000002764	1/2 - 1 Mile SW
AF169	MOOG50000002639	1/2 - 1 Mile SW
AF170	MOOG50000002667	1/2 - 1 Mile SW
AB171	MOOG50000001687	1/2 - 1 Mile SW
172	MOOG50000001174	1/2 - 1 Mile ESE
AF173	MOOG50000002640	1/2 - 1 Mile SW
AB174	MOOG50000002524	1/2 - 1 Mile SW
AF175	MOOG50000002641	1/2 - 1 Mile SW
AF176	MOOG50000002185	1/2 - 1 Mile SW
AB177	MOOG50000002526	1/2 - 1 Mile SW
AD178	MOOG50000001683	1/2 - 1 Mile SW
AF179	MOOG50000002197	1/2 - 1 Mile SW
AF180	MOOG50000002189	1/2 - 1 Mile SW
AA181	MOOG50000002796	1/2 - 1 Mile NW
AB182	MOOG50000002844	1/2 - 1 Mile SW
AC183	MOOG50000002535	1/2 - 1 Mile WSW
184	MOOG50000001893	1/2 - 1 Mile NW
AD185	MOOG50000002531	1/2 - 1 Mile SW
AB186	MOOG50000002525	1/2 - 1 Mile SW
187	MOOG50000001617	1/2 - 1 Mile NE
AB188	MOOG50000002193	1/2 - 1 Mile SW
AD189	MOOG50000002530	1/2 - 1 Mile SW
AE190	MOOG50000002495	1/2 - 1 Mile WSW
AD191	MOOG50000002532	1/2 - 1 Mile SW
AH192	MOOG50000002584	1/2 - 1 Mile SW
AI193	MOOG50000002905	1/2 - 1 Mile WNW
AG194	MOOG50000002126	1/2 - 1 Mile WNW
AI195	MOOG50000002904	1/2 - 1 Mile WNW
AI196	MOOG50000002127	1/2 - 1 Mile WNW

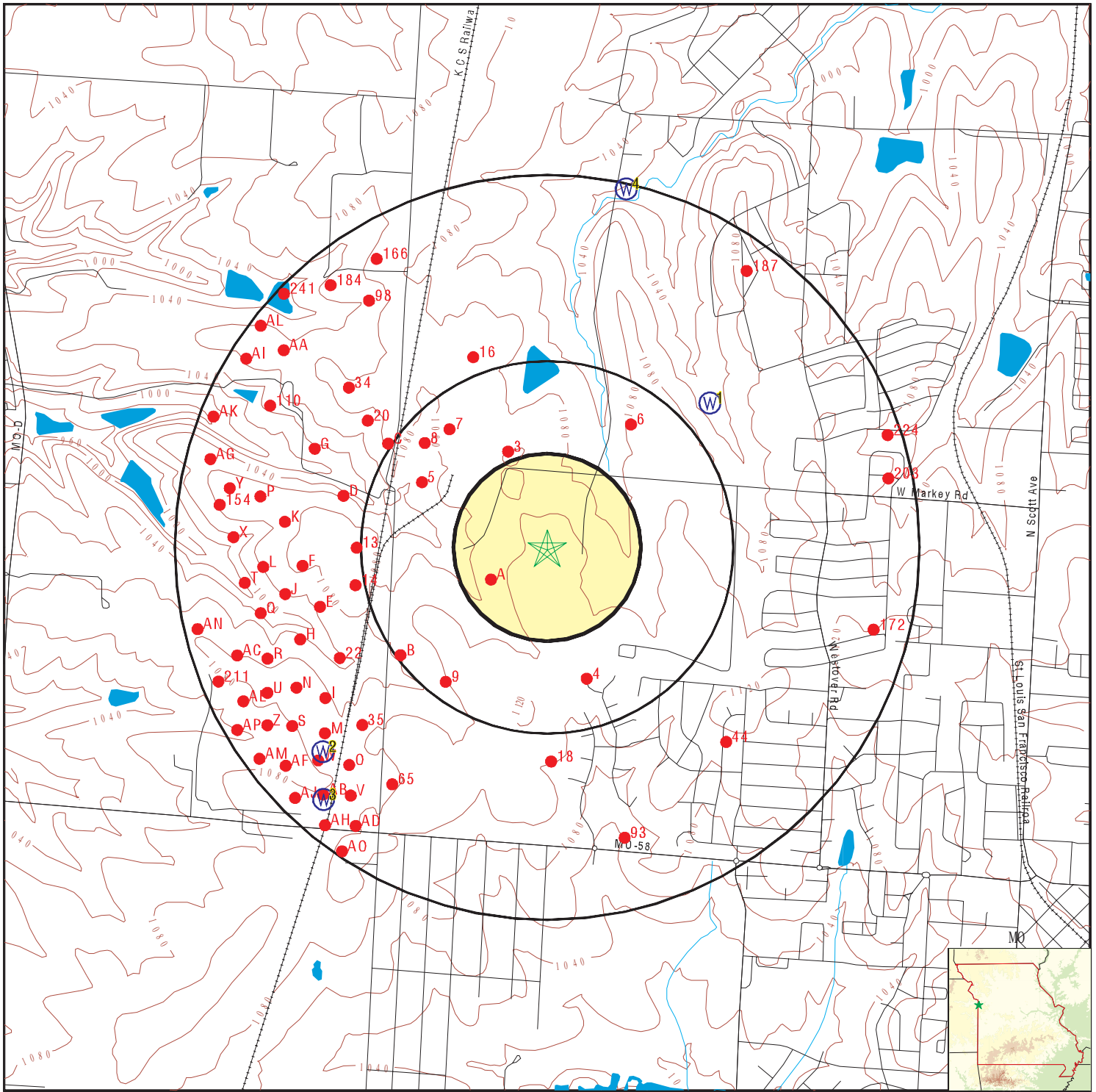
# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AH197	MOOG50000002184	1/2 - 1 Mile SW
Z198	MOOG50000002380	1/2 - 1 Mile WSW
AJ199	MOOG50000001682	1/2 - 1 Mile SW
AE200	MOOG50000002620	1/2 - 1 Mile WSW
AE201	MOOG50000002619	1/2 - 1 Mile WSW
AD202	MOOG50000002491	1/2 - 1 Mile SSW
203	MOOG50000001609	1/2 - 1 Mile ENE
AJ204	MOOG50000002183	1/2 - 1 Mile SW
AK205	MOOG50000002111	1/2 - 1 Mile WNW
AG206	MOOG50000002356	1/2 - 1 Mile WNW
AI207	MOOG50000001640	1/2 - 1 Mile NW
AL208	MOOG50000002792	1/2 - 1 Mile NW
AF209	MOOG50000002330	1/2 - 1 Mile SW
AJ210	MOOG50000002528	1/2 - 1 Mile SW
211	MOOG50000002533	1/2 - 1 Mile WSW
AI212	MOOG50000002893	1/2 - 1 Mile NW
AM213	MOOG50000002635	1/2 - 1 Mile SW
AI214	MOOG50000002892	1/2 - 1 Mile NW
AJ215	MOOG50000002529	1/2 - 1 Mile SW
AF216	MOOG50000002492	1/2 - 1 Mile SW
AM217	MOOG50000002634	1/2 - 1 Mile SW
AM218	MOOG50000002332	1/2 - 1 Mile SW
AM219	MOOG50000002633	1/2 - 1 Mile SW
AJ220	MOOG50000002527	1/2 - 1 Mile SW
AK221	MOOG50000002089	1/2 - 1 Mile WNW
AJ222	MOOG50000002583	1/2 - 1 Mile SW
AM223	MOOG50000002631	1/2 - 1 Mile SW
224	MOOG50000001610	1/2 - 1 Mile ENE
AM225	MOOG50000002632	1/2 - 1 Mile SW
AJ226	MOOG50000002192	1/2 - 1 Mile SW
AN228	MOOG50000001692	1/2 - 1 Mile WSW
AN227	MOOG50000001677	1/2 - 1 Mile WSW
AO229	MOOG50000002845	1/2 - 1 Mile SSW
AP230	MOOG50000002606	1/2 - 1 Mile WSW
AP231	MOOG50000002624	1/2 - 1 Mile WSW
AI232	MOOG50000002795	1/2 - 1 Mile WNW
AF233	MOOG50000002195	1/2 - 1 Mile SW
AI234	MOOG50000002119	1/2 - 1 Mile WNW
AJ235	MOOG50000001681	1/2 - 1 Mile SW
AL236	MOOG50000002115	1/2 - 1 Mile NW
AG237	MOOG50000002108	1/2 - 1 Mile WNW
AI238	MOOG50000002902	1/2 - 1 Mile WNW
AI239	MOOG50000002911	1/2 - 1 Mile WNW
AI240	MOOG50000002903	1/2 - 1 Mile WNW
241	MOOG50000001638	1/2 - 1 Mile NW
AH242	MOOG50000002366	1/2 - 1 Mile SW
AL243	MOOG50000002897	1/2 - 1 Mile NW
AO244	MOOG50000002550	1/2 - 1 Mile SW
AK245	MOOG50000002104	1/2 - 1 Mile WNW
AL246	MOOG50000002896	1/2 - 1 Mile NW
AO247	MOOG50000002489	1/2 - 1 Mile SW
AO248	MOOG50000002551	1/2 - 1 Mile SW
AH249	MOOG50000001891	1/2 - 1 Mile SW
AO250	MOOG50000002500	1/2 - 1 Mile SW



# PHYSICAL SETTING SOURCE MAP - 4635016.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells



SITE NAME: Markey Business Park  
 ADDRESS: Markey Road and Bales Road  
 Kansas City MO 64147  
 LAT/LONG: 38.827724 / 94.558338

CLIENT: Seagull Env. Technologies  
 CONTACT: Ryan M. Lunt  
 INQUIRY #: 4635016.2s  
 DATE: June 02, 2016 9:56 am

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**  
**NE**  
**1/2 - 1 Mile**  
**Lower**      **FED USGS**      **USGS40000696494**

Org. Identifier:	USGS-MO	Drainagearea value:	Not Reported
Formal name:	USGS Missouri Water Science Center	Contrib drainagearea:	Not Reported
Monloc Identifier:	USGS-385000094330001	Latitude:	38.8333413
Monloc name:	T46N R33W 03DC	Sourcemap scale:	24000
Monloc type:	Well	Horiz Acc measure units:	minutes
Monloc desc:	Not Reported	Vert measure val:	1048
Huc code:	10300101	Vertacc measure val:	10
Drainagearea Units:	Not Reported	Countrycode:	US
Contrib drainagearea units:	Not Reported		
Longitude:	-94.550232		
Horiz Acc measure:	1		
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83		
Vert measure units:	feet		
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from digital elevation model (DEM)		
Vert coord refsys:	NAVD88		
Aquifername:	Other aquifers		
Formation type:	Bluejacket Formation		
Aquifer type:	Confined multiple aquifer		
Construction date:	19340000	Welldepth:	790
Welldepth units:	ft	Wellholedepth:	790
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
1934-11-17	428		1934	428.00	

**2**  
**SW**  
**1/2 - 1 Mile**  
**Lower**      **MO WELLS**      **MOLOG1000019983**

Id:	028648	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Stname:	MISSOURI
Stabbrev:	MO	County:	CASS
Utm x:	363743		
Utm y:	4297739		
Latitude:	38.81977		
Longitude:	-94.5695		
Qtr3:	NW	Qtr2:	SE
Qtr1:	SE		
Section:	9		
Tnsp:	46		
Tnspdir:	Not Reported		
Rng:	33		
Rngdir:	W		
Plssx:	363243		
Plssy:	4298257		
Location p:	146		
Elev:	1076		
Idnum:	28648		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Swl:	0	Site id:	MOLOG1000019983
Quadrangle:	BELTON		
<b>Header Information:</b>			
Id:	028648	Well type:	Oil Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CASS
Fips:	037	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NW
Qtr2:	SE	Qtr1:	SE
Section:	09	Tnsp:	46
Tnspdir:	N	Rng:	33
Rngdir:	W		
Latitude:	38.81977		
Longitude:	-94.5695		
Utm x:	363743		
Utm y:	4297739		
Quadmap na:	BELTON	Ohio code:	38094G5
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	Not Reported
Typelog2:	S	Typelog3:	Not Reported
Ownerind:	0	Owner:	Stallings, E.W.
Leasenam:	Belton Unit I-AO	Driller:	Casady
Drldate:	1987/05/25	Permit:	4
Logdate:	1987/12/00	Logger:	Deason, K.
Elev:	1076		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	Not Reported		
Depthbed:	200		
Sampsav:	0	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	670	Formation :	KANSAS CITY GROUP
Formation1:	CHEROKEE GROUP		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	API OIL AND GAS FILE
Alagency1:	GS	Add databa:	037-20501
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	Y
Remarks:	#I-40 BELTON UNIT; 440' FSL, 880' FEL		
C total:	0	C plugind:	Not Reported
C remarks:	Not Reported		
<b>Strata Information:</b>			
Id:	028648	Stratordr:	0
Fmtop:	0		
Fmbot:	200		
Formation :	NO SAMPLES		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:

Id:	028648	Stratordr:	4800
Fmtp:	200		
Fmbot:	670		
Formation :	PENNSYLVANIAN SYSTEM		
Prmlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028648	Stratordr:	13500
Fmtp:	200		
Fmbot:	400		
Formation :	MISSOURIAN SERIES		
Prmlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028648	Stratordr:	15000
Fmtp:	200		
Fmbot:	210		
Formation :	KANSAS CITY GROUP		
Prmlith:	LIMESTONE	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028648	Stratordr:	18300
Fmtp:	200		
Fmbot:	210		
Formation :	HERTHA FORMATION		
Prmlith:	LIMESTONE	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:

Id:	028648	Stratordr:	18800
Fmtop:	210		
Fmbot:	400		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE		
Seclith:	SILTSTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028648	Stratordr:	19500
Fmtop:	400		
Fmbot:	670		
Formation :	DESMOINESIAN SERIES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028648	Stratordr:	19600
Fmtop:	400		
Fmbot:	590		
Formation :	MARMATON GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	LIMESTONE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028648	Stratordr:	23400
Fmtop:	590		
Fmbot:	670		
Formation :	CHEROKEE GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

**Strata Information:**

Id:	028648	Stratordr:	99900
Fmtop:	670		
Fmbot:	670		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

**Remarks:**

Id:	028648	Feature:	WP
Agency:	GS	Fileid:	H
Remarks:	Not Reported		

**3  
SW  
1/2 - 1 Mile  
Lower**

**MO WELLS      MOLOG1000019963**

Id:	028649	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Sname:	MISSOURI
Stabbrev:	MO	County:	CASS
Utm x:	363743		
Utm y:	4297533		
Latitude:	38.81791		
Longitude:	-94.56946		
Qtr3:	SW	Qtr2:	SE
Qtr1:	SE		
Section:	9		
Tnsp:	46		
Tnspdir:	Not Reported		
Rng:	33		
Rngdir:	W		
Plssx:	363243		
Plssy:	4298257		
Location p:	146		
Elev:	1082		
Idnum:	28649		
Swl:	0		
Quadrangle:	BELTON	Site id:	MOLOG1000019963

**Header Information:**

Id:	028649	Well type:	Oil Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CASS
Fips:	037	Sname:	MISSOURI
Stabbrev:	MO	Qtr3:	SW
Qtr2:	SE	Qtr1:	SE
Section:	09	Tnsp:	46
Tnspdir:	N	Rng:	33
Rngdir:	W		
Latitude:	38.81791		
Longitude:	-94.56946		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm x:	363743		
Utm y:	4297533		
Quadmap na:	BELTON	Ohio code:	38094G5
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	Not Reported
Typelog2:	S	Typelog3:	Not Reported
Ownerind:	0	Owner:	Stallings, E.
Leasenam:	Belton Unit AD-17	Driller:	Casady
Drldate:	1987/06/10	Permit:	Not Reported
Logdate:	1987/12/00	Logger:	Deason, K.
Elev:	1082		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	Not Reported		
Depthbed:	30		
Sampsav:	0	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	680	Formation :	KANSAS CITY GROUP
Formation1:	CHEROKEE GROUP		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	API OIL AND GAS FILE
Alagency1:	GS	Add databa:	037-20496
Addition 1:	Not Reported	Add data 1:	Not Reported
Alum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	#AD-17 BELTON UNIT; 1100' FSL, 660' FEL	C plugind:	N
C total:	0		
C remarks:	Not Reported		
 Construction Information:			
Id:	028649	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	198706
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	0		
Cas1diam:	0		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
TubePRES:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	KANSAS CITY GROUP
Formation1:	CHEROKEE GROUP		

Strata Information:			
Id:	028649	Stratordr:	0
Fmtp:	0		
Fmbot:	30		
Formation :	NO SAMPLES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	028649	Stratordr:	4800
Fmtp:	30		
Fmbot:	680		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	028649	Stratordr:	13500
Fmtp:	30		
Fmbot:	425		
Formation :	MISSOURIAN SERIES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
Rmk20: Not Reported

Strata Information:

Id:	028649	Stratordr:	15000
Fmtop:	30		
Fmbot:	240		
Formation :	KANSAS CITY GROUP		
Primlith:	SHALE		
Seclith:	LIMESTONE	Minlith:	SAND
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028649	Stratordr:	18800
Fmtop:	240		
Fmbot:	425		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028649	Stratordr:	19500
Fmtop:	425		
Fmbot:	680		
Formation :	DESMOINESIAN SERIES		
Primlith:	SAND		
Seclith:	SHALE	Minlith:	LIMESTONE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	028649	Stratordr:	99900
Fmtop:	680		
Fmbot:	680		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0  
 Rmk20: Not Reported

Remarks:  
 Id: 028649                      Feature: WP  
 Agency: GS                      Fileid: C  
 Remarks: Not Reported

**4**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000696553**

Org. Identifier:	USGS-MO		
Formal name:	USGS Missouri Water Science Center		
Monloc Identifier:	USGS-385030094331501		
Monloc name:	T46N R33W 16A 2		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	10300101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	38.8416746
Longitude:	-94.5543989	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	minutes
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1019
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from digital elevation model (DEM)		
Vert coord refsys:	NAVD88	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Pennsylvanian System		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	32
Welldepth units:	ft	Wellholedepth:	32
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**A1**  
**SW**  
**1/8 - 1/4 Mile**

**OIL\_GAS      MOOG5000002176**

County:	Cass	Api number:	037-20484
Company na:	SHILOH RESOURCES INC.	Lease name:	RICHARDS-GEBAUR AFB
Well name:	4	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	01-NOV-85	Date permi:	10-MAY-85
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	1760 FNL
Survey I00:	1500 FWL	Latitude d:	38
Latitude m:	50	Latitude s:	23
Longitude :	94	Longitud00:	34
Longitud01:	16	Latitude00:	38.82609
Longitud02:	-94.5608	Proposed t:	900
Actual tot:	890		
Well comme:	Not Reported		
Site id:	MOOG5000002176		

**A2**  
**WSW**  
**1/8 - 1/4 Mile**

**OIL\_GAS      MOOG5000002177**

County:	Cass	Api number:	037-20485
Company na:	SHILOH RESOURCES INC.	Lease name:	RICHARDS-GEBAUR AFB
Well name:	3	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	01-NOV-85	Date permi:	10-MAY-85
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	1480 FNL
Survey I00:	1320 FWL	Latitude d:	38
Latitude m:	36	Latitude s:	39.9
Longitude :	94	Longitud00:	26
Longitud01:	26.1	Latitude00:	38.82685
Longitud02:	-94.56147	Proposed t:	900
Actual tot:	800		
Well comme:	Not Reported		
Site id:	MOOG5000002177		

**3**  
**NNW**  
**1/4 - 1/2 Mile**

**OIL\_GAS      MOOG50000001616**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00469
Company na:	KNOCHE	Lease name:	FEE
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	3	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	50	Latitude s:	8.7
Longitude :	94	Longitud00:	32
Longitud01:	20.6	Latitude00:	38.831454
Longitud02:	-94.56028	Proposed t:	0
Actual tot:	680		
Well comme:	DRY, SHOW OIL & GAS		
Site id:	MOOG50000001616		

4

**SSE**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MOOG50000002072**

County:	Cass	Api number:	037-20230
Company na:	C & W OIL PRODUCERS	Lease name:	CHERRYVALE FARMS
Well name:	1	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	25-NOV-81	Date permi:	20-NOV-81
Spud date:	24-NOV-81	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	2437 FSL
Survey I00:	2405 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	3
Longitude :	94	Longitud00:	34
Longitud01:	19	Latitude00:	38.82261
Longitud02:	-94.55637	Proposed t:	500
Actual tot:	619		
Well comme:	Not Reported		
Site id:	MOOG50000002072		

5

**WNW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MOOG50000001700**

County:	Cass	Api number:	037-00553
Company na:	KNOCHE	Lease name:	HALE
Well name:	7	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	23.5
Longitude :	94	Longitud00:	32
Longitud01:	23.2	Latitude00:	38.830259
Longitud02:	-94.564566	Proposed t:	0
Actual tot:	626		
Well comme:	DRY, SHOWS OIL		
Site id:	MOOG50000001700		

**6**

**NE**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MOOG50000001615**

County:	Cass	Api number:	037-00468
Company na:	KING	Lease name:	FEE
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	3	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	50	Latitude s:	22.6
Longitude :	94	Longitud00:	32
Longitud01:	27.7	Latitude00:	38.832508
Longitud02:	-94.554167	Proposed t:	0
Actual tot:	790		
Well comme:	Not Reported		
Site id:	MOOG50000001615		

**7**

**NW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MOOG50000001620**

County:	Cass	Api number:	037-00473
Company na:	KNOCHE	Lease name:	FEE
Well name:	4	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	3	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	50	Latitude s:	36.4
Longitude :	94	Longitud00:	32
Longitud01:	44.5	Latitude00:	38.832322
Longitud02:	-94.5632	Proposed t:	0
Actual tot:	373		
Well comme:	Not Reported		
Site id:	MOOG50000001620		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**8**

**NW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MOOG5000001618**

County:	Cass	Api number:	037-00471
Company na:	KNOCHE	Lease name:	FEE
Well name:	2	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	3	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	55.5
Longitude :	94	Longitud00:	32
Longitud01:	29	Latitude00:	38.831787
Longitud02:	-94.564432	Proposed t:	0
Actual tot:	360		
Well comme:	Not Reported		
Site id:	MOOG5000001618		

**9**

**SW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MOOG5000002479**

County:	Cass	Api number:	037-20856
Company na:	ALTAVISTA ENERGY, INC.	Lease name:	MISEMER
Well name:	A-2	Well type:	Stratigraphic Test
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	09-MAY-12	Date permi:	15-FEB-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	2250 FSL
Survey I00:	4455 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	21
Longitude :	94	Longitud00:	33
Longitud01:	49	Latitude00:	38.82249
Longitud02:	-94.56339	Proposed t:	750
Actual tot:	740		
Well comme:	Not Reported		
Site id:	MOOG5000002479		

**B10**

**SW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**MOOG5000002247**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20561
Company na:	VEREXCO	Lease name:	ASJES
Well name:	1	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	08-NOV-93	Date permi:	15-APR-93
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	2567 FSL
Survey I00:	200 FWL	Latitude d:	38
Latitude m:	30	Latitude s:	24
Longitude :	94	Longitud00:	5
Longitud01:	1	Latitude00:	38.82348
Longitud02:	-94.56557	Proposed t:	800
Actual tot:	800		
Well comme:	Not Reported		
Site id:	MOOG50000002247		

**B11  
SW  
1/4 - 1/2 Mile**

**OIL\_GAS      MOOG50000002042**

County:	Cass	Api number:	037-20183
Company na:	W.P. MOORE, INC.	Lease name:	ASJES
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	19-JUN-82	Date permi:	06-MAY-81
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	2567 FSL
Survey I00:	165 FWL	Latitude d:	38
Latitude m:	32	Latitude s:	19
Longitude :	94	Longitud00:	35
Longitud01:	20	Latitude00:	38.82358
Longitud02:	-94.56571	Proposed t:	700
Actual tot:	800		
Well comme:	Not Reported		
Site id:	MOOG50000002042		

**C12  
WNW  
1/4 - 1/2 Mile**

**OIL\_GAS      MOOG50000001630**

County:	Cass	Api number:	037-00483
Company na:	KNOCHE	Lease name:	HALE
Well name:	8	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	39.1
Longitude :	94	Longitud00:	27
Longitud01:	45.7	Latitude00:	38.831572
Longitud02:	-94.566003	Proposed t:	0
Actual tot:	707		
Well comme:	DRY, SHOWS OIL & GAS		
Site id:	MOOG50000001630		

**13**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002445**

County:	Cass	Api number:	037-20801
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-27	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	11-JUL-07
Spud date:	04-JAN-08	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1320 FNL
Survey I00:	520 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	12
Longitude :	94	Longitud00:	36
Longitud01:	27	Latitude00:	38.82771
Longitud02:	-94.56782	Proposed t:	700
Actual tot:	684		
Well comme:	OGC-12 2009, 08, PERMITTED AS OIL CNVT TO INJECTION		
Site id:	MOOG50000002445		

**14**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002081**

County:	Cass	Api number:	037-20241
Company na:	JENNINGS DRILLING CO.	Lease name:	DUNLAP
Well name:	4	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	24-AUG-89	Date permi:	18-DEC-81
Spud date:	28-JAN-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1843 FNL
Survey I00:	495 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	9
Longitude :	94	Longitud00:	34
Longitud01:	15	Latitude00:	38.82625
Longitud02:	-94.56788	Proposed t:	630
Actual tot:	640		
Well comme:	Not Reported		
Site id:	MOOG50000002081		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**C15**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001627**

County:	Cass	Api number:	037-00480
Company na:	KNOCHE	Lease name:	HALE
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	51.3
Longitude :	94	Longitud00:	31
Longitud01:	17.3	Latitude00:	38.831954
Longitud02:	-94.566509	Proposed t:	0
Actual tot:	448		
Well comme:	Not Reported		
Site id:	MOOG50000001627		

**16**  
**NNW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001619**

County:	Cass	Api number:	037-00472
Company na:	KNOCHE	Lease name:	FEE
Well name:	3	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	3	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	46	Latitude s:	29.6
Longitude :	94	Longitud00:	21
Longitud01:	11.4	Latitude00:	38.835127
Longitud02:	-94.562018	Proposed t:	0
Actual tot:	698		
Well comme:	Not Reported		
Site id:	MOOG50000001619		

**D17**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001697**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00550
Company na:	KNOCHE	Lease name:	HALE
Well name:	6	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	6.2
Longitude :	94	Longitud00:	34
Longitud01:	10	Latitude00:	38.829647
Longitud02:	-94.568256	Proposed t:	0
Actual tot:	483		
Well comme:	DRY, SHOWS GAS		
Site id:	MOOG50000001697		

**18**  
**South**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002073**

County:	Cass	Api number:	037-20231
Company na:	C & W OIL PRODUCERS	Lease name:	CHERRYVALE FARMS
Well name:	2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	26-NOV-81	Date permi:	20-NOV-81
Spud date:	25-NOV-81	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	1227 FSL
Survey I00:	2406 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	40
Longitude :	94	Longitud00:	34
Longitud01:	33	Latitude00:	38.81939
Longitud02:	-94.55814	Proposed t:	500
Actual tot:	619		
Well comme:	Not Reported		
Site id:	MOOG50000002073		

**D19**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001696**

County:	Cass	Api number:	037-00549
Company na:	KNOCHE	Lease name:	HALE
Well name:	4	Well type:	Gas(Conventional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	25.3
Longitude :	94	Longitud00:	34
Longitud01:	24.4	Latitude00:	38.829814
Longitud02:	-94.568702	Proposed t:	0
Actual tot:	424		
Well comme:	Not Reported		
Site id:	MOOG50000001696		

**20  
NW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001629**

County:	Cass	Api number:	037-00482
Company na:	KNOCHE	Lease name:	HALE
Well name:	5	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	12
Longitude :	94	Longitud00:	30
Longitud01:	14.6	Latitude00:	38.832657
Longitud02:	-94.56727	Proposed t:	0
Actual tot:	482		
Well comme:	Not Reported		
Site id:	MOOG50000001629		

**E21  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002066**

County:	Cass	Api number:	037-20218
Company na:	COLT ENERGY, INC.	Lease name:	DUNLAP
Well name:	1	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	09-OCT-81
Spud date:	09-OCT-81	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3163 FSL
Survey I00:	825 FEL	Latitude d:	38
Latitude m:	45	Latitude s:	15
Longitude :	94	Longitud00:	31
Longitud01:	55	Latitude00:	38.82535
Longitud02:	-94.56905	Proposed t:	630
Actual tot:	630		
Well comme:	Not Reported		
Site id:	MOOG50000002066		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**22**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002499**

County:	Cass	Api number:	037-20876
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-35	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	01-MAR-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2435 FSL
Survey I00:	665 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	24.3
Longitude :	94	Longitud00:	34
Longitud01:	7.2	Latitude00:	38.823416
Longitud02:	-94.56866	Proposed t:	700
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002499		

**F23**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002721**

County:	Cass	Api number:	037-21120
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-20	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	03-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3795 FSL
Survey I00:	1155 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	38.2
Longitude :	94	Longitud00:	34
Longitud01:	12.5	Latitude00:	38.82727
Longitud02:	-94.57014	Proposed t:	700
Actual tot:	715		
Well comme:	Not Reported		
Site id:	MOOG50000002721		

**F24**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002080**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20240
Company na:	COLT ENERGY, INC.	Lease name:	DUNLAP
Well name:	3	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	18-DEC-81
Spud date:	01-FEB-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1843 FNL
Survey I00:	1155 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	22
Longitude :	94	Longitud00:	34
Longitud01:	32	Latitude00:	38.82642
Longitud02:	-94.57006	Proposed t:	588
Actual tot:	588		
Well comme:	Not Reported		
Site id:	MOOG50000002080		

**F25  
West  
1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002717**

County:	Cass	Api number:	037-21115
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-15	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	27-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3465 FSL
Survey I00:	1155 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	34.9
Longitude :	94	Longitud00:	34
Longitud01:	12.7	Latitude00:	38.82637
Longitud02:	-94.57019	Proposed t:	700
Actual tot:	705		
Well comme:	Not Reported		
Site id:	MOOG50000002717		

**E26  
WSW  
1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002713**

County:	Cass	Api number:	037-21110
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-10	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	03-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3135 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1155 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	31.7
Longitude :	94	Longitud00:	34
Longitud01:	12.9	Latitude00:	38.82547
Longitud02:	-94.57025	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 555-568, 581-591		
Site id:	MOOG50000002713		

**F27**  
West  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002783**

County:	Cass	Api number:	037-21198
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-16	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-SEP-13	Date permi:	03-JUL-13
Spud date:	05-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1320 FNL
Survey I00:	1320 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	39.9
Longitude :	94	Longitud00:	34
Longitud01:	14.4	Latitude00:	38.827761
Longitud02:	-94.57067	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 601-603, 604-610		
Site id:	MOOG50000002783		

**G28**  
WNW  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002140**

County:	Cass	Api number:	037-20402
Company na:	BARBOSA, LOUIS	Lease name:	BARBOSA
Well name:	1	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	08-NOV-83
Spud date:	03-DEC-83	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	122 FNL
Survey I00:	1170 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	26
Longitude :	94	Longitud00:	34
Longitud01:	28	Latitude00:	38.83109
Longitud02:	-94.56991	Proposed t:	600
Actual tot:	580		
Well comme:	inherited by Rhonda Hillier (1989), see file		
Site id:	MOOG50000002140		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**F29**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002785**

County:	Cass	Api number:	037-21202
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-12	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	16-SEP-13	Date permi:	03-JUL-13
Spud date:	06-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1650 FNL
Survey I00:	1320 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	36.6
Longitude :	94	Longitud00:	34
Longitud01:	14.6	Latitude00:	38.82685
Longitud02:	-94.570728	Proposed t:	700
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002785		

**H30**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002082**

County:	Cass	Api number:	037-20242
Company na:	COLT ENERGY, INC.	Lease name:	DUNLAP
Well name:	5	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	18-DEC-81
Spud date:	03-FEB-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2503 FNL
Survey I00:	1155 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	41
Longitude :	94	Longitud00:	34
Longitud01:	12	Latitude00:	38.82454
Longitud02:	-94.57027	Proposed t:	630
Actual tot:	630		
Well comme:	Not Reported		
Site id:	MOOG50000002082		

**I31**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002340**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20674
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-29	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	17-JUN-99
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1980 FSL
Survey I00:	660 FEL	Latitude d:	38
Latitude m:	32	Latitude s:	54
Longitude :	94	Longitud00:	34
Longitud01:	49	Latitude00:	38.82207
Longitud02:	-94.56869	Proposed t:	650
Actual tot:	637		
Well comme:	ADDTNL PERF 576-583		
Site id:	MOOG50000002340		

**H32**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002710**

County:	Cass	Api number:	037-21105
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-5	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	21-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2805 FSL
Survey I00:	1155 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	28.4
Longitude :	94	Longitud00:	34
Longitud01:	13.1	Latitude00:	38.82456
Longitud02:	-94.57031	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002710		

**J33**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002778**

County:	Cass	Api number:	037-21191
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-8	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	03-SEP-13	Date permi:	03-JUL-13
Spud date:	04-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1980 FNL



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1320 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	33.4
Longitude :	94	Longitud00:	34
Longitud01:	14.8	Latitude00:	38.825955
Longitud02:	-94.570795	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 568-572, 573-582		
Site id:	MOOG50000002778		

**34  
NW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001641**

County:	Cass	Api number:	037-00494
Company na:	KNOCHE	Lease name:	SMITH, C.
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	36
Longitude :	94	Longitud00:	34
Longitud01:	35	Latitude00:	38.833941
Longitud02:	-94.56821	Proposed t:	0
Actual tot:	450		
Well comme:	Not Reported		
Site id:	MOOG50000001641		

**35  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002444**

County:	Cass	Api number:	037-20800
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-24	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	11-JUL-07
Spud date:	27-DEC-07	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1540 FSL
Survey I00:	300 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	12
Longitude :	94	Longitud00:	32
Longitud01:	16	Latitude00:	38.82081
Longitud02:	-94.56754	Proposed t:	700
Actual tot:	682		
Well comme:	Not Reported		
Site id:	MOOG50000002444		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**I36**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001695**

County:	Cass	Api number:	037-00548
Company na:	KNOCHE	Lease name:	HALE
Well name:	2	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	28
Longitude :	94	Longitud00:	34
Longitud01:	32	Latitude00:	38.822415
Longitud02:	-94.569203	Proposed t:	0
Actual tot:	547		
Well comme:	Not Reported		
Site id:	MOOG50000001695		

**G37**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001628**

County:	Cass	Api number:	037-00481
Company na:	KNOCHE	Lease name:	HALE
Well name:	3	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	19.4
Longitude :	94	Longitud00:	30
Longitud01:	40.2	Latitude00:	38.832038
Longitud02:	-94.56991	Proposed t:	0
Actual tot:	580		
Well comme:	DRY, SHOWS OIL & GAS		
Site id:	MOOG50000001628		

**K38**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002724**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21124
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-24	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	28-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4125 FSL
Survey I00:	1485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	41.7
Longitude :	94	Longitud00:	34
Longitud01:	16.5	Latitude00:	38.82826
Longitud02:	-94.57124	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002724		

**H39**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002498**

County:	Cass	Api number:	037-20875
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-34	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	09-JUL-12	Date permi:	01-MAR-12
Spud date:	04-MAY-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2435 FSL
Survey I00:	1076 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	24.6
Longitude :	94	Longitud00:	34
Longitud01:	12.4	Latitude00:	38.8235
Longitud02:	-94.57011	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002498		

**F40**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002720**

County:	Cass	Api number:	037-21119
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-19	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	27-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3795 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	38.5
Longitude :	94	Longitud00:	34
Longitud01:	16.6	Latitude00:	38.82736
Longitud02:	-94.57129	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 573-583, 589-599		
Site id:	MOOG50000002720		

**K41**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002727**

County:	Cass	Api number:	037-21129
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-29	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	04-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4455 FSL
Survey I00:	1485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	45
Longitude :	94	Longitud00:	34
Longitud01:	16.2	Latitude00:	38.82916
Longitud02:	-94.57117	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002727		

**H42**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002775**

County:	Cass	Api number:	037-21188
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-4	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	06-SEP-13	Date permi:	03-JUL-13
Spud date:	10-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2310 FNL
Survey I00:	1320 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	30.2
Longitude :	94	Longitud00:	34
Longitud01:	15	Latitude00:	38.825047
Longitud02:	-94.57085	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 551-554, 557-563		
Site id:	MOOG50000002775		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**J43**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002716**

County:	Cass	Api number:	037-21114
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-14	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	21-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3465 FSL
Survey I00:	1485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	35.2
Longitude :	94	Longitud00:	34
Longitud01:	16.8	Latitude00:	38.82644
Longitud02:	-94.57134	Proposed t:	700
Actual tot:	715		
Well comme:	2 intervals, 564-574, 580-588		
Site id:	MOOG50000002716		

**44**  
**SE**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001701**

County:	Cass	Api number:	037-00554
Company na:	BUCKLEY	Lease name:	JAMES
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	10.6
Longitude :	94	Longitud00:	34
Longitud01:	9.5	Latitude00:	38.82015
Longitud02:	-94.549424	Proposed t:	0
Actual tot:	618		
Well comme:	D & A, SHOWS OIL & GAS		
Site id:	MOOG50000001701		

**H45**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001678**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00531
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	7	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	46	Latitude s:	58.3
Longitude :	94	Longitud00:	35
Longitud01:	38.6	Latitude00:	38.8235
Longitud02:	-94.57047	Proposed t:	0
Actual tot:	595		
Well comme:	D & A OIL WELL		
Site id:	MOOG50000001678		

**J46  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002079**

County:	Cass	Api number:	037-20239
Company na:	COLT ENERGY, INC.	Lease name:	DUNLAP
Well name:	2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	18-DEC-81
Spud date:	05-FEB-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2173 FNL
Survey I00:	1485 FEL	Latitude d:	38
Latitude m:	46	Latitude s:	13
Longitude :	94	Longitud00:	31
Longitud01:	40	Latitude00:	38.82557
Longitud02:	-94.57138	Proposed t:	670
Actual tot:	640		
Well comme:	Not Reported		
Site id:	MOOG50000002079		

**J47  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002712**

County:	Cass	Api number:	037-21109
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-9	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	15-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3135 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	32
Longitude :	94	Longitud00:	34
Longitud01:	17.1	Latitude00:	38.82554
Longitud02:	-94.57142	Proposed t:	700
Actual tot:	715		
Well comme:	2 intervals, 547-560, 565-578		
Site id:	MOOG50000002712		

**H48**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002612**

County:	Cass	Api number:	037-21005
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI 4-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	20-DEC-12
Spud date:	07-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2470 FSL
Survey I00:	1272 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25.2
Longitude :	94	Longitud00:	34
Longitud01:	14.7	Latitude00:	38.82368
Longitud02:	-94.57077	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002612		

**K49**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002782**

County:	Cass	Api number:	037-21195
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-19	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	04-SEP-13	Date permi:	03-JUL-13
Spud date:	08-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	990 FNL
Survey I00:	1650 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	43.4
Longitude :	94	Longitud00:	34
Longitud01:	18.4	Latitude00:	38.828738
Longitud02:	-94.571775	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 591-595, 599-605		
Site id:	MOOG50000002782		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**H50**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002611**

County:	Cass	Api number:	037-21004
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-04	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	20-DEC-12
Spud date:	03-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2470 FSL
Survey I00:	1285 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25.2
Longitude :	94	Longitud00:	34
Longitud01:	14.9	Latitude00:	38.82367
Longitud02:	-94.57082	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002611		

**I51**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002666**

County:	Cass	Api number:	037-21059
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-95	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	21-DEC-12	Date permi:	21-DEC-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1808 FSL
Survey I00:	884 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.3
Longitude :	94	Longitud00:	34
Longitud01:	10.3	Latitude00:	38.82176
Longitud02:	-94.56952	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002666		

**I52**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002665**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21058
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-94	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	21-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1793 FSL
Survey I00:	883 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.2
Longitude :	94	Longitud00:	34
Longitud01:	10.3	Latitude00:	38.82172
Longitud02:	-94.56952	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 545-549, 551-557		
Site id:	MOOG50000002665		

**L53**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002784**

County:	Cass	Api number:	037-21201
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-11	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	06-SEP-13	Date permi:	03-JUL-13
Spud date:	15-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1650 FNL
Survey I00:	1650 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	36.9
Longitude :	94	Longitud00:	34
Longitud01:	18.8	Latitude00:	38.826925
Longitud02:	-94.571889	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002784		

**I54**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002664**

County:	Cass	Api number:	037-21057
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-93	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	20-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1777 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	880 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18
Longitude :	94	Longitud00:	34
Longitud01:	10.3	Latitude00:	38.82168
Longitud02:	-94.56952	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002664		

**H55**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002709**

County:	Cass	Api number:	037-21104
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-4	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	15-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2805 FSL
Survey I00:	1485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	28.7
Longitude :	94	Longitud00:	34
Longitud01:	17.2	Latitude00:	38.82464
Longitud02:	-94.57146	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002709		

**M56**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002379**

County:	Cass	Api number:	037-20727
Company na:	KANSAS RESOURCE EXPLORATION, INC.	Lease name:	BELTON UNIT
Well name:	AD-23	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	03-SEP-03
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1540 FSL
Survey I00:	700 FEL	Latitude d:	38
Latitude m:	37	Latitude s:	35
Longitude :	94	Longitud00:	30
Longitud01:	59	Latitude00:	38.8209
Longitud02:	-94.56893	Proposed t:	650
Actual tot:	655		
Well comme:	D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011		
Site id:	MOOG50000002379		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**J57**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002777**

County:	Cass	Api number:	037-21190
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-7	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	03-SEP-13	Date permi:	03-JUL-13
Spud date:	06-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1980 FNL
Survey I00:	1650 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	33.7
Longitude :	94	Longitud00:	34
Longitud01:	19	Latitude00:	38.826022
Longitud02:	-94.571945	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG5000002777		

**N58**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002341**

County:	Cass	Api number:	037-20675
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-28	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	07-JUL-99
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1980 FSL
Survey I00:	1100 FEL	Latitude d:	38
Latitude m:	31	Latitude s:	43
Longitude :	94	Longitud00:	34
Longitud01:	54	Latitude00:	38.82222
Longitud02:	-94.57026	Proposed t:	650
Actual tot:	640		
Well comme:	Not Reported		
Site id:	MOOG5000002341		

**N59**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002618**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21011
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI 11-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	16-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2206 FSL
Survey I00:	1285 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	22.6
Longitude :	94	Longitud00:	34
Longitud01:	25.1	Latitude00:	38.82294
Longitud02:	-94.57085	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002618		

**N60  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002617**

County:	Cass	Api number:	037-21010
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-11	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	06-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2210 FSL
Survey I00:	1287 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	22.6
Longitude :	94	Longitud00:	34
Longitud01:	15.1	Latitude00:	38.82295
Longitud02:	-94.57086	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002617		

**O61  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002443**

County:	Cass	Api number:	037-20799
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-18	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	11-JUL-07
Spud date:	02-JAN-08	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1100 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	300 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	55
Longitude :	94	Longitud00:	31
Longitud01:	57	Latitude00:	38.81958
Longitud02:	-94.56762	Proposed t:	700
Actual tot:	686		
Well comme:	Not Reported		
Site id:	MOOG50000002443		

**I62  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002385**

County:	Cass	Api number:	037-20733
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-19	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	22-SEP-03
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1740 FSL
Survey I00:	980 FEL	Latitude d:	38
Latitude m:	42	Latitude s:	53
Longitude :	94	Longitud00:	30
Longitud01:	51	Latitude00:	38.82151
Longitud02:	-94.56983	Proposed t:	700
Actual tot:	665		
Well comme:	OGC-12 2009, 08, 07, 06, NEW OIL WELL CONVERTED TO INJECTION		
Site id:	MOOG50000002385		

**P63  
West  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002109**

County:	Cass	Api number:	037-20363
Company na:	COLT ENERGY, INC.	Lease name:	DUNLAP
Well name:	10	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	14-JUL-82
Spud date:	20-JUL-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	825 FNL
Survey I00:	1831 FEL	Latitude d:	38
Latitude m:	32	Latitude s:	5
Longitude :	94	Longitud00:	33
Longitud01:	48	Latitude00:	38.8293
Longitud02:	-94.57225	Proposed t:	600
Actual tot:	666		
Well comme:	Not Reported		
Site id:	MOOG50000002109		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**Q64**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002774**

County:	Cass	Api number:	037-21187
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-3	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	04-SEP-13	Date permi:	03-JUL-13
Spud date:	08-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2310 FNL
Survey I00:	1650 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	30.4
Longitude :	94	Longitud00:	34
Longitud01:	19.3	Latitude00:	38.825125
Longitud02:	-94.572014	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002774		

**65**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002107**

County:	Cass	Api number:	037-20357
Company na:	PRAIRIE ENERGY CORP.	Lease name:	EFFERTZ BROS.
Well name:	1	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	01-AUG-84	Date permi:	02-JUN-82
Spud date:	17-AUG-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	733 FSL
Survey I00:	165 FWL	Latitude d:	38
Latitude m:	33	Latitude s:	16
Longitude :	94	Longitud00:	35
Longitud01:	5	Latitude00:	38.8185
Longitud02:	-94.56605	Proposed t:	600
Actual tot:	700		
Well comme:	Clark-Miller Oil Pool		
Site id:	MOOG50000002107		

**L66**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002719**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21118
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-18	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	09-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3795 FSL
Survey I00:	1815 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	38.7
Longitude :	94	Longitud00:	34
Longitud01:	20.8	Latitude00:	38.82742
Longitud02:	-94.57245	Proposed t:	700
Actual tot:	705		
Well comme:	Not Reported		
Site id:	MOOG50000002719		

**R67  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002497**

County:	Cass	Api number:	037-20874
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-33	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-FEB-13	Date permi:	01-MAR-12
Spud date:	03-APR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2435 FSL
Survey I00:	1476 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25
Longitude :	94	Longitud00:	34
Longitud01:	17.4	Latitude00:	38.82361
Longitud02:	-94.5715	Proposed t:	700
Actual tot:	760		
Well comme:	Not Reported		
Site id:	MOOG50000002497		

**P68  
WNW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001699**

County:	Cass	Api number:	037-00552
Company na:	KNOCHE	Lease name:	WEIDEMAN
Well name:	1	Well type:	Gas(Conversional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	6.2
Longitude :	94	Longitud00:	34
Longitud01:	10	Latitude00:	38.830092
Longitud02:	-94.57219	Proposed t:	0
Actual tot:	468		
Well comme:	Not Reported		
Site id:	MOOG50000001699		

**L69**  
West  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002715**

County:	Cass	Api number:	037-21113
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-13	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	13-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3465 FSL
Survey I00:	1815 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	35.4
Longitude :	94	Longitud00:	34
Longitud01:	21	Latitude00:	38.82651
Longitud02:	-94.57251	Proposed t:	700
Actual tot:	705		
Well comme:	Not Reported		
Site id:	MOOG50000002715		

**P70**  
WNW  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002730**

County:	Cass	Api number:	037-21133
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-33	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	29-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4785 FSL
Survey I00:	1815 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	48.5
Longitude :	94	Longitud00:	34
Longitud01:	20.2	Latitude00:	38.83013
Longitud02:	-94.57227	Proposed t:	700
Actual tot:	715		
Well comme:	Not Reported		
Site id:	MOOG50000002730		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**M71**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002660**

County:	Cass	Api number:	037-21053
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-89	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	02-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1393 FSL
Survey I00:	860 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.2
Longitude :	94	Longitud00:	34
Longitud01:	10.3	Latitude00:	38.82062
Longitud02:	-94.56952	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002660		

**M72**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002659**

County:	Cass	Api number:	037-21052
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-88	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	31-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1379 FSL
Survey I00:	858 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.1
Longitude :	94	Longitud00:	34
Longitud01:	10.2	Latitude00:	38.82058
Longitud02:	-94.56951	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002659		

**M73**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002658**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21051
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-87	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	16-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1365 FSL
Survey I00:	853 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14
Longitude :	94	Longitud00:	34
Longitud01:	10.2	Latitude00:	38.82054
Longitud02:	-94.5695	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002658		

**M74  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002657**

County:	Cass	Api number:	037-21050
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-86	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	04-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1353 FSL
Survey I00:	853 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	13.8
Longitude :	94	Longitud00:	34
Longitud01:	10.2	Latitude00:	38.82051
Longitud02:	-94.5695	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 519-521, 537-539		
Site id:	MOOG50000002657		

**Q75  
West  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002711**

County:	Cass	Api number:	037-21108
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-8	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	14-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3135 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1815 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	32.2
Longitude :	94	Longitud00:	34
Longitud01:	21.2	Latitude00:	38.82561
Longitud02:	-94.57257	Proposed t:	700
Actual tot:	705		
Well comme:	Not Reported		
Site id:	MOOG50000002711		

**M76**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002765**

County:	Cass	Api number:	037-21168
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD 17-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	30-NOV-12	Date permi:	13-NOV-12
Spud date:	15-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1155 FSL
Survey I00:	662 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	11.7
Longitude :	94	Longitud00:	34
Longitud01:	7.9	Latitude00:	38.81991
Longitud02:	-94.56886	Proposed t:	700
Actual tot:	742		
Well comme:	Not Reported		
Site id:	MOOG50000002765		

**O77**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001685**

County:	Cass	Api number:	037-00538
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	14	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	50.4
Longitude :	94	Longitud00:	34
Longitud01:	21.2	Latitude00:	38.81938
Longitud02:	-94.568224	Proposed t:	0
Actual tot:	615		
Well comme:	OLD OIL WELL		
Site id:	MOOG50000001685		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**N78**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002663**

County:	Cass	Api number:	037-21056
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-92	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	18-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1813 FSL
Survey I00:	1300 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.7
Longitude :	94	Longitud00:	34
Longitud01:	15.5	Latitude00:	38.82186
Longitud02:	-94.57098	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002663		

**S79**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002339**

County:	Cass	Api number:	037-20673
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-22	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	15-JUN-99
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1540 FSL
Survey I00:	1100 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	26
Longitude :	94	Longitud00:	34
Longitud01:	28	Latitude00:	38.82101
Longitud02:	-94.5703	Proposed t:	650
Actual tot:	660		
Well comme:	Not Reported		
Site id:	MOOG50000002339		

**L80**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002779**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21192
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-10	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-SEP-13	Date permi:	03-JUL-13
Spud date:	05-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1650 FNL
Survey I00:	1980 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	37.1
Longitude :	94	Longitud00:	34
Longitud01:	22.9	Latitude00:	38.826994
Longitud02:	-94.573045	Proposed t:	700
Actual tot:	700		
Well comme:	3 intervals, 582-586, 588-590, 592-595		
Site id:	MOOG50000002779		

**N81  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002662**

County:	Cass	Api number:	037-21055
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-91	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	05-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1796 FSL
Survey I00:	1298 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.5
Longitude :	94	Longitud00:	34
Longitud01:	15.6	Latitude00:	38.82182
Longitud02:	-94.571	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 563-569, 589-593		
Site id:	MOOG50000002662		

**N82  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002661**

County:	Cass	Api number:	037-21054
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-90	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	01-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1780 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1294 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.4
Longitude :	94	Longitud00:	34
Longitud01:	15.5	Latitude00:	38.82178
Longitud02:	-94.57097	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 509-512, 515-519		
Site id:	MOOG50000002661		

**O83**

**SW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002188**

County:	Cass	Api number:	037-20496
Company na:	KANSAS RESOURCE EXPLORATION, INC.	Lease name:	BELTON UNIT
Well name:	AD-17	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	01-NOV-12	Date permi:	10-JUN-87
Spud date:	01-AUG-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1100 FSL
Survey I00:	660 FEL	Latitude d:	38
Latitude m:	44	Latitude s:	38
Longitude :	94	Longitud00:	31
Longitud01:	25	Latitude00:	38.81961
Longitud02:	-94.56883	Proposed t:	700
Actual tot:	680		
Well comme:	D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011		
Site id:	MOOG50000002188		

**P84**

**West**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002780**

County:	Cass	Api number:	037-21193
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-22	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-SEP-13	Date permi:	03-JUL-13
Spud date:	10-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	660 FNL
Survey I00:	1980 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	46.9
Longitude :	94	Longitud00:	34
Longitud01:	22.3	Latitude00:	38.829716
Longitud02:	-94.572873	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002780		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**O85**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002648**

County:	Cass	Api number:	037-21041
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-77	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	12-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	870 FSL
Survey I00:	453 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	8.8
Longitude :	94	Longitud00:	34
Longitud01:	5.4	Latitude00:	38.8191
Longitud02:	-94.56818	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 606-609, 611-615		
Site id:	MOOG50000002648		

**R86**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002609**

County:	Cass	Api number:	037-21002
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-03	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	20-DEC-12
Spud date:	22-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2465 FSL
Survey I00:	1687 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25.5
Longitude :	94	Longitud00:	34
Longitud01:	20	Latitude00:	38.82376
Longitud02:	-94.57223	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002609		

**Q87**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002708**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21103
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-3	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	08-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2805 FSL
Survey I00:	1815 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	28.9
Longitude :	94	Longitud00:	34
Longitud01:	21.5	Latitude00:	38.82471
Longitud02:	-94.57263	Proposed t:	700
Actual tot:	750		
Well comme:	Not Reported		
Site id:	MOOG50000002708		

**O88**

**SW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002647**

County:	Cass	Api number:	037-21040
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-76	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	12-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	856 FSL
Survey I00:	451 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	8.6
Longitude :	94	Longitud00:	34
Longitud01:	5.4	Latitude00:	38.81906
Longitud02:	-94.56818	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 589-596, 599-603		
Site id:	MOOG50000002647		

**R89**

**WSW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002610**

County:	Cass	Api number:	037-21003
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI 3-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	20-DEC-12
Spud date:	27-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2465 FSL



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1697 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25.5
Longitude :	94	Longitud00:	34
Longitud01:	20.2	Latitude00:	38.82376
Longitud02:	-94.57227	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002610		

**O90**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002191**

County:	Cass	Api number:	037-20499
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-34	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	28-JUN-88
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	880 FSL
Survey I00:	440 FEL	Latitude d:	38
Latitude m:	32	Latitude s:	27
Longitude :	94	Longitud00:	35
Longitud01:	50	Latitude00:	38.81901
Longitud02:	-94.56814	Proposed t:	700
Actual tot:	680		
Well comme:	OGC-12 2009, 08, 07, 06, D.E. EXPLORATION, INC. SOLD THE LEASE TO KRE ON 11/10/2011		
Site id:	MOOG50000002191		

**O91**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002646**

County:	Cass	Api number:	037-21039
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-75	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	01-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	842 FSL
Survey I00:	448 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	8.5
Longitude :	94	Longitud00:	34
Longitud01:	5.4	Latitude00:	38.81902
Longitud02:	-94.56817	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 537-539, 552-556		
Site id:	MOOG50000002646		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**T92**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002776**

County:	Cass	Api number:	037-21189
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-6	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	10-SEP-13	Date permi:	03-JUL-13
Spud date:	12-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1980 FNL
Survey I00:	1980 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	33.9
Longitude :	94	Longitud00:	34
Longitud01:	23.2	Latitude00:	38.826094
Longitud02:	-94.573112	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 573-575,		
Site id:	MOOG50000002776		

**93**  
**SSE**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002074**

County:	Cass	Api number:	037-20233
Company na:	C & W OIL PRODUCERS	Lease name:	CHERRYVALE FARMS
Well name:	4	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	30-NOV-81	Date permi:	20-NOV-81
Spud date:	28-NOV-81	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	10	Survey loc:	220 FSL
Survey I00:	1777 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	38
Longitude :	94	Longitud00:	34
Longitud01:	4	Latitude00:	38.81642
Longitud02:	-94.55448	Proposed t:	500
Actual tot:	560		
Well comme:	Not Reported		
Site id:	MOOG50000002074		

**U94**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002496**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20873
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-27	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	16-JUN-12	Date permi:	01-MAR-12
Spud date:	30-MAR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1985 FSL
Survey I00:	1476 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	20.5
Longitude :	94	Longitud00:	34
Longitud01:	18	Latitude00:	38.82236
Longitud02:	-94.57166	Proposed t:	700
Actual tot:	760		
Well comme:	PERF INTERVALS: 567-577, 586-614.		
Site id:	MOOG50000002496		

### M95

#### SW

#### 1/2 - 1 Mile

OIL\_GAS

MOOG50000002382

County:	Cass	Api number:	037-20730
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-26	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	15-SEP-03
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1320 FSL
Survey I00:	1420 FEL	Latitude d:	38
Latitude m:	37	Latitude s:	36
Longitude :	94	Longitud00:	34
Longitud01:	6	Latitude00:	38.82035
Longitud02:	-94.57	Proposed t:	700
Actual tot:	655		
Well comme:	OGC-12 2009, 08, 07, 06, NEW OIL WELL CONVERTED TO INJECTION,		
Site id:	MOOG50000002382		

### V96

#### SW

#### 1/2 - 1 Mile

OIL\_GAS

MOOG50000002458

County:	Cass	Api number:	037-20822
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-12	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	03-JAN-08
Spud date:	23-JAN-08	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	660 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	220 FEL	Latitude d:	38
Latitude m:	34	Latitude s:	17
Longitude :	94	Longitud00:	35
Longitud01:	22	Latitude00:	38.8184
Longitud02:	-94.567526	Proposed t:	700
Actual tot:	710		
Well comme:	Not Reported		
Site id:	MOOG50000002458		

**W97**

**SW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000001686**

County:	Cass	Api number:	037-00539
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	15	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	45	Latitude s:	38
Longitude :	94	Longitud00:	35
Longitud01:	1.6	Latitude00:	38.819625
Longitud02:	-94.569307	Proposed t:	0
Actual tot:	615		
Well comme:	DRY, SHOW OIL & GAS		
Site id:	MOOG50000001686		

**98**

**NW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000001642**

County:	Cass	Api number:	037-00495
Company na:	KNOCHE	Lease name:	SMITH, C.
Well name:	2	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	14.8
Longitude :	94	Longitud00:	34
Longitud01:	47	Latitude00:	38.837327
Longitud02:	-94.567207	Proposed t:	0
Actual tot:	484		
Well comme:	DRY		
Site id:	MOOG50000001642		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**Q99**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002773**

County:	Cass	Api number:	037-21186
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-SEP-13	Date permi:	03-JUL-13
Spud date:	05-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2310 FNL
Survey I00:	1980 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	30.7
Longitude :	94	Longitud00:	34
Longitud01:	23.4	Latitude00:	38.8252
Longitud02:	-94.573167	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002773		

**R100**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002616**

County:	Cass	Api number:	037-21009
Company na:	KANSAS RESOURCE EXPLORATION, LLC	Lease name:	BELTON UNIT
Well name:	ADI 10-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	21-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2192 FSL
Survey I00:	1690 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	22.7
Longitude :	94	Longitud00:	34
Longitud01:	20.2	Latitude00:	38.82299
Longitud02:	-94.57228	Proposed t:	650
Actual tot:	750		
Well comme:	Not Reported		
Site id:	MOOG50000002616		

**R101**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002615**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21008
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-10	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	02-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2198 FSL
Survey I00:	1695 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	22.8
Longitude :	94	Longitud00:	34
Longitud01:	20.3	Latitude00:	38.823
Longitud02:	-94.5723	Proposed t:	650
Actual tot:	750		
Well comme:	Not Reported		
Site id:	MOOG50000002615		

**S102**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002384**

County:	Cass	Api number:	037-20732
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-18	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	22-SEP-03
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1740 FSL
Survey I00:	1420 FEL	Latitude d:	38
Latitude m:	41	Latitude s:	10
Longitude :	94	Longitud00:	30
Longitud01:	56	Latitude00:	38.82162
Longitud02:	-94.5714	Proposed t:	700
Actual tot:	660		
Well comme:	OGC-12 2009, 08, 07, 06, NEW OIL WELL CONVERTED TO INJECTION		
Site id:	MOOG50000002384		

**X103**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002723**

County:	Cass	Api number:	037-21122
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-22	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	20-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4125 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	42.2
Longitude :	94	Longitud00:	34
Longitud01:	24.8	Latitude00:	38.8284
Longitud02:	-94.57355	Proposed t:	700
Actual tot:	700		
Well comme:	2 intervals, 581-587, 554-574		
Site id:	MOOG50000002723		

**X104**  
West  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002718**

County:	Cass	Api number:	037-21117
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-17	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	19-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3795 FSL
Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	38.96
Longitude :	94	Longitud00:	34
Longitud01:	24.9	Latitude00:	38.82749
Longitud02:	-94.5736	Proposed t:	700
Actual tot:	715		
Well comme:	Not Reported		
Site id:	MOOG50000002718		

**P105**  
West  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002726**

County:	Cass	Api number:	037-21127
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-27	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	05-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4455 FSL
Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	45.5
Longitude :	94	Longitud00:	34
Longitud01:	24.6	Latitude00:	38.8293
Longitud02:	-94.57349	Proposed t:	700
Actual tot:	715		
Well comme:	2 intervals, 578-585, 601-605		
Site id:	MOOG50000002726		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**R106**  
**WSW**  
1/2 - 1 Mile

**OIL\_GAS** **MOOG50000001673**

County:	Cass	Api number:	037-00526
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	2	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	45	Latitude s:	49.3
Longitude :	94	Longitud00:	34
Longitud01:	55	Latitude00:	38.82302
Longitud02:	-94.572449	Proposed t:	0
Actual tot:	481		
Well comme:	DRY, SHOWS GAS		
Site id:	MOOG50000001673		

**R107**  
**WSW**  
1/2 - 1 Mile

**OIL\_GAS** **MOOG50000002536**

County:	Cass	Api number:	037-20913
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-32	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	28-JUN-12	Date permi:	18-APR-12
Spud date:	19-APR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2408 FSL
Survey I00:	1896 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25
Longitude :	94	Longitud00:	34
Longitud01:	22	Latitude00:	38.8236
Longitud02:	-94.5728	Proposed t:	700
Actual tot:	760		
Well comme:	Not Reported		
Site id:	MOOG50000002536		

**T108**  
**West**  
1/2 - 1 Mile

**OIL\_GAS** **MOOG50000002714**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21112
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-12	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	16-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	3465 FSL
Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	35.7
Longitude :	94	Longitud00:	34
Longitud01:	25.2	Latitude00:	38.82659
Longitud02:	-94.57367	Proposed t:	700
Actual tot:	682		
Well comme:	Not Reported		
Site id:	MOOG50000002714		

**Y109  
WNW  
1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002729**

County:	Cass	Api number:	037-21132
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-32	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	28-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4785 FSL
Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	48.8
Longitude :	94	Longitud00:	34
Longitud01:	24.3	Latitude00:	38.83021
Longitud02:	-94.57342	Proposed t:	700
Actual tot:	715		
Well comme:	Not Reported		
Site id:	MOOG50000002729		

**110  
WNW  
1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002086**

County:	Cass	Api number:	037-20262
Company na:	COLT ENERGY, INC.	Lease name:	WORKMAN
Well name:	2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	22-JAN-82
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	622 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1856 FEL	Latitude d:	38
Latitude m:	34	Latitude s:	23
Longitude :	94	Longitud00:	33
Longitud01:	35	Latitude00:	38.83324
Longitud02:	-94.57213	Proposed t:	800
Actual tot:	800		
Well comme:	SITE INSPECTED, NO WELL HWB		
Site id:	MOOG50000002086		

**S111**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002494**

County:	Cass	Api number:	037-20871
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	AD 16-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	27-APR-12	Date permi:	01-MAR-12
Spud date:	02-MAR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1159 FSL
Survey I00:	1086 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	12.1
Longitude :	94	Longitud00:	34
Longitud01:	13.2	Latitude00:	38.82002
Longitud02:	-94.57033	Proposed t:	700
Actual tot:	762		
Well comme:	PERF INTERVALS: 526-566, 576-606.		
Site id:	MOOG50000002494		

**W112**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002645**

County:	Cass	Api number:	037-21038
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-74	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	19-DEC-12	Date permi:	19-DEC-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	953 FSL
Survey I00:	883 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.9
Longitude :	94	Longitud00:	34
Longitud01:	10.8	Latitude00:	38.81942
Longitud02:	-94.56967	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002645		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**W113**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002644**

County:	Cass	Api number:	037-21037
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-73	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	14-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	938 FSL
Survey I00:	882 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.7
Longitude :	94	Longitud00:	34
Longitud01:	10.8	Latitude00:	38.81938
Longitud02:	-94.56967	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002644		

**S114**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002656**

County:	Cass	Api number:	037-21049
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-85	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	17-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1428 FSL
Survey I00:	1334 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	15
Longitude :	94	Longitud00:	34
Longitud01:	16.2	Latitude00:	38.82083
Longitud02:	-94.57117	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 509-513, 519-525		
Site id:	MOOG50000002656		

**S115**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002655**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21048
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-84	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	14-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1413 FSL
Survey I00:	1333 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.9
Longitude :	94	Longitud00:	34
Longitud01:	16.2	Latitude00:	38.8208
Longitud02:	-94.57116	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002655		

**W116  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002643**

County:	Cass	Api number:	037-21036
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-72	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	13-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	923 FSL
Survey I00:	879 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.6
Longitude :	94	Longitud00:	34
Longitud01:	10.7	Latitude00:	38.81934
Longitud02:	-94.56966	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002643		

**S117  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002654**

County:	Cass	Api number:	037-21047
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-83	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	03-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1402 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1331 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.7
Longitude :	94	Longitud00:	34
Longitud01:	16.2	Latitude00:	38.82076
Longitud02:	-94.57116	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002654		

**W118**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002642**

County:	Cass	Api number:	037-21035
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-71	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	01-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	908 FSL
Survey I00:	874 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.5
Longitude :	94	Longitud00:	34
Longitud01:	10.7	Latitude00:	38.8193
Longitud02:	-94.56965	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002642		

**S119**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002653**

County:	Cass	Api number:	037-21046
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-82	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	01-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1389 FSL
Survey I00:	1332 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.6
Longitude :	94	Longitud00:	34
Longitud01:	16.2	Latitude00:	38.82072
Longitud02:	-94.57116	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002653		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**U120**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001679**

County:	Cass	Api number:	037-00532
Company na:	KNOCHE	Lease name:	ABBHEY
Well name:	8	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	46	Latitude s:	58.3
Longitude :	94	Longitud00:	35
Longitud01:	38.6	Latitude00:	38.822565
Longitud02:	-94.572522	Proposed t:	0
Actual tot:	588		
Well comme:	OLD OIL WELL		
Site id:	MOOG50000001679		

**S121**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002652**

County:	Cass	Api number:	037-21045
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-81	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	20-DEC-12
Spud date:	13-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1372 FSL
Survey I00:	1326 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.4
Longitude :	94	Longitud00:	34
Longitud01:	16.1	Latitude00:	38.82068
Longitud02:	-94.57115	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002652		

**V122**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001693**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00546
Company na:	STALLINGS	Lease name:	ABBEY
Well name:	22	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	28.2
Longitude :	94	Longitud00:	34
Longitud01:	57.3	Latitude00:	38.818276
Longitud02:	-94.568366	Proposed t:	0
Actual tot:	610		
Well comme:	PRODUCED OIL		
Site id:	MOOG50000001693		

**V123  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002493**

County:	Cass	Api number:	037-20870
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD 11-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	27-APR-12	Date permi:	01-MAR-12
Spud date:	12-MAR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	600 FSL
Survey I00:	534 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	6.1
Longitude :	94	Longitud00:	34
Longitud01:	6.6	Latitude00:	38.81836
Longitud02:	-94.5685	Proposed t:	700
Actual tot:	750		
Well comme:	PERF INTERVALS: 540-570, 580-610.		
Site id:	MOOG50000002493		

**W124  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002187**

County:	Cass	Api number:	037-20495
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-16	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	04-APR-12	Date permi:	10-JUN-87
Spud date:	01-AUG-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1100 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1100 FEL	Latitude d:	38
Latitude m:	47	Latitude s:	17
Longitude :	94	Longitud00:	31
Longitud01:	40	Latitude00:	38.81981
Longitud02:	-94.57045	Proposed t:	700
Actual tot:	900		
Well comme:	HORIZONTAL WELL, 0-538' vertical D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011 TO KRED		
Site id:	MOOG50000002187		

**Z125**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002378**

County:	Cass	Api number:	037-20726
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-21	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	03-SEP-03
Spud date:	11-SEP-03	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1540 FSL
Survey I00:	1500 FEL	Latitude d:	38
Latitude m:	36	Latitude s:	54
Longitude :	94	Longitud00:	31
Longitud01:	22	Latitude00:	38.82108
Longitud02:	-94.57169	Proposed t:	650
Actual tot:	660		
Well comme:	Not Reported		
Site id:	MOOG50000002378		

**V126**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002522**

County:	Cass	Api number:	037-20899
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-43	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	21-APR-13	Date permi:	07-MAY-12
Spud date:	20-JUL-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	411 FSL
Survey I00:	409 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4.4
Longitude :	94	Longitud00:	34
Longitud01:	4.7	Latitude00:	38.817888
Longitud02:	-94.567972	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002522		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**W127**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG5000002190**

County:	Cass	Api number:	037-20498
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-33	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	28-JUN-88
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	880 FSL
Survey I00:	880 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14
Longitude :	94	Longitud00:	34
Longitud01:	22	Latitude00:	38.81913
Longitud02:	-94.56975	Proposed t:	700
Actual tot:	680		
Well comme:	OGC-12 2009, 08, 07, 06, D.E. EXPLORATION, INC. SOLD THE LEASE TO KRE ON 11/10/2011		
Site id:	MOOG5000002190		

**AA128**  
**NW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG5000002797**

County:	Cass	Api number:	037-21214
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	E-20	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	04-MAR-13	Date permi:	04-MAR-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1320 FSL
Survey I00:	1650 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	6.4
Longitude :	94	Longitud00:	34
Longitud01:	15.9	Latitude00:	38.835122
Longitud02:	-94.571103	Proposed t:	700
Actual tot:	0		
Well comme:	3/01/13 : Sumbitted OGC-3/4 waiting for review by Unit Chief, 3/04/13: Approved, scanned, emailed, filed		
Site id:	MOOG5000002797		

**V129**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG5000002523**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20900
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-44	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	21-APR-13	Date permi:	07-MAY-12
Spud date:	22-JUL-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	409 FSL
Survey I00:	447 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4.4
Longitude :	94	Longitud00:	34
Longitud01:	5.1	Latitude00:	38.817888
Longitud02:	-94.568083	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002523		

**Y130  
West  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002781**

County:	Cass	Api number:	037-21194
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KRI-21	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	12-SEP-13	Date permi:	03-JUL-13
Spud date:	09-JUL-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	660 FNL
Survey I00:	2310 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	47.2
Longitude :	94	Longitud00:	34
Longitud01:	26.5	Latitude00:	38.829788
Longitud02:	-94.574028	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002781		

**AB131  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002186**

County:	Cass	Api number:	037-20494
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-11	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	19-MAR-12	Date permi:	10-JUN-87
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	660 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	575 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	38
Longitude :	94	Longitud00:	28
Longitud01:	58	Latitude00:	38.81847
Longitud02:	-94.56901	Proposed t:	700
Actual tot:	953		
Well comme:	HORIZONTAL WELL, 0-560' vertical D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011 TO KRED		
Site id:	MOOG50000002186		

**U132**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002622**

County:	Cass	Api number:	037-21015
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI 17-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	13-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1752 FSL
Survey I00:	1695 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.4
Longitude :	94	Longitud00:	34
Longitud01:	20.6	Latitude00:	38.82179
Longitud02:	-94.57238	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002622		

**U133**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002621**

County:	Cass	Api number:	037-21014
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-17	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	06-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1756 FSL
Survey I00:	1700 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.5
Longitude :	94	Longitud00:	34
Longitud01:	20.6	Latitude00:	38.8218
Longitud02:	-94.57239	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002621		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AC134**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001691**

County:	Cass	Api number:	037-00544
Company na:	KNOCHE	Lease name:	ABBHEY
Well name:	20	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	47.3
Longitude :	94	Longitud00:	34
Longitud01:	7.3	Latitude00:	38.82372
Longitud02:	-94.573459	Proposed t:	0
Actual tot:	605		
Well comme:	DRY, SHOWS GAS		
Site id:	MOOG50000001691		

**U135**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002623**

County:	Cass	Api number:	037-21016
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI 17-3	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	17-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1749 FSL
Survey I00:	1702 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.4
Longitude :	94	Longitud00:	34
Longitud01:	20.6	Latitude00:	38.82178
Longitud02:	-94.572401	Proposed t:	0
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002623		

**V136**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002521**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20898
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-42	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	07-MAY-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	382 FSL
Survey I00:	446 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4.1
Longitude :	94	Longitud00:	34
Longitud01:	5.1	Latitude00:	38.817805
Longitud02:	-94.568083	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002521		

**S137  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002381**

County:	Cass	Api number:	037-20729
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-25	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	15-SEP-03
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1320 FSL
Survey I00:	990 FEL	Latitude d:	38
Latitude m:	39	Latitude s:	13.3
Longitude :	94	Longitud00:	34
Longitud01:	4	Latitude00:	38.82049
Longitud02:	-94.57145	Proposed t:	700
Actual tot:	660		
Well comme:	OGC-12 2009, 08, 07, 06, NEW OIL WELL CONVERTED TO INJECTION,		
Site id:	MOOG50000002381		

**Z138  
WSW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001676**

County:	Cass	Api number:	037-00529
Company na:	KNOCHE	Lease name:	ABBAY
Well name:	5	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	47	Latitude s:	17
Longitude :	94	Longitud00:	35
Longitud01:	16.6	Latitude00:	38.821273
Longitud02:	-94.572162	Proposed t:	0
Actual tot:	507		
Well comme:	DRY, SHOWS GAS		
Site id:	MOOG50000001676		

**V139**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002194**

County:	Cass	Api number:	037-20502
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-41	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	28-JUN-88
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	440 FSL
Survey I00:	440 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	33
Longitude :	94	Longitud00:	29
Longitud01:	2	Latitude00:	38.81781
Longitud02:	-94.56827	Proposed t:	700
Actual tot:	680		
Well comme:	OGC-12 2009, 08, 07, 06, D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011		
Site id:	MOOG50000002194		

**AC140**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002608**

County:	Cass	Api number:	037-21001
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI 2-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	20-DEC-12	Date permi:	20-DEC-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2475 FSL
Survey I00:	2094 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25.9
Longitude :	94	Longitud00:	34
Longitud01:	25.4	Latitude00:	38.82386
Longitud02:	-94.57371	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002608		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AC141**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002607**

County:	Cass	Api number:	037-21000
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-02	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	20-DEC-12
Spud date:	27-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2475 FSL
Survey I00:	2110 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25.9
Longitude :	94	Longitud00:	34
Longitud01:	25.4	Latitude00:	38.82386
Longitud02:	-94.57372	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002607		

**AA142**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002118**

County:	Cass	Api number:	037-20375
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	1-C	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	20-FEB-13	Date permi:	05-NOV-82
Spud date:	01-DEC-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1136 FSL
Survey I00:	1819 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	6
Longitude :	94	Longitud00:	34
Longitud01:	59	Latitude00:	38.83464
Longitud02:	-94.57196	Proposed t:	620
Actual tot:	640		
Well comme:	DE ACQUIRED LEASE FROM COLT ENERGY LATTER PART OF 2003, ORIG OPERATOR PRAIRIE ENERGY CORP. // AL		
Site id:	MOOG50000002118		

**AC143**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001674**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00527
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	3	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	47	Latitude s:	18.5
Longitude :	94	Longitud00:	34
Longitud01:	21.2	Latitude00:	38.824231
Longitud02:	-94.573968	Proposed t:	0
Actual tot:	472		
Well comme:	Not Reported		
Site id:	MOOG50000001674		

### AD144

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002457

County:	Cass	Api number:	037-20821
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-06	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	03-JAN-08
Spud date:	31-JAN-08	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	220 FSL
Survey I00:	220 FEL	Latitude d:	38
Latitude m:	34	Latitude s:	16
Longitude :	94	Longitud00:	35
Longitud01:	5	Latitude00:	38.817194
Longitud02:	-94.567499	Proposed t:	700
Actual tot:	708		
Well comme:	Not Reported		
Site id:	MOOG50000002457		

### AB146

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000001689

County:	Cass	Api number:	037-00542
Company na:	STALLINGS	Lease name:	ABBEY
Well name:	18	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	49.8
Longitude :	94	Longitud00:	34
Longitud01:	47	Latitude00:	38.818391
Longitud02:	-94.569446	Proposed t:	0
Actual tot:	603		
Well comme:	PRODUCED OIL		
Site id:	MOOG50000001689		

### AB145

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000001688

County:	Cass	Api number:	037-00541
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	17	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	48.3
Longitude :	94	Longitud00:	34
Longitud01:	19.8	Latitude00:	38.818391
Longitud02:	-94.569446	Proposed t:	0
Actual tot:	604		
Well comme:	OLD OIL WELL		
Site id:	MOOG50000001688		

### AB147

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000001690

County:	Cass	Api number:	037-00543
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	19	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	28
Longitude :	94	Longitud00:	34
Longitud01:	32	Latitude00:	38.818391
Longitud02:	-94.569446	Proposed t:	0
Actual tot:	615		
Well comme:	180' OF OIL		
Site id:	MOOG50000001690		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**AC148**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001680**

County:	Cass	Api number:	037-00533
Company na:	STALLINGS	Lease name:	ABBEEY
Well name:	9	Well type:	Observation
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	46	Latitude s:	57.4
Longitude :	94	Longitud00:	35
Longitud01:	21.8	Latitude00:	38.822748
Longitud02:	-94.573355	Proposed t:	0
Actual tot:	595		
Well comme:	Not Reported		
Site id:	MOOG50000001680		

**AE149**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002534**

County:	Cass	Api number:	037-20911
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-26	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	13-JUN-12	Date permi:	18-APR-12
Spud date:	25-APR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1965 FSL
Survey I00:	1900 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	20
Longitude :	94	Longitud00:	34
Longitud01:	23	Latitude00:	38.8222
Longitud02:	-94.5731	Proposed t:	700
Actual tot:	770		
Well comme:	PERF INTERVALS: 568-604, 619-627.		
Site id:	MOOG50000002534		

**AA150**  
**NW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002077**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20236
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	3-A	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	15-DEC-81
Spud date:	30-DEC-81	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1645 FSL
Survey I00:	1520 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	34
Longitude :	94	Longitud00:	34
Longitud01:	12	Latitude00:	38.83598
Longitud02:	-94.57087	Proposed t:	700
Actual tot:	640		
Well comme:	DE ACQUIRED LEASE FROM COLT LATTER PART OF 2003, ORIGINAL OPERATOR PRAIRIE ENERGY CORP. // ALTA		
Site id:	MOOG50000002077		

**Y151**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002349**

County:	Cass	Api number:	037-20684
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	R-07	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	01-MAY-00
Spud date:	01-MAY-00	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4670 FSL
Survey I00:	2485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	47
Longitude :	94	Longitud00:	34
Longitud01:	28	Latitude00:	38.82982
Longitud02:	-94.57451	Proposed t:	650
Actual tot:	650		
Well comme:	RLS TO FOLLOW, LOCATION UPDATED ON 10-08-2013, LOVELAND		
Site id:	MOOG50000002349		

**X152**  
**West**  
**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002722**

County:	Cass	Api number:	037-21121
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-21	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	08-NOV-12
Spud date:	30-APR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4125 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	2475 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	42.5
Longitude :	94	Longitud00:	34
Longitud01:	28.9	Latitude00:	38.82847
Longitud02:	-94.57471	Proposed t:	700
Actual tot:	700		
Well comme:	Not Reported		
Site id:	MOOG50000002722		

### AD153

#### SSW

1/2 - 1 Mile

OIL\_GAS

MOOG50000001684

County:	Cass	Api number:	037-00537
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	13	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	47	Latitude s:	14.3
Longitude :	94	Longitud00:	31
Longitud01:	26.6	Latitude00:	38.816866
Longitud02:	-94.567092	Proposed t:	0
Actual tot:	627		
Well comme:	OLD OIL WELL		
Site id:	MOOG50000001684		

### 154

#### West

1/2 - 1 Mile

OIL\_GAS

MOOG50000002725

County:	Cass	Api number:	037-21126
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-26	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	04-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4455 FSL
Survey I00:	2475 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	45.7
Longitude :	94	Longitud00:	34
Longitud01:	28.7	Latitude00:	38.82938
Longitud02:	-94.57464	Proposed t:	700
Actual tot:	715		
Well comme:	2 intervals, 545-553, 573-589		
Site id:	MOOG50000002725		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**AC155**  
**WSW**  
1/2 - 1 Mile

OIL\_GAS MOOG50000002614

County:	Cass	Api number:	037-21007
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI 9-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	20-DEC-12	Date permi:	19-DEC-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2179 FSL
Survey I00:	2115 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	22.9
Longitude :	94	Longitud00:	34
Longitud01:	25.6	Latitude00:	38.82304
Longitud02:	-94.57377	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002614		

**AC156**  
**WSW**  
1/2 - 1 Mile

OIL\_GAS MOOG50000002613

County:	Cass	Api number:	037-21006
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-09	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	21-DEC-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2183 FSL
Survey I00:	2119 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	23
Longitude :	94	Longitud00:	34
Longitud01:	25.6	Latitude00:	38.82305
Longitud02:	-94.57378	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002613		

**AA157**  
**NW**  
1/2 - 1 Mile

OIL\_GAS MOOG50000002787

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21204
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	E-13	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	04-MAR-13	Date permi:	04-MAR-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1650 FSL
Survey I00:	1650 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	9.8
Longitude :	94	Longitud00:	34
Longitud01:	15.8	Latitude00:	38.836044
Longitud02:	-94.571045	Proposed t:	700
Actual tot:	0		
Well comme:	3/01/13 : Sumbitted OGC-3/4 waiting for review by Unit Chief, 3/04/13: Approved, scanned, emailed, filed		
Site id:	MOOG50000002787		

**Y158  
WNW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002728**

County:	Cass	Api number:	037-21131
Company na:	S & B OPERATING, LLC	Lease name:	BENJAMIN
Well name:	KR-31	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	17-DEC-12	Date permi:	08-NOV-12
Spud date:	30-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4785 FSL
Survey I00:	2475 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	49
Longitude :	94	Longitud00:	34
Longitud01:	28.5	Latitude00:	38.83028
Longitud02:	-94.57459	Proposed t:	700
Actual tot:	715		
Well comme:	2 intervals, 552-562, 581-597		
Site id:	MOOG50000002728		

**AF159  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002638**

County:	Cass	Api number:	037-21031
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-67	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	05-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	928 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1296 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	10
Longitude :	94	Longitud00:	34
Longitud01:	16	Latitude00:	38.81945
Longitud02:	-94.57112	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002638		

**Z160**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002651**

County:	Cass	Api number:	037-21044
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-80	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	20-DEC-12	Date permi:	20-DEC-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1406 FSL
Survey I00:	1689 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	15.1
Longitude :	94	Longitud00:	34
Longitud01:	20.7	Latitude00:	38.82086
Longitud02:	-94.57242	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002651		

**Z161**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002650**

County:	Cass	Api number:	037-21043
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-79	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	20-DEC-12
Spud date:	12-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1394 FSL
Survey I00:	1685 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.9
Longitude :	94	Longitud00:	34
Longitud01:	20.6	Latitude00:	38.82082
Longitud02:	-94.5724	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002650		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**Z162**  
**WSW**  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002649**

County:	Cass	Api number:	037-21042
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-78	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	20-DEC-12
Spud date:	25-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1379 FSL
Survey I00:	1679 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.8
Longitude :	94	Longitud00:	34
Longitud01:	20.6	Latitude00:	38.82078
Longitud02:	-94.57239	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002649		

**AF163**  
**SW**  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002637**

County:	Cass	Api number:	037-21030
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-66	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	04-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	910 FSL
Survey I00:	1295 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.8
Longitude :	94	Longitud00:	34
Longitud01:	16	Latitude00:	38.8194
Longitud02:	-94.57112	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002637		

**Z164**  
**SW**  
1/2 - 1 Mile

**OIL\_GAS      MOOG50000002202**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20510
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-15A	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	18-SEP-89
Spud date:	10-NOV-89	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1200 FSL
Survey I00:	1540 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	24
Longitude :	94	Longitud00:	33
Longitud01:	56	Latitude00:	38.8202
Longitud02:	-94.57191	Proposed t:	700
Actual tot:	667		
Well comme:	D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011		
Site id:	MOOG50000002202		

**AF165  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002636**

County:	Cass	Api number:	037-21029
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-65	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	01-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	898 FSL
Survey I00:	1295 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.7
Longitude :	94	Longitud00:	34
Longitud01:	16	Latitude00:	38.81936
Longitud02:	-94.57112	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002636		

**166  
NNW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001643**

County:	Cass	Api number:	037-00496
Company na:	KNOCHE	Lease name:	SMITH, C.
Well name:	3	Well type:	Gas(Conversional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	25.8
Longitude :	94	Longitud00:	34
Longitud01:	41	Latitude00:	38.838953
Longitud02:	-94.566828	Proposed t:	0
Actual tot:	592		
Well comme:	Not Reported		
Site id:	MOOG50000001643		

**AG167**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002348**

County:	Cass	Api number:	037-20683
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	R-06	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	18-APR-00
Spud date:	27-APR-00	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	5110 FSL
Survey I00:	2485 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	51
Longitude :	94	Longitud00:	34
Longitud01:	28	Latitude00:	38.83105
Longitud02:	-94.5745	Proposed t:	650
Actual tot:	620		
Well comme:	RLS TO FOLLOW, LOCATION UPDATED ON 10-08-2013, LOVELAND		
Site id:	MOOG50000002348		

**AF168**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002764**

County:	Cass	Api number:	037-21167
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	AD 15-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	27-NOV-12	Date permi:	13-NOV-12
Spud date:	19-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1488 FSL
Survey I00:	1083 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	11.7
Longitude :	94	Longitud00:	34
Longitud01:	18.3	Latitude00:	38.81991
Longitud02:	-94.57176	Proposed t:	700
Actual tot:	742		
Well comme:	Not Reported		
Site id:	MOOG50000002764		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AF169**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002639**

County:	Cass	Api number:	037-21032
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-68	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	16-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	862 FSL
Survey I00:	1293 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.4
Longitude :	94	Longitud00:	34
Longitud01:	16	Latitude00:	38.81927
Longitud02:	-94.57112	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002639		

**AF170**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002667**

County:	Cass	Api number:	037-21060
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD 10-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	30-NOV-12	Date permi:	13-NOV-12
Spud date:	15-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	682 FSL
Survey I00:	1112 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	7.5
Longitude :	94	Longitud00:	34
Longitud01:	13.9	Latitude00:	38.81874
Longitud02:	-94.57052	Proposed t:	700
Actual tot:	742		
Well comme:	PERF INTERVALS: 540-580, 590-600.		
Site id:	MOOG50000002667		

**AB171**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001687**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00540
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	16	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	3.8
Longitude :	94	Longitud00:	34
Longitud01:	9	Latitude00:	38.817746
Longitud02:	-94.569183	Proposed t:	0
Actual tot:	608		
Well comme:	OLD OIL WELL		
Site id:	MOOG50000001687		

**172  
ESE  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001174**

County:	Cass	Api number:	037-00025
Company na:	BUCKLEY, JOHN	Lease name:	KING
Well name:	3	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	21-JUN-39	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	11	Survey loc:	1900 FNL
Survey I00:	1610 FWL	Latitude d:	38
Latitude m:	45	Latitude s:	58
Longitude :	94	Longitud00:	31
Longitud01:	42	Latitude00:	38.82452
Longitud02:	-94.54209	Proposed t:	0
Actual tot:	219		
Well comme:	DRY & ABANDONED		
Site id:	MOOG50000001174		

**AF173  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002640**

County:	Cass	Api number:	037-21033
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-69	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	04-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	847 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1290 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.2
Longitude :	94	Longitud00:	34
Longitud01:	16	Latitude00:	38.81922
Longitud02:	-94.57111	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002640		

### AB174

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002524

County:	Cass	Api number:	037-20901
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-45	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	07-MAY-12
Spud date:	27-JUL-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	433 FSL
Survey I00:	892 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4.9
Longitude :	94	Longitud00:	34
Longitud01:	10.7	Latitude00:	38.818027
Longitud02:	-94.569638	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002524		

### AF175

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002641

County:	Cass	Api number:	037-21034
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-70	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	19-DEC-12
Spud date:	08-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	825 FSL
Survey I00:	1290 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9
Longitude :	94	Longitud00:	34
Longitud01:	16	Latitude00:	38.81918
Longitud02:	-94.57112	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002641		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AF176**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002185**

County:	Cass	Api number:	037-20493
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-10	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	10-JUN-87
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	660 FSL
Survey I00:	1100 FEL	Latitude d:	38
Latitude m:	39	Latitude s:	58
Longitude :	94	Longitud00:	19
Longitud01:	52	Latitude00:	38.81863
Longitud02:	-94.57054	Proposed t:	700
Actual tot:	680		
Well comme:	D.E. EXPLORATION, INC. SOLD THE LEASE TO KRE ON 11/10/2011		
Site id:	MOOG5000002185		

**AB177**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002526**

County:	Cass	Api number:	037-20903
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-47	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	07-MAY-12
Spud date:	01-AUG-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	397 FSL
Survey I00:	891 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4.6
Longitude :	94	Longitud00:	34
Longitud01:	10.8	Latitude00:	38.817944
Longitud02:	-94.569666	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG5000002526		

**AD178**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000001683**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00536
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	12	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	46	Latitude s:	38.7
Longitude :	94	Longitud00:	34
Longitud01:	31.9	Latitude00:	38.817045
Longitud02:	-94.568256	Proposed t:	0
Actual tot:	620		
Well comme:	Not Reported		
Site id:	MOOG50000001683		

**AF179  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002197**

County:	Cass	Api number:	037-20505
Company na:	WESTERN ENGINEERING, INC.	Lease name:	BELTON UNIT
Well name:	AD-15	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-SEP-87	Date permi:	31-JUL-87
Spud date:	01-AUG-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1100 FSL
Survey I00:	1540 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	41
Longitude :	94	Longitud00:	15
Longitud01:	35	Latitude00:	38.8199
Longitud02:	-94.57193	Proposed t:	700
Actual tot:	680		
Well comme:	Not Reported		
Site id:	MOOG50000002197		

**AF180  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002189**

County:	Cass	Api number:	037-20497
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-32	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	28-JUN-88
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	880 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1320 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	13
Longitude :	94	Longitud00:	34
Longitud01:	11	Latitude00:	38.81921
Longitud02:	-94.57124	Proposed t:	700
Actual tot:	680		
Well comme:	OGC-12 2009, 08, 07, 06, D.E. EXPLORATION, INC. SOLD THE LEASE TO KRE ON 11/10/2011		
Site id:	MOOG50000002189		

**AA181**

**NW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002796**

County:	Cass	Api number:	037-21213
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	E-19	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	04-MAR-13	Date permi:	04-MAR-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1320 FSL
Survey I00:	1980 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	6.7
Longitude :	94	Longitud00:	34
Longitud01:	20.1	Latitude00:	38.835197
Longitud02:	-94.572267	Proposed t:	700
Actual tot:	0		
Well comme:	3/01/13 : Sumbitted OGC-3/4 waiting for review by Unit Chief, 3/04/13: Approved, scanned, emailed, filed		
Site id:	MOOG500000002796		

**AB182**

**SW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002844**

County:	Cass	Api number:	037-21265
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	WSW-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	360 FSL
Survey I00:	860 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4.05
Longitude :	94	Longitud00:	34
Longitud01:	10.18	Latitude00:	38.81779
Longitud02:	-94.56949	Proposed t:	1500
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG500000002844		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**AC183**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002535**

County:	Cass	Api number:	037-20912
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-31	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-FEB-13	Date permi:	18-APR-12
Spud date:	25-JUN-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	2396 FSL
Survey I00:	2342 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	25
Longitude :	94	Longitud00:	34
Longitud01:	28	Latitude00:	38.8236
Longitud02:	-94.5744	Proposed t:	700
Actual tot:	701		
Well comme:	Not Reported		
Site id:	MOOG50000002535		

**184**  
**NW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001893**

County:	Cass	Api number:	037-20010
Company na:	STALLINGS	Lease name:	ASJES
Well name:	1A	Well type:	Stratigraphic Test
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	01-JAN-01	Date permi:	27-APR-70
Spud date:	15-JUL-70	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	2375 FSL
Survey I00:	1075 FEL	Latitude d:	38
Latitude m:	45	Latitude s:	16.6
Longitude :	94	Longitud00:	34
Longitud01:	36.9	Latitude00:	38.83793
Longitud02:	-94.56912	Proposed t:	400
Actual tot:	440		
Well comme:	Not Reported		
Site id:	MOOG50000001893		

**AD185**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002531**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20908
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-52	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	21-APR-13	Date permi:	07-MAY-12
Spud date:	15-AUG-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	67 FSL
Survey I00:	445 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	.9
Longitude :	94	Longitud00:	34
Longitud01:	5.4	Latitude00:	38.816916
Longitud02:	-94.568166	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002531		

### AB186

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002525

County:	Cass	Api number:	037-20902
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-46	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	07-MAY-12
Spud date:	31-JUL-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	392 FSL
Survey I00:	936 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4.6
Longitude :	94	Longitud00:	34
Longitud01:	11.3	Latitude00:	38.817944
Longitud02:	-94.569805	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002525		

### 187

NE

1/2 - 1 Mile

OIL\_GAS

MOOG50000001617

County:	Cass	Api number:	037-00470
Company na:	KNOCHE	Lease name:	KING
Well name:	1	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	3	Survey loc:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	Not Reported	Latitude d:	38
Latitude m:	50	Latitude s:	8.5
Longitude :	94	Longitud00:	32
Longitud01:	12.8	Latitude00:	38.838486
Longitud02:	-94.54841	Proposed t:	0
Actual tot:	750		
Well comme:	DRY		
Site id:	MOOG50000001617		

### AB188

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002193

County:	Cass	Api number:	037-20501
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-40	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	28-JUN-88
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	440 FSL
Survey I00:	880 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	4
Longitude :	94	Longitud00:	15
Longitud01:	49	Latitude00:	38.81792
Longitud02:	-94.5698	Proposed t:	700
Actual tot:	680		
Well comme:	OGC-12 2009, 08, 07, 06, D.E. EXPLORATION, INC sold the lease on 11/10/2011.		
Site id:	MOOG50000002193		

### AD189

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002530

County:	Cass	Api number:	037-20907
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-51	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	21-APR-13	Date permi:	07-MAY-12
Spud date:	13-AUG-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	66 FSL
Survey I00:	464 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	.9
Longitude :	94	Longitud00:	34
Longitud01:	5.6	Latitude00:	38.816916
Longitud02:	-94.568222	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002530		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AE190**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002495**

County:	Cass	Api number:	037-20872
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	AD-20	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	11-JUN-12	Date permi:	01-MAR-12
Spud date:	29-MAR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1520 FSL
Survey I00:	1891 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	16.2
Longitude :	94	Longitud00:	34
Longitud01:	23.2	Latitude00:	38.82116
Longitud02:	-94.57311	Proposed t:	700
Actual tot:	760		
Well comme:	PERF INTERVALS: 526-546, 570-595, 605-6-15.		
Site id:	MOOG50000002495		

**AD191**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002532**

County:	Cass	Api number:	037-20909
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-53	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	21-APR-13	Date permi:	07-MAY-12
Spud date:	16-AUG-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	51 FSL
Survey I00:	453 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	.8
Longitude :	94	Longitud00:	34
Longitud01:	5.5	Latitude00:	38.816888
Longitud02:	-94.568194	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002532		

**AH192**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002584**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20964
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD 5-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	02-AUG-12	Date permi:	06-JUN-12
Spud date:	21-JUN-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	186 FSL
Survey I00:	640 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	2.2
Longitude :	94	Longitud00:	34
Longitud01:	8.2	Latitude00:	38.817277
Longitud02:	-94.568944	Proposed t:	700
Actual tot:	770		
Well comme:	Not Reported		
Site id:	MOOG50000002584		

**AI193  
WNW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002905**

County:	Cass	Api number:	037-21326
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	EL 23-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1149 FSL
Survey I00:	2138 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	5.15
Longitude :	94	Longitud00:	34
Longitud01:	22.32	Latitude00:	38.83476
Longitud02:	-94.57287	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002905		

**AG194  
WNW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002126**

County:	Cass	Api number:	037-20388
Company na:	COLT ENERGY, INC.	Lease name:	WORKMAN
Well name:	3	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	12-APR-83
Spud date:	21-APR-83	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	35 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	2548 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	36
Longitude :	94	Longitud00:	34
Longitud01:	10	Latitude00:	38.83174
Longitud02:	-94.57466	Proposed t:	700
Actual tot:	680		
Well comme:	Not Reported		
Site id:	MOOG50000002126		

**AI195**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002904**

County:	Cass	Api number:	037-21325
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	EL 23-1	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1155 FSL
Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	5.24
Longitude :	94	Longitud00:	34
Longitud01:	22.4	Latitude00:	38.83479
Longitud02:	-94.57289	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002904		

**AI196**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002127**

County:	Cass	Api number:	037-20389
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	1-E	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	20-FEB-13	Date permi:	19-APR-83
Spud date:	18-APR-83	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1122 FSL
Survey I00:	2116 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	4
Longitude :	94	Longitud00:	34
Longitud01:	11	Latitude00:	38.83473
Longitud02:	-94.57294	Proposed t:	650
Actual tot:	660		
Well comme:	DE ACQUIRED LEASE FROM COLT LATTER PART OF 2003, ORIG OPERATOR PRAIRIE ENERGY CORP. // ALTAVISTA		
Site id:	MOOG50000002127		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AH197**

**SW**

1/2 - 1 Mile

OIL\_GAS

MOOG5000002184

County:	Cass	Api number:	037-20492
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-05	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	19-JUL-12	Date permi:	10-JUN-87
Spud date:	10-JUN-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	220 FSL
Survey I00:	660 FEL	Latitude d:	38
Latitude m:	46	Latitude s:	26
Longitude :	94	Longitud00:	26
Longitud01:	42	Latitude00:	38.81726
Longitud02:	-94.56907	Proposed t:	700
Actual tot:	700		
Well comme:	D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011 TO KRE		
Site id:	MOOG5000002184		

**Z198**

**WSW**

1/2 - 1 Mile

OIL\_GAS

MOOG5000002380

County:	Cass	Api number:	037-20728
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-24	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	15-SEP-03
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1320 FSL
Survey I00:	1820 FEL	Latitude d:	38
Latitude m:	37	Latitude s:	35
Longitude :	94	Longitud00:	33
Longitud01:	33	Latitude00:	38.82057
Longitud02:	-94.57288	Proposed t:	700
Actual tot:	670		
Well comme:	OGC-12 2009, 08, 07, 06, NEW OIL WELL CONVERTED TO INJECTION, D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011 TO KRE		
Site id:	MOOG5000002380		

**AJ199**

**SW**

1/2 - 1 Mile

OIL\_GAS

MOOG5000001682

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00535
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	11	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	47	Latitude s:	10
Longitude :	94	Longitud00:	35
Longitud01:	20.9	Latitude00:	38.818246
Longitud02:	-94.570603	Proposed t:	0
Actual tot:	614		
Well comme:	DRY, SHOWS OIL & GAS		
Site id:	MOOG50000001682		

### AE200

#### WSW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002620

County:	Cass	Api number:	037-21013
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI 16-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	11-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1714 FSL
Survey I00:	2105 FEL	Latitude d:	38
Latitude m:	44	Latitude s:	18.4
Longitude :	94	Longitud00:	34
Longitud01:	25.7	Latitude00:	38.82178
Longitud02:	-94.57382	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002620		

### AE201

#### WSW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002619

County:	Cass	Api number:	037-21012
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-16	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	11-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1719 FSL



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	2108 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	18.4
Longitude :	94	Longitud00:	34
Longitud01:	25.8	Latitude00:	38.82179
Longitud02:	-94.57383	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002619		

### AD202

#### SSW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002491

County:	Cass	Api number:	037-20868
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	R-37	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	23-FEB-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	5333 FSL
Survey I00:	294 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	58.8
Longitude :	94	Longitud00:	34
Longitud01:	3.6	Latitude00:	38.81633
Longitud02:	-94.56766	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002491		

### 203

#### ENE

1/2 - 1 Mile

OIL\_GAS

MOOG50000001609

County:	Cass	Api number:	037-00462
Company na:	KNOCHE	Lease name:	FEE
Well name:	Not Reported	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	2	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	50	Latitude s:	6.4
Longitude :	94	Longitud00:	33
Longitud01:	43.2	Latitude00:	38.830408
Longitud02:	-94.541354	Proposed t:	0
Actual tot:	228		
Well comme:	Not Reported		
Site id:	MOOG50000001609		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AJ204**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002183**

County:	Cass	Api number:	037-20491
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-04	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	19-JUL-12	Date permi:	10-JUN-87
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	440 FSL
Survey I00:	1100 FEL	Latitude d:	38
Latitude m:	46	Latitude s:	27
Longitude :	94	Longitud00:	34
Longitud01:	24	Latitude00:	38.81799
Longitud02:	-94.57058	Proposed t:	700
Actual tot:	700		
Well comme:	D.E. EXPLORATION SOLD THE LEASE ON 11/10/2011 TO KRE		
Site id:	MOOG5000002183		

**AK205**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002111**

County:	Cass	Api number:	037-20365
Company na:	GENERAL ENERGY, INC.	Lease name:	WORKMAN
Well name:	4	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	01-JAN-01	Date permi:	22-JUL-82
Spud date:	10-AUG-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	364 FSL
Survey I00:	2548 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	32
Longitude :	94	Longitud00:	34
Longitud01:	47	Latitude00:	38.83264
Longitud02:	-94.57464	Proposed t:	800
Actual tot:	562		
Well comme:	NO PLUGGING REPORT ON FILE BUT A LETTER FROM DNR IN THE COMPANY FILE STATED ALL WELLS WERE PLU		
Site id:	MOOG5000002111		

**AG206**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002356**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20691
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	RI-01	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	28-JUN-12	Date permi:	30-JAN-01
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	4890 FSL
Survey I00:	2750 FEL	Latitude d:	38
Latitude m:	29	Latitude s:	32.4
Longitude :	94	Longitud00:	4
Longitud01:	31.2	Latitude00:	38.83057
Longitud02:	-94.57546	Proposed t:	650
Actual tot:	665		
Well comme:	OGC-12 2009, 08, 07, 06,, ORIGINALLY PERMITTED AS AN OIL WELL, RLS NEEDED		
Site id:	MOOG50000002356		

### AI207

NW

1/2 - 1 Mile

OIL\_GAS

MOOG50000001640

County:	Cass	Api number:	037-00493
Company na:	KNOCHE	Lease name:	MOSBY
Well name:	2	Well type:	Gas(Conventional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	48	Latitude s:	26.2
Longitude :	94	Longitud00:	34
Longitud01:	47.9	Latitude00:	38.835633
Longitud02:	-94.572642	Proposed t:	0
Actual tot:	469		
Well comme:	Not Reported		
Site id:	MOOG50000001640		

### AL208

NW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002792

County:	Cass	Api number:	037-21209
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	E-12	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	04-MAR-13	Date permi:	04-MAR-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1650 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1980 FWL	Latitude d:	38
Latitude m:	50	Latitude s:	9.9
Longitude :	94	Longitud00:	34
Longitud01:	19.9	Latitude00:	38.836102
Longitud02:	-94.5722	Proposed t:	700
Actual tot:	0		
Well comme:	3/01/13 : Sumbitted OGC-3/4 waiting for review by Unit Chief, 3/04/13: Approved, scanned, emailed, filed		
Site id:	MOOG50000002792		

### AF209

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002330

County:	Cass	Api number:	037-20662
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-31	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	16-FEB-99
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	880 FSL
Survey I00:	1700 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.7
Longitude :	94	Longitud00:	34
Longitud01:	20.4	Latitude00:	38.81938
Longitud02:	-94.57235	Proposed t:	650
Actual tot:	645		
Well comme:	OGC-12 2009, 08, 07,06		
Site id:	MOOG50000002330		

### AJ210

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002528

County:	Cass	Api number:	037-20905
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-49	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	07-MAY-12
Spud date:	03-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	440 FSL
Survey I00:	1294 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	5.4
Longitude :	94	Longitud00:	34
Longitud01:	15.8	Latitude00:	38.818166
Longitud02:	-94.571055	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002528		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**211**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002533**

County:	Cass	Api number:	037-20910
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	AD-25	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	18-APR-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1955 FSL
Survey I00:	2342 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	21
Longitude :	94	Longitud00:	34
Longitud01:	29	Latitude00:	38.8225
Longitud02:	-94.5747	Proposed t:	700
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG5000002533		

**AI212**  
**NW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002893**

County:	Cass	Api number:	037-21314
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	MACLAUGHLIN
Well name:	EL 17-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1479 FSL
Survey I00:	2138 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	8.4
Longitude :	94	Longitud00:	34
Longitud01:	22.07	Latitude00:	38.83567
Longitud02:	-94.5728	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG5000002893		

**AM213**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002635**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-21028
Company na:	KANSAS RESOURCE EXPLORATION	Well name:	BELTON UNIT
Well name:	ADI-64	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	19-DEC-12
Spud date:	29-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	915 FSL
Survey I00:	1713 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	10.2
Longitude :	94	Longitud00:	34
Longitud01:	21.3	Latitude00:	38.81951
Longitud02:	-94.57259	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002635		

**AJ214  
NW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002892**

County:	Cass	Api number:	037-21313
Company na:	KANSAS RESOURCE EXPLORATION	Well name:	MACLAUGHLIN
Well name:	EL 17-1	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1485 FSL
Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	8.49
Longitude :	94	Longitud00:	34
Longitud01:	22.15	Latitude00:	38.83569
Longitud02:	-94.57282	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002892		

**AJ215  
SW  
1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002529**

County:	Cass	Api number:	037-20906
Company na:	KANSAS RESOURCE EXPLORATION	Well name:	BELTON UNIT
Well name:	ADI-50	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	07-MAY-12
Spud date:	12-NOV-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	411 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1290 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	5.1
Longitude :	94	Longitud00:	34
Longitud01:	15.8	Latitude00:	38.818083
Longitud02:	-94.571055	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002529		

**AF216**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002492**

County:	Cass	Api number:	037-20869
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	AD 9-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	07-MAY-12	Date permi:	01-MAR-12
Spud date:	31-MAR-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	663 FSL
Survey I00:	1500 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	7.6
Longitude :	94	Longitud00:	34
Longitud01:	18.8	Latitude00:	38.81877
Longitud02:	-94.57188	Proposed t:	700
Actual tot:	760		
Well comme:	PERF INTERVALS: 487-527, 546-586, 600-620.		
Site id:	MOOG50000002492		

**AM217**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002634**

County:	Cass	Api number:	037-21027
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-63	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	19-DEC-12
Spud date:	21-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	901 FSL
Survey I00:	1713 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	10.1
Longitude :	94	Longitud00:	34
Longitud01:	21.3	Latitude00:	38.81947
Longitud02:	-94.57259	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002634		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**AM218**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002332**

County:	Cass	Api number:	037-20666
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-14	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	16-FEB-99
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1070 FSL
Survey I00:	1900 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	11.8
Longitude :	94	Longitud00:	34
Longitud01:	22.9	Latitude00:	38.819969
Longitud02:	-94.573044	Proposed t:	650
Actual tot:	630		
Well comme:	RLS TO FOLLOW, also a perf at 564-584		
Site id:	MOOG50000002332		

**AM219**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002633**

County:	Cass	Api number:	037-21026
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-62	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	19-DEC-12
Spud date:	18-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	881 FSL
Survey I00:	1712 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.9
Longitude :	94	Longitud00:	34
Longitud01:	21.3	Latitude00:	38.81942
Longitud02:	-94.57259	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002633		

**AJ220**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002527**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20904
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-48	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	05-AUG-13	Date permi:	07-MAY-12
Spud date:	30-OCT-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	408 FSL
Survey I00:	1332 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	5.1
Longitude :	94	Longitud00:	34
Longitud01:	16.3	Latitude00:	38.818083
Longitud02:	-94.571194	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 579-584, 585-586		
Site id:	MOOG50000002527		

**AK221**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002089**

County:	Cass	Api number:	037-20266
Company na:	COLT ENERGY, INC.	Lease name:	WORKMAN
Well name:	1	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	25-JAN-82
Spud date:	03-FEB-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	732 FSL
Survey I00:	2537 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	30
Longitude :	94	Longitud00:	34
Longitud01:	8	Latitude00:	38.83367
Longitud02:	-94.57445	Proposed t:	800
Actual tot:	575		
Well comme:	Not Reported		
Site id:	MOOG50000002089		

**AJ222**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002583**

County:	Cass	Api number:	037-20963
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD 4-2	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	09-AUG-12	Date permi:	06-JUN-12
Spud date:	26-JUN-12	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	256 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	1125 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	3.2
Longitude :	94	Longitud00:	34
Longitud01:	14	Latitude00:	38.817555
Longitud02:	-94.570555	Proposed t:	700
Actual tot:	770		
Well comme:	PERF INTERVALS: 563-583 597-606. .		
Site id:	MOOG50000002583		

**AM223**

**SW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002631**

County:	Cass	Api number:	037-21024
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-60	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	19-DEC-12
Spud date:	03-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	846 FSL
Survey I00:	1708 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.5
Longitude :	94	Longitud00:	34
Longitud01:	21.3	Latitude00:	38.81932
Longitud02:	-94.57258	Proposed t:	650
Actual tot:	730		
Well comme:	2 intervals, 553.5-557, 561-564.5		
Site id:	MOOG50000002631		

**224**

**ENE**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000001610**

County:	Cass	Api number:	037-00463
Company na:	NEFF	Lease name:	FEE
Well name:	1	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	2	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	54.4
Longitude :	94	Longitud00:	33
Longitud01:	51.9	Latitude00:	38.832094
Longitud02:	-94.54139	Proposed t:	0
Actual tot:	437		
Well comme:	GAS WELL		
Site id:	MOOG50000001610		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AM225**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002632**

County:	Cass	Api number:	037-21025
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-61	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	20-MAY-13	Date permi:	19-DEC-12
Spud date:	17-MAR-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	830 FSL
Survey I00:	1708 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	9.4
Longitude :	94	Longitud00:	34
Longitud01:	21.2	Latitude00:	38.81927
Longitud02:	-94.57257	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002632		

**AJ226**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002192**

County:	Cass	Api number:	037-20500
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	ADI-39	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	01-JAN-01	Date permi:	28-JUN-88
Spud date:	01-JUL-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	440 FSL
Survey I00:	1320 FEL	Latitude d:	38
Latitude m:	47	Latitude s:	29
Longitude :	94	Longitud00:	28
Longitud01:	9	Latitude00:	38.8181
Longitud02:	-94.5713	Proposed t:	700
Actual tot:	680		
Well comme:	OGC-12 2009, 08, 07, 06, D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011		
Site id:	MOOG50000002192		

**AN228**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000001692**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00545
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	21	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	20.6
Longitude :	94	Longitud00:	34
Longitud01:	9.1	Latitude00:	38.82454
Longitud02:	-94.57574	Proposed t:	0
Actual tot:	480		
Well comme:	DRY		
Site id:	MOOG50000001692		

**AN227**

**WSW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000001677**

County:	Cass	Api number:	037-00530
Company na:	KNOCHE	Lease name:	ABBEY
Well name:	6	Well type:	Stratigraphic Test
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	47	Latitude s:	4.4
Longitude :	94	Longitud00:	35
Longitud01:	38.4	Latitude00:	38.82454
Longitud02:	-94.57574	Proposed t:	0
Actual tot:	98		
Well comme:	STRUCTURE TEST		
Site id:	MOOG50000001677		

**AO229**

**SSW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002845**

County:	Cass	Api number:	037-21266
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	KR-1V	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	281 FNL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	313 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	57.24
Longitude :	94	Longitud00:	34
Longitud01:	4.35	Latitude00:	38.8159
Longitud02:	-94.567875	Proposed t:	700
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002845		

**AP230**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002606**

County:	Cass	Api number:	037-20999
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI 23-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	11-MAY-13	Date permi:	19-DEC-12
Spud date:	01-FEB-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1289 FSL
Survey I00:	2067 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.2
Longitude :	94	Longitud00:	34
Longitud01:	25.5	Latitude00:	38.82061
Longitud02:	-94.57376	Proposed t:	650
Actual tot:	750		
Well comme:	Not Reported		
Site id:	MOOG50000002606		

**AP231**  
**WSW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002624**

County:	Cass	Api number:	037-21017
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	ADI-23	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Active Well
Status dat:	15-MAR-13	Date permi:	19-DEC-12
Spud date:	21-JAN-13	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	1294 FSL
Survey I00:	2071 FEL	Latitude d:	38
Latitude m:	49	Latitude s:	14.2
Longitude :	94	Longitud00:	34
Longitud01:	25.6	Latitude00:	38.82062
Longitud02:	-94.57377	Proposed t:	650
Actual tot:	730		
Well comme:	Not Reported		
Site id:	MOOG50000002624		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AI232**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002795**

County:	Cass	Api number:	037-21212
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	E-18	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	04-MAR-13	Date permi:	04-MAR-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1320 FSL
Survey I00:	2310 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	7
Longitude :	94	Longitud00:	34
Longitud01:	24.3	Latitude00:	38.835277
Longitud02:	-94.573431	Proposed t:	700
Actual tot:	0		
Well comme:	3/01/13 : Sumbitted OGC-3/4 waiting for review by Unit Chief, 3/04/13: Approved, scanned, emailed, filed		
Site id:	MOOG5000002795		

**AF233**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002195**

County:	Cass	Api number:	037-20503
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	AD-09	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	04-APR-12	Date permi:	31-JUL-87
Spud date:	01-AUG-87	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	660 FNL
Survey I00:	1540 FWL	Latitude d:	38
Latitude m:	49	Latitude s:	40
Longitude :	94	Longitud00:	16
Longitud01:	0	Latitude00:	38.81867
Longitud02:	-94.57203	Proposed t:	700
Actual tot:	903		
Well comme:	HORIZONTAL WELL, 0-550' vertical, D.E. EXPLORATION, INC. SOLD THE LEASE ON 11/10/2011 TO KRED		
Site id:	MOOG5000002195		

**AI234**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG5000002119**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20376
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	1-G	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	20-FEB-13	Date permi:	05-NOV-82
Spud date:	02-DEC-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1107 FSL
Survey I00:	2414 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	1
Longitude :	94	Longitud00:	34
Longitud01:	59	Latitude00:	38.83467
Longitud02:	-94.57399	Proposed t:	620
Actual tot:	640		
Well comme:	DE ACQUIRED LEASE FROM COLT LATTER PART OF 2003, ORIGINAL OPERATOR PRAIRIE ENERGY CORP. // ALTA		
Site id:	MOOG5000002119		

### AJ235

SW

1/2 - 1 Mile

OIL\_GAS

MOOG5000001681

County:	Cass	Api number:	037-00534
Company na:	STALLINGS	Lease name:	ABBEY
Well name:	10	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	47	Latitude s:	3.4
Longitude :	94	Longitud00:	35
Longitud01:	21.7	Latitude00:	38.817531
Longitud02:	-94.570753	Proposed t:	0
Actual tot:	608		
Well comme:	PRODUCED OIL		
Site id:	MOOG5000001681		

### AL236

NW

1/2 - 1 Mile

OIL\_GAS

MOOG5000002115

County:	Cass	Api number:	037-20370
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	3-E	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	20-FEB-13	Date permi:	27-SEP-82
Spud date:	22-SEP-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1725 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	2095 FEL	Latitude d:	38
Latitude m:	47	Latitude s:	39
Longitude :	94	Longitud00:	34
Longitud01:	35	Latitude00:	38.83624
Longitud02:	-94.57268	Proposed t:	700
Actual tot:	635		
Well comme:	DE ACQUIRED LEASE FROM COLT ENERGY LATTER PART OF 2003, ORIG OPERATOR PRAIRIE ENERGY CORP. // AL		
Site id:	MOOG50000002115		

**AG237**

**WNW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002108**

County:	Cass	Api number:	037-20361
Company na:	COLT ENERGY, INC.	Lease name:	DUNLAP
Well name:	6	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	14-JUL-82
Spud date:	19-JUL-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	9	Survey loc:	165 FNL
Survey I00:	2530 FWL	Latitude d:	38
Latitude m:	35	Latitude s:	36
Longitude :	94	Longitud00:	33
Longitud01:	1	Latitude00:	38.83128
Longitud02:	-94.57577	Proposed t:	600
Actual tot:	630		
Well comme:	Not Reported		
Site id:	MOOG50000002108		

**AI238**

**WNW**

**1/2 - 1 Mile**

**OIL\_GAS**

**MOOG50000002902**

County:	Cass	Api number:	037-21323
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	EL 22-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1149 FSL
Survey I00:	2468 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	5.37
Longitude :	94	Longitud00:	34
Longitud01:	26.46	Latitude00:	38.83483
Longitud02:	-94.57402	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002902		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**AI239**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002911**

County:	Cass	Api number:	037-21332
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	MACLAUGHLIN
Well name:	EL 22-1	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1155 FSL
Survey I00:	2475 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	5.46
Longitude :	94	Longitud00:	34
Longitud01:	26.54	Latitude00:	38.83485
Longitud02:	-94.57404	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002911		

**AI240**  
**WNW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000002903**

County:	Cass	Api number:	037-21324
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	MACLAUGHLIN
Well name:	EL 22-3	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1149 FSL
Survey I00:	2482 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	5.37
Longitude :	94	Longitud00:	34
Longitud01:	26.62	Latitude00:	38.83483
Longitud02:	-94.57406	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002903		

**241**  
**NW**  
**1/2 - 1 Mile**

**OIL\_GAS MOOG50000001638**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-00491
Company na:	KNOCHE	Lease name:	MCPHERSON
Well name:	6A	Well type:	Gas(Convertional, Commercial)
Well type :	01-JAN-01	Well statu:	Abandoned
Status dat:	01-JAN-01	Date permi:	Not Reported
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	Not Reported
Survey I00:	Not Reported	Latitude d:	38
Latitude m:	49	Latitude s:	2.1
Longitude :	94	Longitud00:	35
Longitud01:	38.5	Latitude00:	38.837594
Longitud02:	-94.571441	Proposed t:	0
Actual tot:	490		
Well comme:	6 (LOST HOLE)		
Site id:	MOOG50000001638		

### AH242

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002366

County:	Cass	Api number:	037-20713
Company na:	D. E. EXPLORATION, INC.	Lease name:	BELTON UNIT
Well name:	RI-8	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	06-DEC-02	Date permi:	24-JUL-01
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	50 FNL
Survey I00:	865 FEL	Latitude d:	38
Latitude m:	38	Latitude s:	43
Longitude :	94	Longitud00:	28
Longitud01:	47	Latitude00:	38.81661
Longitud02:	-94.56979	Proposed t:	700
Actual tot:	650		
Well comme:	RLS NEEDED, OWNERSHIP TRANSFERRED TO MODOT, EVANS ENERGY PLUGGED 24 SKS CEMENT		
Site id:	MOOG50000002366		

### AL243

NW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002897

County:	Cass	Api number:	037-21318
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	MACLAUGHLIN
Well name:	EL 11-2	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1809 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	2138 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	11.47
Longitude :	94	Longitud00:	34
Longitud01:	21.89	Latitude00:	38.83652
Longitud02:	-94.57275	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002897		

### AO244

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002550

County:	Cass	Api number:	037-20927
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	RW-41	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	04-JUN-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	5145 FSL
Survey I00:	498 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	57
Longitude :	94	Longitud00:	34
Longitud01:	6.7	Latitude00:	38.81583
Longitud02:	-94.568527	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002550		

### AK245

WNW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002104

County:	Cass	Api number:	037-20354
Company na:	COLT ENERGY, INC.	Lease name:	KNOCHE
Well name:	1	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	22-JUL-97	Date permi:	01-JUN-82
Spud date:	17-JUN-82	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	165 FSL
Survey I00:	2487 FWL	Latitude d:	38
Latitude m:	39	Latitude s:	22
Longitude :	94	Longitud00:	29
Longitud01:	35	Latitude00:	38.83213
Longitud02:	-94.57576	Proposed t:	600
Actual tot:	590		
Well comme:	Not Reported		
Site id:	MOOG50000002104		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database      EDR ID Number

**AL246**  
**NW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002896**

County:	Cass	Api number:	037-21317
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	MACLAUGHLIN
Well name:	EL 11-1	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	03-JUL-13	Date permi:	03-JUL-13
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	4	Survey loc:	1815 FSL
Survey I00:	2145 FEL	Latitude d:	38
Latitude m:	50	Latitude s:	11.56
Longitude :	94	Longitud00:	34
Longitud01:	21.97	Latitude00:	38.83654
Longitud02:	-94.57277	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002896		

**AO247**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002489**

County:	Cass	Api number:	037-20866
Company na:	KANSAS RESOURCE EXPLORATION	Case name:	BELTON UNIT
Well name:	R-35	Well type:	Oil
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	23-FEB-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	5333 FSL
Survey I00:	725 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	58.2
Longitude :	94	Longitud00:	34
Longitud01:	9	Latitude00:	38.81616
Longitud02:	-94.56916	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002489		

**AO248**  
**SW**  
**1/2 - 1 Mile**

**OIL\_GAS      MOOG50000002551**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	Cass	Api number:	037-20928
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	RW-42	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	04-JUN-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	5135 FSL
Survey I00:	512 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	57
Longitude :	94	Longitud00:	34
Longitud01:	7	Latitude00:	38.81583
Longitud02:	-94.568611	Proposed t:	650
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002551		

### AH249

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000001891

County:	Cass	Api number:	037-20008
Company na:	STALLINGS	Lease name:	BELTON UNIT
Well name:	C-19	Well type:	Dry Hole
Well type :	01-JAN-01	Well statu:	Plugged - Approved
Status dat:	01-JAN-01	Date permi:	06-NOV-68
Spud date:	22-DEC-68	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	95 FNL
Survey I00:	860 FEL	Latitude d:	38
Latitude m:	44	Latitude s:	21.2
Longitude :	94	Longitud00:	34
Longitud01:	59.8	Latitude00:	38.81647
Longitud02:	-94.56978	Proposed t:	600
Actual tot:	623		
Well comme:	NO OGC-7, LISTED AS PLUGGED		
Site id:	MOOG50000001891		

### AO250

SW

1/2 - 1 Mile

OIL\_GAS

MOOG50000002500

County:	Cass	Api number:	037-20877
Company na:	KANSAS RESOURCE EXPLORATION	Lease name:	BELTON UNIT
Well name:	RW-20	Well type:	Injection(Class II EOR)
Well type :	01-JAN-01	Well statu:	Under Construction
Status dat:	01-JAN-01	Date permi:	09-MAY-12
Spud date:	Not Reported	Confidenti:	Not Reported
Quadrangle:	Belton	Land grant:	Not Reported
Township:	46	Township d:	North
Range :	33	Range dire:	West
Section:	16	Survey loc:	5152 FSL

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Survey I00:	550 FEL	Latitude d:	38
Latitude m:	48	Latitude s:	56.7
Longitude :	94	Longitud00:	34
Longitud01:	6.9	Latitude00:	38.815749
Longitud02:	-94.568583	Proposed t:	1099
Actual tot:	0		
Well comme:	Not Reported		
Site id:	MOOG50000002500		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for CASS County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CASS COUNTY, MO

Number of sites tested: 35

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.895 pCi/L	90%	10%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.240 pCi/L	86%	14%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: National Wetland Inventory of Missouri

Source: Department of Natural Resources

Telephone: 573-751-5110

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Missouri Public Drinking Water Wells

Source: Department of Natural Resources

Telephone: 573-526-5448

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Source: Department of Natural Resources

Telephone: 573-368-2143

### RADON

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration


Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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**APPENDIX F**  
**HISTORICAL USE DOCUMENTATION**



Markey Business Park  
Markey Road and Bales Road  
Kansas City, MO 64147

Inquiry Number: 4635016.9

June 03, 2016

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**Site Name:**

Markey Business Park  
 Markey Road and Bales Road  
 Kansas City, MO 64147  
 EDR Inquiry # 4635016.9

**Client Name:**

Seagull Env. Technologies  
 731 Limestone Dr  
 Prosper, TX 75078  
 Contact: Ryan M. Lunt



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1997	1"=500'	Acquisition Date: February, 13 2002	USGS/DOQQ
1990	1"=500'	Flight Date: February, 07 1990	USGS
1985	1"=500'	Flight Date: June, 28 1985	USGS
1981	1"=500'	Flight Date: November, 11 1981	USGS
1976	1"=500'	Flight Date: March, 27 1976	USGS
1970	1"=500'	Flight Date: October, 02 1970	USGS
1952	1"=500'	Flight Date: October, 20 1952	USGS
1940	1"=500'	Flight Date: September, 25 1940	USGS

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

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INQUIRY #: 4635016.9

YEAR: 2012

— = 500'





INQUIRY #: 4635016.9

YEAR: 2010

— = 500'





INQUIRY #: 4635016.9

YEAR: 2009

— = 500'







INQUIRY #: 4635016.9

YEAR: 2007

— = 500'





INQUIRY #: 4635016.9

YEAR: 2006

— = 500'





INQUIRY #: 4635016.9

YEAR: 2005

— = 500'





INQUIRY #: 4635016.9

YEAR: 1997

— = 500'





INQUIRY #: 4635016.9

YEAR: 1990

— = 500'





INQUIRY #: 4635016.9

YEAR: 1985

— = 500'





INQUIRY #: 4635016.9

YEAR: 1981

— = 500'





INQUIRY #: 4635016.9

YEAR: 1976

— = 500'







INQUIRY #: 4635016.9

YEAR: 1970

— = 500'





INQUIRY #: 4635016.9

YEAR: 1952

 = 500'






INQUIRY #: 4635016.9

YEAR: 1940

— = 500'





Markey Business Park  
Markey Road and Bales Road  
Kansas City, MO 64147

Inquiry Number: 4635016.3

June 02, 2016

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

06/02/16

**Site Name:**

Markey Business Park  
Markey Road and Bales Road  
Kansas City, MO 64147  
EDR Inquiry # 4635016.3

**Client Name:**

Seagull Env. Technologies  
731 Limestone Dr  
Prosper, TX 75078  
Contact: Ryan M. Lunt



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Certification #** 6C5F-4C25-9BF7  
**PO #** NA  
**Project** Markey Business Park

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 6C5F-4C25-9BF7

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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**Markey Business Park**

Markey Road and Bales Road  
Kansas City, MO 64147

Inquiry Number: 4635016.5  
June 06, 2016

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
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with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information Services
1988	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1983	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1976	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1971	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1966	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1961	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1958	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1955	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory

### RECORD SOURCES

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## FINDINGS

### TARGET PROPERTY STREET

Markey Road and Bales Road  
Kansas City, MO 64147

Year

CD Image

Source

### W MARKEY RD

2013	pg A2	Cole Information Services	
2008	pg A4	Cole Information Services	
2003	pg A6	Cole Information Services	
1999	pg A8	Cole Information Services	
1995	pg A10	Cole Information Services	
1992	pg A12	Cole Information Services	
1988	-	Polk's City Directory	Target and Adjoining not listed in Source
1983	-	Polk's City Directory	Target and Adjoining not listed in Source
1976	-	Polk's City Directory	Target and Adjoining not listed in Source
1971	-	Polk's City Directory	Target and Adjoining not listed in Source
1966	-	Polk's City Directory	Target and Adjoining not listed in Source
1961	-	Polk's City Directory	Target and Adjoining not listed in Source
1958	-	Polk's City Directory	Target and Adjoining not listed in Source
1955	-	Polk's City Directory	Target and Adjoining not listed in Source

## FINDINGS

### CROSS STREETS

Year                      CD Image                      Source

### BALES AVE

2013	pg. A1	Cole Information Services	
2008	pg. A3	Cole Information Services	
2003	pg. A5	Cole Information Services	
1999	pg. A7	Cole Information Services	
1995	pg. A9	Cole Information Services	
1992	pg. A11	Cole Information Services	
1988	-	Polk's City Directory	Target and Adjoining not listed in Source
1983	-	Polk's City Directory	Target and Adjoining not listed in Source
1976	-	Polk's City Directory	Target and Adjoining not listed in Source
1971	-	Polk's City Directory	Target and Adjoining not listed in Source
1966	-	Polk's City Directory	Target and Adjoining not listed in Source
1961	-	Polk's City Directory	Target and Adjoining not listed in Source
1958	-	Polk's City Directory	Target and Adjoining not listed in Source
1955	-	Polk's City Directory	Target and Adjoining not listed in Source

## **City Directory Images**

**BALES AVE 2013**

11300 AMANDA MACHADO  
11302 CECIL JOHNSON  
11307 OCCUPANT UNKNOWN  
11308 STEPHANIE WAGNER  
11309 CLAIRE LAZARRE  
11310 OCCUPANT UNKNOWN  
11311 OCCUPANT UNKNOWN  
11312 YOLANDA RILEY  
11314 RAYMOND HAMILTON  
11315 ARNOLD SHELBY

**W MARKEY RD 2013**

115	BROWN BROTHERS EXCAVATING INC
127	UNIQUE LABEL INC
128	CLUTTER DORIS
	RG FEDERAL CREDIT UNION
	SHELTER INSURANCE CHRIS COLLINS
144	PORTER ROOFING
145	AQUATICARE POOL MANAGEMENT & MAINT
313	STAN PARSONS
322	GEORGE WYMAN
324	DONALD PERSINGER
326	OCCUPANT UNKNOWN
502	BREIT CONSTRUCTION LLC
	PINNACLE VENTURES INC
801	BILT INDUSTRIES
	KUECKER LOGISTICS GROUP INC

**BALES AVE 2008**

11274 NICOLE LEWIS  
11302 OCCUPANT UNKNOWN  
11305 MONICA ROOT  
11307 OCCUPANT UNKNOWN  
11308 OCCUPANT UNKNOWN  
11309 OCCUPANT UNKNOWN  
11310 MELISSA BROWN  
11311 BENJAMIN MOORE  
11312 DONALD WILLKETT  
11313 ERIC ALDRIDGE  
11314 D FISHER  
11315 TIFFANIE IRVING

**W MARKEY RD 2008**

- 115 BROWN BROTHERS EXCAVATING  
L B ENTERPRISES INC
- 127 UNIQUE LABEL INC
- 128 CHRIS COLLINS SHELTER & INSURANCE  
R G FEDERAL CREDIT UNION  
SHELTER INSURANCE
- 144 PORTER ROOFING CO INC
- 145 AQUATICARE  
SUPERIOR LAWN & LANDSCAPE INC
- 313 PARSONS BUILDING CO INC  
STAN PARSONS
- 322 WILLIAM SHEELEY
- 324 TANIS CLAYTON
- 326 WILLIAM STEEN
- 502 PINNACLE VENTURES INC  
SOUTHPORT AVIATION INC

**BALES AVE 2003**

11274 OCCUPANT UNKNOWN  
11308 KEITH IRVIN  
11309 DENETTE KARNAZ  
11310 OCCUPANT UNKNOWN  
11311 PHYLLIS MOORE  
11312 DONALD WILLKETT  
11313 ERIC ALDRIDGE  
11315 TIFFANIE IRVING



**W MARKEY RD 2003**

115	KENNETH BROWN LB ENTERPRISES INC
127	OCCUPANT UNKNOWN UNIQUE LABEL INC
128	ALCOHOLICS ANONYMOUS R G FCU RG FEDERAL CREDIT UNION STEPHEN WRIGHT
144	PORTER ROOFING CO
145	SUPERIOR SECURITY
312	A & A FIRE & SAFETY JOSH HAMLIN
313	OCCUPANT UNKNOWN
322	PATTY BAIRD
324	MARSHA SHULER
326	JONATHAN RUSSELL
502	OCCUPANT UNKNOWN PINNACLE VENTURES INC SOUTHPORT AVIATION INC
510	CHILD ENRICHMENT PRESCHOOL
718	ROBIN RYNARD
719	S VIRDEN

**BALES AVE 1999**

- 11274 MARTIN SPAIN
- 11308 BLAINE NORMANDIN
- 11309 NATALIE BRUNKOW
- 11310 ADAM RIEKE
- SHERYL CARROLL
- 11311 TONYA FISHER
- 11312 BETTY BENSON
- 11313 OCCUPANT UNKNOWN
- 11314 D FISHER
- 11315 A BIGHLEY

**W MARKEY RD 1999**

115	BROWN BROTHERS EXCAVATING INCORPORATED L B ENTERPRISES INCORPORATED
127	UNIQUE LABEL INCORPORATED
128	R G BLACK CONSULTING
144	PORTER ROOFING COMPANY INCORPORATED
312	C PURTLE JOSH HAMLIN
313	STAN PARSONS
322	OCCUPANT UNKNOWN
324	WILLIAM OFLAHERTY
326	OCCUPANT UNKNOWN
502	SOUTHWEST TRACOR

**BALES AVE 1995**

11274 OCCUPANT UNKNOWNN  
11308 OCCUPANT UNKNOWNN  
11309 CARL, PAUL  
11310 TWISS, TODD  
11311 HAHN, SHANNON D  
PENN, JOHN D  
11312 JAMESON, F E  
11313 CRAIN, JACKIE L  
11314 FISHER, D  
11315 KELLY, DANIEL

**W MARKEY RD 1995**

115	BROWN BROTHERS EXCAVATING INC L B ENTERPRISES INC
127	UNIQUE LABEL INC
144	PORTER ROOFING CO
145	GREENBRIAR LAWNS
312	A & A FIRE & SAFETY WESCOAT, RYAN
313	PARSONS, STAN
403	OCCUPANT UNKNOWNN
407	YATES, WILLIAM H III
408	HATTEN, DARLENE
410	RUSSO, NICK
411	POLLARD, SARAH G
413	OCCUPANT UNKNOWNN
415	CROMER, DAN R
502	SOUTHWEST TRACOR
510	CHILD ENRICHMENT PRESCHOOL

Target Street

Cross Street

Source

-

✓

Cole Information Services

**BALES AVE 1992**

11260 MACKLEY, S R  
11309 HOLCROFT, JOHN S  
11310 OCONNOR, CAROL E  
11311 BROWN, M K  
MARCUM, LAURA  
11312 JAMESON, F E  
11314 FISHER, D  
11315 GULLEY, CASEY  
KELLY, DANIEL



-

**W MARKEY RD 1992**

115	BROWN BROS EXCV LB ENTERPRISES
127	UNIQUE LABEL INC
128	R-G FEDRL CRDT UN
144	PORTER ROOFING
312	A&A FIRE&SAFETY AGUIRRE, DREW
313	PARSONS, STAN
502	SOUTHWEST TRACOR
510	CHILD ENRCMT PRSCH

Markey Business Park  
Markey Road and Bales Road  
Kansas City, MO 64147

Inquiry Number: 4635016.4

June 02, 2016

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# EDR Historical Topo Map Report

06/02/16

**Site Name:**

Markey Business Park  
Markey Road and Bales Road  
Kansas City, MO 64147  
EDR Inquiry # 4635016.4

**Client Name:**

Seagull Env. Technologies  
731 Limestone Dr  
Prosper, TX 75078  
Contact: Ryan M. Lunt



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Seagull Env. Technologies were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	38.827724 38° 49' 40" North
<b>Project:</b>	Markey Business Park	<b>Longitude:</b>	-94.558338 -94° 33' 30" West
		<b>UTM Zone:</b>	Zone 15 North
		<b>UTM X Meters:</b>	364730.56
		<b>UTM Y Meters:</b>	4298812.73
		<b>Elevation:</b>	1109.00' above sea level

**Maps Provided:**

2015  
1995  
1975  
1970  
1953  
1934  
1893  
1887

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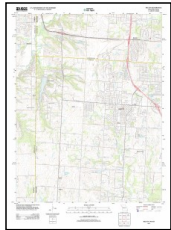
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## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **2015 Source Sheets**



Belton  
2015  
7.5-minute, 24000

### **1995 Source Sheets**



Belton  
1995  
7.5-minute, 24000  
Aerial Photo Revised 1991  
Edited 1995

### **1975 Source Sheets**



Belton  
1975  
7.5-minute, 24000  
Photo Revised 1975  
Aerial Photo Revised 1975

### **1970 Source Sheets**

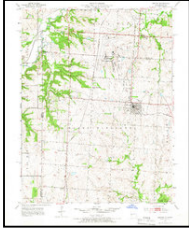


Belton  
1970  
7.5-minute, 24000  
Photo Revised 1970  
Aerial Photo Revised 1970

## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1953 Source Sheets**



Belton  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1948

### **1934 Source Sheets**



Belton  
1934  
7.5-minute, 24000

### **1893 Source Sheets**

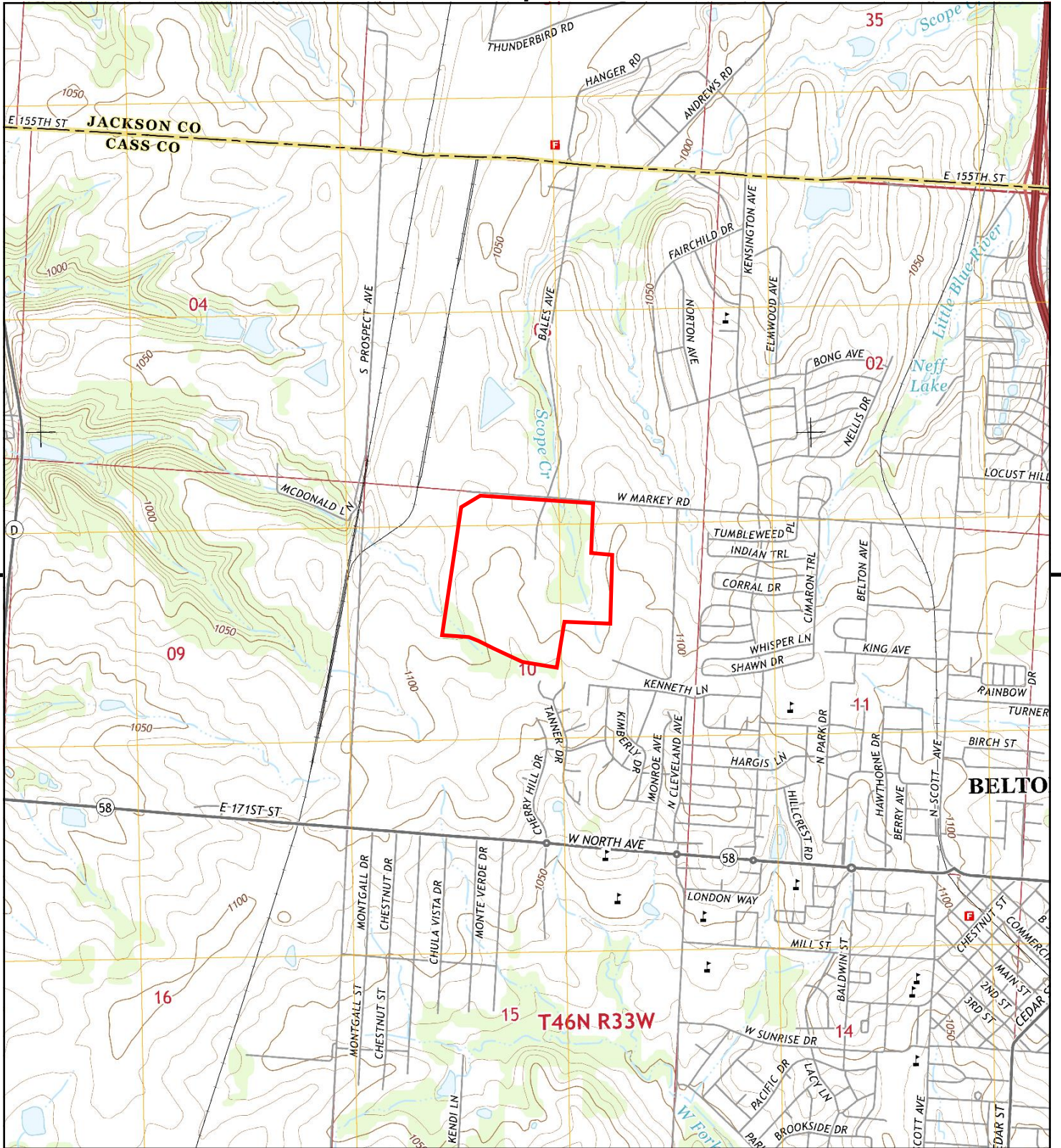


Olathe  
1893  
30-minute, 125000

### **1887 Source Sheets**



Olathe  
1887  
30-minute, 125000



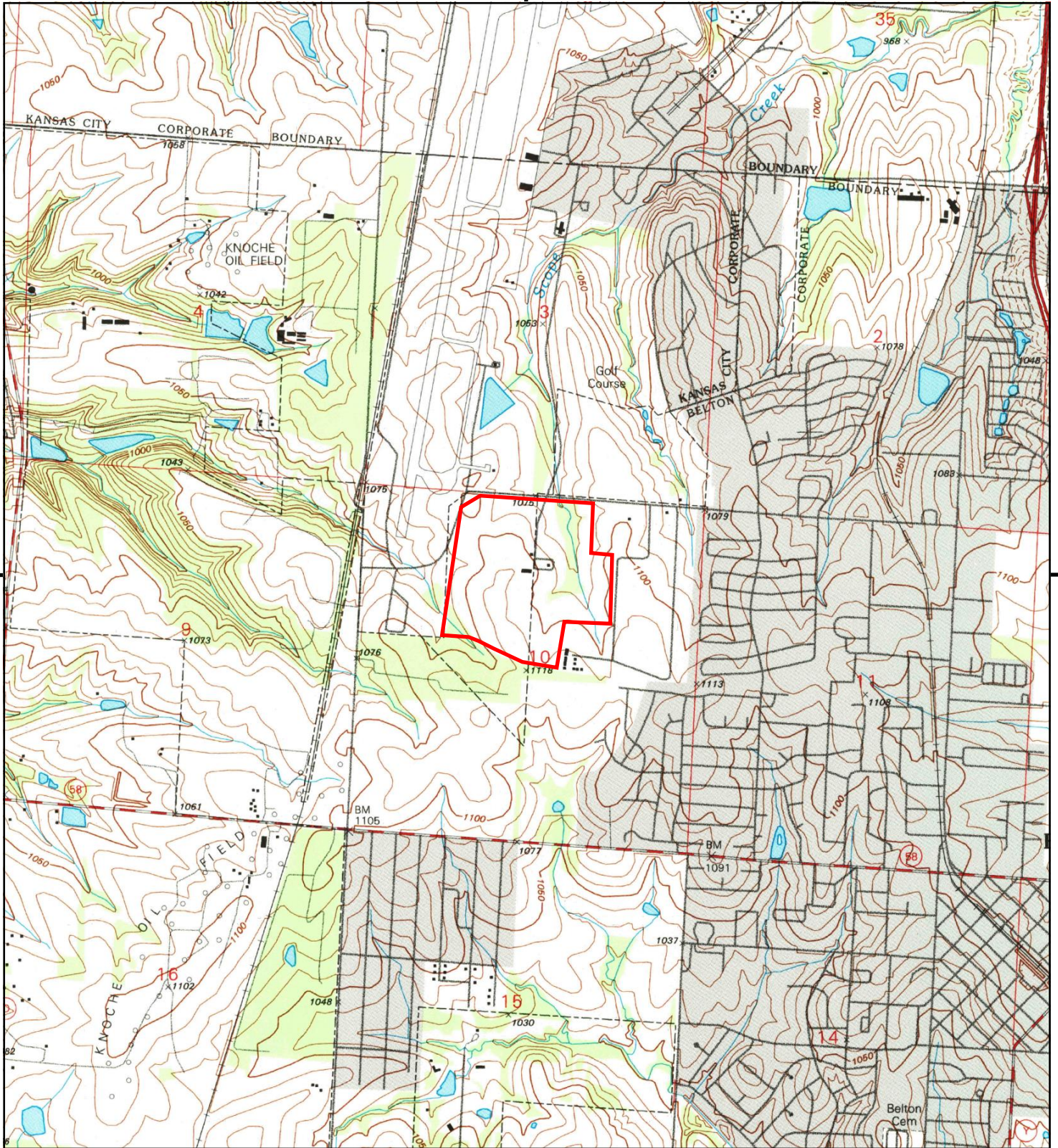
This report includes information from the following map sheet(s).



TP, Belton, 2015, 7.5-minute

**SITE NAME:** Markey Business Park  
**ADDRESS:** Markey Road and Bales Road  
 Kansas City, MO 64147  
**CLIENT:** Seagull Env. Technologies





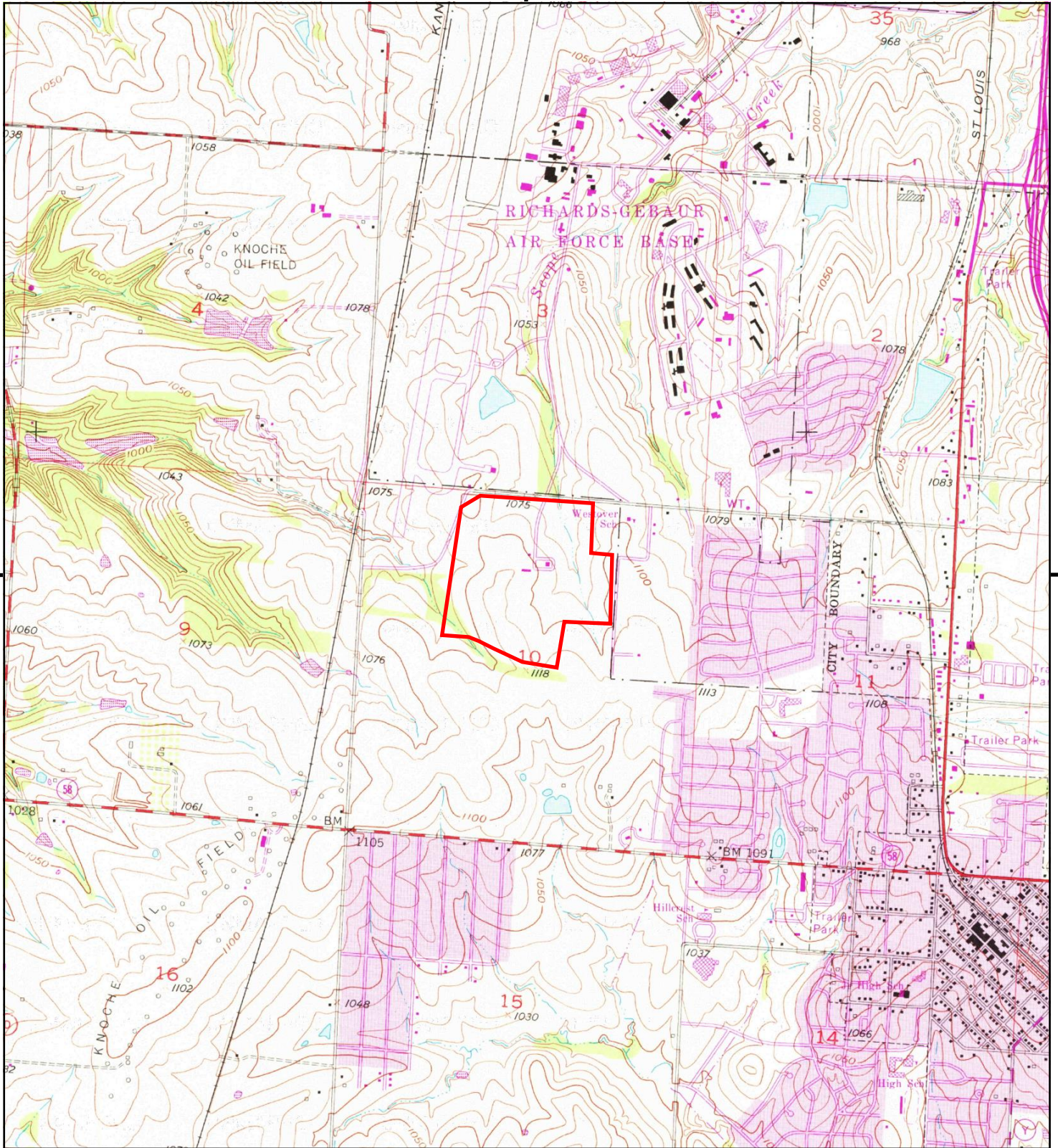
This report includes information from the following map sheet(s).



TP, Belton, 1995, 7.5-minute

**SITE NAME:** Markey Business Park  
**ADDRESS:** Markey Road and Bales Road  
 Kansas City, MO 64147  
**CLIENT:** Seagull Env. Technologies





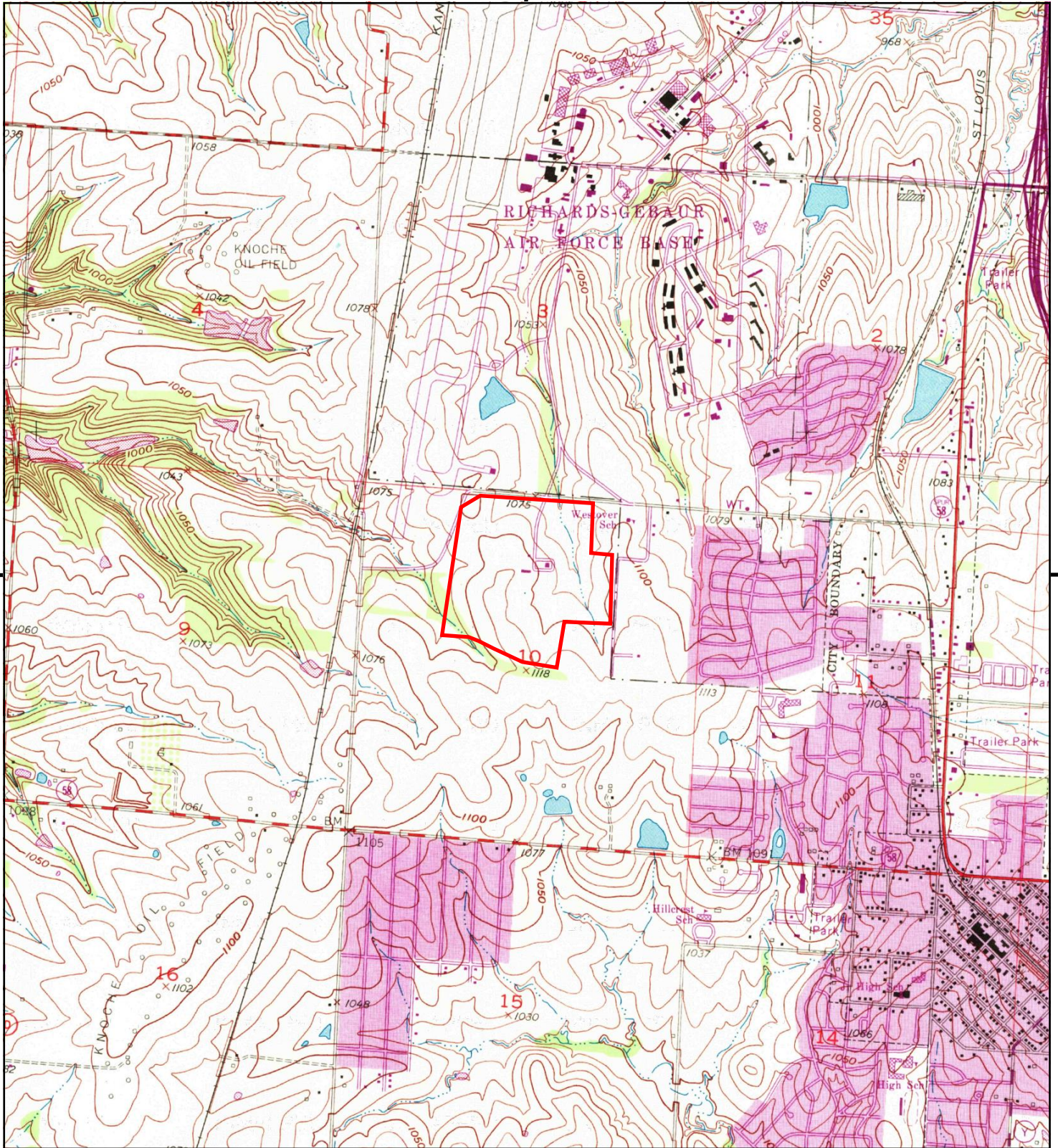
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TP, Belton, 1975, 7.5-minute

**SITE NAME:** Markey Business Park  
**ADDRESS:** Markey Road and Bales Road  
 Kansas City, MO 64147  
**CLIENT:** Seagull Env. Technologies





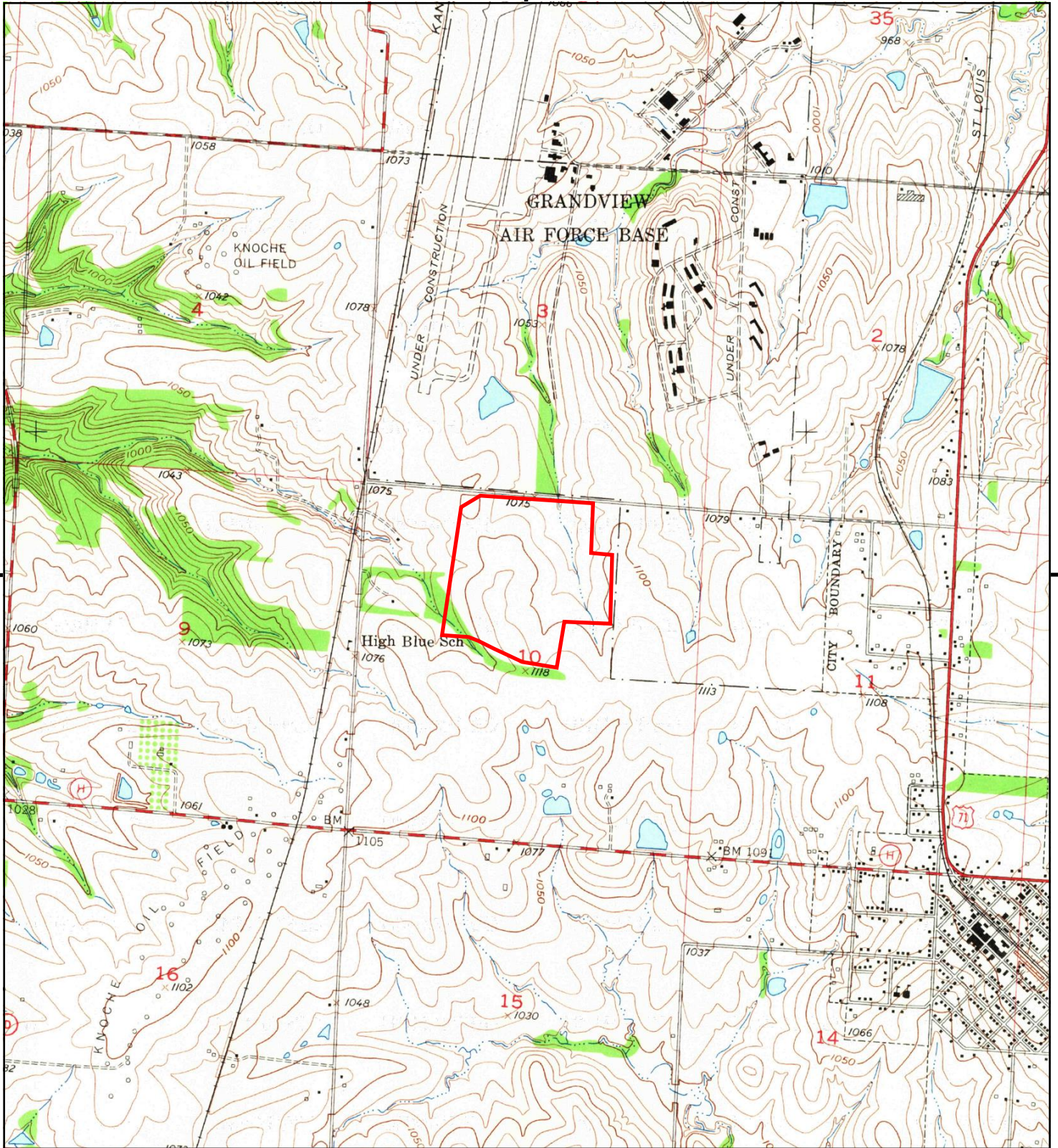
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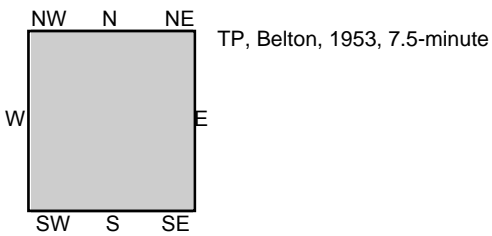
TP, Belton, 1970, 7.5-minute

**SITE NAME:** Markey Business Park  
**ADDRESS:** Markey Road and Bales Road  
 Kansas City, MO 64147  
**CLIENT:** Seagull Env. Technologies





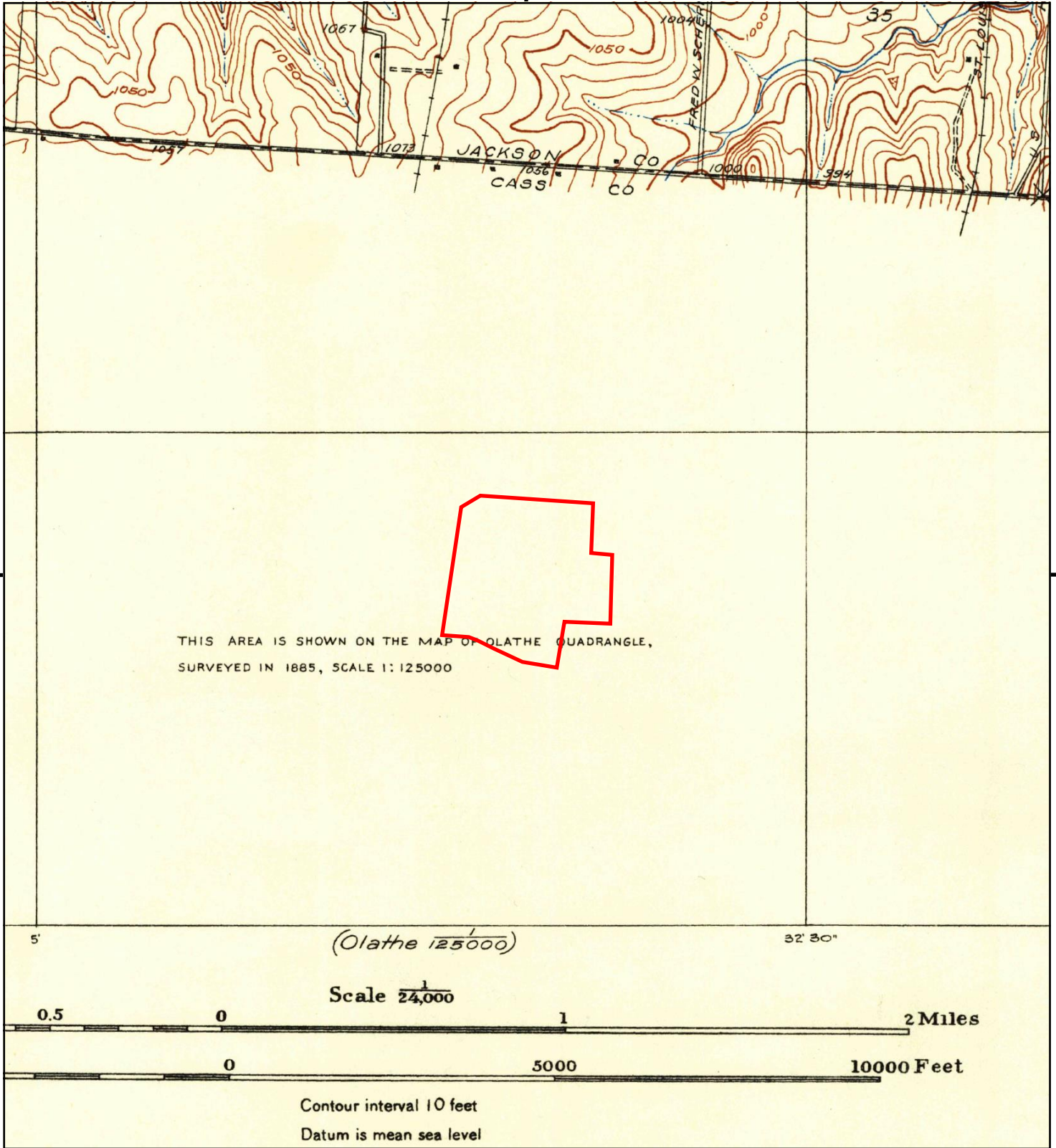
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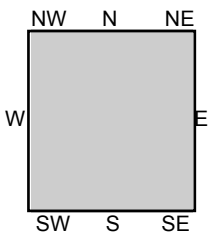
**SITE NAME:** Markey Business Park  
**ADDRESS:** Markey Road and Bales Road  
 Kansas City, MO 64147  
**CLIENT:** Seagull Env. Technologies







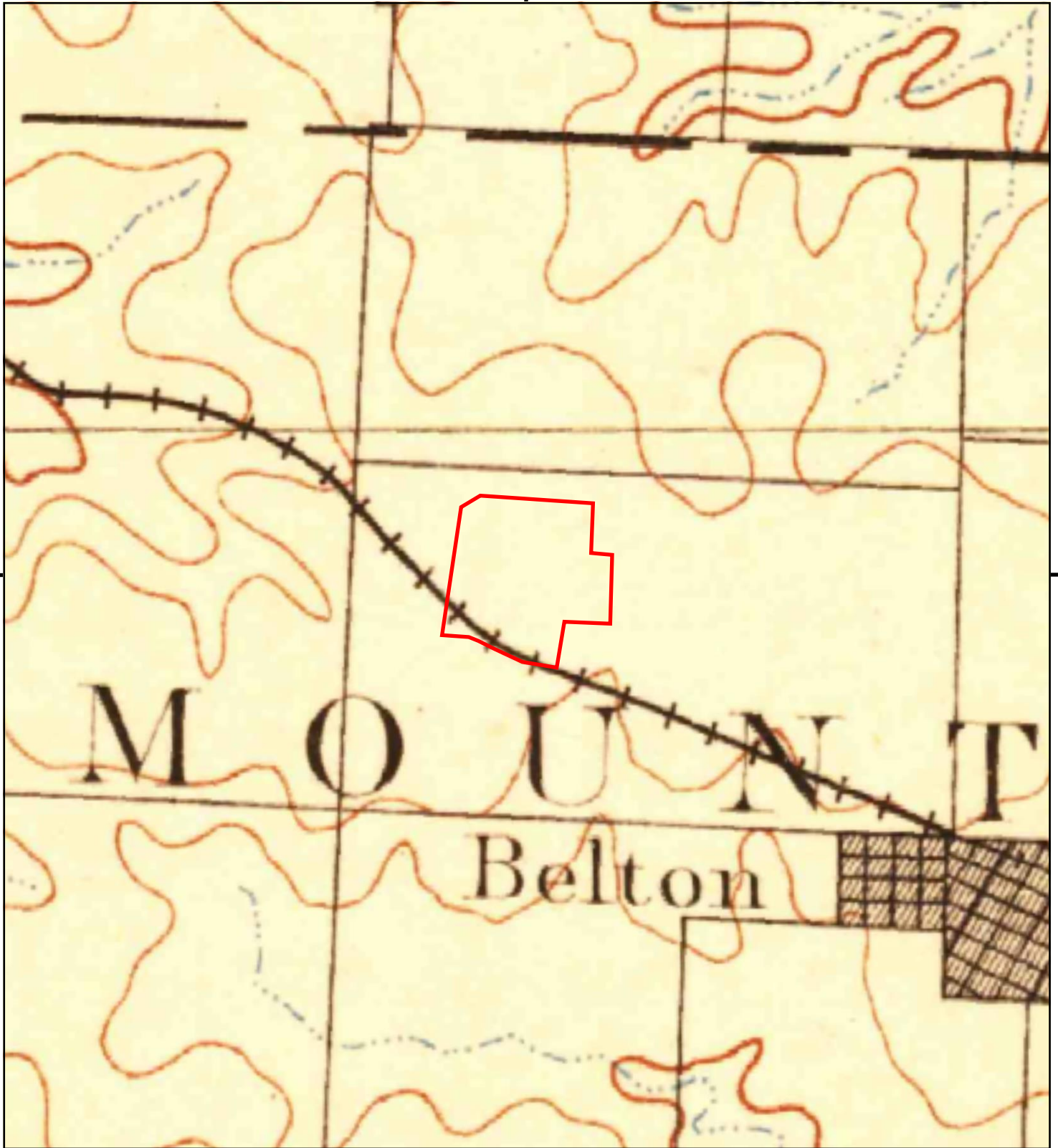
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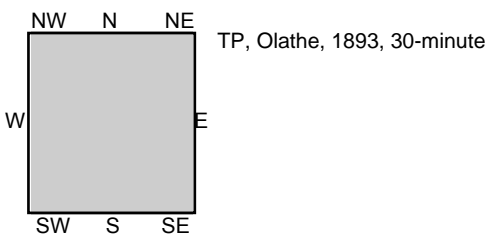
TP, Belton, 1934, 7.5-minute

SITE NAME: Markey Business Park  
 ADDRESS: Markey Road and Bales Road  
 Kansas City, MO 64147  
 CLIENT: Seagull Env. Technologies



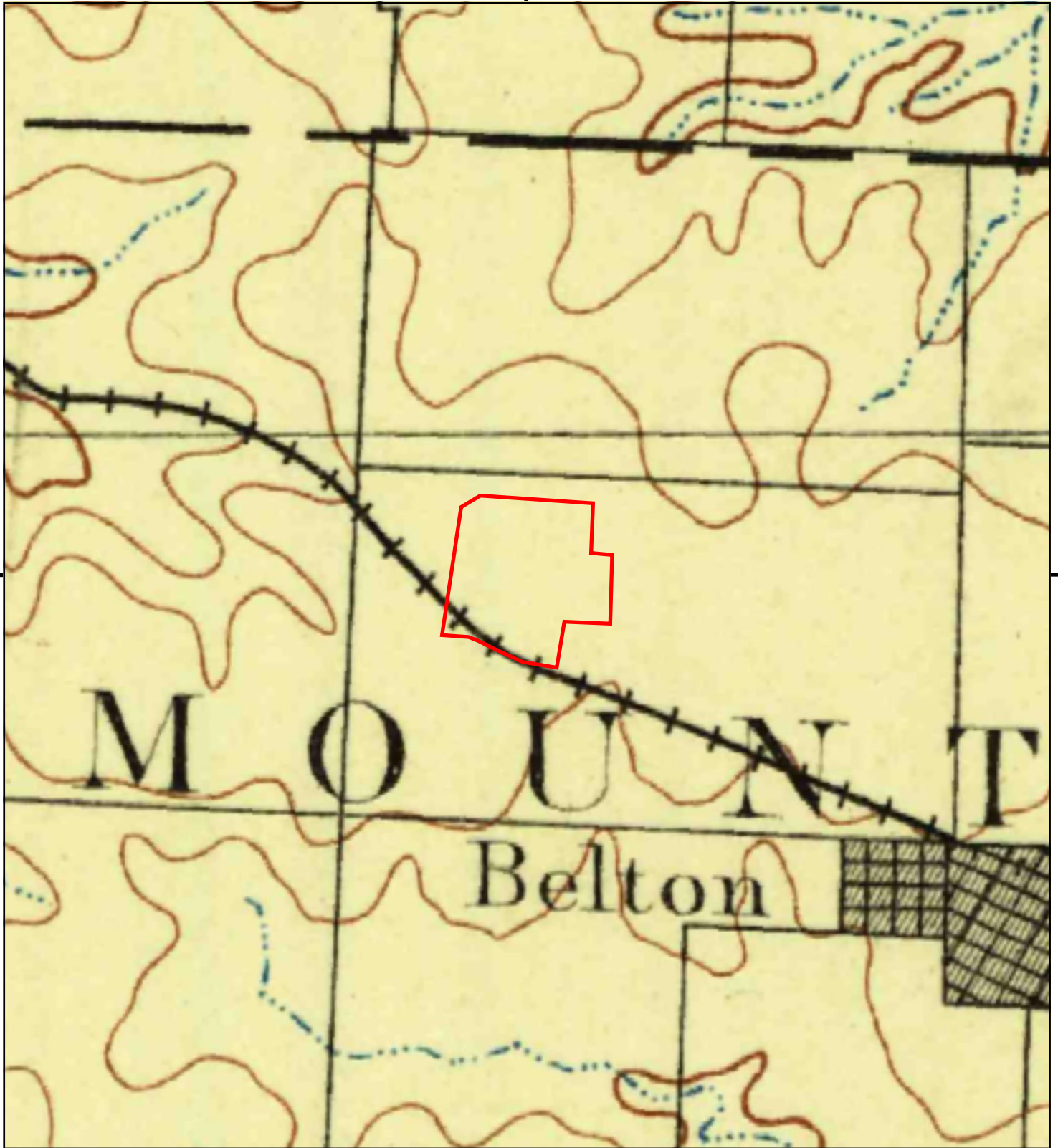


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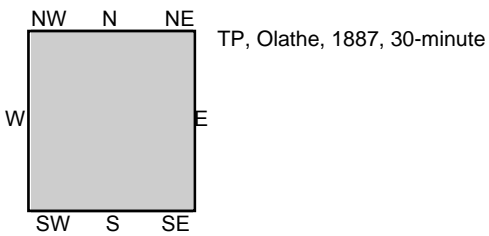


SITE NAME: Markey Business Park  
ADDRESS: Markey Road and Bales Road  
Kansas City, MO 64147  
CLIENT: Seagull Env. Technologies





This report includes information from the following map sheet(s).



SITE NAME: Markey Business Park  
ADDRESS: Markey Road and Bales Road  
Kansas City, MO 64147  
CLIENT: Seagull Env. Technologies



**APPENDIX G**

**ENVIRONMENTAL PROFESSIONAL RESUME**



**COSMO CANACARI**  
*Environmental Scientist*

**SPECIALTIES**

- Targeted Brownfields Assessments
- Removal Site Evaluations
- CERCLA Site Assessments
- Biological Assessments
- Field Screening
- Direct-Push Apparatus and Watercraft Operator

**EDUCATION**

- B.A., Biology, University of Kansas, Lawrence, Kansas

**PROFESIONAL CERIFICATIONS**

- AHERA Asbestos Inspector
- Lead-Based Paint Inspector
- Licensed Apprentice Well Driller Contractor, Missouri

**RELEVANT EXPERIENCE**

Mr. Canacari serves as an Environmental Scientist for Seagull Environmental Technologies, Inc. Mr. Canacari has served as an Environmental Scientist at Seagull Environmental Technologies, Inc., for 5 years. Under the United States Environmental Protection Agency (EPA) Region 7 Mini-Superfund Technical Assessment and Response Team (Mini-START) contract (2009 to present), Missouri Department of Natural Resource (MDNR) Environmental Assessment contract (2013 to present), and City of Springfield, Missouri, Brownfields contract (2013 to present), Mr. Canacari has managed several Targeted Brownfields Assessment (TBA) projects in Missouri, Kansas, Nebraska, and Iowa. Those TBAs have involved completing Phase I and Phase II Environmental Site Assessments (ESA). For those projects, he conducted background research and interviewed involved parties to identify potential contamination at sites, and sampled environmental media via required standard operating procedures (SOP) and protocols. TBAs are conducted at properties that are abandoned, idled, or otherwise unused, where redevelopment and/or expansion has been complicated by environmental contamination that is either real or perceived.

Mr. Canacari has also developed Quality Assurance Project Plans (QAPP) and sampling analysis plans (SAP) for submittal to federal, state, and local agencies to document planning, implementation, and assessment procedures for field projects. These QAPPs and SAPs have documented all site-specific quality assurance and quality control activities required to meet the data quality objectives.

Mr. Canacari also serves as a Geoprobe<sup>®</sup> operator for Seagull. He has conducted direct-push investigations involving the collection of soil, soil gas, and groundwater at numerous EPA and private sector projects.

Mr. Canacari also serves as a watercraft operator for Seagull. He provides technical assistance with biological assessments of large rivers for the City of Kansas City, Missouri. He assists in the collection of water quality monitoring parameters using water quality meters, the collection of surface water samples for water quality analysis, as well as describing in situ habitat conditions at locations on the Missouri and Kansas rivers.

Mr. Canacari has also provided technical assistance with asbestos and lead-based paint building inspections. He has completed certification requirements for asbestos building inspector in multiple states, and lead-based paint inspector for the state of Missouri.

Mr. Canacari has also provided technical assistance with biological assessments for the Missouri Department of Natural Resources (MDNR). The services provided included the collection of water quality monitoring parameters such as in situ macroinvertebrate and fish identification, collection of water samples for water quality analysis, describing and evaluating riparian and overall stream habitat conditions within the surveyed stream reach.

Mr. Canacari has also assisted wildlife biologists with the United States Fish and Wildlife Service (USFWS). While employed with the USFWS, Mr. Canacari provided technical assistance with collection and management of data for wildlife and plant surveys. He was responsible for logging, recording, and data management of the distribution of plants, waterfowl, shorebirds, mule and whitetail deer, and other birds and mammals.

In addition, Mr. Canacari has experience as a field and lab assistant for the Kansas Biological Survey. Mr. Canacari conducted stream and river surveys throughout the Midwest. He was responsible for water sample collection and filtration, macroinvertebrate collection, electroshock fishing, physical habitat assessment, boat operation and navigation, sample preparation, and surveying.

## **Site Assessments**

### Biological site Assessments

In 2010 and 2011, Mr. Canacari conducted biological of assessments of receiving streams at over 150 wastewater treatment facilities across the state of Missouri. For those assessments, Mr. Canacari independently conducted site reconnaissance, contacted and coordinated with facility operators' regarding stream access, verified global positioning satellite coordinates of outfall locations on receiving streams, collected in situ water quality data with a water quality meter and water samples, and reported stream conditions and type and abundance of aquatic organisms.

In addition in Mr. Canacari operates a watercraft and provides technical assistance with the collection of water quality data and water samples from the Missouri River, the Kansas River, and several urban streams for the City of Kansas City, Missouri and the Unified Government of Wyandotte County.

### Brownfields Assessments/Cleanups

Under the EPA Region 7 START, TA, Mini-START contracts, and the City of Springfield Brownfields Consultant contract, Mr. Canacari has managed or participated in over 20 TBAs (including Phase I, Phase II, and Phase III Environmental Site Assessments [ESA], Brownfields Inventory Assessments, and Brownfields Cleanups).

In 2010 Mr. Canacari provided technical assistance with the City of Salina River Channel Survey. The survey was conducted for the City of Salina as a Brownfields discovery effort to assess site areas for possible redevelopment.

In 2011 and 2012 Mr. Canacari managed or provided technical assistance with Phase I and Phase II TBAs conducted for the City of Wichita. In addition to managing those projects Mr. Canacari conducted field work, operated the Geoprobe DPT equipment, and provided technical assistance with soil and groundwater sampling. In addition, Mr. Canacari managed or provided technical assistance for Phase II and Phase III ESAs conducted at the former Chillicothe Correctional Center (CCC) site in Chillicothe, Missouri. Mr. Canacari was the Geoprobe operator and assisted in the collection of petroleum contaminated soils and groundwater at the site.

#### CERCLA Site Assessments and Removal Site Evaluations

Mr. Canacari has participated in a wide variety of site assessment activities that have involved the following types of contaminants: fumigants, solvents, metals, pesticides, herbicides, perchlorate, asbestos, and wastes derived from Former Manufactured Gas Plants (FMGP).

Mr. Canacari has managed on-going site assessment activities involving Geoprobe Direct Push Technology (DPT) equipment at the former Kuhlman Diecasting site in Stanely, Kansas. Mr. Canacari operated Geoprobe DPT equipment and assisted in the collection of samples from many types of media including: surface soil, subsurface soil, surface water, sediment, and groundwater.

Mr. Canacari has managed and provided technical assistance at on-going site assessment activities involving Geoprobe Direct Push Technology (DPT) equipment at the Ogallala Groundwater OU2 site in Ogallala, Nebraska. Mr. Canacari operated Geoprobe DPT equipment and assisted in the collection of subsurface soil and groundwater samples to delineate the vertical and horizontal extent of tetrachloroethene-contaminated soil.

Mr. Canacari has managed and provided technical assistance at on-going site assessment activities involving Geoprobe Direct Push Technology (DPT) equipment at the Valley Park TCE OU2 site in Valley Park, Missouri and the Atlantic Water Supply site in Atlantic, Iowa. Mr. Canacari operated Geoprobe DPT equipment with high resolution vertical profiling tools. Mr. Canacari assisted EPA personnel using a membrane interface probe (MIP) to determine the vertical extent and concentrations of volatile organic compound (VOC) contaminated soils. The MIP was used to determine what depths contained the highest VOC concentration. Mr. Canacari then assisted with the discrete sampling of those VOC contaminated soils.

#### **EMPLOYMENT HISTORY**

Seagull Environmental Technologies, Inc., Overland Park, Kansas, Environmental Scientist, March 2010 to Present.

United States Fish and Wildlife Service, Biological Aide, Crescent Lake National Wildlife Refuge, Ellsworth, Nebraska, April 2009 to October 2009.

Kansas Biological Survey, Lawrence, Kansas, GIS Technician and Field Assistant, February 2006 to January 2008.

#### **TRAINING**

Kansas Department of Wildlife and Parks Boating Education Training, Lawrence, Kansas, 2006

NSC Defensive Driving II, ORUV and ATV Safety Training, Ellsworth, Nebraska, 2009

40-Hour Hazardous Waste Operations Training, Overland Park, Kansas, 2010

CPR and First Aid Certification, Overland Park, Kansas, 2010 to present

Basic Chemistry for Emergency Response Training, Lee's Summit, 2010

8-Hour Hazardous Waste Operations Training, Kansas City Missouri, 2011 to present

8-Hour Hazardous Waste Operations Supervisor Training, Online, 2012

10-Hour OSHA Outreach Training Course for the Construction Industry, Online, 2012

Niton Spectrometer Analyzer Radiation Safety Training, Kansas City, Missouri, 2012  
AHERA Asbestos Inspector Training, Lawrence, Kansas, 2013  
Department of Transportation Hazardous Materials and International Air Transport Association  
Dangerous Goods Training, Kansas City, Missouri, 2014  
Lead-Based Paint Inspector, Lawrence, Kansas, 2015