

PHASE I ENVIRONMENTAL SITE ASSESSMENT

**7.76-ACRE TRACT
(Irvin Tract)
CADDO PARISH, LOUISIANA**

**Prepared for:
FRANKS MANAGEMENT COMPANY
SHREVEPORT, LOUISIANA**

JANUARY 2016

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CK Project No. 13384

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EXECUTIVE SUMMARY

CK Associates (CK) has completed a Phase I Environmental Site Assessment (ESA) for Franks Management Co. (Franks) for an approximately 7.76-acre property located on Leonard Road in Caddo Parish, Louisiana (**Figure 1**). For the purpose of this ESA, “the property” refers to the 7.76 acres of land located in Caddo Parish, Louisiana.

In order to characterize environmental conditions for the project, CK:

- Reviewed federal, state, and local environmental databases;
- Conducted historical research;
- Interviewed pertinent personnel; and
- Performed a site investigation.

CK performed this Phase I ESA in accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-13 for Franks on the property located in Caddo Parish, Louisiana. Any exceptions to, or deletions from, this practice are described in the report. Based on the review of federal, state, and local environmental databases, historical research, interviews, and site investigations, this assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the property. Controlled recognized environmental conditions in connection with adjoining properties were identified as follows:

- On February 14, 2006, a release of wastewater (oily saltwater) from a pipeline operated by the City of Shreveport was reported on the adjacent property directly to the north of the subject property. The release covered approximately seven (7) acres of furrowed land and ditches. Emergency response to the spill resulted in excavation of approximately 15,000 cubic yards of soil contaminated with oil and saltwater. At the direction of the Louisiana Department of Environmental Quality (LDEQ), multiple investigations have been conducted to delineate contamination associated with the oily saltwater release. Hydrocarbon remediation is completed and hydrocarbons no longer present a risk to human health and the environment. Confirmatory sampling of soils was conducted in fall 2013 and included chlorides and Total Petroleum Hydrocarbon-Diesel Range Organics. Elevated chlorides in groundwater may have migrated under subject property but do not pose a hazard to future use of subject property. Corrective actions to address chlorides contamination of the groundwater have not yet been proposed; rather, monitored natural attenuation is the current remedial strategy.

1.0 INTRODUCTION

1.1 Purpose

The purpose of the assessment is to identify any potential RECs located on or in the vicinity of the property located in Caddo Parish, Louisiana, that have, or may have in the past, adversely impacted environmental conditions at the property. The ESA is being conducted in order to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability.

1.2 Scope of Services

CK was retained to investigate the property in order to identify RECs within and adjacent to the property. Investigation procedures comply with ASTM E 1527-13, and the scope of services for this ESA includes the following:

- Research of available federal, state, and local environmental databases for potential RECs on, or within a specified distance of, the property;
- Reviews of historical aerial photographs, Sanborn[®] Fire Insurance Maps, United States Geologic Survey (USGS) topographic maps, and/or published soils and geologic information;
- Interviews with state and local government agency representatives and/or persons knowledgeable of the property regarding documented inspections, violations, incidents, spill response, or past uses of therein;
- Visual observations of accessible portions of the property to identify current and/or historical RECs. Visual observations of accessible portions of properties adjacent to the property were also conducted; and
- Preparation of a written report that identifies whether the property contains potential RECs and whether or not conditions warrant further investigation.

In accordance with the procedures outlined in ASTM E 1527-13, a Phase I ESA typically does not include sampling and analysis of soil and/or groundwater. Additionally, a Phase I ESA typically does not include wetland delineations or surveys for cultural or historic resources, threatened or endangered species, lead based paint, or asbestos containing materials.

1.3 Significant Assumptions

No significant assumptions were made in the preparation of this Phase I ESA.

1.4 Limitations and Exceptions

CK's review of records information and environmental databases included information that was reasonably ascertainable from standard sources. *Reasonably ascertainable* denotes (1) information that is publicly available, (2) information that is obtainable within reasonable time and cost constraints, and (3) information that is practically reviewable. CK's review included information gathered directly from governmental and regulatory agencies as well as an electronic database search performed by Environmental Database Resources, Inc. (EDR). References used in the preparation of this document are included in **Appendix A**. Much of this information was gathered from public records and sources maintained by third parties. Although reasonable care was taken to verify this information, CK does not accept responsibility for errors, omissions or inaccurate information.

CK interviewed available individuals identified as having current and historical knowledge of land use, commercial and residential development, and activities and incidents associated with the property. *Available individuals* include (1) persons with whom contact can be made within reasonable time constraints, and (2) persons willing to share information with interviewers. These individuals were selected based on their employment in state and local government, association with, or proximity to, specific properties, or long-time residence in and knowledge of the area. Significant effort was made to identify and contact individuals possessing direct knowledge of sites; however, no guarantee is made or intended that all individuals with pertinent knowledge of sites were identified and interviewed. Additionally, CK makes no guarantee that information provided during the interviews is free of errors, omissions, or inaccurate information.

Observations made during CK's reconnaissance of the property were limited to (1) sites or portions of sites that were accessible to investigators, and (2) evidence that was visible to the investigators. Observations were based on evidence that was visible to inspectors while walking the property. No ground excavation, vegetation clearing, or physical relocation of obstacles was conducted during site investigations. Accordingly, no guarantee is made or intended that all property conditions were observed.

1.5 Special Terms and Conditions

No significant special terms or conditions with respect to ASTM E 1527-13 standards were made.

1.6 User Reliance

In accordance with ASTM E 1527-13 Section 7.5.2.1, *Reliance*, CK is not required to verify independently the information provided by various sources but may rely on the information unless there is actual knowledge that certain information is incorrect or unless it is obvious that certain information is incorrect based on other information obtained during the course of the investigation or otherwise actually known to the investigators conducting the assessment. However, CK has no indications that the information provided by outside sources is incorrect.

Franks is the user of this ESA. This ESA may be relied upon by Franks.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The property is located just south of the City of Shreveport, in Caddo Parish, Louisiana. The property is bordered to the northeast and southwest by residences. The property is bordered to the north by agricultural land and to the southwest by Leonard Road and agricultural land beyond.

The property is approximately 7.76 acres located in Sections 14 of Township 16 North, Range 13 West. A Site Location Map is presented as **Figure 1**. The legal description is provided in property title documents and included in **Appendix B**.

2.2 Site Vicinity and General Characteristics

This is an irregular shaped piece of property that is predominately an open grassy field. The property consists primarily of nearly level deposits of the Red River alluvial plain, which are Holocene in age. The majority of the alluvial plain area on the property ranges in elevation from 150 to 156 feet mean sea level (msl). The property is located just southeast of Shreveport and is surrounded by residences and agricultural land.

2.3 Current Use of Property

The property is currently vacant.

2.4 Description of Structures, Roads, and Other Improvements on Site

There are no paved roads or other improvements located on this site.

2.5 Current Uses of Adjoining Properties

The property is bordered to the northeast and southwest by residences. The property is bordered to the north by agricultural land and to the southwest by Leonard Road and agricultural land beyond.

3.0 USER PROVIDED INFORMATION

This section describes the information provided by the user, as defined in the ASTM E 1527-13.

3.1 Title Records

A review of title records for the property was not necessary to develop information regarding current or past uses of the property; as such, title information was not requested from Franks. Records at the Caddo Parish Tax Assessor's office were reviewed by CK personnel to determine the history of the property's ownership.

The earliest records of ownership for the property were from 1930, in which Mr. Harry D. Busbey, of Caddo Parish, Louisiana, was the owner. In 1973, Minnie Gruner Busbey, widow of Harry D. Busbey, sold the 7.76 acres, plus other acreage, to Jack Irvin of Caddo Parish, Louisiana. In 1992, Kenneth Peter Irvin, the son of Jack Irvin, inherited the 7.76 acres from his deceased father. Kenneth Peter Irvin continues to be the current property owner. The property has never been developed.

Below is a list of easements that are in effect and active on the property today. The list is arranged by Registry Number as listed in the Conveyance Records of Caddo Parish, Louisiana. This list does not include a full title abstract or full title history – this is for the purposes of the current Phase I ESA only.

Permanent Utility Servitude Affecting the Surface of the 7.76+/- Acre Tract:
Reg. No. 1842785 City of Shreveport (Public utility lines)

Oil and Gas Leases and Related Surface Use Agreements, etc. Affecting the Surface of the 7.76+/-Acre Tract:
Reg. No. 906621 Jack Irvin and Clara Corrales Irvin to Wessely Energy Corporation (OGL Covering Section 15 T16N-R13W)

3.2 Environmental Liens or Activity and Use Limitations

No environmental liens or activity and use limitations were discovered within the title records of the property.

3.3 Specialized Knowledge

Having been hired by Franks to assist with oversight of the February 14, 2006 oily water release on the adjacent property, Franks and CK have specialized knowledge related to REC.

3.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information regarding the environmental history of the property was conveyed to CK.

3.5 Valuation Reduction for Environmental Issues

There is no indication of a valuation reduction due to environmental issues at the property.

3.6 Owner, Property Manager, and Occupant Information

The property is owned by Kenneth Peter Irvin. CK interviewed Mr. Irvin on January 26, 2016.

3.7 Reason for Performing Phase I ESA

This Phase I ESA has been conducted to provide due diligence for property transfer and is intended to permit the user, Franks to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability.

4.0 RECORDS REVIEW

Historical sources, physical setting sources, and regulatory databases were reviewed to evaluate current and past land uses and assess environmental impacts that have occurred or may potentially occur in association with the property.

4.1 Standard Environmental Record Sources

In accordance with ASTM E 1527-13 Section 8.0, *Records Review*, CK conducted a thorough search of federal, state and local government environmental databases

to obtain and review records and/or documents that would aid in the identification of known or potential RECs on or near the property. ASTM E 1527-13 contains a list of records that must be reviewed and the minimum search distance to use.

ASTM E 1527-13 Section 8.2.1, *Standard Federal, State, and Tribal Environmental Record Sources*, requires a review of the following databases and prescribes various search radii:

| | |
|--|-------------------------|
| Federal NPL ¹ Site List | 1.0 mi |
| Federal <i>Delisted</i> NPL Site List | 1.0 mi |
| Federal CERCLIS ² List | 0.5 mi |
| Federal CERCLIS-NFRAP ³ Site List | 0.5 mi |
| Federal RCRA ⁴ CORRACTS ⁵ List | 1.0 mi |
| Federal RCRA Non-CORRACTS TSD ⁶ Site List | 0.5 mi |
| Federal RCRA LQG/SQG ⁷ | 0.25 mi |
| Federal IC/EC ⁸ Registries | 0.5 mi |
| Federal ERNS ⁹ List | 0.25 mi Target Property |
| State-Equivalent CERCLIS List (SHWS) | 0.5 mi State Landfill |
| and/or Solid Waste Disposal Site Lists | 0.5 mi State Leaking |
| UST ¹⁰ Lists | 0.25 mi |
| State-Registered UST Lists | 0.25 mi |
| State IC/EC Registries | 0.5 mi |
| State VCP ¹¹ | 0.5 mi |
| State Brownfield Sites | 0.5 mi |

¹National Priority List

²Comprehensive Environmental Response, Compensation, and Liability Information System

³CERCLIS-No Further Remedial Action Planned

⁴Resource Conservation and Recovery Act

⁵Corrective Action Report

⁶Treatment, Storage, and Disposal Facility

⁷Large or Small Quantity Generator

⁸Institutional Control/Engineering Control

⁹Emergency Response Notification System

¹⁰Underground Storage Tank

¹¹Voluntary Cleanup Program

Information generated by the database search conducted by EDR is contained in **Appendix C**. Additional information was obtained through searching the

LDEQ's Electronic Document Management System (EDMS).

EDR research of the databases indicated one plottable site located within the ASTM-recommended search radii. The plottable site is listed in multiple databases, when combined result in one physical site. The plottable site is further discussed in Section 7.0.

| | |
|----------------------------|------------------|
| <u>Facility Name:</u> | Leonard Rd Spill |
| <u>Facility Location:</u> | Highway 1 South |
| <u>Facility ID:</u> | 142411 (DEQ AI#) |
| <u>Database:</u> | REM, VCP |
| <u>Distance/Direction:</u> | 0.304 mi ENE |

4.2 Additional Environmental Record Sources

ASTM E 1527-13 Section 8.2.3, *Additional Federal, State, Tribal, and Local Environmental Record Sources*, states that one or more additional state or local sources may be checked to enhance and supplement the federal and state sources identified in ASTM E 1527-13 Section 8.2.1. EDR's records search included a review of several additional federal, state, and local databases; these are included in **Appendix C**. Findings from the additional databases are discussed in Section 7.0.

CK reviewed EDMS for the properties identified by EDR and any files for the property. This information is presented in Section 7.0

Water well records obtained by EDR from federal and state agencies were reviewed. The well information and a well location map in relation to the property are included in **Appendix C** with the EDR Report. EDR reported 52 USGS wells and state-registered wells located within a one-mile radius of the property. No water wells are located on the property. Well usage includes monitoring, public supply, industrial supply, domestic supply, piezometers, recovery wells, and "other".

Oil and gas well records were obtained by EDR from the Louisiana Department of Natural Resources. The well information and a well location map in relation to the property are included in **Appendix C** with the EDR Report. EDR reported 33 state-registered oil and gas wells located within a one-mile radius of the property. No oil and gas wells are located on the subject property.

4.3 Physical Setting Sources

4.3.1 USGS 7.5 Minute Topographic Map

The most current United States Geological Survey (USGS) 7.5 Minute Series Topographic Map depicting the area in which the property is located is the "SHREVEPORT EAST, LA" Pre-1998 Topographic Map (**Figure 1**). The average elevation of the property ranges from 150 to 156 feet msl.

4.3.2 Soil Conservation Service Soil Map

According to the United States Department of Agriculture Soil Conservation Service, the property is primarily made up of Armistead and Moreland Clay. These are somewhat poorly drained soils that have a clayey or loamy surface layer and clayey or loamy subsoil. Wetness, slow permeability, and poor tilth are the main limitations of this type of soil.

4.3.3 Flood Insurance Rate Maps

Coverage of the property was provided in the Caddo Parish, Louisiana and Incorporated Areas, Panel 489 of 800, and, Panel 495 of 800. These Panels are referenced from Map Number 22017C0489 F, and, Map Number 22017C0495 F, respectively. Both maps have Effective Dates of April 6, 2000.

The majority of the property is primarily classified as Zone X, having areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood. Extending along the banks of Bayou Pierre and along the major drainage pathways on the property is Zone AE. This refers to base flood elevations determined and special flood hazard areas inundated by 100-year flood.

Copies of the applicable sections of the maps are provided as Figure 2, Maps 2A and 2B.

4.4 Historical Use Information on Property and Adjoining Properties

4.4.1 Local Street Directories

CK personnel reviewed records in the Caddo Parish Tax Assessor's office to determine the ownership history of the property. The earliest records of

ownership for the property were from 1930, in which Mr. Harry D. Busbey, of Caddo Parish, Louisiana, was the owner. In 1973, Minnie Gruner Busbey, widow of Harry D. Busbey, sold the 7.76 acres, plus other acreage, to Jack Irvin of Caddo Parish, Louisiana. In 1992, Kenneth Peter Irvin, the son of Jack Irvin, inherited the 7.76 acres from his deceased father. Kenneth Peter Irvin continues to be the current property owner. Documentation of the historical tenant search is included in **Appendix D**.

4.4.2 Sanborn[®] Fire Insurance Maps

Founded in 1867, the Sanborn Fire Insurance Company produced Sanborn[®] Fire Insurance Maps that document the historical property use of over 12,000 American towns and cities. Known for their tremendous details of size, material composition and minute construction elements of buildings as well as property boundaries and street widths, Sanborn[®] maps provide a valuable tool for completing an ESA in that land use of a property can be monitored in depth over a long period of time. No Sanborn[®] maps with coverage of the property were located. Documentation of the search is included in **Appendix E**.

4.4.3 Historical Topographic Maps

CK reviewed historical quadrangles provided by Environmental Database Resources (EDR) for structures, mines, quarries, clearings, wells, and land use in order to (1) ascertain historical development of the project area, and (2) identify indications of possible RECs. USGS historical topographic maps dating back to 1941 (**Appendix F**) were reviewed. The property is located within the Shreveport East, Louisiana quadrangle on the 15-minute series maps and the Wallace Lake quadrangle on the 7.5-minute series maps. Maps from 1941, 1948, 1955, 1959, 1969, 1980, 1992, and 2012 were reviewed.

1941. The 1941 map depicts the property as undeveloped. An unpaved road runs along the northern border of the property.

1948. The 1948 map depicts the property as undeveloped. An unpaved road runs along the northern border of the property.

1955. The 1955 map depicts the property as undeveloped. An unpaved road runs along the northern border of the property.

1959. The 1959 map depicts the property as undeveloped. An unpaved road runs along the northern border of the property.

1969. The 1969 map depicts the property as undeveloped. An unpaved road runs along the northern border of the property.

1980. The 1959 map depicts the property as undeveloped. The upaved road no longer appears on the map.

1992. The 1992 map depicts the property as undeveloped. Structures appear on the adjacent property to the southwest.

2012. The 2012 map depicts the property as undeveloped.

4.4.4 Historical Aerial Photographs

Historical aerial photographs for the 1949, 1974, 1985, 1989, 1995, 1998, 2005, 2006, 2007, 2009, and 2010 were obtained from EDR and analyzed for information about the property history of the property. The historic aerial photographs obtained from EDR are included in **Appendix G**. Findings are summarized below.

1949

In the 1949 photograph, the property appears to be farmland. Several likely residences are located on adjacent property to the northeast. The properties to the north and southeast are made up of farmland. No structures are located on the property.

1974

In the 1974 photograph, the property appears to be farmland. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. No structures are located on the property.

1985

In the 1985 photograph, the property appears to be farmland. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. No structures are located on the property.

1989

In the 1989 photograph, the property appears to be farmland. Several likely residences are located on adjacent property to the north and south. The properties to the northeast and southeast are made up of farmland. No structures are located on the property.

1995

In the 1995 photograph, the property appears to be farmland. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. No structures are located on the property.

1998

In the 1998 photograph, the property appears to be vacant. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. No structures are located on the property.

2005

In the 2005 photograph, the property appears to be vacant. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. A likely oil and gas facility appears to the east on adjacent property across Leonard Road. No structures are located on the property.

2006

In the 2006 photograph, the property appears to be vacant. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. A likely oil and gas facility is located to the east on adjacent property across Leonard Road. Severe surficial scarring appears on the adjacent property to the northeast. No structures are located on the property.

2007

In the 2007 photograph, the property appears to be vacant. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. A likely oil and gas facility is located to the east on adjacent property across Leonard Road. Severe surficial scarring is located on the adjacent property to the northeast. No structures are located on the property.

2009

In the 2009 photograph, the property appears to be vacant. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. A likely oil and gas facility is located to the east on adjacent property across Leonard Road. Severe surficial scarring is located on the adjacent property to the northeast. A small dirt road appears on the northern area of the property. No structures are located on the property.

2010

In the 2010 photograph, the property appears to be vacant. Several likely residences are located on adjacent property to the northeast and south. The properties to the north and southeast are made up of farmland. A likely oil and gas facility is located to the east on adjacent property across Leonard Road. Severe surficial scarring is located on the adjacent property to the northeast. Some dirt work appears on the northern adjacent property. No structures are located on the property.

4.4.5 Radon

Current federal and state guidelines indicate that concentrations of radon at less than four picoCurries per liter (pCi/L) are non-threatening to human health, concentrations of radon between four and 20 pCi/L pose a risk of long term exposure, and concentrations of radon greater than 20 pCi/L pose an immediate threat to human health.

The EDR Area Radon Information (**Appendix C**) identifies Caddo Parish as a Zone 3 area with a predicted indoor average radon level of less than two pCi/L.

5.0 SITE RECONNAISSANCE

In accordance with ASTM E 1527-13 Section 9.0, *Site Reconnaissance*, field investigations were conducted in order to inspect the property and surrounding areas for structures, oil and gas exploration and production, land use, runoff patterns, and indications of environmental impacts. The investigation was conducted January 18, 2016. Photographs from the investigation are presented in **Appendix H**.

5.1 Methodology and Limiting Conditions

The property was investigated in order to identify RECs, current and historical, that have, or may have in the past, adversely impacted environmental conditions

at the property. ASTM E 1527-13 Section 9.0, *Site Reconnaissance*, addresses aspects of site field investigations. CK, as described in this report, has investigated the property for RECs based on information gathered during historical research, the environmental database review, interviews with pertinent personnel, and field reconnaissance in accordance with ASTM E 1527-13 standards, as applicable and appropriate.

Observations made during CK's reconnaissance of the property were limited to portions of the property that were accessible to investigators, and evidence that was visible to the investigators. Observations were based on evidence that was visible to inspectors while driving or walking the property. No ground excavation or physical relocation of obstacles was conducted during inspections. Accordingly, no guarantee is made or intended that all property conditions were observed.

5.2 General Site Setting

ASTM E 1527-13 Section 9.4.1, *General Site Setting*, addresses current and past use of the property being assessed, adjoining properties, and surrounding areas. The property is located in Caddo Parish, Louisiana. The property is located in an agricultural area. Uses in the vicinity include residential, agricultural properties and oil and gas exploration and production.

5.3 Exterior Observations

The property is currently vacant. The property is bordered to the northeast and southwest by residences. The property is bordered to the north by agricultural land and to the southwest by Leonard Road and agricultural land beyond.

5.3.1 Pits, Ponds, or Lagoons

No pits, ponds or lagoons were observed on the property.

5.3.2 Stained Soil or Pavement

No stained soil was observed on the property.

5.3.3 Stressed Vegetation

No stressed vegetation was observed on the property.

5.3.4 Solid Waste

A stack of PVC pipes were observed in the wooded stretch along the northern border of the property.

5.3.5 Wells

No groundwater wells were observed on the property.

5.3.6 Septic Systems

No septic systems were observed on the property.

5.3.7 Oil and Gas Drilling Activities

No oil and gas drilling activities were observed on the property.

5.3.8 Storage Tanks

No storage tanks were observed at on the property.

5.3.9 Odors

No strong, pungent, or noxious odors were detected on the property or adjacent properties during the property reconnaissance.

5.3.10 Pools of Liquid

No pools of liquid other than ponded rain water were observed on the property.

5.3.11 Drums and Containers

No drums or containers were observed on the property.

5.3.12 Unidentified Substance Containers

No unidentified containers were observed.

5.3.13 Polychlorinated Biphenyls (PCBs)

No PCB-containing equipment was observed at the property.

5.4 Interior Observations

There are no buildings in use at the property.

6.0 INTERVIEWS

Mr. Kenneth Peter Irvin, the current property owner, was interviewed by CK on January 26, 2016. Mr. Irvin indicated that the property has never been developed and he has no knowledge of any environmental concerns at the property.

7.0 EVALUATION

7.1 Findings

As defined in ASTM E 1527-13 Section 1.1.1, 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.

7.1.1 Potential RECs Outside Property Limits

On February 14, 2006, a release of wastewater (oily saltwater) from a pipeline operated by the City of Shreveport was reported on the adjacent property directly to the north of the subject property. The release covered approximately seven (7) acres of furrowed land and ditches. Emergency response to the spill resulted in excavation of approximately 15,000 cubic yards of soil contaminated with oil and saltwater. The emergency response was conducted at the direction of the pipeline operator, the City of Shreveport. The initial response was completed in July 2006. The responsibility for the cleanup was later assumed by Tervita Corporation (Tervita). At the direction of the Louisiana Department of Environmental Quality (LDEQ), multiple investigations have been conducted to delineate contamination associated with the oily saltwater release. The investigations document an Area of Interest (AOI) of approximately 22 acres (impacted lands, ditch areas, and buffer areas) associated with the investigation of the release. On August 31, 2010, the LDEQ approved the *Revised Remedial Investigation Report* (Michael Pisani & Associates, on behalf of Tervita). This Revised Remedial Investigation Report documents that hydrocarbon remediation is completed and hydrocarbons no longer present a risk to human health and the environment. The report further states that residual salt contamination (chlorides and sodium) was present in the soils and groundwater. In November 2012, interim remedial activities were completed to address salt-affected soils. The remedial action generally consisted of the addition of gypsum to displace the salts and the addition of topsoil and organic matter to facilitate returning the land to agricultural use. An Interim Remedial Action Report (MP&A) was submitted to the LDEQ to document completion of the interim soil remediation

and was approved by LDEQ on February 21, 2013. Confirmatory sampling of soils was conducted in fall 2013 and included chlorides and Total Petroleum Hydrocarbon-Diesel Range Organics. Corrective actions to address chlorides contamination of the groundwater have not yet been proposed; rather, monitored natural attenuation is the current remedial strategy. Multiple remedial investigation reports for the property indicate the groundwater under the property is a part of the Red River Alluvial Aquifer and that the water is not used as a drinking water supply in the area, but may be used for irrigation and for drilling rig water supply at oil and gas well sites.

7.2 Opinion

No items of environmental significance were observed at the property or found during the assessment of historical activities at this Site or the adjoining properties.

7.3 Data Gaps

Data gaps are defined in ASTM E 1527-13 Section 3.2.21, *data gap*, as a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. No significant data gaps were encountered during preparation of this ESA.

7.4 Conclusions

CK has performed this Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E 1527-13 for the approximately 7.76-acre property located in Caddo Parish, Louisiana. Any exceptions to, or deletions from this practice are described in Section 1.4, Limitations and Exceptions, of this report. This assessment has revealed no evidence of RECS in connection with the property, but identified a controlled REC associated with the February 14, 2006, release of oily saltwater on the adjacent property.

7.5 Deviations

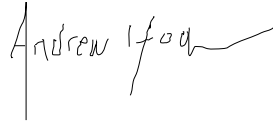
No deletions or deviations from the ASTM Standard Practice E 1527-13 were made during this investigation.

7.6 Signature and Qualifications of Environmental Professional

"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR

312.”

“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. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”

A handwritten signature in black ink that reads "Andrew Hooker". The signature is written in a cursive style with a long horizontal flourish at the end.

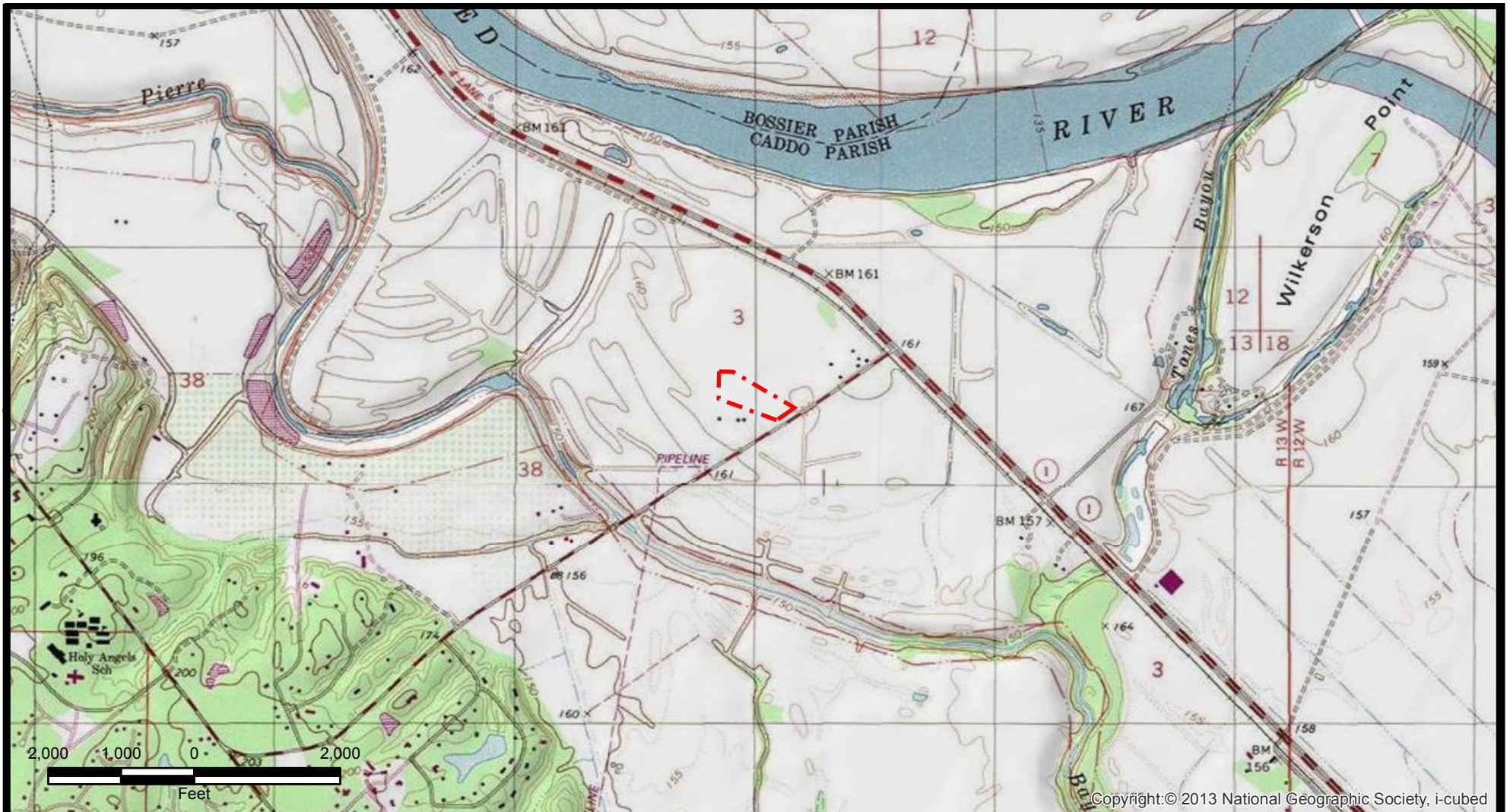
Andrew Hooker
Environmental Scientist II

Mr. Andrew Hooker is an Environmental Scientist with over 10 years of experience in the environmental field and has performed and reviewed numerous environmental studies. Mr. Hooker has a B.S. degree in Environmental Science. Mr. Hooker’s resume is presented in **Appendix I**.

FIGURES

FIGURE 1

SITE VICINITY MAP




Copyright: © 2013 National Geographic Society, i-cubed



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China

Legend

Irvin Tract
 Approx. 7.76 acres



FRANKS MANAGEMENT COMPANY, LLC.
 SHREVEPORT, LOUISIANA

7.76 ACRE - IRVIN TRACT

VICINITY MAP

CADDO PARISH, LOUISIANA

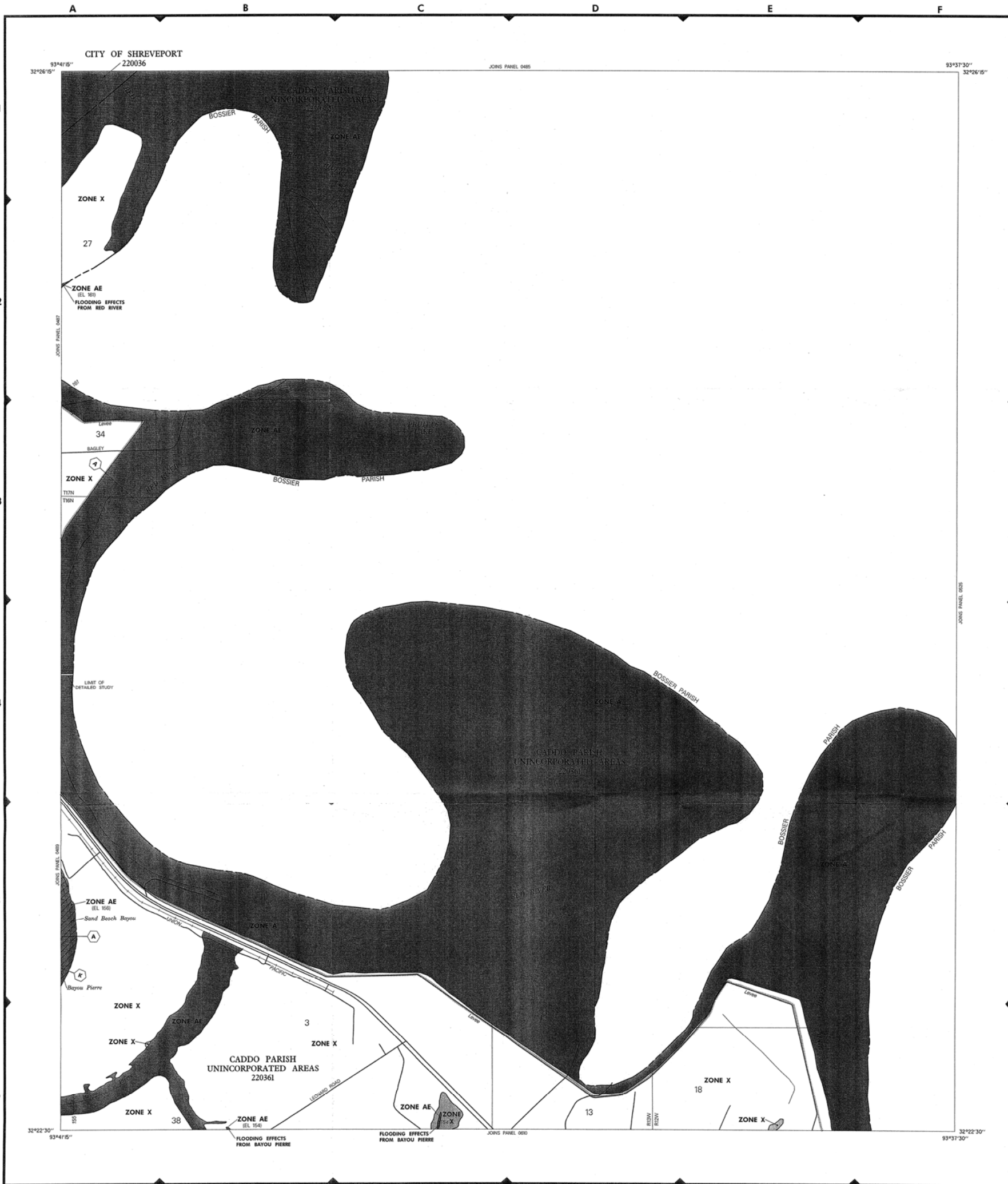


| | |
|-----------|------------|
| Drawn: | ADB/AM10.3 |
| Checked: | ACH |
| Approved: | GRM |
| Date: | 1/21/2016 |
| Dwg. No.: | 13384 |

FIGURE 1

FIGURE 2

FLOOD INSURANCE RATES MAPS



LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet usually areas of ponding; base flood elevations determined.
- ZONE AD** Flood depths of 1 to 3 feet usually sheet flow on slight terrain; average depths determined for areas of flood fan flooding; velocities also determined.
- ZONE APP** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X** Area of 500-year flood area of 100-year flood with average depth of less than 1 foot or with drainage area less than 1 square mile and areas protected by levees from 100-year flood.

OTHER AREAS

- ZONE X** Area determined to be outside 500-year floodplain.
- ZONE D** Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

- Identified 1983
- Identified 1990
- Observed Protected Areas

Coastal barrier areas are normally located within or adjacent to Special Flood Hazard Areas.

Floodplain Boundary
Floodway Boundary
Zone D Boundary

Boundary (Including Special Flood Hazard Zones, and Boundary Dividing Areas of Coastal Base Flood Elevations Within Special Flood Hazard Zones.

Base Flood Elevation Line; Elevation in Feet. See Map Index for Elevation Datum.

Cross Section Line
Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum.

Elevation Reference Mark
River Mile

Horizontal Coordinates Based on North American Datum of 1983 (NAD 83) Projection

NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all pluvial features outside Special Flood Hazard Areas. The community map necessary should be consulted for more detailed data on SFE's, and for any information on floodway determinations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, AH, AD, VE, V, and APP. Areas of Special Flood Hazard (500-year flood) include Zones X, D, and V.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 1/32 inch.

Coastal base flood elevations apply only to landward of 0.0 NGVD, and include the effects of wave action; these elevations may also differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

This map may incorporate approximate boundaries of Coastal Barrier Resource System Units and/or Observed Protected Areas, established under the Coastal Barrier Improvement Act of 1980 (PL 96-589).

For community map revision history prior to countywide mapping, see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels and base map source see separately printed Map Index.

MAP REPOSITORY
Refer to Repository Listing on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:
APRIL 6, 2000

EFFECTIVE DATES OF REVISIONS TO THIS PANEL:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE DATE shown on this map to determine when actual rates apply to structures in zones where elevations or depths have been established.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-0820.

APPROXIMATE SCALE IN FEET

0 1000 2000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CADDO PARISH, LOUISIANA AND INCORPORATED AREAS

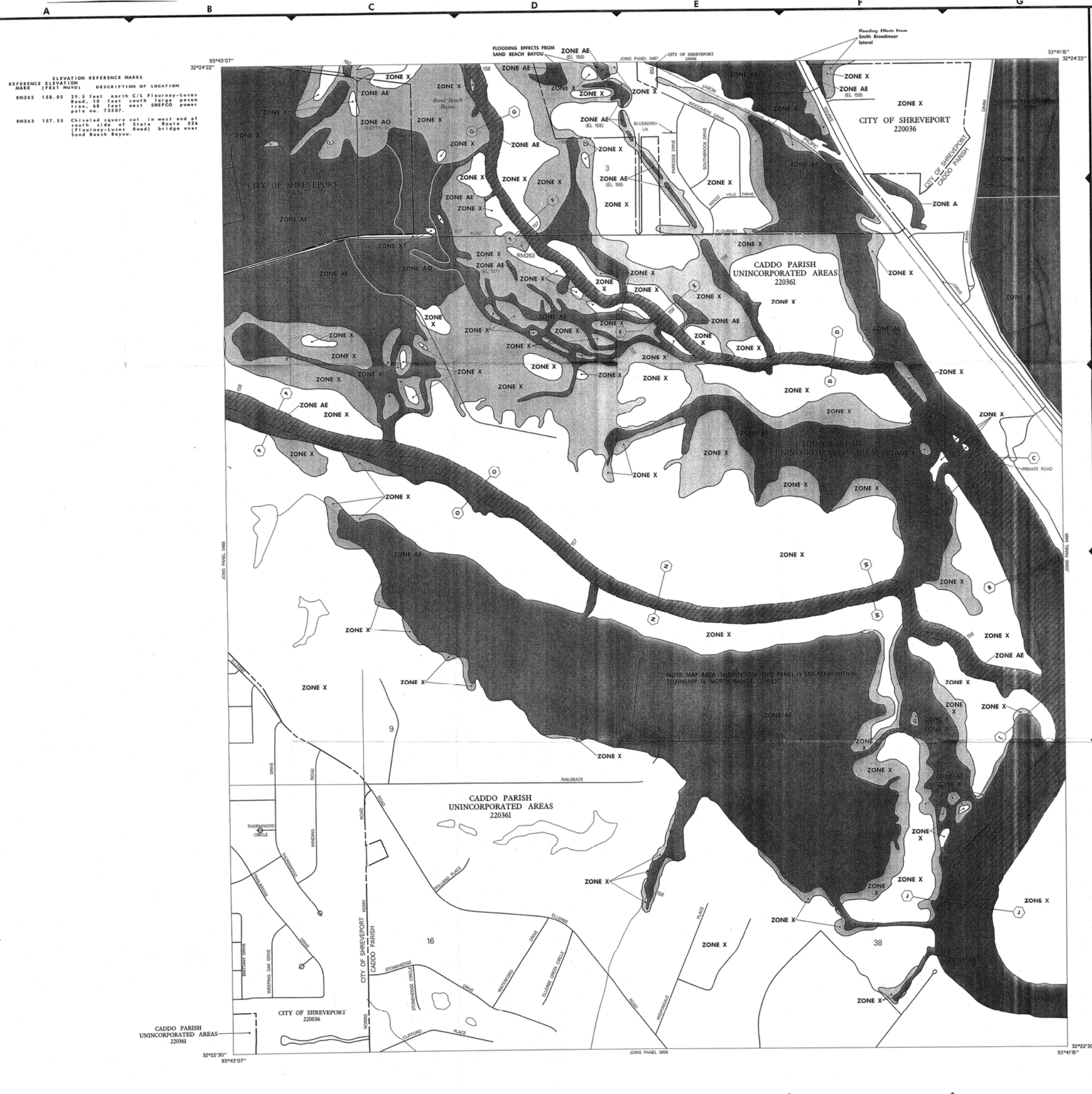
PANEL 495 OF 800
(SEE MAP INDEX FOR PANELS NOT PRINTED)

| CONTAINS COMMUNITY | NUMBER | PANEL | SUFFIX |
|------------------------------------|--------|-------|--------|
| SHREVEPORT, CITY OF | 220036 | 0495 | F |
| CADDO PARISH, UNINCORPORATED AREAS | 220031 | 0495 | F |

MAP NUMBER
22017C0495 F

EFFECTIVE DATE:
APRIL 6, 2000

Federal Emergency Management Agency



ELEVATION REFERENCE MARKS

| MARK (FBI/NOVA) | DESCRIPTION OF LOCATION |
|-----------------|--|
| RM202 158.05 | 29.5 feet north C/L Flourary-Lucas Road, 10 feet south large pecan tree, 68 feet east SREPCO power pole no. 73357. |
| RM263 157.55 | Chiseled square cut in west end of south side of State Route 524 (Flourary-Lucas Road) bridge over Sand Beach Bayou. |

LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet usually areas of ponding; base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet usually short flow on sloping terrain; average depths determined; for areas of unusual flooding, velocities also determined.
- ZONE APF** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X** Area of 500-year flood, area of 100-year flood with average depth of less than 1 foot or with drainage area less than 1 square mile, and areas protected by levees from 100-year flood.

OTHER AREAS

- ZONE D** Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

- Identified 1982
- Identified 1990
- Other

BOUNDARIES

- Floodplain Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Between Special Flood Hazard Zones and Boundary Between Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones
- Base Flood Elevation Line
- Elevation in Feet. See Map Index for Elevation Datum.
- Cross Section Line
- (EL 987)
- RM7
- M2

NOTES

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all elements, features outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on FEMA, and for any information on floodway delineations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, AO, AH, APF, V, VE and X.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpreted between cross sections. The floodways were based on hydrologic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 100 inch.

Coastal base flood elevations apply only to landward of 0.5 NAD, and include the effects of wave action; these elevations may also differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

This map may incorporate approximate boundaries of Coastal Barrier Resources System Units and/or Other Protected Areas established under the Coastal Barrier Improvement Act of 1980 (P.L. 96-350).

For community map revision history prior to countywide mapping, see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels and base map source see separately printed map index.

MAP REPOSITORY

Refer to Repository Listing on Map Index.

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:
APRIL 6, 2000

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE DATE shown on this map to determine when actual rates apply to structures in zones where elevations or depths have been established.

To determine if flood insurance is available contact an insurance agent or call the National Flood Insurance Program at (800) 638-6632.

APPROXIMATE SCALE IN FEET
500 0 500

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CADDO PARISH, LOUISIANA AND INCORPORATED AREAS

PANEL 489 OF 800
(SEE MAP INDEX FOR PANELS NOT PRINTED)

| CONTAINS | COMMUNITY | NUMBER | PANEL | SUFFIX |
|----------|-----------------------------------|--------|-------|--------|
| | SHREVEPORT CITY OF | 220036 | 0489 | F |
| | CADDO PARISH UNINCORPORATED AREAS | 220361 | 0489 | F |

MAP NUMBER
2207C0489 F

EFFECTIVE DATE:
APRIL 6, 2000

Federal Emergency Management Agency

APPENDICES

APPENDIX A

REFERENCES

REFERENCES

- Environmental Data Resources, Inc., Aerial Photo Decade Report, Inquiry Number 4517387.9. January 21, 2016.
- Environmental Data Resources, Inc., Historical Topo Map Report, Inquiry Number 4517387.4. January 20, 2016.
- Environmental Data Resources, Inc., City Directory Image Report, Inquiry Number 4517387.5. January 22, 2016.
- Environmental Data Resources, Inc., EDR Radius Map Report with GeoCheck®, Inquiry Number 4517387.2s. January 20, 2016.
- Environmental Data Resources, Inc., Sanborn® Report, Inquiry Number 4517287.3. January 20, 2016.
- Soil Conservation Service (1980) *Soil Survey of Caddo Parish, Louisiana*. U.S. Department of Agriculture Soil Conservation Service. June 1980.
- United States Geological Survey. "SHREVEPORT EAST [LA]" 1:24,000 Topographic Map, 1992.
- Louisiana Department of Transportation, GIS Well Locator, (Internet).
- Louisiana Department of Natural Resources, SONRIS Database, (Internet).

APPENDIX B

PROPERTY TITLE INFORMATION

**BOUNDARY SURVEY
FOR
FRANKS INVESTMENT COMPANY, L.L.C.
LOCATED IN
SECTION 14 T 16 N - R 13 W, SHREVEPORT, LA.,
CADDO PARISH, LOUISIANA**

EXHIBIT "A"

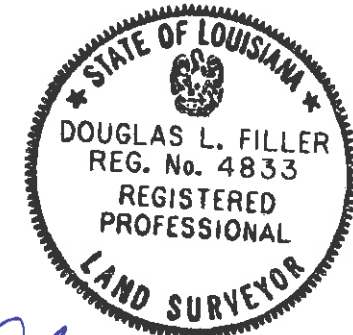
BOUNDARY DESCRIPTION

A 7.761 TRACT OF LAND IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 14, T16N-R13W, CADDO PARISH, LOUISIANA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FORM THE NORTHWEST CORNER OF SAID SOUTHWEST QUARTER OF THE NORTHEAST QUARTER RUN THENCE S 89°11'03" EAST A DISTANCE OF 192.28 FEET (RECORDED EAST-192.7 FEET); RUN THENCE S 59°03'43" E A DISTANCE OF 974.00 FEET (RECORDED S 59°56'E-973.75 FEET) TO THE NORTH RIGHT OF WAY LINE OF LEONARD ROAD; RUN THENCE S 56°33'40"W A DISTANCE OF 287.14 FEET (RECORDED S 56°03'W-300.00 FEET) ALONG SAID NORTH RIGHT OF WAY LINE; RUN THENCE N 70°11'26"W A DISTANCE OF 840.88 FEET (RECORDED 70°15'W-836.34 FEET) TO THE WEST LINE OF SAID SOUTHWEST QUARTER OF NORTHEAST QUARTER, RUN THENCE N 0°27'45" E A DISTANCE OF 376.75 FEET (RECORDED NORTH-373.75 FEET) TO THE POINT OF BEGINNING

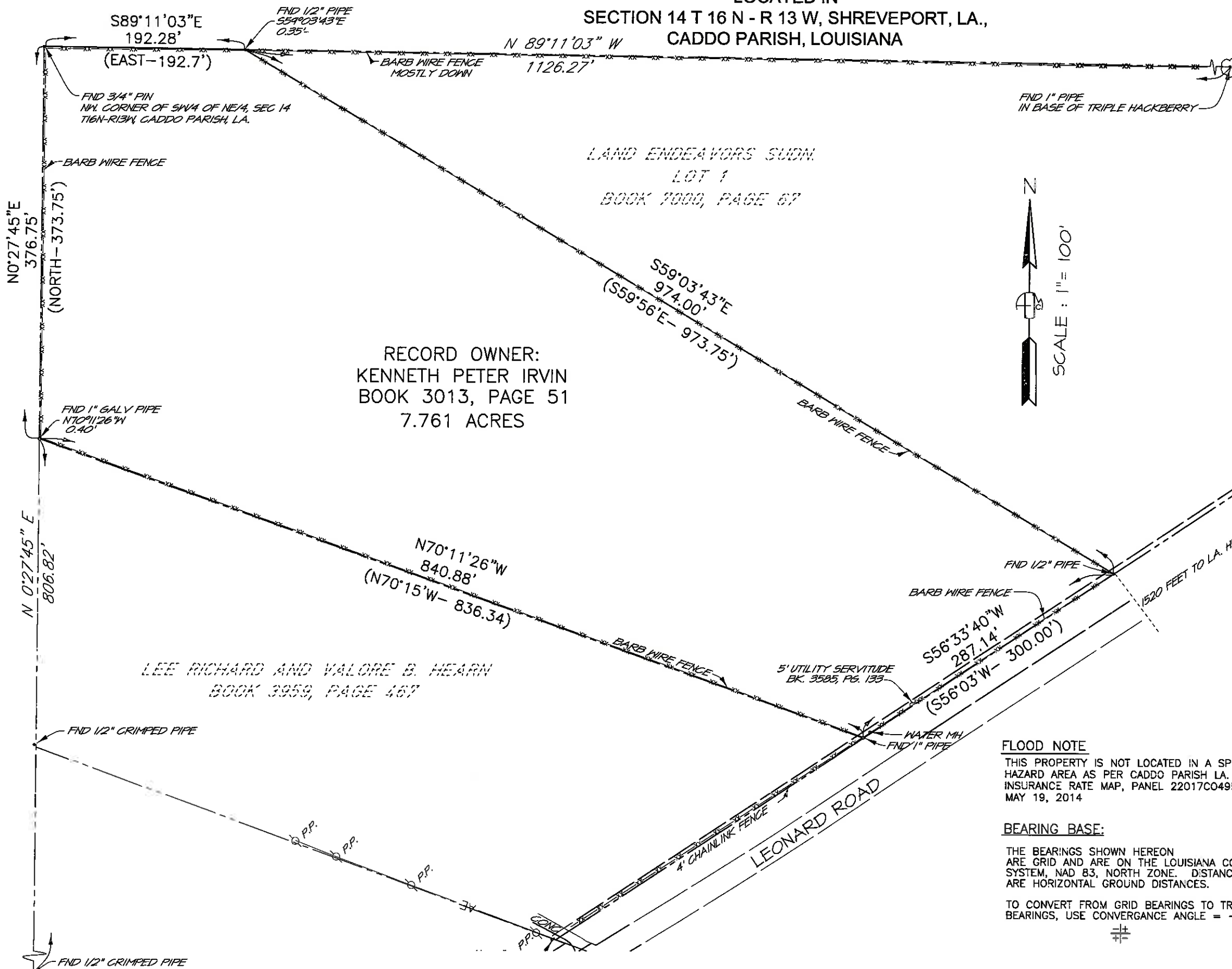
SURVEY CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAT REPRESENTS AN ACTUAL GROUND SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION. THE SERVITUDES AND RESTRICTIONS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE SET FORTH IN THE DESCRIPTION FURNISHED US AND THERE IS NO REPRESENTATION THAT ALL APPLICABLE SERVITUDES AND RESTRICTIONS ARE SHOWN HEREON. THE SURVEYOR HAS MADE NO TITLE SEARCH OR PUBLIC RECORD SEARCH IN COMPILING THE DATA FOR THIS SURVEY.

THIS SURVEY IS IN ACCORDANCE WITH THE LA. "MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS" FOR A CLASS "C" SURVEY.



Douglas L. Filler DATE: 12-22-15
DOUGLAS L. FILLER, P.L.S.
REGISTERED PROFESSIONAL LAND SURVEYOR
LOUISIANA LICENSE NO. 4833



FLOOD NOTE

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS PER CADDO PARISH LA. FLOOD INSURANCE RATE MAP, PANEL 22017CO495 H, DATED MAY 19, 2014

BEARING BASE:

THE BEARINGS SHOWN HEREON ARE GRID AND ARE ON THE LOUISIANA COORDINATE SYSTEM, NAD 83, NORTH ZONE. DISTANCE SHOWN ARE HORIZONTAL GROUND DISTANCES.

TO CONVERT FROM GRID BEARINGS TO TRUE BEARINGS, USE CONVERGENCE ANGLE = -00°37'02"

**AILET,
FENNER,
JOLLY, &
McCLELLAND, Inc.**

Consulting Engineers
3003 KNIGHT STREET, SUITE 120
SHREVEPORT, LOUISIANA 71105
318.425.7452
318.425.4622 fax
afjmc@afjmc.com

585575

CRD. X
V.L. X

585575

STATE OF LOUISIANA

Parish of CADDO

FILED & RECORDED
CADDO PARISH, L.A.

APR 16 4 00 PM '73

Debra J. ...
DEPUTY CLERK & RECORDER

BE IT KNOWN, That this day before me, the undersigned authority, a Notary Public in and for the said Parish, duly commissioned and sworn, came and appeared

MINNIE GRUNER BUSBEY, widow of Harry D. Busbey, a resident of Caddo Parish, Louisiana,

who declared that she do es by these presents, GRANT, BARGAIN, SELL, CONVEY AND DELIVER, with full guarantee of title, and with complete transfer and subrogation of all rights and actions of warranty against all former proprietors of the property herein conveyed, together with all rights of prescription whether acquisitive or liberative, to which said vendor may be entitled, unto

JACK (NMI) IRVIN, husband of Clara Corrales Irvin, a resident of Caddo Parish, Louisiana, whose mailing address is Route 1, Box 546, Shreveport, Louisiana 71105

the following described property, to-wit:

A tract of land located in the Northeast Quarter (NE $\frac{1}{4}$) of Section Fourteen (14), Township Sixteen (16) North, Range Thirteen (13) West, Caddo Parish, Louisiana, being more fully described as follows: Beginning at the Northwest corner of the Southwest Quarter of the Northeast Quarter (SW $\frac{1}{4}$ of NE $\frac{1}{4}$) of said Section 14, run thence East, along the North line, Southwest Quarter of the Northeast Quarter (SW $\frac{1}{4}$ of NE $\frac{1}{4}$) of said Section 14, a distance of Thirteen Hundred Eighteen and 4/10ths (1318.4) Feet to the East line of the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ of NE $\frac{1}{4}$) of said Section 14; run thence North, along said East line a distance of Two Hundred Four and 6/10ths (204.6) Feet; run thence South Thirty-Three Degrees, Fifty-Seven Minutes (33 $^{\circ}$, 57') East a distance of Four Hundred Sixteen (416) Feet to the Northerly right-of-way line of Leonard Road; run thence South Fifty-Six Degrees, Three Minutes (56 $^{\circ}$, 03') West, along said Northerly right-of-way line, a distance of Nine Hundred Twenty and 18/100 (920.18) Feet; run thence North Seventy Degrees, Fifteen Minutes (70 $^{\circ}$, 15') West, a distance of Eight Hundred Thirty-Six and 34/100 (836.34) Feet to the West line of the Southwest Quarter of the Northeast Quarter (SW $\frac{1}{4}$ of NE $\frac{1}{4}$) of said Section 14; run thence North, along said West line a distance of Three Hundred Seventy-Three and 75/100 (373.75) Feet to the point of beginning, containing 16.41 acres, more or less,

TO HAVE AND TO HOLD said described property unto said purchaser, his heirs and assigns forever.

This sale is made for the consideration of the sum of Nineteen Thousand, Six Hundred Ninety-Two and No/100----- Dollars, payable as follows:

---Three Thousand and No/100-----(\$3,000.00)----- Dollars

cash in hand paid, the receipt of which is hereby acknowledged, and the balance in one (1) note/ for \$16,692.00,

of said purchaser, dated with this act, to order of this vendee and _____

by him endorsed in blank, with principal and interest due as follows:

In three (3) equal annual payments of \$5,564.00, said installments being payable on or before one, two and three years from date hereof, without interest.

which note bear s NO per cent, per annum interest from _____

and paraphed "Ne Varietur" of this date by me, Notary, to identify the same herewith.

NOTARY PUBLIC
STATE OF CALIFORNIA
My Comm. Expires _____

In the event of failure to pay any of said notes or said installments when due, or the failure to pay interest promptly when due, or failure to pay the taxes on said property before delinquent or failure to keep said buildings insured, then, and in that event, each and all notes shall immediately become due and collectible at the option of the holder.

And in order to secure the payment of said note____, interest, costs and attorney's fees, a special mortgage and vendor's privilege is hereby stipulated on said property in favor of said vendor, or any future holder of said note____, said purchaser____agreeing not to alienate, deteriorate or encumber said property to the prejudice of this mortgage.

In event of suit for collection of said note or any other amount which may be due under this contract, or when said claims are placed in the hands of an attorney for collection, such purchaser agrees to pay the fees of such attorney at law who may be employed for that purpose, which fees are hereby fixed at ten per cent (10%) on the amount to be collected; and the holder of said note or notes shall be entitled to the appointment of a receiver of the rents and revenues of said premises.

This mortgage waiving benefit of appraisement and importing confession of judgment.

The certificate of mortgage is hereby waived by the parties, and evidence of the payment of taxes produced.

The vendee takes cognizance of all past due and/or current year's taxes and agrees to pay the same.

DONE AND PASSED at my office, in said Parish in presence of the undersigned competent witnesses and me, Notary, on the 16th day of February A. D. Nineteen Hundred and Seventy-Three.

ATTEST:

Wanda Salter
Wanda Salter
Victoria White
Victoria White
James J. Dormer
James J. Dormer

Minnie Gruner Busbey
Minnie Gruner Busbey
Jack Irvin
Jack Irvin
Clara Corrales Irvin
Clara Corrales Irvin
Algie D. Brown
Algie D. Brown, Notary Public.
in and for Caddo Parish, La.

1456518

FILED

DEC 21 1994

DEPUTY CLERK

C 3013

SUCCESSION
OF
JACK IRVIN

*
*
*
*

NUMBER 40325
FIRST JUDICIAL DISTRICT COURT
CADDO PARISH, LOUISIANA

Unassigned

JUDGMENT OF POSSESSION

Considering the Petition of **MADLINE JO IRVIN SMITH, KENNETH PETER IRVIN** (also known as Kenneth Irvin, also known as Keneth Irvin), **CAROL JEAN IRVIN DAVIS** and **MARK T. DAVIS** for Probate of Statutory Will and for Possession Without Administration, to have Decedent's heirs and legatees placed in possession of this estate in accordance with law and Decedent's Will and First Codicil thereto which have been probated in these proceedings, to have the inheritance tax fixed and paid, Affidavits of Death and Heirship, and due proof having been made that the requisite documents relating to these proceedings have been duly filed with the Collector of Revenue for the State of Louisiana, and considering the Louisiana Inheritance and Estate Transfer Tax Return for this estate filed herein, and the payment of all inheritance taxes shown on said Return to be due the State of Louisiana, such payment being evidenced by this Receipt for such taxes given by the Collector of Revenue and filed herein, and finding the law and evidence being in favor of Petitioners:

IT IS ORDERED, ADJUDGED AND DECREED THAT:

I.

The Detailed Descriptive List of properties comprising Decedent's Estate filed herein is approved and homologated.

II.

There is inheritance tax due the State of Louisiana in the Succession of Jack Irvin by the heirs and legatees in the sum of \$1,912.63 and that payment of all said inheritance tax has been made to the Collector of Revenue and no further inheritance tax and no estate transfer tax or federal estate tax is due the State of Louisiana by the heirs and legatees herein.

1456518

RECORDED
INDEXED
NOV 1 1994
CADDO PARISH, LA
CLERK OF COURT

III.

The waiver and renunciation by Mark T. Davis of his right to serve as Testamentary Executor of this Succession and receive compensation herein is approved and homologated;

IV.

Madeline Jo Irvin Smith, Carol Jean Irvin Davis and Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin), hereby accept this Succession with benefit of inventory.

V.

Madeline Jo Irvin Smith is hereby recognized as owner, in full ownership, and placed in possession, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following described property, to-wit:

- (1) A 3.11 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: From the Northwest corner of said Southwest Quarter of Northeast Quarter run thence East 192.7 feet to the point of beginning of the tract herein described, thence run East 345.11 feet, thence run South 56° 57' 15" East 741.15 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along said road 150 feet, thence run North 59° 56' West 973.75 feet to the point of beginning.
- (2) A 3.11 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: From the Northwest corner of said Southwest Quarter of Northeast quarter run thence East 537.81 feet to the point of beginning of the tract herein described, thence run East 528.56 feet, thence run South 33° 57' East 386.5 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along said road 150 feet, thence run North 56° 57' 15" West 741.15 feet to the point of beginning.

VI.

Carol Jean Irvin Davis is hereby recognized as owner, in full ownership, and placed in possession, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following described property, to-wit:

- (1) A 0.905 Acre, more or less, tract of land in the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: From the Northeast corner of the Southwest Quarter of the Northeast Quarter of said Section 14, run thence West 124.36 feet to the point of beginning of the tract herein described, thence run South 36° 33' 54" East 314.99 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along said road 120.55 feet, thence run North 33° 57' West 386.5 feet, thence run East 127.67 feet to the point of beginning.
- (2) A 0.905 Acre, more or less, tract of land in the Northeast quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: Begin at the Northeast corner of the Southwest Quarter of the Northeast Quarter of said Section 14, thence run West 124.36 feet, thence run South 36° 33' 54" East 314.99 feet to the North right-of-way line of Leonard Road, thence run North 56° 03' East along said Road 120.55 feet, thence run North 22° 03' West 219.94 feet, thence run South 78° 06' West 82.64 feet to the point of beginning.
- (3) A 1.072 Acre, more or less, tract of land in the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: From the Northeast corner of the Southwest Quarter of the Northeast Quarter of said Section 14, run thence North 78° 06' East 123.28 feet to the point of beginning of the tract herein described, thence run South 22° 03' East 204.39 feet to the North right-of-way line of Leonard Road, thence run North 56° 03' East along said road 256 feet, thence run North 33° 57' West 198.76 feet, thence run South 56° 03' West 214.12 feet to the point of beginning, together with all buildings and improvements located thereon.

VII.

Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin) is hereby recognized as owner, in full ownership, and placed in possession, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following described property, to-wit:

- (1) A 3.919 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: From the Northwest corner of said Southwest Quarter of the Northeast Quarter run thence South 110.75 feet to the point of beginning of the tract herein described; thence run South 63° 07' 52" East 1021.89 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along Leonard Road 150 feet, thence run North 70° 15' West 836.34 feet to the West line of said Southwest Quarter of Northeast Quarter, thence run North 263 feet to the point of beginning.
- (2) A 3.919 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: Begin at the Northwest corner of said Southwest Quarter of Northeast Quarter, thence run South 110.75 feet; thence run South 63° 07' 52" East 1021.89 feet to the North right-of-way line of Leonard Road; thence run North 56° 03' East along said road 150 feet; thence run North 59° 56' West 973.75 feet to the North line of said Southwest Quarter of the Northeast Quarter, thence run West 192.7 feet to the point of beginning.
- (3) One Kubota Tractor, Model #L210, Serial #20875, and all equipment and accessories that are used with said tractor.

VIII.

Madeline Jo Irvin Smith and Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin) are hereby recognized as owners, in full ownership, and placed in possession, in equal shares (one-half each), in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following property, to-wit:

A 2.32 Acre, more or less, tract of land in the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: Begin at the Northeast corner of the Southwest Quarter of the Northeast Quarter of Section 14, thence run North 588.8 feet, thence run South 33° 57' East 534.04 feet, thence run South 56° 03' West 214.12 feet, thence run South 22° 03' East 204.39 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West 40.88 feet, thence run North 22° 03' West 219.94 feet, thence run South 78° 06' West 82.64 feet to the point of beginning.

IX.

Madeline Jo Irvin Smith, Carol Jean Irvin Davis and Kenneth Peter Irvin

(also known as Kenneth Irvin, also known as Keneth Irvin) are hereby recognized as owners, in full ownership, and placed in possession, in equal shares (one-third each) in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

- (a) PREMIER BANK, N.A.:
 - (1) Collection Note No. 021-00019, dated March 22, 1987, held for collection at Premier Bank, Shreveport, owned by Mr. and Mrs. Jack Irvin; Payor: Wendell Brooks in the original amount \$25,775.00
 - (2) Checking Account No. 774-287-8 in the name of Jack Irvin or Madeline J. Smith
- (b) HOME FEDERAL SAVINGS AND LOAN:
 - (1) Certificate of Deposit No. 1-02-74-004239 in the principal amount of \$10,000.00
 - (2) Certificate of Deposit No. 1-02-01-006397 In the principal amount of \$37,000.00;
 - (3) Savings Account No. 0-02-00-112506, in the name of Jack Irvin or Madeline J. Smith
- (c) First National Bank of Commerce Money Market Account No. 2053-39808
- (d) Pioneer Bank and Trust Company Certificate of Deposit No. 67222 in the principal amount of \$37,000.00
- (e) OAKTREE FEDERAL SAVINGS BANK
 - (1) Certificate of Deposit No. 5102038579 in the principal amount of \$35,231.60
 - (2) Money Market Account No. 5110014695
- (f) One 1984 Oldsmobile Delta 88 automobile, VIN# C4630851
- (g) An undivided .00505160 mineral interest in and to the oil, gas and other minerals in and under and that may be produced from the following described property:

Four tracts of land located in Section 14, Township 16 North, Range 13

West, Caddo Parish, Louisiana,
containing approximately 20.51 acres
more or less

- (h) Miscellaneous household furniture and furnishings
- (i) Clothing, jewelry and other miscellaneous personal items of Decedent.

All other properties and assets of every nature and kind and wherever situated belonging to Jack Irvin whether described or not.

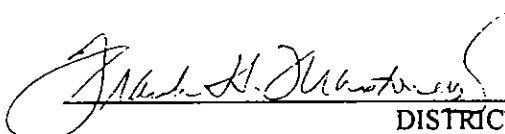
X.

All depositories, banks, corporations, institutions or persons having in their possession any monies or properties belonging to the Succession of Jack Irvin be and they are hereby authorized and directed to deliver said properties unto the legatees and owners thereof in accordance herewith, and upon proper endorsement and surrender of all stocks, bonds or other certificates of ownership issued to Decedent or Decedent's estate, same shall be transferred unto the heirs and owners thereof as hereinabove set forth.

XI.

No administration of this Succession is necessary, and Mark T. Davis is hereby discharged of his responsibility to qualify as Testamentary Executor of this Succession and released from any liability or responsibility in said capacity.

JUDGMENT RENDERED, READ AND SIGNED in Shreveport, Caddo Parish, Louisiana, this 20th day of December, 1994.


DISTRICT JUDGE

Judgment prepared by:

W. James Hill, III
SMITHERMAN, LUNN, CHASTAIN & HILL
Eighth Floor
Commercial National Bank Building
333 Texas Street
Shreveport, Louisiana 71101-3673

132996S

FILED

JAN - 7 1992

[Signature]
DEPUTY CLERK

SUCCESSION
OF
CLARA CORRALES IRVIN

NUMBER 377,182
FIRST JUDICIAL DISTRICT COURT
CADDO PARISH, LOUISIANA

REC. CONV. BOOK 2790

FILED & RECORDED
CADDO PARISH, LA.
JAN 7 1992
Unassigned
DEPUTY CLERK & RECORDER
[Signature]

JUDGMENT OF POSSESSION

Considering the Petition of JACK IRVIN, MADELINE JO IRVIN SMITH,

KENNETH PETER IRVIN (also known as Kenneth Irvin, also known as Keneth Irvin) and CAROL JEAN IRVIN DAVIS for Probate of Statutory Will and for Possession Without Administration, to have Decedent's heirs and legatees placed in possession of this estate in accordance with law and Decedent's Will and First Codicil thereto which have been probated in these proceedings, to have the inheritance tax fixed and paid, Affidavits of Death and Heirship, and due proof having been made that the requisite documents relating to these proceedings have been duly filed with the Collector of Revenue for the State of Louisiana, and considering the Louisiana Inheritance and Estate Transfer Tax Return for this estate filed herein, and the payment of all inheritance taxes shown on said Return to be due the State of Louisiana, such payment being evidenced by this Receipt for such taxes given by the Collector of Revenue and filed herein, and finding the law and evidence being in favor of Petitioners:

IT IS ORDERED, ADJUDGED AND DECREED THAT:

I.

The Detailed Descriptive List of properties comprising Decedent's Estate filed herein is approved and homologated.

II.

There is inheritance tax due the State of Louisiana in the Succession of Clara Corrales Irvin by the heirs and legatees in the sum of \$214.87 and that payment of all said inheritance tax has been made to the Collector of Revenue and no further inheritance tax and no estate transfer tax or federal estate tax is due the State of Louisiana by the heirs and legatees herein.

132996S

III.

The waiver and renunciation by Jack Irvin of his right to serve as Testamentary Executor of this Succession and receive compensation herein is approved and homologated;

IV.

Jack Irvin, as Decedent's surviving spouse in community, is recognized as owner, in his own right, and is hereby placed in possession of an undivided one-half interest in all property belonging to the community of acquets and gains existing between him and Decedent at the time of her death, together with the usufruct, to continue for his lifetime, of all of the property of Decedent bequeathed to Madeline Jo Irvin Smith, Carol Jean Irvin Davis and Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin), in accordance with Decedent's Will and Codicil thereto.

V.

Jack Irvin, Madeline Jo Irvin Smith, Carol Jean Irvin Davis and Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin), hereby accept this Succession simply and unconditionally.

VI.

Madeline Jo Irvin Smith is hereby recognized as owner, in full ownership, and placed in possession, subject to the usufruct of Jack Irvin for his lifetime, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following described property, to-wit:

- (1) A 3.11 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: From the Northwest corner of said Southwest Quarter of Northeast Quarter run thence East 192.7 feet to the point of beginning of the tract herein described, thence run East 345.11 feet, thence run South 56° 57' 15" East 741.15 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along said road 150 feet, thence run North 59° 56' West 973.75 feet to the point of beginning.

- (2) A 3.11 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: From the Northwest corner of said Southwest Quarter of Northeast quarter run thence East 537.81 feet to the point of beginning of the tract herein described, thence run East 528.56 feet, thence run South 33° 57' East 386.5 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along said road 150 feet, thence run North 56° 57' 15" West 741.15 feet to the point of beginning.

VII.

Carol Jean Irvin Davis is hereby recognized as owner, in full ownership, and placed in possession, subject to the usufruct of Jack Irvin for his lifetime, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following described property, to-wit:

- (1) A 0.905 Acre, more or less, tract of land in the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: From the Northeast corner of the Southwest Quarter of the Northeast Quarter of said Section 14, run thence West 124.36 feet to the point of beginning of the tract herein described, thence run South 36° 33' 54" East 314.99 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along said road 120.55 feet, thence run North 33° 57' West 386.5 feet, thence run East 127.67 feet to the point of beginning.
- (2) A 0.905 Acre, more or less, tract of land in the Northeast quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: Begin at the Northeast corner of the Southwest Quarter of the Northeast Quarter of said Section 14, thence run West 124.36 feet, thence run South 36° 33' 54" East 314.99 feet to the North right-of-way line of Leonard Road, thence run North 56° 03' East along said Road 120.55 feet, thence run North 22° 03' West 219.94 feet, thence run South 78° 06' West 82.64 feet to the point of beginning.
- (3) A 1.072 Acre, more or less, tract of land in the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: From the Northeast corner of the Southwest Quarter of the Northeast Quarter of said Section 14, run thence North 78° 06' East 123.28 feet to the point of beginning of the tract herein described, thence run South 22° 03' East

204.39 feet to the North right-of-way line of Leonard Road, thence run North 56° 03' East along said road 256 feet, thence run North 33° 57' West 198.76 feet, thence run South 56° 03' West 214.12 feet to the point of beginning.

VIII.

Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin) is hereby recognized as owner, in full ownership, and placed in possession, subject to the usufruct of Jack Irvin for his lifetime, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following described property, to-wit:

- (1) A 3.919 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: From the Northwest corner of said Southwest Quarter of the Northeast Quarter run thence South 110.75 feet to the point of beginning of the tract herein described; thence run South 63° 07' 52" East 1021.89 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West along Leonard Road 150 feet, thence run North 70° 15' West 836.34 feet to the West line of said Southwest Quarter of Northeast Quarter, thence run North 263 feet to the point of beginning.
- (2) A 3.919 Acre, more or less, tract of land in the Southwest Quarter of the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana and being more particularly described as follows: Begin at the Northwest corner of said Southwest Quarter of Northeast Quarter, thence run South 110.75 feet; thence run South 63° 07' 52" East 1021.89 feet to the North right-of-way line of Leonard Road; thence run North 56° 03' East along said road 150 feet; thence run North 59° 56' West 973.75 feet to the North line of said Southwest Quarter of the Northeast Quarter, thence run West 192.7 feet to the point of beginning.
- (3) One Kubota Tractor, Model #L210, Serial #20875, and all equipment and accessories that are used with said tractor.

IX.

Madeline Jo Irvin Smith and Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin) are hereby recognized as owners, in full ownership, and

placed in possession, in equal shares (one-half each), subject to the usufruct of Jack Irvin for his lifetime, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following property, to-wit:

A 2.32 Acre, more or less, tract of land in the Northeast Quarter of Section 14, Township 16 North, Range 13 West, Caddo Parish, Louisiana, and being more particularly described as follows: Begin at the Northeast corner of the Southwest Quarter of the Northeast Quarter of Section 14, thence run North 588.8 feet, thence run South 33° 57' East 534.04 feet, thence run South 56° 03' West 214.12 feet, thence run South 22° 03' East 204.39 feet to the North right-of-way line of Leonard Road, thence run South 56° 03' West 40.88 feet, thence run North 22° 03' West 219.94 feet, thence run South 78° 06' West 82.64 feet to the point of beginning.

X.

Madeline Jo Irvin Smith, Carol Jean Irvin Davis and Kenneth Peter Irvin (also known as Kenneth Irvin, also known as Keneth Irvin) are hereby recognized as owners, in full ownership, and placed in possession, in equal shares (one-third each) subject to the usufruct of Jack Irvin for his lifetime, in accordance with Decedent's Will and Codicil thereto, of the following described property, to-wit:

An undivided one-half (1/2) interest in and to the following property, to-wit:

(a) **PREMIER BANK, N.A.:**

- (1) Collection Note No. 021-00019, dated March 22, 1987, held for collection at Premier Bank, Shreveport, owned by Mr. and Mrs. Jack Irvin; Payor: Wendell Brooks in the original amount \$25,775.00
- (2) Checking Account No. 774-287-8 in the name of Clara C. Irvin or Madeline J. Smith

(b) **FIRST FEDERAL SAVINGS AND LOAN ASSOCIATION OF SHREVEPORT:**

- (1) Certificate of Deposit No. 1040475012 in Account No. 80310 in the principal amount of \$10,000.00, bearing interest at the rate of 9.50% with a maturity date of 5/06/90, in the name of Clara C. Irvin or Madeline J. Smith

- (2) Certificate of Deposit No. 1040475020 in Account No. 80310 in the principal amount \$15,000.00, bearing interest at the rate of 9.25% with a maturity date of 5/22/90, in the name of Clara C. Irvin or Madeline J. Smith
 - (3) Savings Account No. 40636003, in the original principal amount of \$7,412.10, bearing interest at the rate of 5.50%, in the name of Clara C. Irvin or Madeline J. Smith
 - (4) Certificate of Deposit No. 1040460386 in Account No. 80310 in the principal amount of \$11,107.56, bearing interest at the rate of 9.05%, with a maturity date of 5/07/94, in the name of Clara C. Irvin or Madeline J. Smith
 - (5) Certificate of Deposit No. 1040460378 in Account No. 80310 in the principal amount \$23,344.84, bearing interest at the rate of 8.00% with a maturity date of 6/06/94, in the name of Clara C. Irvin or Madeline J. Smith
- (c) HOME FEDERAL SAVINGS & LOAN ASSOCIATION OF SHREVEPORT:
- (1) Passbook Savings #02-110059 at Home Federal Savings & Loan Association of Shreveport in the name of Clara C. Irvin or Madeline J. Smith
 - (2) Certificate of Deposit #02-01006397 at Home Federal Savings & Loan Association of Shreveport in the name of Jack Irvin or Madeline J. Smith
 - (3) Certificate of Deposit #02-74004239 at Home Federal Savings & Loan Association of Shreveport in the name of Jack Irvin or Madeline J. Smith
- (d) One 1984 Oldsmobile Delta 88 automobile, VIN #C4630851
- (e) Miscellaneous household furniture and furnishings
- (f) Clothing, jewelry and other miscellaneous personal items of Decedent.

All other properties and assets of every nature and kind and wherever situated belonging to Clara Corrales Irvin whether described or not.

XI.

All depositories, banks, corporations, institutions or persons having in their possession any monies or properties belonging to the Succession of Clara Corrales Irvin be

and they are hereby authorized and directed to deliver said properties unto the legatees and owners thereof in accordance herewith, and upon proper endorsement and surrender of all stocks, bonds or other certificates of ownership issued to Decedent or Decedent's estate, same shall be transferred unto the heirs and owners thereof as hereinabove set forth.

XII.

No administration of this Succession is necessary, and Jack Irvin is hereby discharged of his responsibility to qualify as Testamentary Executor of this Succession and released from any liability or responsibility in said capacity.

JUDGMENT RENDERED, READ AND SIGNED in Shreveport, Caddo Parish, Louisiana, this 3rd day of January 1992


DISTRICT JUDGE

Judgment prepared by:

W. James Hill, III
SMITHERMAN, LUNN, CHASTIN & HILL
Eighth Floor
Commercial National Bank Building
333 Texas Street
Shreveport, Louisiana 71101-3673

906621

CONY.

THE H. L. BATH COMPANY
BATH'S FORM

BATH'S FORM LOUISIANA SPEC. 14-BR1-2A-PX-PAID UP

OIL, GAS AND MINERAL LEASE

THIS AGREEMENT made this 17th day of March, 1982 between

JACK (no middle name or initial) IRVIN and CLARA CORRALES IRVIN
and wife, whose permanent mailing address is:

Route 1, Box 546
Shreveport, Louisiana 71105

FILED & RECORDED
CADDOPARISH, LA.
MAY 4 2 10 PM '82
DEPUTY CLERK & RECORDER

906621

lessor (whether one or more), and WESSELY ENERGY CORPORATION, 2001 Bryan Tower, Suite 953, Dallas, TX 75201
lessee, WITNESSETH:

1. Lessor in consideration of Ten and other valuable considerations----- Dollars (\$ 10.00 & OVC), in hand paid, of the royalties herein provided, and of the agreement of Lessee herein contained, hereby grants, leases and lets exclusively unto Lessee for the purposes of investigating, exploring, prospecting, drilling and mining for and producing oil, gas and all other minerals, laying pipe lines, building tanks, power stations, telephone lines, and other structures thereon to produce, save, take care of, treat, transport and own said products and for dredging and maintaining canals, constructing roads and bridges, and building houses for its employees, and, in general, for all appliances, structures, equipment, servitudes and privileges which may be necessary, useful or convenient to or in connection with any such operations conducted by Lessee thereon, or on any adjacent lands, the following described land in CADDO Parish, Louisiana, to-wit: See attachment:

TOWNSHIP 16 NORTH, RANGE 13 WEST

SECTION 14: FIRST TRACT: 1.00 acres, more or less, being part of Section 14, Township 16 North, Range 13 West of Caddo Parish, Louisiana and being more particularly described as follows: From the intersection of the West Right of Way line of the T&P Railroad with the North Right of Way line of the Leonard Road, thence South 56 Degrees 03 minutes West along Leonard Road Right of Way 585 feet to beginning, THENCE North 33 degrees 57 minutes West 200 feet, THENCE SOUTH 56 degrees 03 minutes West 217.8 feet, THENCE South 33 degrees 57 minutes East 200 feet to Leonard Road, THENCE North 56 degrees 03 minutes East along same 217.8 feet to Point of Beginning, being in the East Half of the Northeast Quarter of Section 14.

SECOND TRACT: 1.87 acres, being more particularly described as follows: From the intersection of the North Right of Way line of Leonard Road with the West Right of Way line of the T&P Railroad, run South 56 degrees 03 minutes West along Leonard Road 585 feet, THENCE North 33 degrees 57 minutes West 200 feet to Point of Beginning: Run THENCE North 33 deg. 57 minutes West 532.8 feet, THENCE South 384.2 feet, THENCE South 33 deg. 57 minutes East 216 feet, THENCE North 56 degrees 03 minutes East 217.8 feet to Point of Beginning.

THIRD TRACT: 1.19 acres, being more particularly described as follows: From the intersection of the North Right of Way line of Leonard Road with the West Right of Way line of the T&P Railroad, Run South 56 deg. 03 minutes along Leonard Road 802.8 feet to Point of Beginning: Run THENCE North 33 degrees 57 minutes West 416 feet to West line of the Northeast quarter, Section 14 (16-13), Run THENCE South to North Right of Way line of said Leonard Road, Northeasterly along same to Point of Beginning.

FOURTH TRACT: 16.45 acres, more or less, more particularly described as follows: That part of the Southwest Quarter of the Northeast Quarter of Section 14 (16-13), lying Northwesterly of Leonard Road, less triangular tract in Southwest corner measuring 805.35 feet on West line and 954.62 feet on Northwesterly line of said Leonard Road.

Signed for Identification:

Jack Irvin
Jack Irvin

Clara Corrales Irvin
Clara Corrales Irvin

7-11-1

Wherever the fraction one-eighth (1/8th) appears herein regarding royalty, the same is hereby deemed changed to read one-sixth (1/6th).

Comprising 20.51 acres, more or less.

This lease also covers and includes battures, accretions and all other land owned by Lessor adjacent to the land particularly described above.

2. Subject to the other provisions herein contained, this lease shall be for a period of THREE years from this date (called "primary term") and as long thereafter as (1) oil, gas, sulphur or other mineral is produced from said land hereunder or from land pooled therewith; or (2) it is maintained in force in any other manner herein provided.

(a) It is the intention of the parties that this lease shall also extend and apply to all outstanding mineral rights or servitudes affecting the lands herein described as the same may revert to Lessor, his heirs, or assigns, from time to time.

3. For the consideration hereinabove recited, this lease shall remain in full force and effect during the primary term, without any additional payment and without Lessee being required to conduct any operations on the land (either before or after the discovery of minerals), except to drill such wells as might be necessary to protect the land from drainage, as hereinafter provided.

4. The royalties to be paid by Lessee are: (a) on oil, and other hydrocarbons which are produced at the well in liquid form by ordinary production methods, ~~one-eighth~~ of that produced and saved from said land, same to be delivered at the wells or to the credit of Lessor in the pipe line to which the wells may be connected; Lessor's interest in either case to bear its proportion of any expenses for treating the oil to make it marketable as crude; Lessee may from time to time purchase any royalty oil or other liquid hydrocarbons in its possession, paying the market price therefor prevailing for the field where produced on the date of purchase; (b) on gas, including casinghead gas, or other gaseous substance produced from said land and sold or used off the premises or for the extraction of gasoline or other products therefrom, the market value at the well of ~~one-eighth~~ of the gas so sold or used, provided that on gas sold at the wells the royalty shall be one-eighth of the amount realized from such sale; such gas, casinghead gas, residue gas, or gas of any other nature or description whatsoever, as may be disposed of for no consideration to Lessee, either through unavoidable waste or leakage, or in order to recover oil or other liquid hydrocarbons, or returned to the ground, shall not be deemed to have been sold or used either on or off the premises within the meaning of this paragraph 3 hereof; (c) on all other minerals mined and marketed, ~~one-eighth~~, either in kind or value at the well or mine, at Lessee's election, except that on sulphur the royalty shall be one dollar (\$1.00) per long ton. 1/6

5. If Lessee during or after the primary term should drill a well capable of producing gas or gaseous substances in paying quantities, (or which although previously produced Lessee is unable to continue to produce) and should Lessee be unable to operate said well because of lack of market or marketing facilities or governmental restrictions, then Lessee's rights may be maintained beyond or after the primary term without production of minerals or further drilling operations by paying Lessor as royalty Twenty and 51/100 Dollars (\$ 20.51) per year, the first payment being due, if said well should be completed or shut-in after the primary term, within sixty (60) days after the completion of such well or the cessation of production and such payment will extend Lessee's rights for one year from the date of such completion or cessation. If such a well should be completed during the primary term, the first payment, if made by Lessee, shall be due on or before the expiration date of the primary term herein fixed. Thereafter Lessee's rights may be continued from year to year by making annual payments in the amount stated on or before the anniversary date beginning with the date of completion of said well (if completed after the primary term) or the end of the primary term (if completed prior thereto) as the case may be: each of such payments to extend Lessee's rights for one year. It is provided, however, that in no event shall Lessee's rights be so extended by annual payments herein fixed without drilling operations or the production of oil, gas or some other mineral for more than five (5) years beyond the end of the primary term hereinabove fixed. The annual payments herein provided for may be deposited to Lessor's Credit in the

Bossier Bank and Trust Bank of Bossier City, Louisiana, which bank shall be and remain Lessor's agent for such purpose regardless of any change or changes in the ownership of the

7-11-1 23

land or mineral rights therein. The owners of the royalty as of the date of such payments shall be entitled thereto in proportion to their ownership of said royalty. The provisions of this paragraph shall be recurring at all times during the life of this lease. Should any well producing gas or gaseous substances be completed on a drilling unit which includes any part of the land herein leased, the provisions of this paragraph shall be subject to all other agreements herein contained allowing the pooling of the above described lands with other lands.

6. If within ninety (90) days prior to the end of the primary term, Lessee should complete or abandon a dry hole or holes on the land described above or on land pooled therewith, or if production previously secured should cease from any cause, this lease shall continue in force and effect for ninety (90) days from such completion or abandonment or cessation of production. If at the expiration of the primary term or at the expiration of the ninety (90) day period provided for in the preceding sentence, oil, gas, sulphur or other mineral is not being produced on said land or on land pooled therewith, but Lessee is then engaged in operations for drilling or reworking thereon, or if production previously secured should cease from any cause after the expiration of the primary term, this lease shall remain in force so long thereafter as Lessee either (a) is engaged in operations for drilling or reworking with no cessation between operations or between such cessation of production and additional operations of more than ninety (90) consecutive days; or (b) is producing oil, gas, sulphur or other mineral from said land hereunder or from land pooled therewith. If sulphur be encountered on said premises or on land pooled therewith, this lease shall continue in force and effect so long as Lessee is engaged with due diligence in explorations for and/or erecting a plant for the production of sulphur and thereafter subject to the foregoing provisions hereof so long as oil, gas, sulphur or other mineral is produced from said land hereunder or from land pooled therewith.

7. Lessee is hereby granted the right as to all or any part of the land described herein, without Lessor's joinder, to combine, pool or unitize the acreage royalty or mineral interest covered by this lease, or any portion thereof, with any other land, lease or leases, royalty or mineral interests in or under any other tract or tracts of land in the vicinity thereof, whether owned by Lessee or some other person, or corporation so as to create, by the combination of such lands and leases, one or more operating units, provided that no one operating unit shall, in the case of gas, including condensate, embrace more than six hundred forty (640) acres, and in the case of oil, including casinghead gas, embrace more than forty (40) acres; and provided further, however, that if any spacing or other rules and regulations of the State or Federal Commission, Agency, or regulatory body having or claiming jurisdiction has heretofore or shall at any time hereafter prescribe a drilling or operating unit or spacing rule in the case of gas, including condensate, greater than six hundred forty (640) acres, or in the case of oil or casinghead gas greater than forty (40) acres, then the unit or units herein contemplated may have, or may be redesigned so as to have, as the case may be, the same surface content as, but not more than, the unit or the acreage in the spacing rule so prescribed. However, it is further specifically understood and agreed, anything herein to the contrary notwithstanding, that the Lessee shall have the right to, and the benefit of an acreage tolerance of ten per cent in excess of any drilling or operating unit authorized herein. The commencement of a well, or the completion of a well to production of either oil, gas, casinghead gas, condensate, or other minerals on any portion of an operating unit in which all or any part of the land described herein is embraced, or production of oil, gas, casinghead gas, condensate, or other minerals therefrom shall have the same effect under the terms of this lease as if a well were commenced, completed or producing oil, gas, casinghead gas, condensate, or other minerals in paying quantities on the land embraced by this lease. Lessee shall execute in writing and file for record in the records of the Parish in which the lands herein leased are located, an instrument identifying or describing the pooled acreage, or an instrument supplemental thereto redesignating same, as the case may be. Either prior to the securing of production from any unit created under the authority hereinabove granted, or after cessation of production therefrom Lessee shall have the right to dissolve the unit so created, without Lessor's joinder or further consent, by executing in writing and placing of record in the Parish or Parishes in which the lands making up such unit may be located, an instrument identifying and dissolving such unit. The provisions hereof shall be construed as a covenant running with the land and shall inure to the benefit of and be binding upon the parties hereto, their heirs, representatives, successors and assigns. In the event such operating unit or units is/are so created by Lessee, Lessor shall receive out of production or the proceeds from production from such operating unit or units or out of the shut-in royalty provided for above, such portion of the ~~one-eighth (1/8)~~ 1/6 royalty or of the shut-in royalty specified herein as the number of acres (mineral acres) out of this lease placed in any such operating unit or units bears to the total number of acres included in such operating unit or units.

8. If Lessor owns a less interest in the above described land than the entire and undivided fee simple estate therein, then the royalties herein provided shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

9. Lessee shall have free use of oil, gas, casinghead gas, condensate, coal and water from said land, except water from Lessor's wells, for all operations hereunder, including repressuring, pressure maintenance and recycling, and the royalty shall be computed after deducting any so used. Lessee shall have the right at any time during or after the expiration of this lease to remove all property and fixtures placed by Lessee on said land, including the right to draw and remove all casing. When required by Lessor, Lessee will bury all pipe lines below ordinary plow depth, and no well shall be drilled within two hundred feet of any residence or barn now on said land, without Lessor's consent. In the event a well or wells, producing oil, gas, casinghead gas or condensate in paying quantities should be brought in on adjacent lands not owned by the Lessor and within one hundred fifty feet of and draining the leased premises, Lessee agrees to drill such offset well or wells as a reasonably prudent operator would drill under the same or similar circumstances.

10. The rights of either party hereunder may be assigned in whole or in part and the provisions hereof shall extend to the heirs, executors, administrators, successors and assigns, but no change or division in ownership of the land, rentals, or royalties, however accomplished shall operate to enlarge the obligations or diminish the rights of Lessee. No such change or division in the ownership of the land, rentals or royalties shall be binding upon Lessee for any purpose until such person acquiring any interest has furnished Lessee, at its principal place of business, with a certified copy of the instrument or instruments, constituting his chain of title from the original Lessor. In the event of an assignment of this lease as to a segregated portion of said land, or as to an undivided interest therein, the rentals payable hereunder shall be apportioned as between the several leasehold owners ratably according to the surface area of each, or according to the undivided interest of each, and default in rental payment by one shall not affect the rights of other leasehold owners hereunder. An assignment of this lease, in whole or in part, shall, to the extent of such assignment, relieve and discharge Lessee of any obligations hereunder and, if Lessee or assignee of part or parts hereof shall fail or make default in the payment of the proportionate part of the rentals due from such Lessee, or assignee, or fail to comply with any other provisions of the lease, such default shall not affect this lease insofar as it covers a part of said lands upon which Lessee or any assignee thereof shall make payment of said rentals.

11. In case of suit, adverse claim, dispute or question as to the ownership of the rentals or royalties (or some part thereof) payable under this lease, Lessee shall not be held in default in payment of such rentals or royalties (or the part thereof in dispute), until such suit, claim, dispute or question has been finally disposed of, and Lessee shall have thirty (30) days after being furnished with a certified copy of the instrument or instruments disposing of such suit, claim or dispute, or after being furnished with proof sufficient, in Lessee's opinion, to settle such question, within which to make payment. Should the right or interest of Lessee hereunder be disputed by Lessor, or any other person, the time covered by the pendency of such dispute shall not be counted against Lessee either as affecting the term of the lease or for any other purpose, and Lessee may suspend all payments without interest until there is a final adjudication or other determination of such dispute.

12. In case of cancellation or termination of this lease from any cause, Lessee shall have the right to retain, under the terms hereof, around each well producing, being worked on, or drilling hereunder, the number of acres in the form allocated to each such well under spacing and proration rules issued by the Commissioner of Conservation of the State of Louisiana, or any other State or Federal authority having control of such matters; or, in the absence of such rulings, forty (40) acres around each such well in as near a square form as practicable, and in the event Lessor considers that operations are not being conducted in compliance with this contract, Lessee shall be notified in writing of the facts

relied upon as constituting a breach hereof and Lessee shall have sixty (60) days after receipt of such notice to comply with the obligations imposed by virtue of this instrument.

13. When drilling, reworking, production or other operations are delayed or interrupted by force majeure, that is, by storm, flood or other acts of God, fire, war, rebellion, insurrection, riot, strikes, differences with workmen, or failure of carriers to transport or furnish facilities for transportation, or as a result of some law, order, rule, regulation, requisition or necessity of the government, Federal or State, or as a result of any cause whatsoever beyond the control of the Lessee, the time of such delay or interruption shall not be counted against Lessee, anything in this lease to the contrary notwithstanding, but this lease shall be extended for a period of time equal to that during which Lessee is so prevented from conducting such drilling or reworking operations on, or producing oil, gas, casinghead gas, condensate or other minerals from, the premises; provided that during any period that this lease is continued in force after its primary term solely by force majeure as herein provided, Lessee shall pay to the owners of the royalty hereunder the shut-in royalty provided in paragraph 5 hereof, and in the manner therein provided, without regard to whether or not there is a producing well shut in, located on said land or on land with which the lease premises or any part thereof has been pooled.

14. It is expressly understood and agreed that the premises leased herein shall, for all the purposes of this lease, be considered and treated as owned in indivision by the Lessor and shall be developed and operated as one lease, and there shall be no obligation on the part of Lessee to offset wells on separate tracts into which the land covered by this lease may be now or hereafter divided by sale, or otherwise, or to furnish separate measuring or receiving tanks, and all rentals, royalties and other payments accruing hereunder shall be treated as an entirety and shall be divided among and paid to Lessor in the proportion that the acreage (mineral rights) owned by each bears to the entire leased acreage. Lessee may at any time or times pay or tender all sums accruing hereunder to the joint credit of Lessor.

15. Notwithstanding the death of any party Lessor, or his successor in interest, the payment or tender of all sums accruing hereunder in the manner provided above shall be binding on the heirs, executors and administrators of such person.

16. Lessor hereby warrants and agrees to defend the title to the lands herein described, and agrees that the Lessee at its option shall have the right to redeem for Lessor, by payment, any mortgage, taxes or other liens on the above described lands, in the event of default of payment by Lessor, and be subrogated to the rights of the holder thereof. In case of payment of any such mortgage, taxes or other liens by Lessee, in addition to the right of subrogation herein granted, Lessee shall also have the right to retain any royalties which become due Lessor hereunder and to repay itself therefrom, and the retention of such royalties by Lessee shall have the same effect as if paid to the Lessor in whose behalf payment of any mortgage, taxes or other liens was made.

17. This lease shall be binding upon all who execute it, whether or not named in the body hereof as Lessor, and without regard to whether this same instrument, or any copy thereof, shall be executed by any other Lessor named above.

IN WITNESS WHEREOF, this instrument is executed on the date first above written.

WITNESSES:

T Helen Hickma

Mary Scarbony

T Helen Hickma

Mary Scarbony

JACK IRVIN
Jack Irvin
Social Security No. 433-12-4992

Clara Corrales Irvin
Clara Corrales Irvin
Social Security No. 437-36-3413

STATE OF LOUISIANA

PARISH OF _____

BEFORE ME, _____ a Notary Public in and for _____ Parish, Louisiana, on this _____ day of _____, 19____, personally came and appeared _____, who in the presence of me, said authority, and _____ and _____ competent witnesses, declares and acknowledges that _____ he _____ the identical person _____ who executed the foregoing instrument in writing, that _____ signature _____ thereto _____ own true and genuine signature, and that _____ he _____ executed said instrument of _____ own free will _____, and for the purposes and considerations therein expressed.

Thus done and passed on the day and date hereinabove written, in the presence of the before named and undersigned competent witnesses, who have hereunto subscribed their names, together with said appearer _____, and me, said Notary, after reading the whole.

WITNESSES:

Notary Public.

STATE OF LOUISIANA

PARISH OF CADDO

BEFORE ME, the undersigned authority, this day personally appeared Helen Hickman to me personally known to be the identical person whose name is subscribed to the foregoing instrument as an attesting witness, who being first duly sworn, on her oath, says: That she subscribed her name to the foregoing instrument as a witness, and that she knows Jack Irvin and Clara Corrales Irvin

the Grantor named in said instrument, to be the identical person described therein, and who executed the same, and saw them sign the same as their voluntary act and deed, and that she, the said Helen Hickman subscribed her name to the same at the same time as an attesting witness.

Sworn to and subscribed before me, this 22nd day of March, 1982
Notary Public in and for Caddo Parish

Helen Hickman

No. _____
OIL, GAS AND MINERAL LEASE
FROM _____
TO _____
Parish of _____
BATH'S FORM LOUISIANA SPEC. 14-BRI-2A-1PX-PAID UP

STATE OF LOUISIANA

PARISH OF _____

BEFORE ME, the undersigned authority, this day personally appeared _____ to me personally known to be the identical person whose name is subscribed to the foregoing instrument as an attesting witness, who being first duly sworn, on _____ oath, says: That _____ subscribed _____ name to the foregoing instrument as a witness, and that _____ knows _____

the Grantor named in said instrument, to be the identical person described therein, and who executed the same, and saw _____ sign the same as _____ voluntary act and deed, and that _____, the said _____ subscribed _____ name to the same at the same time as an attesting witness.

Sworn to and subscribed before me, this _____ day of _____, 19____
Notary Public in and for _____ Parish, Louisiana

W. Corton
DPY. CLERK & RECORDER

FILED & RECORDED
CADDO PARISH
SHREVEPORT, LA
GARY LOFTIN, CLERK
PERMANENT UTILITY SERVITUDE

1842785

2003 FEB 19 P 3 36

STATE OF LOUISIANA§

PROJECT NAME: **Southern Loop
Water Main Extension**

PARISH OF CADDOS

PROJECT NO: 99611.00

C 3585

PARCEL NO: P-7, P-12 & P-13

BE IT KNOWN, that this day before me, the undersigned authority, a Notary Public in and for Caddo Parish, Louisiana, personally came and appeared **Kenneth Peter Irvin**, with a permanent mailing address of **7872 Timmons Trail, Shreveport, LA 71107-8919**, hereinafter referred to as Grantor, his heirs and assigns, who declared that he does hereby grant unto the **CITY OF SHREVEPORT**, hereinafter referred to as Grantee, its successors and assigns, the right to lay, maintain, inspect, repair, alter and relay public utility lines on, over, through, upon, across and under the following described property in the Parish of Caddo, State of Louisiana, to-wit:

"AS SHOWN ON THE ATTACHED PLATS AS P-7, P-12, & P-13"

Be it further provided that the authorized personnel of the City of Shreveport and/or its contractors shall have the right of ingress and egress to the above described property at any time for the purpose of making repairs, alterations, and tests necessary in connection with operation of this line.

GRANTEE agrees to be responsible for the restoration of all excavations or alterations necessary in the prosecution of this work and to replace the ground surface, as far as it is practicable, to its original condition.

Map Attached

133

GRANTEE hereby agrees and obligates itself to pay any damages which may occur to property, fences or buildings of said Grantor as a result of the exercise of the rights herein granted, the applicable law for any legal disputes or damages which are not mutually agreed upon arising out of this agreement shall be the law of (and all actions hereunder shall be brought in) the State of Louisiana and venue for such disputes shall be in the First Judicial District Court, Shreveport, Louisiana.

GRANTEE agrees to defend, indemnify and hold harmless grantor, its affiliate corporations, representatives, successors and assigns from and against any and all liabilities, losses, damages, suits, expenses, costs and judgements that may be claimed, brought or had against Grantor, its affiliate corporations, representatives, successors and assigns for any injury or death to any person or persons, or any damage to any real or personal property, resulting from or arising out of the operations and activities of the Grantee, its agents, employees or independent contractors upon the premises herein described.

Nothing contained herein shall be construed to mean that the City is to be held responsible for a depreciation in value of the described property occasioned by the existence of the servitude on or through the property. Owner of described property reserves the right to use the surface of the servitude area, pave over it, and make all reasonable uses except placement of permanent improvements thereon.

TO HAVE AND TO HOLD said servitude unto the said Grantee, its successors and assigns until said servitude to be exercised and so long thereafter as the same shall be useful for the above named purposes. This document is executed by both parties under the specified condition that at some point in the future, this servitude may be replaced by a revised servitude such as to accommodate future development more effectively and to the satisfaction of both parties.

THUS DONE AND PASSED in Shreveport on the 7th day of February, 2003, in the presence of MARTA KABOBEI and Tammy Shaw, competent witnesses who hereunto sign their names with the said appearers and me, Notary, after reading the whole.

WITNESSES:

Tammy S. Shaw

Marta Kabobei

OWNERS:

Kenneth Peter Irvin
Kenneth Peter Irvin

K

E. Elena Vazouli
NOTARY PUBLIC
E. ELENA VAZOU

THUS DONE AND PASSED in Shreveport on the 12th day of February, 2003, in the presence of Lauren C. Thompson and A Wiggins, competent witnesses who hereunto sign their names with the said appearers and me, Notary, after reading the whole.

WITNESSES:

Lauren C. Thompson

A Wiggins

CITY OF SHREVEPORT

BY: Keith Hightower
KEITH HIGHTOWER, MAYOR

Malcolm F. Stadlander
NOTARY PUBLIC
MALCOLM F. STADLANDER, Notary Public
Caddo Parish, Louisiana
My Commission is for Life



SCALE: 1" = 30'

REQUIRED 5'
UTILITY SERVITUDE

71

75

72

N22°03'00"W
219.94'

204.39'
S22°03'00"E

P-7

S56°03'00"W
40.88'

5.11'

40.0'

5.11'

LEONARD RD. (R.O.W.)

NOTE:
PLAT BASED ON CADDO
PARISH RECORDED
PROPERTY INFORMATION.

* APPARENT
RIGHT-OF-WAY

REQUIRED UTILITY SERVITUDE

LOCATED IN
SECTION 14, T16N, R13W
CADDO PARISH, LOUISIANA

OWNERSHIP: JOHN KEVAN SMITH 1/2
& KENNETH PETER IRVIN 1/2
TAX ASSESSOR TRACT No.: 161314-000-0075
TOTAL AREA: 204.40 SQ. FT.

136

BALAR
ENGINEERS & SURVEYORS



SCALE: 1" = 30'

68

**REQUIRED 5'
UTILITY SERVITUDE**

74

973.75'
N59°36'00"W

5.58'

N56°03'00"E
150.00'

P-12

40.0'

LEONARD RD. (R.O.W.)

S63°07'52"E
1021.89'

73

5.73'

NOTE:
PLAT BASED ON CADDO
PARISH RECORDED
PROPERTY INFORMATION.

* APPARENT
RIGHT-OF-WAY

REQUIRED UTILITY SERVITUDE

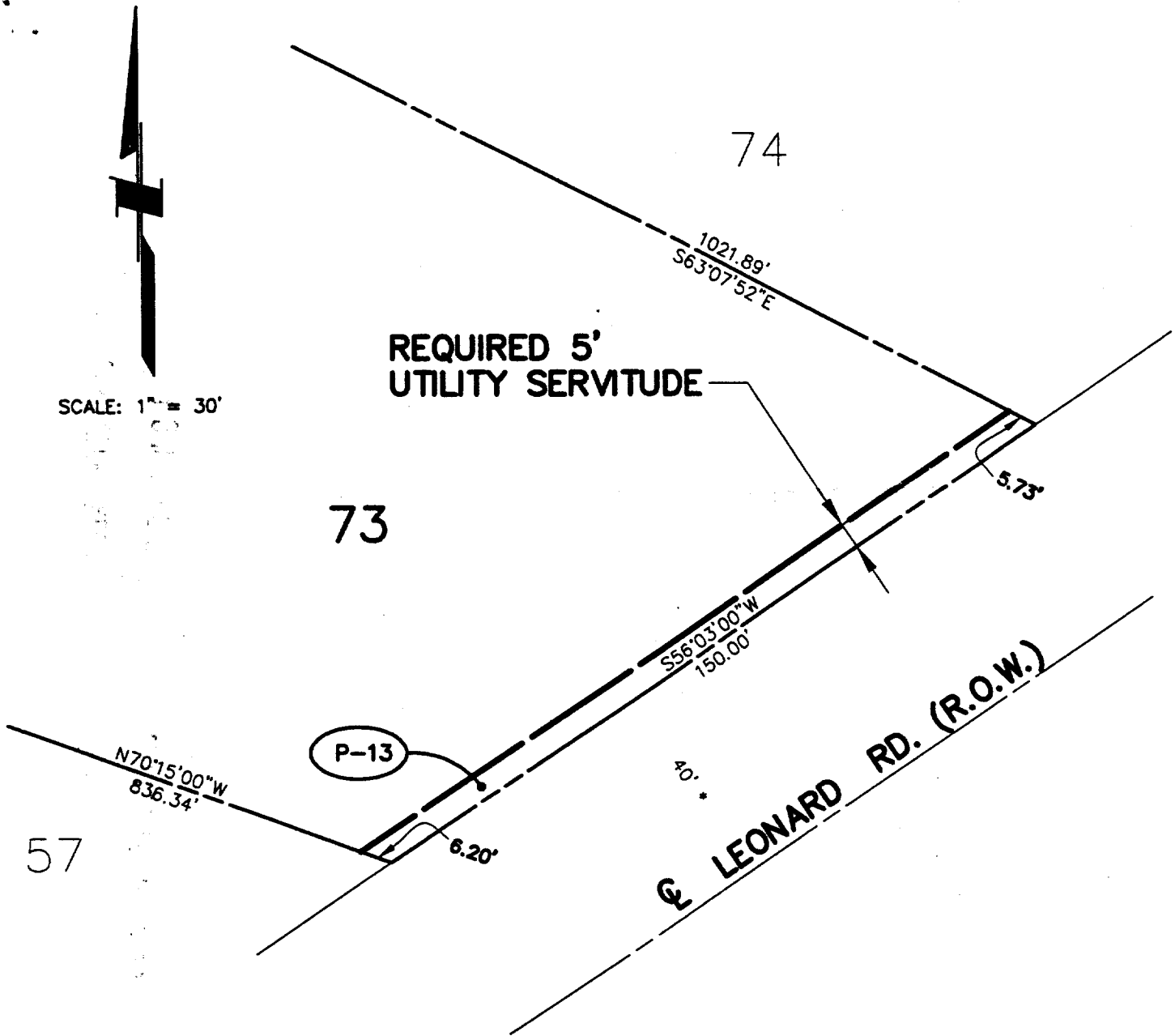
LOCATED IN
SECTION 14, T16N, R13W
CADDO PARISH, LOUISIANA

OWNERSHIP: KENNETH PETER IRVIN
TAX ASSESSOR TRACT No.: 161314-000-0074
TOTAL AREA: 750.89 SQ. FT.

137

BALAR
ENGINEERS & SURVEYORS

SCALE: 1" = 30'



NOTE:
PLAT BASED ON CADDO
PARISH RECORDED
PROPERTY INFORMATION.

* APPARENT
RIGHT-OF-WAY

REQUIRED UTILITY SERVITUDE

LOCATED IN
SECTION 14, T16N, R13W
CADDO PARISH, LOUISIANA

OWNERSHIP: KENNETH PETER IRVIN
TAX ASSESSOR TRACT No.: 161314-000-0073
TOTAL AREA: 752.20 SQ. FT.

138

BALAR
ENGINEERS & SURVEYORS

APPENDIX C

ENVIRONMENTAL DATABASE SEARCH

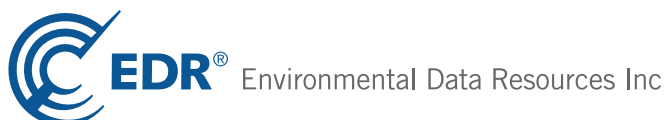
Franks - Irvin Tract

Leonard Road/Hwy 1
Shreveport, LA 71115

Inquiry Number: 4517387.2s

January 20, 2016

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
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

LEONARD ROAD/HWY 1
SHREVEPORT, LA 71115

COORDINATES

Latitude (North): 32.3782070 - 32° 22' 41.54"
Longitude (West): 93.6697410 - 93° 40' 11.06"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 436998.5
UTM Y (Meters): 3582366.5
Elevation: 156 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5637505 SHREVEPORT EAST, LA
Version Date: 2012

South Map: 5636247 WALLACE LAKE, LA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20100517
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
LEONARD ROAD/HWY 1
SHREVEPORT, LA 71115

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|-------------------|------------------|-----------------|-------------------|--------------------|----------------------------|
| 1 | LEONARD RD SPILL | HIGHWAY 1 SOUTH | VCP, REM | Higher | 1604, 0.304, ENE |

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
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP..... CERCLIS No Further Remedial Action Planned

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

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Potential and Confirmed Sites List

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

SWF/LF..... Landfill List

DEBRIS..... LDEQ Approved Debris Sites

HIST DEBRIS..... LDEQ Approved Debris Sites

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tanks

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

HIST LUST..... Underground Storage Tank Case History Incidents

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Louisiana Underground Storage Tank Database

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

AUL..... Conveyance Notice Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Directory

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..... National Clandestine Laboratory Register

EXECUTIVE SUMMARY

CDL..... Clandestine Drug Lab
DEL SHWS..... Deleted Potential & Confirmed Sites
US CDL..... Clandestine Drug Labs

Local Land Records

LIENS..... Environmental Liens
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Emergency Response Section Incidents
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
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
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
AIRS..... Air Permit List
ASBESTOS..... Asbestos Projects List
COAL ASH..... Coal Ash Disposal Sites
DRYCLEANERS..... Drycleaner Facility Listing
Financial Assurance..... Financial Assurance Information
NPDES..... LPDES Permits Database

EXECUTIVE SUMMARY

UIC..... Underground Injection Wells Listing

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

State and tribal voluntary cleanup sites

VCP: Sites that have entered Department of Environmental Quality's Voluntary Remediation Program

A review of the VCP list, as provided by EDR, and dated 09/28/2015 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|-------------------------------|---|-----------------|-----------------|
| <i>LEONARD RD SPILL</i> Status: Denied DEQ AI #: 142411 Date Closed: 02/01/2012 | <i>HIGHWAY 1 SOUTH</i> | <i>ENE 1/4 - 1/2 (0.304 mi.)</i> | <i>1</i> | <i>8</i> |

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

REM: Facilities or sites come to the Underground Storage Tank and Remediation Division either through self notification or referral. These sites are designated for remediation via the following regulatory paths: Solid Waste (SW), Hazardous Waste (Haz Waste), Groundwater (Grwater), Inactive & Abandoned Sites (Confirmed or Potential), or Underground Storage Tanks (UST).

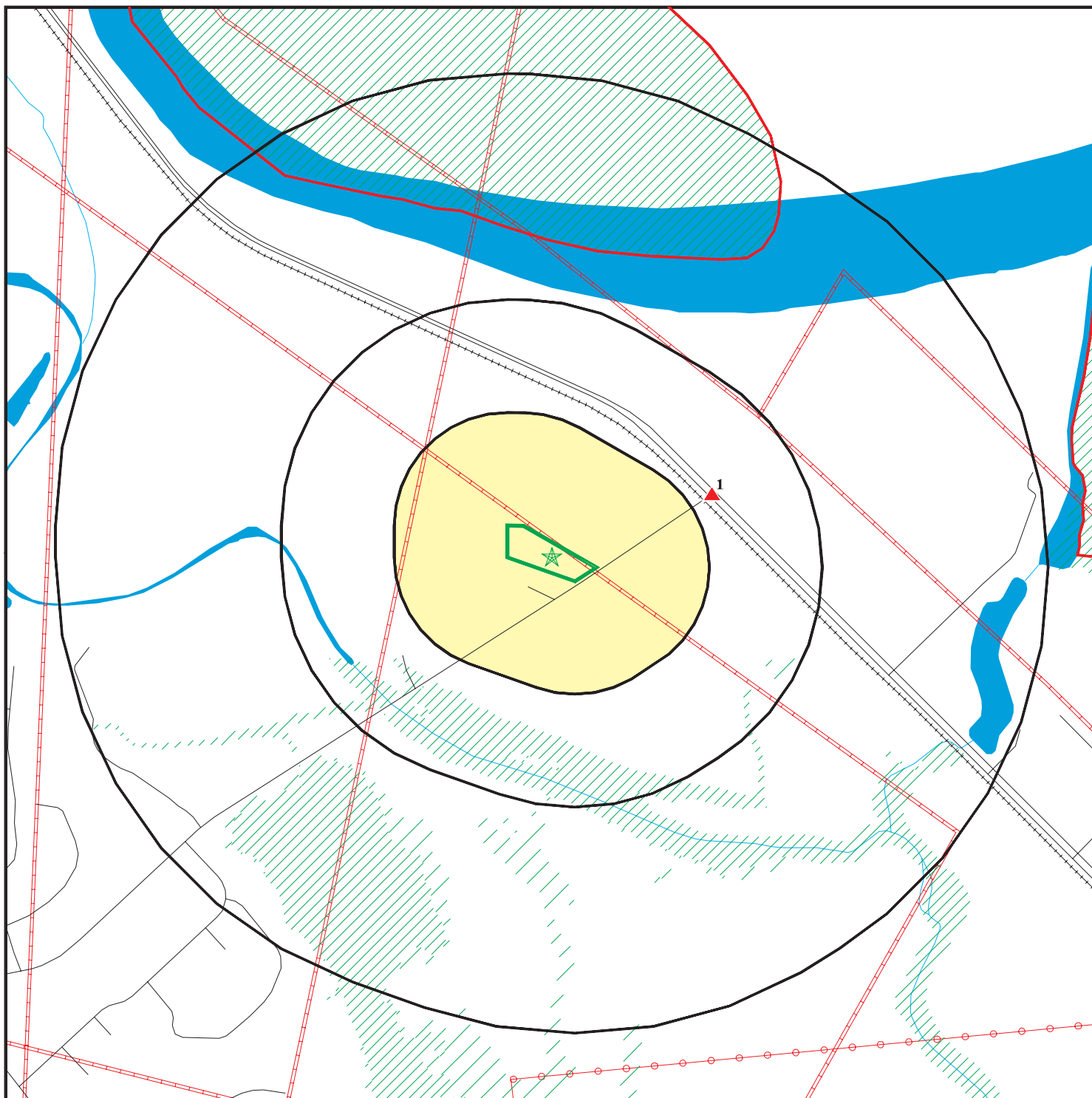
A review of the REM list, as provided by EDR, and dated 09/28/2015 has revealed that there is 1 REM site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|------------------------|----------------------------------|---------------|-------------|
| LEONARD RD SPILL AI Num: 142411 | HIGHWAY 1 SOUTH | ENE 1/4 - 1/2 (0.304 mi.) | 1 | 8 |

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4517387.2S



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

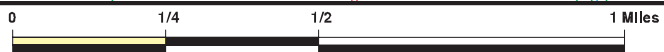
County Boundary

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

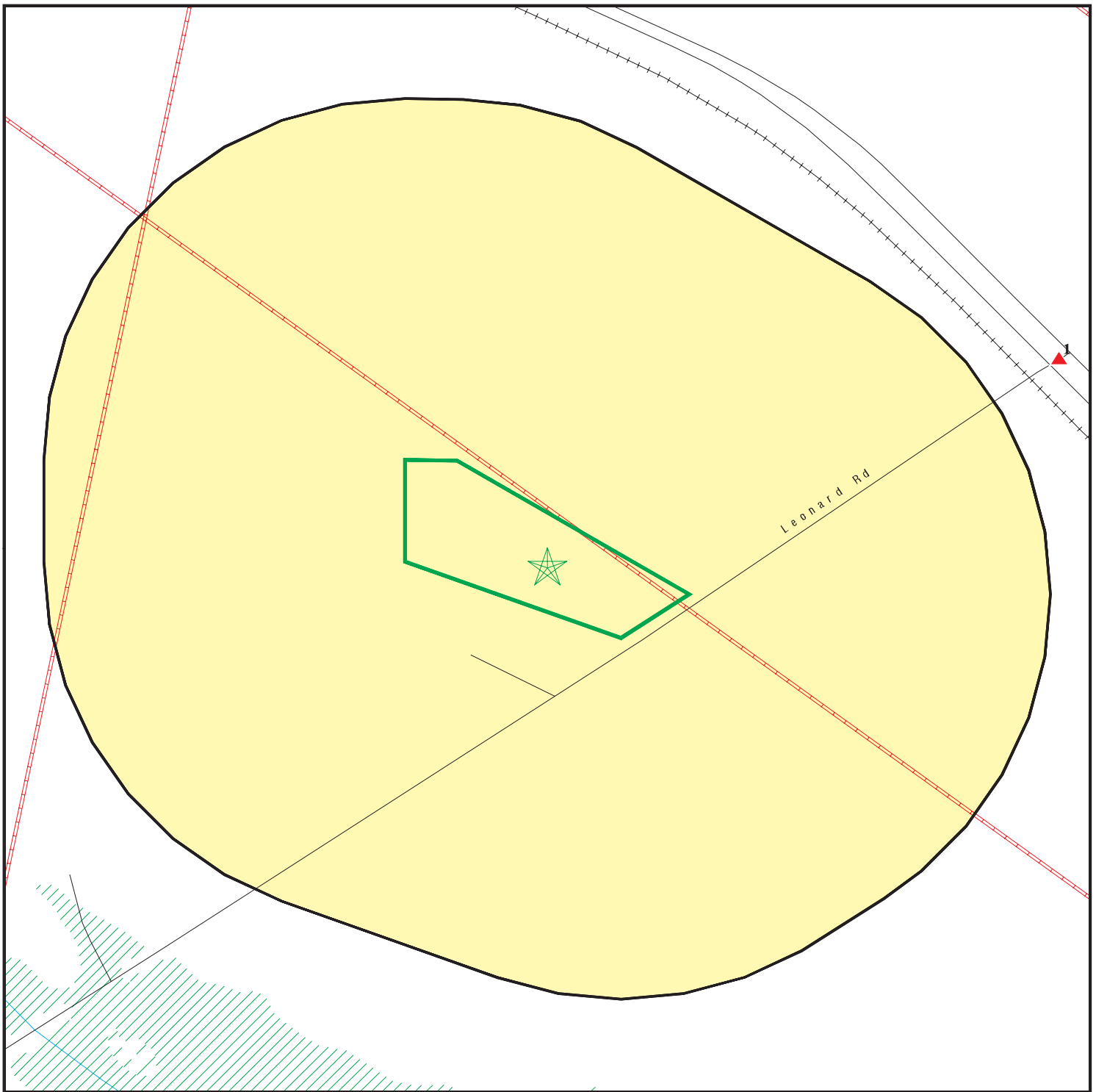









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport LA 71115
 LAT/LONG: 32.378207 / 93.669741





CLIENT: C-K Associates, Inc.
 CONTACT: Andrew Hooker
 INQUIRY #: 4517387.2s
 DATE: January 20, 2016 11:42 am

DETAIL MAP - 4517387.2S



-  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
-  Pipelines
-  100-year flood zone
-  500-year flood zone



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: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport LA 71115
 LAT/LONG: 32.378207 / 93.669741

CLIENT: C-K Associates, Inc.
 CONTACT: Andrew Hooker
 INQUIRY #: 4517387.2s
 DATE: January 20, 2016 11:43 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 |
|--|-------------------------------|--------------------|-------|-----------|-----------|---------|-----|------------------|
| STANDARD ENVIRONMENTAL RECORDS | | | | | | | | |
| <i>Federal NPL site list</i> | | | | | | | | |
| 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 |
| <i>Federal Delisted NPL site list</i> | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal CERCLIS list</i> | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CERCLIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal CERCLIS NFRAP site List</i> | | | | | | | | |
| CERCLIS-NFRAP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA CORRACTS facilities list</i> | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal RCRA non-CORRACTS TSD facilities list</i> | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA generators list</i> | | | | | | | | |
| 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 |
| <i>Federal institutional controls / engineering controls registries</i> | | | | | | | | |
| 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 |
| <i>Federal ERNS list</i> | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 |
| <i>State- and tribal - equivalent CERCLIS</i> | | | | | | | | |
| SHWS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>State and tribal landfill and/or solid waste disposal site lists</i> | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HIST DEBRIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>State and tribal leaking storage tank lists</i> | | | | | | | | |
| LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | 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 |
|--|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| HIST LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal registered storage tank lists | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| State and tribal institutional control / engineering control registries | | | | | | | | |
| AUL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal voluntary cleanup sites | | | | | | | | |
| VCP | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal Brownfields sites | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ADDITIONAL ENVIRONMENTAL RECORDS | | | | | | | | |
| Local Brownfield lists | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Landfill / Solid Waste Disposal Sites | | | | | | | | |
| SWRCY | 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 |
| Local Lists of Hazardous waste / Contaminated Sites | | | | | | | | |
| 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 |
| Local Land Records | | | | | | | | |
| LIENS | TP | | NR | NR | NR | NR | NR | 0 |
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 |
| Records of Emergency Release Reports | | | | | | | | |
| 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 |
| Other Ascertainable Records | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | 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 |
|---------------------|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| 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 |
| 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 |
| 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 |
| AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| ASBESTOS | 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 |
| NPDES | TP | | NR | NR | NR | NR | NR | 0 |
| REM | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| UIC | 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 |
| RGA LF | TP | | NR | NR | NR | NR | NR | 0 |

MAP FINDINGS SUMMARY

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

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

1
ENE
1/4-1/2
0.304 mi.
1604 ft.

LEONARD RD SPILL
HIGHWAY 1 SOUTH
SHREVERPORT, LA

VCP S112658528
REM N/A

Relative:
Higher

VCP:

Actual:
160 ft.

| | |
|--|--------------------------------------|
| DEQ AI #: | 142411 |
| Date Closed: | 02/01/2012 |
| Site Also Known As: | Leonard Road Spill |
| Facility Parish: | Caddo |
| Acres: | 8 |
| Applicant name: | Arkla Disposal Service |
| DEQ Contact: | Paula Sen |
| Date of Application: | 08/04/2006 |
| Remedial Investigator/Action Phase: | Remedial Investigator |
| Status: | Denied |
| Unrestricted Use: | Not reported |
| Investigation Approval Date: | 12/08/2010 |
| Use Restrictions/Institutional Controls A: | Not reported |
| Use Restrictions/Institutional Controls B: | Not reported |
| Use Restrictions/Institutional Controls C: | Not reported |
| Use Restrictions/Institutional Controls D: | Not reported |
| Use Restrictions/Institutional Controls E: | Not reported |
| Use Restrictions/Institutional Controls F: | Not reported |
| Use Restrictions/Institutional Controls G: | Not reported |
| Use Restrictions/Institutional Controls H: | Not reported |
| Use Restrictions/Institutional Controls I: | Not reported |
| Latitude: | 32 22" 49' |
| Longitude: | 93 40" 11' |
| DEQ AI #: | 142411 |
| Date Closed: | 02/01/2012 |
| Site Also Known As: | Arkla Disposal Leonard Road Spill |
| Facility Parish: | Caddo |
| Acres: | 22 |
| Applicant name: | Caddo-Bossier Parish Port Commission |
| DEQ Contact: | Paula Sen |
| Date of Application: | 08/17/2007 |
| Remedial Investigator/Action Phase: | Remedial Investigator - Partial |
| Status: | Denied |
| Unrestricted Use: | Not reported |
| Investigation Approval Date: | 12/08/2010 |
| Use Restrictions/Institutional Controls A: | Not reported |
| Use Restrictions/Institutional Controls B: | Not reported |
| Use Restrictions/Institutional Controls C: | Not reported |
| Use Restrictions/Institutional Controls D: | Not reported |
| Use Restrictions/Institutional Controls E: | Not reported |
| Use Restrictions/Institutional Controls F: | Not reported |
| Use Restrictions/Institutional Controls G: | Not reported |
| Use Restrictions/Institutional Controls H: | Not reported |
| Use Restrictions/Institutional Controls I: | Not reported |
| Latitude: | 32 22" 52.24 N' |
| Longitude: | 93 40" 06.05 W' |

REM:

| | |
|-----------------------|--------------|
| AI Num: | 142411 |
| Evaluated And Closed: | Not reported |
| Program: | Solid Waste |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LEONARD RD SPILL (Continued)

S112658528

EAC Type: Not reported
Comments: Not reported

Count: 0 records.

ORPHAN SUMMARY

| <u>City</u> | <u>EDR ID</u> | <u>Site Name</u> | <u>Site Address</u> | <u>Zip</u> | <u>Database(s)</u> |
|----------------|---------------|------------------|---------------------|------------|--------------------|
| NO SITES FOUND | | | | | |

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: 10/30/2015 | Source: EPA |
| Date Data Arrived at EDR: 11/07/2015 | Telephone: N/A |
| Date Made Active in Reports: 01/04/2016 | Last EDR Contact: 01/08/2016 |
| Number of Days to Update: 58 | 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: 10/30/2015 | Source: EPA |
| Date Data Arrived at EDR: 11/07/2015 | Telephone: N/A |
| Date Made Active in Reports: 01/04/2016 | Last EDR Contact: 01/08/2016 |
| Number of Days to Update: 58 | 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: 10/30/2015 | Source: EPA |
| Date Data Arrived at EDR: 11/07/2015 | Telephone: N/A |
| Date Made Active in Reports: 01/04/2016 | Last EDR Contact: 01/08/2016 |
| Number of Days to Update: 58 | 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: 03/26/2015 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 04/08/2015 | Telephone: 703-603-8704 |
| Date Made Active in Reports: 06/11/2015 | Last EDR Contact: 01/06/2016 |
| Number of Days to Update: 64 | Next Scheduled EDR Contact: 04/18/2016 |
| | Data Release Frequency: Varies |

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

| | |
|---|--|
| Date of Government Version: 10/25/2013 | Source: EPA |
| Date Data Arrived at EDR: 11/11/2013 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 02/13/2014 | Last EDR Contact: 11/23/2015 |
| Number of Days to Update: 94 | Next Scheduled EDR Contact: 03/07/2016 |
| | Data Release Frequency: Quarterly |

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 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.

| | |
|---|--|
| Date of Government Version: 10/25/2013 | Source: EPA |
| Date Data Arrived at EDR: 11/11/2013 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 02/13/2014 | Last EDR Contact: 11/23/2015 |
| Number of Days to Update: 94 | Next Scheduled EDR Contact: 03/07/2016 |
| | Data Release Frequency: Quarterly |

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/13/2015 |
| Number of Days to Update: 13 | Next Scheduled EDR Contact: 02/29/2016 |
| | 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: 11/24/2015 |
| Number of Days to Update: 53 | Next Scheduled EDR Contact: 03/14/2016 |
| | 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: 11/24/2015 |
| Number of Days to Update: 53 | Next Scheduled EDR Contact: 03/14/2016 |
| | Data Release Frequency: Varies |

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: 06/22/2015 | Source: National Response Center, United States Coast Guard |
| Date Data Arrived at EDR: 06/26/2015 | Telephone: 202-267-2180 |
| Date Made Active in Reports: 09/16/2015 | Last EDR Contact: 12/29/2015 |
| Number of Days to Update: 82 | Next Scheduled EDR Contact: 04/11/2016 |
| | Data Release Frequency: Annually |

State- and tribal - equivalent CERCLIS

SHWS: Potential and Confirmed Sites List

Confirmed status denotes that assessments have been performed and a determination made that (1) hazardous waste(s) or substance(s) are present at the site and (2) these sites are under the jurisdiction of the LDEQ/RSD. Potential status is an indicator that sites are either waiting to be assessed or the assessment is in progress.

| | |
|---|---|
| Date of Government Version: 09/28/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 10/20/2015 | Telephone: 225-219-3181 |
| Date Made Active in Reports: 12/02/2015 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 43 | Next Scheduled EDR Contact: 05/02/2016 |
| | Data Release Frequency: Quarterly |

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWF/LF: Landfill 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: 09/11/2015
Date Data Arrived at EDR: 09/14/2015
Date Made Active in Reports: 10/19/2015
Number of Days to Update: 35

Source: Department of Environmental Quality
Telephone: 225-219-3181
Last EDR Contact: 12/17/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Annually

DEBRIS: LDEQ Approved Debris Sites

A listing of LDEQ Approved Debris Sites where hurricane debris is dumped.

Date of Government Version: 08/15/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 10/19/2015
Number of Days to Update: 48

Source: Department of Environmental Quality
Telephone: 225-219-3953
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

HIST DEBRIS: LDEQ Approved Debris Sites

A listing of LDEQ Approved Debris Sites where hurricane debris is dumped.

Date of Government Version: 02/07/2007
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 11/21/2008
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 225-219-3070
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

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: 09/28/2015
Date Data Arrived at EDR: 10/20/2015
Date Made Active in Reports: 12/02/2015
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 225-219-3181
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/30/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 76

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/26/2015 |
| Number of Days to Update: 34 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Semi-Annually |

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: 04/30/2015 | Source: EPA Region 8 |
| Date Data Arrived at EDR: 05/05/2015 | Telephone: 303-312-6271 |
| Date Made Active in Reports: 06/22/2015 | Last EDR Contact: 10/08/2015 |
| Number of Days to Update: 48 | Next Scheduled EDR Contact: 02/08/2016 |
| | 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: 05/13/2015 | Source: EPA Region 6 |
| Date Data Arrived at EDR: 08/03/2015 | Telephone: 214-665-6597 |
| Date Made Active in Reports: 10/13/2015 | Last EDR Contact: 10/26/2015 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Varies |

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: 10/26/2015 |
| Number of Days to Update: 52 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Varies |

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: 10/08/2015 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Varies |

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: 10/27/2015 |
| Number of Days to Update: 67 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Varies |

HIST LUST: Underground Storage Tank Case History Incidents

This listing includes detailed information for Leaking Underground Storage Tanks reported through November 1999. It is no longer updated. Current LUST incidents, without detail, can be found in the Leaking Underground Storage Tank Database

| | |
|---|---|
| Date of Government Version: 11/01/1999 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 02/16/2000 | Telephone: N/A |
| Date Made Active in Reports: 05/01/2000 | Last EDR Contact: 12/04/2001 |
| Number of Days to Update: 75 | Next Scheduled EDR Contact: N/A |
| | Data Release Frequency: No Update Planned |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/08/2016 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 04/25/2016 |
| | Data Release Frequency: Varies |

UST: Louisiana Underground Storage Tank Database

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: 09/28/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 10/20/2015 | Telephone: 225-219-3181 |
| Date Made Active in Reports: 12/02/2015 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 43 | Next Scheduled EDR Contact: 05/02/2016 |
| | Data Release Frequency: Quarterly |

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: 10/26/2015 |
| Number of Days to Update: 34 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Semi-Annually |

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: 10/27/2015 |
| Number of Days to Update: 67 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Varies |

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: 10/26/2015 |
| Number of Days to Update: 52 | Next Scheduled EDR Contact: 02/08/2016 |
| | 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: 07/21/2015 | Source: EPA Region 10 |
| Date Data Arrived at EDR: 07/29/2015 | Telephone: 206-553-2857 |
| Date Made Active in Reports: 10/13/2015 | Last EDR Contact: 01/07/2016 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Quarterly |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/30/2015 |
| Number of Days to Update: 28 | Next Scheduled EDR Contact: 02/09/2016 |
| | Data Release Frequency: Quarterly |

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: 07/28/2015 | Source: EPA Region 8 |
| Date Data Arrived at EDR: 08/14/2015 | Telephone: 303-312-6137 |
| Date Made Active in Reports: 10/13/2015 | Last EDR Contact: 07/22/2015 |
| Number of Days to Update: 60 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Quarterly |

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: 10/26/2015 |
| Number of Days to Update: 65 | Next Scheduled EDR Contact: 02/08/2016 |
| | 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: 05/13/2015 | Source: EPA Region 6 |
| Date Data Arrived at EDR: 08/03/2015 | Telephone: 214-665-7591 |
| Date Made Active in Reports: 10/13/2015 | Last EDR Contact: 10/26/2015 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 02/08/2016 |
| | Data Release Frequency: Semi-Annually |

State and tribal institutional control / engineering control registries

AUL: Listing of Institutional and/or Engineering Controls

A notice of contamination (nature and levels of contaminants) and restriction of property to non-residential use are placed in the conveyance records for the property.

| | |
|---|---|
| Date of Government Version: 10/18/2010 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 11/04/2010 | Telephone: 225-219-3168 |
| Date Made Active in Reports: 11/12/2010 | Last EDR Contact: 01/08/2016 |
| Number of Days to Update: 8 | Next Scheduled EDR Contact: 04/25/2016 |
| | Data Release Frequency: Quarterly |

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 |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/29/2014 | Source: EPA, Region 1 |
| Date Data Arrived at EDR: 10/01/2014 | Telephone: 617-918-1102 |
| Date Made Active in Reports: 11/06/2014 | Last EDR Contact: 12/28/2015 |
| Number of Days to Update: 36 | Next Scheduled EDR Contact: 04/11/2016 |
| | Data Release Frequency: Varies |

VCP: Voluntary Remediation Program Sites

Sites that have entered the Department of Environmental Quality's Voluntary Remediation Program

| | |
|---|---|
| Date of Government Version: 09/28/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 10/20/2015 | Telephone: 225-219-3181 |
| Date Made Active in Reports: 12/02/2015 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 43 | Next Scheduled EDR Contact: 05/02/2016 |
| | Data Release Frequency: Varies |

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory

Brownfields are abandoned, idled, or underused industrial or commercial real property, the expansion, redevelopment or reuse of which may be complicated by the presence of or potential presence of a hazardous substance, pollutant, or contaminant.

| | |
|---|---|
| Date of Government Version: 09/28/2015 | Source: New Orleans Office of Environmental Affairs |
| Date Data Arrived at EDR: 10/20/2015 | Telephone: 504-658-4070 |
| Date Made Active in Reports: 12/02/2015 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 43 | Next Scheduled EDR Contact: 05/02/2016 |
| | Data Release Frequency: Quarterly |

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: 09/21/2015 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 09/23/2015 | Telephone: 202-566-2777 |
| Date Made Active in Reports: 01/04/2016 | Last EDR Contact: 12/21/2015 |
| Number of Days to Update: 103 | Next Scheduled EDR Contact: 04/04/2016 |
| | Data Release Frequency: Semi-Annually |

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Directory

A listing of recycling facilities.

| | |
|---|---|
| Date of Government Version: 09/14/2010 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 09/21/2010 | Telephone: 225-219-3181 |
| Date Made Active in Reports: 10/12/2010 | Last EDR Contact: 12/11/2015 |
| Number of Days to Update: 21 | Next Scheduled EDR Contact: 03/28/2016 |
| | Data Release Frequency: Semi-Annually |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/06/2015
Next Scheduled EDR Contact: 02/15/2016
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.

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: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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. 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: 08/12/2015
Date Data Arrived at EDR: 09/04/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 60

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab

A list of residential real properties that have been reported as potentially contaminated.

Date of Government Version: 05/13/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 44

Source: Department of Environmental Quality
Telephone: 225-219-5337
Last EDR Contact: 12/03/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Semi-Annually

DEL SHWS: Deleted Potential & Confirmed Sites

A listing of sites removed from the Potential and Confirmed Listing.

Date of Government Version: 09/28/2015
Date Data Arrived at EDR: 10/20/2015
Date Made Active in Reports: 12/02/2015
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 225-219-3168
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/12/2015 | Source: Drug Enforcement Administration |
| Date Data Arrived at EDR: 09/04/2015 | Telephone: 202-307-1000 |
| Date Made Active in Reports: 11/03/2015 | Last EDR Contact: 11/25/2015 |
| Number of Days to Update: 60 | Next Scheduled EDR Contact: 03/14/2016 |
| | Data Release Frequency: Quarterly |

Local Land Records

LIENS: Environmental Liens

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC ? 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition.

| | |
|---|---|
| Date of Government Version: 08/25/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 10/20/2015 | Telephone: N/A |
| Date Made Active in Reports: 12/02/2015 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 43 | Next Scheduled EDR Contact: 05/02/2016 |
| | Data Release Frequency: Varies |

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: 10/30/2015 |
| Number of Days to Update: 37 | Next Scheduled EDR Contact: 02/08/2016 |
| | 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: 12/30/2015 |
| Number of Days to Update: 68 | Next Scheduled EDR Contact: 04/11/2016 |
| | Data Release Frequency: Annually |

SPILLS: Emergency Response Section Incidents

Spills and/or releases, to land, reported to the Emergency Response Section.

| | |
|---|---|
| Date of Government Version: 08/17/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 09/17/2015 | Telephone: 225-219-3620 |
| Date Made Active in Reports: 10/19/2015 | Last EDR Contact: 11/13/2015 |
| Number of Days to Update: 32 | Next Scheduled EDR Contact: 02/29/2016 |
| | Data Release Frequency: Varies |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/30/2012 | Source: FirstSearch |
| Date Data Arrived at EDR: 01/03/2013 | Telephone: N/A |
| Date Made Active in Reports: 03/07/2013 | Last EDR Contact: 01/03/2013 |
| Number of Days to Update: 63 | 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: 06/09/2015 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/26/2015 | Telephone: 214-665-6444 |
| Date Made Active in Reports: 09/16/2015 | Last EDR Contact: 12/18/2015 |
| Number of Days to Update: 82 | Next Scheduled EDR Contact: 04/11/2016 |
| | 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.

| | |
|---|--|
| Date of Government Version: 01/31/2015 | Source: U.S. Army Corps of Engineers |
| Date Data Arrived at EDR: 07/08/2015 | Telephone: 202-528-4285 |
| Date Made Active in Reports: 10/13/2015 | Last EDR Contact: 12/11/2015 |
| Number of Days to Update: 97 | Next Scheduled EDR Contact: 03/21/2016 |
| | 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 | Source: USGS |
| Date Data Arrived at EDR: 11/10/2006 | Telephone: 888-275-8747 |
| Date Made Active in Reports: 01/11/2007 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 04/25/2016 |
| | 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 | Source: U.S. Geological Survey |
| Date Data Arrived at EDR: 02/06/2006 | Telephone: 888-275-8747 |
| Date Made Active in Reports: 01/11/2007 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 339 | Next Scheduled EDR Contact: 04/25/2016 |
| | 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2011 Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011 Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011 Last EDR Contact: 11/19/2015
Number of Days to Update: 54 Next Scheduled EDR Contact: 02/29/2016
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 Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/03/2015 Telephone: 202-566-1917
Date Made Active in Reports: 11/03/2015 Last EDR Contact: 11/13/2015
Number of Days to Update: 61 Next Scheduled EDR Contact: 02/29/2016
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.

Date of Government Version: 08/30/2013 Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014 Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014 Last EDR Contact: 11/10/2015
Number of Days to Update: 88 Next Scheduled EDR Contact: 02/22/2016
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 Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015 Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015 Last EDR Contact: 11/13/2015
Number of Days to Update: 6 Next Scheduled EDR Contact: 02/22/2016
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 Source: EPA
Date Data Arrived at EDR: 01/15/2015 Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015 Last EDR Contact: 12/23/2015
Number of Days to Update: 14 Next Scheduled EDR Contact: 04/04/2016
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
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: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Annually

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
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/13/2015 |
| Number of Days to Update: 3 | Next Scheduled EDR Contact: 02/22/2016 |
| | 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: 01/12/2016 |
| Number of Days to Update: 33 | Next Scheduled EDR Contact: 04/25/2016 |
| | 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: 01/08/2016 |
| Number of Days to Update: 31 | Next Scheduled EDR Contact: 04/25/2016 |
| | Data Release Frequency: Quarterly |

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 | Source: EPA/Office of Prevention, Pesticides and Toxic Substances |
| Date Data Arrived at EDR: 04/16/2009 | Telephone: 202-566-1667 |
| Date Made Active in Reports: 05/11/2009 | Last EDR Contact: 11/18/2015 |
| Number of Days to Update: 25 | Next Scheduled EDR Contact: 03/07/2016 |
| | 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 | Source: EPA |
| Date Data Arrived at EDR: 04/16/2009 | Telephone: 202-566-1667 |
| Date Made Active in Reports: 05/11/2009 | Last EDR Contact: 11/18/2015 |
| Number of Days to Update: 25 | Next Scheduled EDR Contact: 03/07/2016 |
| | 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: 06/26/2015 | Source: Nuclear Regulatory Commission |
| Date Data Arrived at EDR: 07/10/2015 | Telephone: 301-415-7169 |
| Date Made Active in Reports: 10/13/2015 | Last EDR Contact: 12/07/2015 |
| Number of Days to Update: 95 | Next Scheduled EDR Contact: 03/21/2016 |
| | Data Release Frequency: Quarterly |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 | Source: Department of Energy |
| Date Data Arrived at EDR: 08/07/2009 | Telephone: 202-586-8719 |
| Date Made Active in Reports: 10/22/2009 | Last EDR Contact: 01/13/2016 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: 04/25/2016 |
| | 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 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 09/10/2014 | Telephone: N/A |
| Date Made Active in Reports: 10/20/2014 | Last EDR Contact: 12/11/2015 |
| Number of Days to Update: 40 | Next Scheduled EDR Contact: 03/21/2016 |
| | 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 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 10/19/2011 | Telephone: 202-566-0517 |
| Date Made Active in Reports: 01/10/2012 | Last EDR Contact: 10/29/2015 |
| Number of Days to Update: 83 | Next Scheduled EDR Contact: 02/08/2016 |
| | 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.

| | |
|---|---|
| Date of Government Version: 07/07/2015 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 07/09/2015 | Telephone: 202-343-9775 |
| Date Made Active in Reports: 09/16/2015 | Last EDR Contact: 01/07/2016 |
| Number of Days to Update: 69 | Next Scheduled EDR Contact: 04/18/2016 |
| | 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 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/01/2007 | Telephone: 202-564-2501 |
| Date Made Active in Reports: 04/10/2007 | Last EDR Contact: 12/17/2007 |
| Number of Days to Update: 40 | 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/07/2015
Next Scheduled EDR Contact: 02/15/2016
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: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
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: 11/24/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Biennially

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
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

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
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/19/2015
Next Scheduled EDR Contact: 03/07/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/18/2016
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
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
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.

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: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
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: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
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: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/03/2015
Next Scheduled EDR Contact: 03/14/2016
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: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 | Source: USGS |
| Date Data Arrived at EDR: 06/08/2011 | Telephone: 703-648-7709 |
| Date Made Active in Reports: 09/13/2011 | Last EDR Contact: 12/04/2015 |
| Number of Days to Update: 97 | Next Scheduled EDR Contact: 03/14/2016 |
| | 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 | Source: EPA |
| Date Data Arrived at EDR: 09/09/2015 | Telephone: (214) 665-2200 |
| Date Made Active in Reports: 11/03/2015 | Last EDR Contact: 12/10/2015 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 03/21/2016 |
| | Data Release Frequency: Quarterly |

AIRS: Air Permit List

A listing of facilities with air permits issued by the Air Permits Division

| | |
|---|---|
| Date of Government Version: 08/24/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 09/17/2015 | Telephone: 225-219-3417 |
| Date Made Active in Reports: 10/19/2015 | Last EDR Contact: 11/19/2015 |
| Number of Days to Update: 32 | Next Scheduled EDR Contact: 02/29/2016 |
| | Data Release Frequency: Varies |

ASBESTOS: Asbestos Projects List

Asbestos demolition and renovation notification projects locations in the state.

| | |
|---|---|
| Date of Government Version: 12/31/2014 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 01/20/2015 | Telephone: 225-219-3181 |
| Date Made Active in Reports: 02/20/2015 | Last EDR Contact: 10/19/2015 |
| Number of Days to Update: 31 | Next Scheduled EDR Contact: 02/01/2016 |
| | Data Release Frequency: Annually |

COAL ASH: Coal Ash Disposal Sites

A listing of coal ash impoundments.

| | |
|---|---|
| Date of Government Version: 07/13/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 08/04/2015 | Telephone: 225-219-3168 |
| Date Made Active in Reports: 08/24/2015 | Last EDR Contact: 01/08/2016 |
| Number of Days to Update: 20 | Next Scheduled EDR Contact: 04/25/2016 |
| | Data Release Frequency: Varies |

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facilities.

| | |
|---|---|
| Date of Government Version: 10/13/2015 | Source: Department of Environmental Quality |
| Date Data Arrived at EDR: 10/20/2015 | Telephone: 225-219-3168 |
| Date Made Active in Reports: 12/02/2015 | Last EDR Contact: 01/15/2016 |
| Number of Days to Update: 43 | Next Scheduled EDR Contact: 05/02/2016 |
| | Data Release Frequency: Varies |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 1: Financial Assurance Information

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

Date of Government Version: 08/06/2015
Date Data Arrived at EDR: 08/18/2015
Date Made Active in Reports: 08/24/2015
Number of Days to Update: 6

Source: Department of Environmental Quality
Telephone: 225-219-3168
Last EDR Contact: 12/04/2015
Next Scheduled EDR Contact: 03/14/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

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

Date of Government Version: 08/06/2015
Date Data Arrived at EDR: 08/18/2015
Date Made Active in Reports: 08/24/2015
Number of Days to Update: 6

Source: Department of Environmental Quality
Telephone: 225-219-3168
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

NPDES: LPDES Permits Database

A listing of sites with a Louisiana Pollutant Discharge Elimination System (LPDES) program issued permit.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/28/2015
Date Made Active in Reports: 12/02/2015
Number of Days to Update: 35

Source: Department of Environmental Quality
Telephone: 225-219-3181
Last EDR Contact: 10/26/2015
Next Scheduled EDR Contact: 02/08/2016
Data Release Frequency: Varies

REM: Division of Remediation Services Database

Facilities or sites come to the Underground Storage Tank and Remediation Division either through self notification or referral. These sites are designated for remediation via the following regulatory paths: Solid Waste (SW), Hazardous Waste (Haz Waste), Groundwater (Grwater), Inactive & Abandoned Sites (Confirmed or Potential), or Underground Storage Tanks (UST).

Date of Government Version: 09/28/2015
Date Data Arrived at EDR: 10/20/2015
Date Made Active in Reports: 12/02/2015
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 225-219-3168
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Listing

A listing of underground injection well locations.

Date of Government Version: 10/14/2015
Date Data Arrived at EDR: 10/15/2015
Date Made Active in Reports: 12/02/2015
Number of Days to Update: 48

Source: Department of fNatural Resources
Telephone: 225-342-5515
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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.

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: 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.

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 Environmental Quality in Louisiana.

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 Environmental Quality
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 Environmental Quality in Louisiana.

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 Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Environmental Quality in Louisiana.

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 Environmental Quality

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: 11/16/2015

Next Scheduled EDR Contact: 02/29/2016

Data Release Frequency: No Update Planned

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: 11/02/2015

Date Data Arrived at EDR: 11/08/2015

Date Made Active in Reports: 12/09/2015

Number of Days to Update: 31

Source: Department of Environmental Conservation

Telephone: 518-402-8651

Last EDR Contact: 11/08/2015

Next Scheduled EDR Contact: 02/15/2016

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: 01/19/2016

Next Scheduled EDR Contact: 05/02/2016

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: 12/09/2015

Next Scheduled EDR Contact: 03/28/2016

Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

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.

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.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FRANKS - IRVIN TRACT
LEONARD ROAD/HWY 1
SHREVEPORT, LA 71115

TARGET PROPERTY COORDINATES

| | |
|-------------------------------|----------------------------|
| Latitude (North): | 32.378207 - 32° 22' 41.55" |
| Longitude (West): | 93.669741 - 93° 40' 11.07" |
| Universal Tranverse Mercator: | Zone 15 |
| UTM X (Meters): | 436998.5 |
| UTM Y (Meters): | 3582366.5 |
| Elevation: | 156 ft. above sea level |

USGS TOPOGRAPHIC MAP

| | |
|----------------------|-----------------------------|
| Target Property Map: | 5637505 SHREVEPORT EAST, LA |
| Version Date: | 2012 |
| South Map: | 5636247 WALLACE LAKE, LA |
| Version Date: | 2012 |

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).

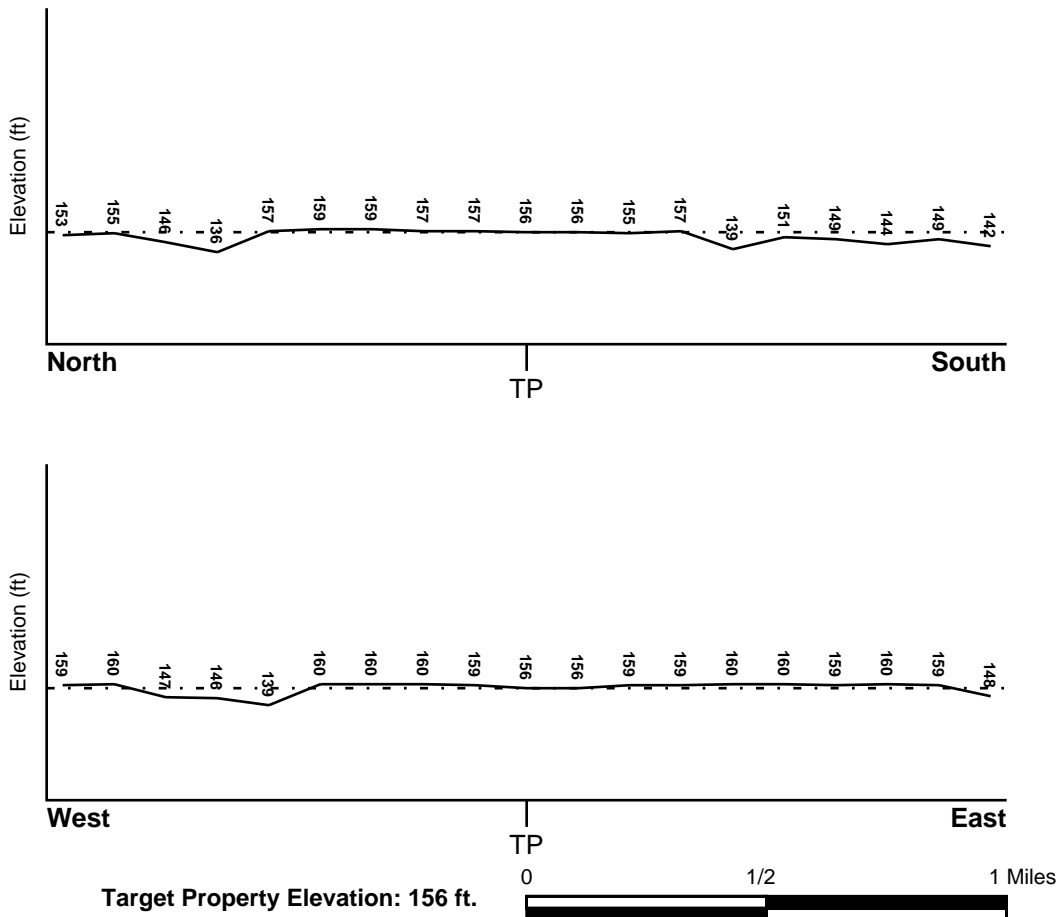
TOPOGRAPHIC INFORMATION

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 South

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

Target Property County
CADD0, LA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: 22017C - FEMA DFIRM Flood data
22015C - FEMA DFIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
NOT AVAILABLE

NWI Electronic
Data Coverage
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.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

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: Cenozoic
System: Quaternary
Series: Holocene
Code: Qh (decoded above as Era, System & Series)

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: MORELAND

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|--|---|---------------------------|------------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Permeability Rate (in/hr) | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 12 inches | 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: 0.06 Min: 0.00 | Max: 7.80 Min: 6.10 |
| 2 | 12 inches | 50 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: 0.06 Min: 0.00 | Max: 8.40 Min: 6.60 |
| 3 | 50 inches | 64 inches | 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: 0.20 Min: 0.00 | Max: 8.40 Min: 6.60 |

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
silty clay loam

Surficial Soil Types: silt loam
silty clay loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: silt loam
stratified
very fine sandy loam

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

| <u>DATABASE</u> | <u>SEARCH DISTANCE (miles)</u> |
|------------------|--------------------------------|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

FEDERAL USGS WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-------------------------|
| A1 | USGS40000412750 | 0 - 1/8 Mile ENE |
| A2 | USGS40000412751 | 0 - 1/8 Mile ENE |
| G45 | USGS40000412682 | 1/2 - 1 Mile SW |

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------------|----------------|-------------------------|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|------------------|-------------------------|
| A3 | LATD40000019040 | 0 - 1/8 Mile East |
| A4 | LATD400000145518 | 0 - 1/8 Mile East |
| A5 | LATD40000020513 | 0 - 1/8 Mile North |
| A6 | LATD40000019849 | 0 - 1/8 Mile SE |
| A7 | LATD400000127393 | 0 - 1/8 Mile SE |
| A8 | LATD400000120618 | 0 - 1/8 Mile North |
| B9 | LATD400000125083 | 1/8 - 1/4 Mile NE |
| 10 | LATD40000019848 | 1/8 - 1/4 Mile SW |
| B11 | LATD40000020630 | 1/8 - 1/4 Mile ENE |
| 12 | LATD400000177700 | 1/8 - 1/4 Mile East |
| B13 | LATD40000019601 | 1/8 - 1/4 Mile ENE |
| 14 | LATD400000149919 | 1/8 - 1/4 Mile WNW |
| C15 | LATD400000150929 | 1/8 - 1/4 Mile NNE |
| C16 | LATD40000019602 | 1/8 - 1/4 Mile NNE |
| 17 | LATD400000196562 | 1/8 - 1/4 Mile WSW |
| 18 | LATD40000020441 | 1/8 - 1/4 Mile SE |
| D19 | LATD400000127198 | 1/8 - 1/4 Mile NNE |
| 20 | LATD40000020300 | 1/8 - 1/4 Mile SSW |
| E21 | LATD400000150326 | 1/4 - 1/2 Mile North |
| D22 | LATD40000020512 | 1/4 - 1/2 Mile NE |
| D23 | LATD40000019603 | 1/4 - 1/2 Mile NNE |
| E24 | LATD40000096256 | 1/4 - 1/2 Mile NNE |
| 25 | LATD400000183123 | 1/4 - 1/2 Mile East |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-----------------------------|
| F26 | LATD40000020511 | 1/4 - 1/2 Mile NNE |
| 27 | LATD40000178207 | 1/4 - 1/2 Mile SSE |
| 28 | LATD40000134020 | 1/4 - 1/2 Mile SW |
| 29 | LATD40000150126 | 1/4 - 1/2 Mile SSW |
| F30 | LATD40000145333 | 1/4 - 1/2 Mile NNE |
| 31 | LATD40000020633 | 1/4 - 1/2 Mile NW |
| 32 | LATD40000095928 | 1/4 - 1/2 Mile SW |
| 33 | LATD40000019887 | 1/2 - 1 Mile SSE |
| 34 | LATD40000195489 | 1/2 - 1 Mile South |
| 35 | LATD40000102284 | 1/2 - 1 Mile NNW |
| 36 | LATD40000167068 | 1/2 - 1 Mile WSW |
| 37 | LATD40000193331 | 1/2 - 1 Mile SSE |
| 38 | LATD40000145492 | 1/2 - 1 Mile ESE |
| 39 | LATD40000020324 | 1/2 - 1 Mile SE |
| 40 | LATD40000017905 | 1/2 - 1 Mile East |
| 41 | LATD40000020237 | 1/2 - 1 Mile WSW |
| G42 | LATD40000145268 | 1/2 - 1 Mile SW |
| G43 | LATD40000017739 | 1/2 - 1 Mile SW |
| G44 | LATD40000191676 | 1/2 - 1 Mile SW |
| H46 | LATD40000018043 | 1/2 - 1 Mile SE |
| H47 | LATD40000020472 | 1/2 - 1 Mile SE |
| 48 | LATD40000144914 | 1/2 - 1 Mile SW |
| 49 | LATD40000126229 | 1/2 - 1 Mile SSE |
| 50 | LATD40000020553 | 1/2 - 1 Mile SSE |
| 51 | LATD40000017872 | 1/2 - 1 Mile WSW |
| 52 | LATD40000143316 | 1/2 - 1 Mile SW |

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

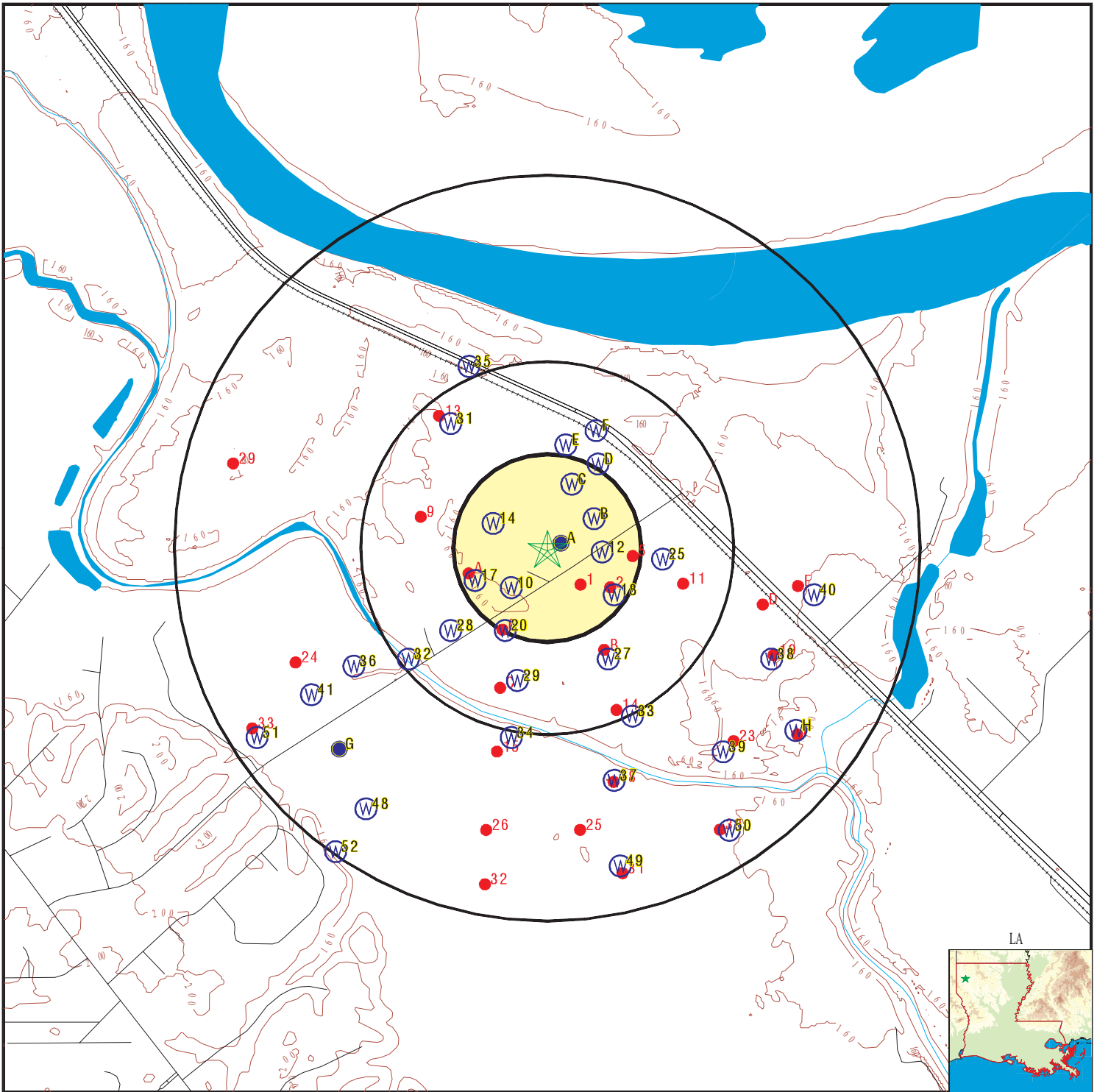
| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-----------------------------|
| 1 | LAOG90000237563 | 1/8 - 1/4 Mile SE |
| 2 | LAOG90000235411 | 1/8 - 1/4 Mile ESE |
| A3 | LAOG90000235821 | 1/8 - 1/4 Mile WSW |
| A4 | LAOG90000236940 | 1/8 - 1/4 Mile WSW |
| 5 | LAOG90000231245 | 1/8 - 1/4 Mile East |
| 6 | LAOG90000231287 | 1/8 - 1/4 Mile SSW |
| B7 | LAOG90000181327 | 1/4 - 1/2 Mile SSE |
| B8 | LAOG90000224909 | 1/4 - 1/2 Mile SSE |
| 9 | LAOG90000238860 | 1/4 - 1/2 Mile WNW |
| C10 | LAOG90000232110 | 1/4 - 1/2 Mile SSW |
| 11 | LAOG90000164733 | 1/4 - 1/2 Mile ESE |
| C12 | LAOG90000121057 | 1/4 - 1/2 Mile SSW |
| 13 | LAOG90000244298 | 1/4 - 1/2 Mile NW |
| 14 | LAOG90000222087 | 1/4 - 1/2 Mile SSE |
| 15 | LAOG90000229393 | 1/2 - 1 Mile SSW |
| D16 | LAOG90000231974 | 1/2 - 1 Mile ESE |
| D17 | LAOG90000136416 | 1/2 - 1 Mile ESE |
| 18 | LAOG90000228911 | 1/2 - 1 Mile SSE |
| 19 | LAOG90000228567 | 1/2 - 1 Mile ESE |
| E20 | LAOG90000236589 | 1/2 - 1 Mile East |
| E21 | LAOG90000235644 | 1/2 - 1 Mile East |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-----------------------------|
| E22 | LAOG90000231548 | 1/2 - 1 Mile East |
| 23 | LAOG90000238727 | 1/2 - 1 Mile SE |
| 24 | LAOG90000239095 | 1/2 - 1 Mile WSW |
| 25 | LAOG90000227721 | 1/2 - 1 Mile South |
| 26 | LAOG90000229073 | 1/2 - 1 Mile SSW |
| F27 | LAOG90000229960 | 1/2 - 1 Mile SE |
| F28 | LAOG90000167232 | 1/2 - 1 Mile SE |
| 29 | LAOG90000140149 | 1/2 - 1 Mile WNW |
| 30 | LAOG90000227669 | 1/2 - 1 Mile SSE |
| 31 | LAOG90000226953 | 1/2 - 1 Mile SSE |
| 32 | LAOG90000228067 | 1/2 - 1 Mile South |
| 33 | LAOG90000236536 | 1/2 - 1 Mile WSW |

PHYSICAL SETTING SOURCE MAP - 4517387.2s



- 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
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport LA 71115
 LAT/LONG: 32.378207 / 93.669741

CLIENT: C-K Associates, Inc.
 CONTACT: Andrew Hooker
 INQUIRY #: 4517387.2s
 DATE: January 20, 2016 11:43 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
ENE
0 - 1/8 Mile
Higher

FED USGS USGS40000412750

| | | | |
|-----------------------------|-------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-LA | | |
| Formal name: | USGS Louisiana Water Science Center | | |
| Monloc Identifier: | USGS-322242093400801 | | |
| Monloc name: | Cd-7254Z | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 11140206 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 32.3784887 |
| Longitude: | -93.6690666 | Sourcemap scale: | 62500 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 155. |
| Vert measure units: | feet | Vertacc measure val: | 2.5 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Alluvial aquifers | | |
| Formation type: | Red River Alluvial Aquifer | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 1972 | Welldepth: | 90 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

A2
ENE
0 - 1/8 Mile
Higher

FED USGS USGS40000412751

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-LA | | |
| Formal name: | USGS Louisiana Water Science Center | | |
| Monloc Identifier: | USGS-322242093400802 | | |
| Monloc name: | Cd-7253Z | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 11140206 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 32.3784887 |
| Longitude: | -93.6690666 | Sourcemap scale: | 62500 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 155. |
| Vert measure units: | feet | Vertacc measure val: | 2.5 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Mississippi embayment aquifer system | | |
| Formation type: | Wilcox Aquifer | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|--------------|
| Aquifer type: | Not Reported | Welldepth: | 210 |
| Construction date: | 1972 | Wellholedepth: | Not Reported |
| Welldepth units: | ft | | |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

A3
East
0 - 1/8 Mile
Higher

LA WELLS LATD40000019040

| | | | |
|-------------|-----------------|-------------|--------------|
| Water wel1: | 390223 | State code: | 22 |
| Water wel2: | 017-7254Z | Local well: | 7254Z |
| Parish num: | 017 | Latitude: | 322242 |
| Identifica: | 322242093400801 | Sequence n: | 01 |
| Longitude: | 934008 | Well depth: | 90 |
| Owners nam: | GILL, H J | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 112RRVA |
| Date compl: | 1972 | Revised lo: | Not Reported |
| Available : | Not Reported | Drill log: | Not Reported |
| Revised la: | Not Reported | Chem analy: | Not Reported |
| Elec log: | Not Reported | Pump test: | Not Reported |
| Mechanic a: | Not Reported | Drillers 1: | UNKNOWN |
| Bio analys: | Not Reported | Section: | 003 |
| Avail info: | Not Reported | Range: | 13W |
| Drillers 2: | 000 | Elevation: | 155 |
| Township: | 16N | Water leve: | 0.00 |
| Hole depth: | 0 | Source of : | Not Reported |
| Quad num: | Not Reported | Date regis: | 07/92 |
| Date measu: | Not Reported | Plugged b1: | Not Reported |
| Date of ad: | 1992-09-17 | Yield: | Not Reported |
| Date plugg: | Not Reported | Casing di1: | 4 |
| Plugged b2: | Not Reported | Screen di1: | Not Reported |
| Drawdown: | Not Reported | Serial num: | Not Reported |
| Casing mat: | METAL | Latitude d: | 0 |
| Screen int: | Not Reported | Longitude2: | 0 |
| Owners num: | Not Reported | Create use: | SONRIS_DBA |
| Latitude m: | 0 | Update use: | SONRIS_DBA |
| Latitude s: | 0 | Industria1: | Not Reported |
| Longitude1: | 0 | Replacemen: | Not Reported |
| Longitude3: | Not Reported | Public su1: | Not Reported |
| Create dat: | 2010 720 | Pumpdown c: | Not Reported |
| Update dat: | 2012 130 | Extension2: | Not Reported |
| Parish cod: | 09 | Screen typ: | Not Reported |
| Owner stat: | Not Reported | Ground eve: | Not Reported |
| Industria2: | Not Reported | Site city: | Not Reported |
| Public su2: | Not Reported | Site addre: | Not Reported |
| Extension1: | Not Reported | Authorize2: | 0 |
| Extension3: | Not Reported | Location l: | Not Reported |
| Gravel pac: | N | Cemented f: | Not Reported |
| Diameter o: | Not Reported | Slot size: | Not Reported |
| Site zip: | Not Reported | | |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | | |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | | |
| Location m: | 0 | | |
| Location c: | Not Reported | | |
| Slot lengt: | Not Reported | | |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66888889 | | |
| Y latdd: | 32.37833333 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |
| Use descri: | domestic | | |
| Well statu: | Active | Site id: | LATD40000019040 |

**A4
East
0 - 1/8 Mile
Higher**

LA WELLS LATD40000145518

| | | | |
|-------------|-----------------|-------------|--------------|
| Water wel1: | 390222 | State code: | 22 |
| Water wel2: | 017-7253Z | Local well: | 7253Z |
| Parish num: | 017 | Latitude: | 322242 |
| Identifica: | 322242093400802 | Sequence n: | 02 |
| Longitude: | 934008 | Well depth: | 210 |
| Owners nam: | GILL, H J | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 124WLCX |
| Date compl: | 1972 | | |
| Available : | Not Reported | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | Not Reported |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | UNKNOWN |
| Avail info: | Not Reported | Section: | 003 |
| Drillers 2: | 000 | Range: | 13W |
| Township: | 16N | Elevation: | 155 |
| Hole depth: | 0 | Water leve: | 0.00 |
| Quad num: | Not Reported | Source of : | Not Reported |
| Date measu: | Not Reported | Date regis: | 07/92 |
| Date of ad: | 1992-09-17 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | Not Reported |
| Casing mat: | METAL | Serial num: | Not Reported |
| Screen int: | Not Reported | Latitude d: | 0 |
| Owners num: | Not Reported | | |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66888889 | | |
| Y latdd: | 32.37833333 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | WILCOX AQUIFER | | |
| Use descri: | domestic | | |
| Well statu: | Active | Site id: | LATD40000145518 |

**A5
North
0 - 1/8 Mile
Higher**

LA WELLS LATD40000020513

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394616 | State code: | 22 |
| Water wel2: | 017-11649Z | Local well: | 11649Z |
| Parish num: | 017 | Latitude: | 322245 |
| Identifica: | 322245093401101 | Sequence n: | 01 |
| Longitude: | 934011 | Well depth: | 22 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 22 | Elevation: | 156 |
| Quad num: | 052A | Water leve: | 14.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 12-22 | Serial num: | Not Reported |
| Owners num: | MW-5A | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66972222 | | |
| Y latdd: | 32.37916667 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: monitor
 Well statu: Active Site id: LATD40000020513

**A6
 SE
 0 - 1/8 Mile
 Higher**

LA WELLS LATD40000019849

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394659 | State code: | 22 |
| Water wel2: | 017-11692Z | Local well: | 11692Z |
| Parish num: | 017 | Latitude: | 322239 |
| Identifica: | 322239093400801 | Sequence n: | 01 |
| Longitude: | 934008 | Well depth: | 24 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 10/09 | Revised lo: | Not Reported |
| Available : | Driller Log, Water Level | Drill log: | D |
| Revised la: | Not Reported | Chem analy: | Not Reported |
| Elec log: | Not Reported | Pump test: | Not Reported |
| Mechanic a: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Bio analys: | Not Reported | Section: | 003 |
| Avail info: | W | Range: | 13W |
| Drillers 2: | 574 | Elevation: | 157 |
| Township: | 16N | Water leve: | 16.00 |
| Hole depth: | 24 | Source of : | D |
| Quad num: | 052A | Date regis: | 10/09 |
| Date measu: | 10/12/09 | Plugged b1: | Not Reported |
| Date of ad: | 2009-10-28 | Yield: | Not Reported |
| Date plugg: | Not Reported | Casing di1: | 2 |
| Plugged b2: | Not Reported | Screen di1: | 2 |
| Drawdown: | Not Reported | Serial num: | Not Reported |
| Casing mat: | PLASTIC | Latitude d: | 0 |
| Screen int: | 14-24 | Longitude2: | 0 |
| Owners num: | MW-11A | Create use: | SONRIS_DBA |
| Latitude m: | 0 | Update use: | SONRIS_DBA |
| Latitude s: | 0 | Industria1: | Not Reported |
| Longitude1: | 0 | Replacemen: | Not Reported |
| Longitude3: | Not Reported | Public su1: | Not Reported |
| Create dat: | 2010 720 | Pumpdown c: | Not Reported |
| Update dat: | 2012 130 | Extension2: | Not Reported |
| Parish cod: | 09 | Screen typ: | Not Reported |
| Owner stat: | Not Reported | Ground eve: | Not Reported |
| Industria2: | Not Reported | Site city: | Not Reported |
| Public su2: | Not Reported | Site addre: | Not Reported |
| Extension1: | Not Reported | Authorize2: | 0 |
| Extension3: | Not Reported | Location l: | Not Reported |
| Gravel pac: | N | Cemented f: | Not Reported |
| Diameter o: | Not Reported | Slot size: | Not Reported |
| Site zip: | Not Reported | | |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | | |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | | |
| Location m: | 0 | | |
| Location c: | Not Reported | | |
| Slot lengt: | Not Reported | | |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66888889 | Pa signat2: | 0 |
| Y latdd: | 32.3775 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000019849 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | | |

**A7
SE
0 - 1/8 Mile
Higher**

LA WELLS LATD40000127393

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394660 | State code: | 22 |
| Water wel2: | 017-11693Z | Local well: | 11693Z |
| Parish num: | 017 | Latitude: | 322239 |
| Identifica: | 322239093400701 | Sequence n: | 01 |
| Longitude: | 934007 | Well depth: | 65 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 10/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Avail info: | W | Section: | 003 |
| Drillers 2: | 574 | Range: | 13W |
| Township: | 16N | Elevation: | 157 |
| Hole depth: | 70 | Water leve: | 15.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 10/06/09 | Date regis: | 10/09 |
| Date of ad: | 2009-10-28 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 2 |
| Drawdown: | Not Reported | Screen di1: | 2 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 55-65 | Latitude d: | 0 |
| Owners num: | MW-11B | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66861111 | | |
| Y latdd: | 32.3775 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | Site id: | LATD40000127393 |

**A8
North
0 - 1/8 Mile
Higher**

LA WELLS LATD40000120618

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394617 | State code: | 22 |
| Water wel2: | 017-11650Z | Local well: | 11650Z |
| Parish num: | 017 | Latitude: | 322246 |
| Identifica: | 322246093401101 | Sequence n: | 01 |
| Longitude: | 934011 | Well depth: | 68 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 73 | Elevation: | 156 |
| Quad num: | 052A | Water leve: | 14.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 58-68 | Serial num: | Not Reported |
| Owners num: | MW-5B | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66972222 | | |
| Y latdd: | 32.37944444 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: monitor
 Well statu: Active Site id: LATD40000120618

**B9
 NE
 1/8 - 1/4 Mile
 Higher**

LA WELLS LATD40000125083

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394621 | | |
| Water wel2: | 017-11654Z | State code: | 22 |
| Parish num: | 017 | Local well: | 11654Z |
| Identifica: | 322246093400401 | Latitude: | 322246 |
| Longitude: | 934004 | Sequence n: | 01 |
| Owners nam: | CCS MIDSTREAM | Well depth: | 69 |
| Well use: | M | Well subus: | Not Reported |
| Date compl: | 06/09 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 69 | Elevation: | 156 |
| Quad num: | 052A | Water leve: | 11.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 59-69 | Serial num: | Not Reported |
| Owners num: | MW-8B | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|--------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1 : | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66777778 | Pa signat2: | 0 |
| Y latdd: | 32.37944444 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000125083 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | | |

**10
SW
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000019848

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394658 | State code: | 22 |
| Water wel2: | 017-11691Z | Local well: | 11691Z |
| Parish num: | 017 | Latitude: | 322236 |
| Identifica: | 322236093401701 | Sequence n: | 01 |
| Longitude: | 934017 | Well depth: | 67 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 10/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Avail info: | W | Section: | 003 |
| Drillers 2: | 574 | Range: | 13W |
| Township: | 16N | Elevation: | 159 |
| Hole depth: | 70 | Water leve: | 16.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 10/12/09 | Date regis: | 10/09 |
| Date of ad: | 2009-10-28 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 2 |
| Drawdown: | Not Reported | Screen di1: | 2 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 57-67 | Latitude d: | 0 |
| Owners num: | MW-10B | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67138889 | | |
| Y latdd: | 32.37666667 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | Site id: | LATD40000019848 |

**B11
ENE
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000020630

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394620 | State code: | 22 |
| Water wel2: | 017-11653Z | Local well: | 11653Z |
| Parish num: | 017 | Latitude: | 322245 |
| Identifica: | 322245093400301 | Sequence n: | 01 |
| Longitude: | 934003 | Well depth: | 19 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 20 | Elevation: | 157 |
| Quad num: | 052A | Water leve: | 11.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 9-19 | Serial num: | Not Reported |
| Owners num: | MW-8A | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.6675 | | |
| Y latdd: | 32.37916667 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: monitor
 Well statu: Active Site id: LATD40000020630

**12
 East
 1/8 - 1/4 Mile
 Higher**

LA WELLS LATD40000177700

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394618 | | |
| Water wel2: | 017-11651Z | State code: | 22 |
| Parish num: | 017 | Local well: | 11651Z |
| Identifica: | 322241093400201 | Latitude: | 322241 |
| Longitude: | 934002 | Sequence n: | 01 |
| Owners nam: | CCS MIDSTREAM | Well depth: | 24 |
| Well use: | M | Well subus: | Not Reported |
| Date compl: | 06/09 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 24 | Elevation: | 156 |
| Quad num: | 052A | Water leve: | 16.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 14-24 | Serial num: | Not Reported |
| Owners num: | MW-6A | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66722222 | Pa signat2: | 0 |
| Y latdd: | 32.37805556 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000177700 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | | |

**B13
ENE
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000019601

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394607 | State code: | 22 |
| Water wel2: | 017-11640Z | Local well: | 11640Z |
| Parish num: | 017 | Latitude: | 322246 |
| Identifica: | 322246093400301 | Sequence n: | 01 |
| Longitude: | 934003 | Well depth: | 20 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Avail info: | W | Section: | 003 |
| Drillers 2: | 574 | Range: | 13W |
| Township: | 16N | Elevation: | 158 |
| Hole depth: | 20 | Water leve: | 11.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 06/23/09 | Date regis: | 08/09 |
| Date of ad: | 2009-08-18 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 2 |
| Drawdown: | Not Reported | Screen di1: | 2 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 15-20 | Latitude d: | 0 |
| Owners num: | CDM-2 | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.6675 | | |
| Y latdd: | 32.37944444 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | Site id: | LATD40000019601 |

**14
WNW
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000149919

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394657 | State code: | 22 |
| Water wel2: | 017-11690Z | Local well: | 11690Z |
| Parish num: | 017 | Latitude: | 322245 |
| Identifica: | 322245093402001 | Sequence n: | 01 |
| Longitude: | 934020 | Well depth: | 64 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 10/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 67 | Elevation: | 159 |
| Quad num: | 052A | Water leve: | 14.00 |
| Date measu: | 10/12/09 | Source of : | D |
| Date of ad: | 2009-10-28 | Date regis: | 10/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 54-64 | Serial num: | Not Reported |
| Owners num: | MW-9B | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67222222 | | |
| Y latdd: | 32.37916667 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: monitor
 Well statu: Active Site id: LATD40000149919

**C15
 NNE
 1/8 - 1/4 Mile
 Higher**

LA WELLS LATD40000150929

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394619 | State code: | 22 |
| Water wel2: | 017-11652Z | Local well: | 11652Z |
| Parish num: | 017 | Latitude: | 322250 |
| Identifica: | 322250093400801 | Sequence n: | 01 |
| Longitude: | 934008 | Well depth: | 20 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | Revised lo: | Not Reported |
| Available : | Driller Log, Water Level | Drill log: | D |
| Revised la: | Not Reported | Chem analy: | Not Reported |
| Elec log: | Not Reported | Pump test: | Not Reported |
| Mechanic a: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Bio analys: | Not Reported | Section: | 003 |
| Avail info: | W | Range: | 13W |
| Drillers 2: | 574 | Elevation: | 157 |
| Township: | 16N | Water leve: | 16.00 |
| Hole depth: | 20 | Source of : | D |
| Quad num: | 052A | Date regis: | 08/09 |
| Date measu: | 06/23/09 | Plugged b1: | Not Reported |
| Date of ad: | 2009-08-18 | Yield: | Not Reported |
| Date plugg: | Not Reported | Casing di1: | 2 |
| Plugged b2: | Not Reported | Screen di1: | 2 |
| Drawdown: | Not Reported | Serial num: | Not Reported |
| Casing mat: | PLASTIC | Latitude d: | 0 |
| Screen int: | 10-20 | Longitude2: | 0 |
| Owners num: | MW-7A | Create use: | SONRIS_DBA |
| Latitude m: | 0 | Update use: | SONRIS_DBA |
| Latitude s: | 0 | Industria1: | Not Reported |
| Longitude1: | 0 | Replacemen: | Not Reported |
| Longitude3: | Not Reported | Public su1: | Not Reported |
| Create dat: | 2010 720 | Pumpdown c: | Not Reported |
| Update dat: | 2012 130 | Extension2: | Not Reported |
| Parish cod: | 09 | Screen typ: | Not Reported |
| Owner stat: | Not Reported | Ground eve: | Not Reported |
| Industria2: | Not Reported | Site city: | Not Reported |
| Public su2: | Not Reported | Site addre: | Not Reported |
| Extension1: | Not Reported | Authorize2: | 0 |
| Extension3: | Not Reported | Location l: | Not Reported |
| Gravel pac: | N | Cemented f: | Not Reported |
| Diameter o: | Not Reported | Slot size: | Not Reported |
| Site zip: | Not Reported | | |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | | |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | | |
| Location m: | 0 | | |
| Location c: | Not Reported | | |
| Slot lengt: | Not Reported | | |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|--------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1 : | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66888889 | Pa signat2: | 0 |
| Y latdd: | 32.38055556 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000150929 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | | |

**C16
NNE
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000019602

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394608 | State code: | 22 |
| Water wel2: | 017-11641Z | Local well: | 11641Z |
| Parish num: | 017 | Latitude: | 322251 |
| Identifica: | 322251093400601 | Sequence n: | 01 |
| Longitude: | 934006 | Well depth: | 20 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Avail info: | W | Section: | 003 |
| Drillers 2: | 574 | Range: | 13W |
| Township: | 16N | Elevation: | 158 |
| Hole depth: | 20 | Water leve: | 11.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 06/23/09 | Date regis: | 08/09 |
| Date of ad: | 2009-08-18 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 2 |
| Drawdown: | Not Reported | Screen di1: | 2 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 15-20 | Latitude d: | 0 |
| Owners num: | CDM-8 | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66833333 | | |
| Y latdd: | 32.38083333 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | Site id: | LATD40000019602 |

**17
WSW
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000196562

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394395 | State code: | 22 |
| Water wel2: | 017-11428Z | Local well: | 11428Z |
| Parish num: | 017 | Latitude: | 322237 |
| Identifica: | 322237093402301 | Sequence n: | 01 |
| Longitude: | 934023 | Well depth: | 95 |
| Owners nam: | J W OPERATING COMPANY | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 112RRVA |
| Date compl: | 09/08 | | |
| Available : | Driller Log, Water Level | | |
| Revised la: | 322440 | Revised lo: | 934024 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--|-------------|----------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | KEITHVILLE |
| Drillers 2: | 018 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 95 | Elevation: | 159 |
| Quad num: | 052A | Water leve: | 33.00 |
| Date measu: | 09/26/08 | Source of : | D |
| Date of ad: | 2008-12-31 | Date regis: | 10/08 |
| Date plugg: | 06/03/2011 | Plugged b1: | Not Reported |
| Plugged b2: | 208 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 75-95 | Serial num: | 238806 |
| Owners num: | FRANKS REALTY 14-1 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | HWY 1 & PR 122 |
| Location m: | 1 | | |
| Location c: | SHREVEPORT | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | JB | | |
| Inspector : | Not Reported | | |
| Inspection: | 2011 716 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67305556 | | |
| Y latdd: | 32.37694444 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 2011 616 |
| Pa details: | PLUGGED 4" WELL FROM BOTTOM TO TOP WITH 9 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 6861 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: oil/gas well rig supply
 Well statu: Plugged and Abandoned Site id: LATD40000196562

**18
SE
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000020441

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393975 | | |
| Water wel2: | 017-11005Z | State code: | 22 |
| Parish num: | 017 | Local well: | 11005Z |
| Identifica: | 322235093400001 | Latitude: | 322235 |
| Longitude: | 934000 | Sequence n: | 01 |
| Owners nam: | J W OPERATING | Well depth: | 80 |
| Well use: | S | Well subus: | Not Reported |
| Date compl: | 10/07 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | KEITHVILLE |
| Drillers 2: | 018 | Section: | 036 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 80 | Elevation: | 151 |
| Quad num: | Not Reported | Water leve: | 24.00 |
| Date measu: | 10/25/07 | Source of : | D |
| Date of ad: | 2007-12-04 | Date regis: | 12/07 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 60-80 | Serial num: | 236415 |
| Owners num: | SMITH 14-7 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66666667 | Pa signat2: | 0 |
| Y latdd: | 32.37638889 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000020441 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Active | | |

**D19
NNE
1/8 - 1/4 Mile
Higher**

LA WELLS LATD40000127198

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394609 | State code: | 22 |
| Water wel2: | 017-11642Z | Local well: | 11642Z |
| Parish num: | 017 | Latitude: | 322252 |
| Identifica: | 322252093400301 | Sequence n: | 01 |
| Longitude: | 934003 | Well depth: | 20 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Avail info: | W | Section: | 003 |
| Drillers 2: | 574 | Range: | 13W |
| Township: | 16N | Elevation: | 158 |
| Hole depth: | 20 | Water leve: | 11.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 06/23/09 | Date regis: | 08/09 |
| Date of ad: | 2009-08-18 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 2 |
| Drawdown: | Not Reported | Screen di1: | 2 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 15-20 | Latitude d: | 0 |
| Owners num: | CDM-9 | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.6675 | | |
| Y latdd: | 32.38111111 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | Site id: | LATD40000127198 |

**20
SSW
1/8 - 1/4 Mile
Lower**

LA WELLS LATD40000020300

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393644 | State code: | 22 |
| Water wel2: | 017-10674Z | Local well: | 10674Z |
| Parish num: | 017 | Latitude: | 322230 |
| Identifica: | 322230093401801 | Sequence n: | 01 |
| Longitude: | 934018 | Well depth: | 80 |
| Owners nam: | J W OPERATING | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 112RRVA |
| Date compl: | 01/07 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--|-------------|---------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | SCRUGGS, INC. |
| Drillers 2: | 208 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 80 | Elevation: | 156 |
| Quad num: | 052C | Water leve: | 8.00 |
| Date measu: | 01/05/07 | Source of : | D |
| Date of ad: | 2007-04-16 | Date regis: | 01/07 |
| Date plugg: | 05/02/2011 | Plugged b1: | Not Reported |
| Plugged b2: | 208 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 60-80 | Serial num: | 234370 |
| Owners num: | SMITH 14-6 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | JB | | |
| Inspector : | Not Reported | | |
| Inspection: | 2011 723 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67166667 | | |
| Y latdd: | 32.375 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 2011 614 |
| Pa details: | PLUGGED 4" WELL FROM BOTTOM TO TOP WITH 7 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: oil/gas well rig supply
 Well statu: Plugged and Abandoned Site id: LATD4000020300

**E21
 North
 1/4 - 1/2 Mile
 Higher**

LA WELLS LATD40000150326

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394614 | | |
| Water wel2: | 017-11647Z | State code: | 22 |
| Parish num: | 017 | Local well: | 11647Z |
| Identifica: | 322255093401001 | Latitude: | 322255 |
| Longitude: | 934010 | Sequence n: | 01 |
| Owners nam: | CCS MIDSTREAM | Well depth: | 21 |
| Well use: | M | Well subus: | Not Reported |
| Date compl: | 06/09 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 21 | Elevation: | 158 |
| Quad num: | 052A | Water leve: | 13.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 11-21 | Serial num: | Not Reported |
| Owners num: | MW-3A | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66944444 | Pa signat2: | 0 |
| Y latdd: | 32.38194444 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000150326 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | | |

**D22
NE
1/4 - 1/2 Mile
Higher**

LA WELLS LATD40000020512

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394615 | State code: | 22 |
| Water wel2: | 017-11648Z | Local well: | 11648Z |
| Parish num: | 017 | Latitude: | 322252 |
| Identifica: | 322252093400101 | Sequence n: | 01 |
| Longitude: | 934001 | Well depth: | 27 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Avail info: | W | Section: | 003 |
| Drillers 2: | 574 | Range: | 13W |
| Township: | 16N | Elevation: | 159 |
| Hole depth: | 27 | Water leve: | 11.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 06/23/09 | Date regis: | 08/09 |
| Date of ad: | 2009-08-18 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 2 |
| Drawdown: | Not Reported | Screen di1: | 2 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 17-27 | Latitude d: | 0 |
| Owners num: | MW-4A | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66694444 | | |
| Y latdd: | 32.38111111 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | Site id: | LATD40000020512 |

**D23
NNE
1/4 - 1/2 Mile
Higher**

LA WELLS LATD40000019603

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394612 | State code: | 22 |
| Water wel2: | 017-11645Z | Local well: | 11645Z |
| Parish num: | 017 | Latitude: | 322256 |
| Identifica: | 322256093400401 | Sequence n: | 01 |
| Longitude: | 934004 | Well depth: | 21 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 22 | Elevation: | 159 |
| Quad num: | 052A | Water leve: | 11.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 11-21 | Serial num: | Not Reported |
| Owners num: | MW-2A | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66777778 | | |
| Y latdd: | 32.38222222 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: monitor
 Well statu: Active Site id: LATD40000019603

**E24
 NNE
 1/4 - 1/2 Mile
 Higher**

LA WELLS LATD40000096256

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394610 | State code: | 22 |
| Water wel2: | 017-11643Z | Local well: | 11643Z |
| Parish num: | 017 | Latitude: | 322257 |
| Identifica: | 322257093400601 | Sequence n: | 01 |
| Longitude: | 934006 | Well depth: | 20 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | Revised lo: | Not Reported |
| Available : | Driller Log, Water Level | Drill log: | D |
| Revised la: | Not Reported | Chem analy: | Not Reported |
| Elec log: | Not Reported | Pump test: | Not Reported |
| Mechanic a: | Not Reported | Drillers 1: | WALKER-HILL(CO) |
| Bio analys: | Not Reported | Section: | 003 |
| Avail info: | W | Range: | 13W |
| Drillers 2: | 574 | Elevation: | 159 |
| Township: | 16N | Water leve: | 11.00 |
| Hole depth: | 20 | Source of : | D |
| Quad num: | 052A | Date regis: | 08/09 |
| Date measu: | 06/23/09 | Plugged b1: | Not Reported |
| Date of ad: | 2009-08-18 | Yield: | Not Reported |
| Date plugg: | Not Reported | Casing di1: | 2 |
| Plugged b2: | Not Reported | Screen di1: | 2 |
| Drawdown: | Not Reported | Serial num: | Not Reported |
| Casing mat: | PLASTIC | Latitude d: | 0 |
| Screen int: | 15-20 | | |
| Owners num: | CDM-16 | Longitude2: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | Create use: | SONRIS_DBA |
| Create dat: | 2010 720 | Update use: | SONRIS_DBA |
| Update dat: | 2012 130 | Industria1: | Not Reported |
| Parish cod: | 09 | Replacemen: | Not Reported |
| Owner stat: | Not Reported | Public su1: | Not Reported |
| Industria2: | Not Reported | Pumpdown c: | Not Reported |
| Public su2: | Not Reported | Extension2: | Not Reported |
| Extension1: | Not Reported | Screen typ: | Not Reported |
| Extension3: | Not Reported | Ground eve: | Not Reported |
| Gravel pac: | N | Site city: | Not Reported |
| Diameter o: | Not Reported | Site addre: | Not Reported |
| Site zip: | Not Reported | | |
| Remarks: | Not Reported | Authorize2: | 0 |
| Authorize1: | Not Reported | | |
| Heat pump1: | 0 | Location l: | Not Reported |
| Heat pump2: | Not Reported | | |
| Location m: | 0 | Cemented f: | Not Reported |
| Location c: | Not Reported | Slot size: | Not Reported |
| Slot lengt: | Not Reported | | |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66833333 | Pa signat2: | 0 |
| Y latdd: | 32.3825 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000096256 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | | |

**25
East
1/4 - 1/2 Mile
Higher**

LA WELLS LATD40000183123

| | | | |
|-------------|-----------------|-------------|-----------------|
| Water wel1: | 388147 | State code: | 22 |
| Water wel2: | 017-5178Z | Local well: | 5178Z |
| Parish num: | 017 | Latitude: | 322240 |
| Identifica: | 322240093395201 | Sequence n: | 01 |
| Longitude: | 933952 | Well depth: | 90 |
| Owners nam: | SAWYER DRLG | Well subus: | PA |
| Well use: | S | Geologic u: | 124WLCX |
| Date compl: | 11/84 | | |
| Available : | Driller Log | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | TALLEY, JOHN L. |
| Avail info: | Not Reported | Section: | 014 |
| Drillers 2: | 006 | Range: | 13W |
| Township: | 16N | Elevation: | 156 |
| Hole depth: | 90 | Water leve: | 0.00 |
| Quad num: | 052 | Source of : | Not Reported |
| Date measu: | Not Reported | Date regis: | 01/85 |
| Date of ad: | 1995-01-24 | Plugged b1: | SCRUGGS, INC. |
| Date plugg: | 09/86 | Yield: | Not Reported |
| Plugged b2: | 208 | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | 4 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 50-90 | Latitude d: | 0 |
| Owners num: | EGAN 1 | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66444444 | | |
| Y latdd: | 32.37777778 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | WILCOX AQUIFER | | |
| Use descri: | plugged and abandoned rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000183123 |

**F26
NNE
1/4 - 1/2 Mile
Higher**

LA WELLS LATD40000020511

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394613 | State code: | 22 |
| Water wel2: | 017-11646Z | Local well: | 11646Z |
| Parish num: | 017 | Latitude: | 322257 |
| Identifica: | 322257093400401 | Sequence n: | 01 |
| Longitude: | 934004 | Well depth: | 74 |
| Owners nam: | CCS MIDSTREAM | Well subus: | Not Reported |
| Well use: | M | Geologic u: | 00000000 |
| Date compl: | 06/09 | | |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 85 | Elevation: | 159 |
| Quad num: | 052A | Water leve: | 13.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 64-74 | Serial num: | Not Reported |
| Owners num: | MW-2B | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66777778 | | |
| Y latdd: | 32.3825 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: monitor
 Well statu: Active Site id: LATD4000020511

27
SSE
1/4 - 1/2 Mile
Higher

LA WELLS LATD40000178207

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393113 | State code: | 22 |
| Water wel2: | 017-10143Z | Local well: | 10143Z |
| Parish num: | 017 | Latitude: | 322226 |
| Identifica: | 322226093400101 | Sequence n: | 01 |
| Longitude: | 934001 | Well depth: | 80 |
| Owners nam: | J W OPERATING | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 112RRVA |
| Date compl: | 02/05 | Revised lo: | 934001 |
| Available : | Driller Log, Water Level | Drill log: | D |
| Revised la: | 322626 | Chem analy: | Not Reported |
| Elec log: | Not Reported | Pump test: | Not Reported |
| Mechanic a: | Not Reported | Drillers 1: | KEITHVILLE |
| Bio analys: | Not Reported | Section: | 003 |
| Avail info: | W | Range: | 13W |
| Drillers 2: | 018 | Elevation: | 0164 |
| Township: | 16N | Water leve: | 8.00 |
| Hole depth: | 80 | Source of : | D |
| Quad num: | 052C | Date regis: | 06/05 |
| Date measu: | 02/25/05 | Plugged b1: | Not Reported |
| Date of ad: | 2005-08-08 | Yield: | Not Reported |
| Date plugg: | 10/03/2013 | Casing di1: | 4 |
| Plugged b2: | 208 | Screen di1: | 4 |
| Drawdown: | Not Reported | Serial num: | 230917 |
| Casing mat: | PLASTIC | Latitude d: | 0 |
| Screen int: | 60-80 | Longitude2: | 0 |
| Owners num: | SMITH 14-2 | Create use: | SONRIS_DBA |
| Latitude m: | 0 | Update use: | TERITH |
| Latitude s: | 0 | Industria1: | Not Reported |
| Longitude1: | 0 | Replacemen: | Not Reported |
| Longitude3: | Not Reported | Public su1: | Not Reported |
| Create dat: | 2010 720 | Pumpdown c: | Not Reported |
| Update dat: | 2014 4 3 | Extension2: | Not Reported |
| Parish cod: | 09 | Screen typ: | Not Reported |
| Owner stat: | Not Reported | Ground eve: | Not Reported |
| Industria2: | Not Reported | Site city: | Not Reported |
| Public su2: | Not Reported | Site addre: | Not Reported |
| Extension1: | Not Reported | Authorize2: | 0 |
| Extension3: | Not Reported | Location l: | Not Reported |
| Gravel pac: | N | Cemented f: | Not Reported |
| Diameter o: | Not Reported | Slot size: | Not Reported |
| Site zip: | Not Reported | | |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | | |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | | |
| Location m: | 0 | | |
| Location c: | Not Reported | | |
| Slot lengt: | Not Reported | | |
| Inspector: | RJF/PAA | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|---|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 2014 324 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66694444 | | |
| Y latdd: | 32.37388889 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 20131018 |
| Pa details: | USING TREMMIE PIPE, PLUGGED WELL FROM BOTTOM TO TOP WITH 8 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000178207 |

**28
SW
1/4 - 1/2 Mile
Lower**

LA WELLS LATD40000134020

| | | | |
|-------------|--------------------------|-------------|---------------|
| Water wel1: | 391023 | State code: | 22 |
| Water wel2: | 017-8054Z | Local well: | 8054Z |
| Parish num: | 017 | Latitude: | 322230 |
| Identifica: | 322230093402701 | Sequence n: | 01 |
| Longitude: | 934027 | Well depth: | 150 |
| Owners nam: | MANASCO CONST | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 124WLCX |
| Date compl: | 07/95 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | PROFESSIONAL' |
| Avail info: | W | Section: | 038 |
| Drillers 2: | 475 | Range: | 13W |
| Township: | 16N | Elevation: | 155 |
| Hole depth: | 150 | Water leve: | 30.00 |
| Quad num: | 052C | Source of : | D |
| Date measu: | 07/15/95 | Date regis: | 07/95 |
| Date of ad: | 1996-09-10 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | 1.50 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 120-150 | Latitude d: | 0 |
| Owners num: | Not Reported | | |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67416667 | | |
| Y latdd: | 32.375 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | WILCOX AQUIFER | | |
| Use descri: | domestic | | |
| Well statu: | Active | Site id: | LATD40000134020 |

29
SSW
1/4 - 1/2 Mile
Lower

LA WELLS LATD40000150126

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393539 | State code: | 22 |
| Water wel2: | 017-10569Z | Local well: | 10569Z |
| Parish num: | 017 | Latitude: | 322223 |
| Identifica: | 322223093401601 | Sequence n: | 01 |
| Longitude: | 934016 | Well depth: | 80 |
| Owners nam: | J W OPERATING | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 112RRVA |
| Date compl: | 06/06 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--|-------------|---------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | SCRUGGS, INC. |
| Drillers 2: | 208 | Section: | 038 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 80 | Elevation: | 153 |
| Quad num: | 052C | Water leve: | 7.00 |
| Date measu: | 06/06/06 | Source of : | D |
| Date of ad: | 2006-10-11 | Date regis: | 06/06 |
| Date plugg: | 05/20/2011 | Plugged b1: | Not Reported |
| Plugged b2: | 208 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 60-80 | Serial num: | 233567 |
| Owners num: | SMITH 14-5 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | JB | | |
| Inspector : | Not Reported | | |
| Inspection: | 2011 723 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.671111111 | | |
| Y latdd: | 32.37305556 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 2011 614 |
| Pa details: | PLUGGED 4" WELL FROM BOTTOM TO TOP WITH 8 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: oil/gas well rig supply
 Well statu: Plugged and Abandoned Site id: LATD40000150126

**F30
 NNE
 1/4 - 1/2 Mile
 Higher**

LA WELLS LATD40000145333

| | | | |
|-------------|--------------------------|-------------|-----------------|
| Water wel1: | 394611 | | |
| Water wel2: | 017-11644Z | State code: | 22 |
| Parish num: | 017 | Local well: | 11644Z |
| Identifica: | 322259093400201 | Latitude: | 322259 |
| Longitude: | 934002 | Sequence n: | 01 |
| Owners nam: | CCS MIDSTREAM | Well depth: | 25 |
| Well use: | M | Well subus: | Not Reported |
| Date compl: | 06/09 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | WALKER-HILL(CO) |
| Drillers 2: | 574 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 25 | Elevation: | 160 |
| Quad num: | 052A | Water leve: | 17.00 |
| Date measu: | 06/23/09 | Source of : | D |
| Date of ad: | 2009-08-18 | Date regis: | 08/09 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 2 |
| Casing mat: | PLASTIC | Screen di1: | 2 |
| Screen int: | 15-25 | Serial num: | Not Reported |
| Owners num: | MW-1A | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66722222 | Pa signat2: | 0 |
| Y latdd: | 32.38305556 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000145333 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | monitor | | |
| Well statu: | Active | | |

**31
NW
1/4 - 1/2 Mile
Higher**

LA WELLS LATD40000020633

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394626 | State code: | 22 |
| Water wel2: | 017-11659Z | Local well: | 11659Z |
| Parish num: | 017 | Latitude: | 322259 |
| Identifica: | 322259093402701 | Sequence n: | 01 |
| Longitude: | 934027 | Well depth: | 90 |
| Owners nam: | CHESAPEAKE | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 00000000 |
| Date compl: | 08/09 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | KEITHVILLE |
| Avail info: | W | Section: | 003 |
| Drillers 2: | 018 | Range: | 13W |
| Township: | 16N | Elevation: | Not Reported |
| Hole depth: | 90 | Water leve: | 13.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 08/26/09 | Date regis: | 09/09 |
| Date of ad: | 2009-09-02 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | 4 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 70-90 | Latitude d: | 0 |
| Owners num: | FRANKS 11 | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67416667 | | |
| Y latdd: | 32.38305556 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Active | Site id: | LATD40000020633 |

**32
SW
1/4 - 1/2 Mile
Lower**

LA WELLS LATD40000095928

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393233 | State code: | 22 |
| Water wel2: | 017-10263Z | Local well: | 10263Z |
| Parish num: | 017 | Latitude: | 322226 |
| Identifica: | 322226093403401 | Sequence n: | 01 |
| Longitude: | 934034 | Well depth: | 80 |
| Owners nam: | PASLEY, PHILLIP | Well subus: | Not Reported |
| Well use: | I | Geologic u: | 00000000 |
| Date compl: | 05/05 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------------|-------------|--------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | VOWELL (ROY) |
| Drillers 2: | 251 | Section: | 038 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 80 | Elevation: | 154 |
| Quad num: | 052A | Water leve: | 45.00 |
| Date measu: | 05/11/05 | Source of : | D |
| Date of ad: | 2005-08-08 | Date regis: | 06/05 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 50-80 | Serial num: | Not Reported |
| Owners num: | #1 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67611111 | | |
| Y latdd: | 32.37388889 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | Parish nam: | CADDO |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: irrigation
 Well statu: Active Site id: LATD40000095928

33
SSE
1/2 - 1 Mile
Lower

LA WELLS LATD40000019887

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 392926 | | |
| Water wel2: | 017-9956Z | State code: | 22 |
| Parish num: | 017 | Local well: | 9956Z |
| Identifica: | 322218093395701 | Latitude: | 322218 |
| Longitude: | 933957 | Sequence n: | 01 |
| Owners nam: | PATTERSON DRLG | Well depth: | 60 |
| Well use: | S | Well subus: | PA |
| Date compl: | 12/03 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | KEITHVILLE |
| Drillers 2: | 018 | Section: | 036 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 60 | Elevation: | 154 |
| Quad num: | 052C | Water leve: | 18.00 |
| Date measu: | 12/06/03 | Source of : | D |
| Date of ad: | 2006-04-10 | Date regis: | 01/04 |
| Date plugg: | 03/06 | Plugged b1: | KEITHVILLE |
| Plugged b2: | 018 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 40-60 | Serial num: | 228917 |
| Owners num: | SMITH 14-1 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66583333 | | |
| Y latdd: | 32.37166667 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | plugged and abandoned rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000019887 |

**34
South
1/2 - 1 Mile
Lower**

LA WELLS LATD40000195489

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393429 | State code: | 22 |
| Water wel2: | 017-10459Z | Local well: | 10459Z |
| Parish num: | 017 | Latitude: | 322215 |
| Identifica: | 322215093401701 | Sequence n: | 01 |
| Longitude: | 934017 | Well depth: | 60 |
| Owners nam: | J W OPERATING | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 112RRVA |
| Date compl: | 12/05 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | KEITHVILLE |
| Avail info: | W | Section: | 038 |
| Drillers 2: | 018 | Range: | 13W |
| Township: | 16N | Elevation: | 153 |
| Hole depth: | 60 | Water leve: | 10.00 |
| Quad num: | 052C | Source of : | D |
| Date measu: | 12/28/05 | Date regis: | 02/06 |
| Date of ad: | 2006-04-06 | Plugged b1: | Not Reported |
| Date plugg: | 05/20/2011 | Yield: | Not Reported |
| Plugged b2: | 208 | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | 4 |
| Casing mat: | PLASTIC | Serial num: | 232527 |
| Screen int: | 40-60 | Latitude d: | 0 |
| Owners num: | JETER 14-1 | | |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | JB | | |
| Inspector : | Not Reported | | |
| Inspection: | 2011 723 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67138889 | | |
| Y latdd: | 32.37083333 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 2011 614 |
| Pa details: | PLUGGED 4" WELL FROM BOTTOM TO TOP WITH 9 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000195489 |

**35
NNW
1/2 - 1 Mile
Higher**

LA WELLS LATD40000102284

| | | | |
|-------------|-----------------|-------------|--------------|
| Water wel1: | 607865 | State code: | 22 |
| Water wel2: | 017-12293Z | Local well: | 12293Z |
| Parish num: | 017 | Latitude: | 322307 |
| Identifica: | 322307093402401 | Sequence n: | 00 |
| Longitude: | 934024 | Well depth: | 270 |
| Owners nam: | LLOYD WELLS | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 124WLCX |
| Date compl: | 01/19/2013 | | |
| Available : | Not Reported | Revised lo: | Not Reported |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-----------------|-------------|-----------------------------------|
| Elec log: | N | Drill log: | D |
| Mechanic a: | N | Chem analy: | N |
| Bio analys: | N | Pump test: | N |
| Avail info: | N | Drillers 1: | COMPLETE WELL & PUMP SERVICE, LLC |
| Drillers 2: | 673 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 270 | Elevation: | 0166 |
| Quad num: | 052A | Water leve: | 120 |
| Date measu: | 01/19/2013 | Source of : | D |
| Date of ad: | Not Reported | Date regis: | 07/28/2013 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | Not Reported | Serial num: | Not Reported |
| Owners num: | Not Reported | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2013 712 | Create use: | TERITH |
| Update dat: | 201311 7 | Update use: | TERITH |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | N | Replacemen: | N |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | PLASTIC |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | TALLEY, JOHN W. | Authorize2: | 2013 624 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | HWY 1 & LEONARD RD |
| Location m: | 1.5 | | |
| Location c: | SHREVEPORT | Cemented f: | 15 |
| Slot lengt: | 20 | Slot size: | .018 |
| Inspector: | PAA | | |
| Inspector : | Not Reported | | |
| Inspection: | 2013 926 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67333333 | | |
| Y latdd: | 32.38527778 | | |
| Pump down : | G | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | 250 |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 51897 | Parish nam: | CADDO |
| Screen di3: | Not Reported | | |
| Aquifer na: | WILCOX AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: domestic
 Well statu: Active Site id: LATD40000102284

36
WSW
1/2 - 1 Mile
Lower

LA WELLS LATD40000167068

| | | | |
|-------------|--------------------------|-------------|----------------|
| Water wel1: | 388420 | State code: | 22 |
| Water wel2: | 017-5451Z | Local well: | 5451Z |
| Parish num: | 017 | Latitude: | 322225 |
| Identifica: | 322225093404301 | Sequence n: | 01 |
| Longitude: | 934043 | Well depth: | 152 |
| Owners nam: | LEGENDRE, GUY | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 124WLCX |
| Date compl: | 08/85 | Revised lo: | Not Reported |
| Available : | Driller Log, Water Level | Drill log: | D |
| Revised la: | Not Reported | Chem analy: | Not Reported |
| Elec log: | Not Reported | Pump test: | Not Reported |
| Mechanic a: | Not Reported | Drillers 1: | PRESLEY, ROGER |
| Bio analys: | Not Reported | Section: | 038 |
| Avail info: | W | Range: | 13W |
| Drillers 2: | 102 | Elevation: | Not Reported |
| Township: | 16N | Water leve: | 60.00 |
| Hole depth: | 160 | Source of : | D |
| Quad num: | 052C | Date regis: | 10/85 |
| Date measu: | 08/21/85 | Plugged b1: | Not Reported |
| Date of ad: | 2000-03-17 | Yield: | 10 |
| Date plugg: | Not Reported | Casing di1: | 4 |
| Plugged b2: | Not Reported | Screen di1: | 4 |
| Drawdown: | Not Reported | Serial num: | Not Reported |
| Casing mat: | PLASTIC | Latitude d: | 0 |
| Screen int: | 102-152 | Longitude2: | 0 |
| Owners num: | Not Reported | Create use: | SONRIS_DBA |
| Latitude m: | 0 | Update use: | SONRIS_DBA |
| Latitude s: | 0 | Industria1: | Not Reported |
| Longitude1: | 0 | Replacemen: | Not Reported |
| Longitude3: | Not Reported | Public su1: | Not Reported |
| Create dat: | 2010 720 | Pumpdown c: | Not Reported |
| Update dat: | 2012 130 | Extension2: | Not Reported |
| Parish cod: | 09 | Screen typ: | Not Reported |
| Owner stat: | Not Reported | Ground eve: | Not Reported |
| Industria2: | Not Reported | Site city: | Not Reported |
| Public su2: | Not Reported | Site addre: | Not Reported |
| Extension1: | Not Reported | Authorize2: | 0 |
| Extension3: | Not Reported | Location l: | Not Reported |
| Gravel pac: | N | Cemented f: | Not Reported |
| Diameter o: | Not Reported | Slot size: | Not Reported |
| Site zip: | Not Reported | | |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | | |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | | |
| Location m: | 0 | | |
| Location c: | Not Reported | | |
| Slot lengt: | Not Reported | | |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.67861111 | Pa signat2: | 0 |
| Y latdd: | 32.37361111 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000167068 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | WILCOX AQUIFER | | |
| Use descri: | domestic | | |
| Well statu: | Active | | |

**37
SSE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000193331

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393281 | State code: | 22 |
| Water wel2: | 017-10311Z | Local well: | 10311Z |
| Parish num: | 017 | Latitude: | 322209 |
| Identifica: | 322209093400001 | Sequence n: | 01 |
| Longitude: | 934000 | Well depth: | 70 |
| Owners nam: | J W OPERATING | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 112RRVA |
| Date compl: | 06/05 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | KEITHVILLE |
| Avail info: | W | Section: | 038 |
| Drillers 2: | 018 | Range: | 13W |
| Township: | 16N | Elevation: | 154 |
| Hole depth: | 70 | Water leve: | 10.00 |
| Quad num: | 052C | Source of : | D |
| Date measu: | 06/30/05 | Date regis: | 08/05 |
| Date of ad: | 2005-10-19 | Plugged b1: | Not Reported |
| Date plugg: | 05/20/2011 | Yield: | Not Reported |
| Plugged b2: | 208 | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | 4 |
| Casing mat: | PLASTIC | Serial num: | 231591 |
| Screen int: | 50-70 | Latitude d: | 0 |
| Owners num: | SMITH 14#3 | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | JB | | |
| Inspector : | Not Reported | | |
| Inspection: | 2011 723 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66666667 | | |
| Y latdd: | 32.36916667 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 2011 614 |
| Pa details: | PLUGGED 4" WELL FROM BOTTOM TO TOP WITH 8 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000193331 |

**38
ESE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000145492

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 392529 | State code: | 22 |
| Water wel2: | 017-9559Z | Local well: | 9559Z |
| Parish num: | 017 | Latitude: | 322226 |
| Identifica: | 322226093393401 | Sequence n: | 01 |
| Longitude: | 933934 | Well depth: | 90 |
| Owners nam: | J W OPERATING | Well subus: | PA |
| Well use: | S | Geologic u: | 124WLCX |
| Date compl: | 12/01 | | |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|--------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | KEITHVILLE |
| Drillers 2: | 018 | Section: | 038 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 90 | Elevation: | 154 |
| Quad num: | 052C | Water leve: | 26.00 |
| Date measu: | 12/26/01 | Source of : | D |
| Date of ad: | 2006-04-10 | Date regis: | 04/02 |
| Date plugg: | 03/06 | Plugged b1: | KEITHVILLE |
| Plugged b2: | 018 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 70-90 | Serial num: | 226672 |
| Owners num: | WEBB 13-2 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | JB | | |
| Inspector : | Not Reported | | |
| Inspection: | 2011 723 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.65944444 | | |
| Y latdd: | 32.37388889 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | WILCOX AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: plugged and abandoned rig supply
 Well statu: Plugged and Abandoned Site id: LATD40000145492

**39
SE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000020324

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 394058 | | |
| Water wel2: | 017-11088Z | State code: | 22 |
| Parish num: | 017 | Local well: | 11088Z |
| Identifica: | 322213093394201 | Latitude: | 322213 |
| Longitude: | 933942 | Sequence n: | 01 |
| Owners nam: | J W OPERATING COMPANY | Well depth: | 60 |
| Well use: | S | Well subus: | Not Reported |
| Date compl: | 01/08 | Geologic u: | 112RRVA |
| Available : | Driller Log, Water Level | | |
| Revised la: | 933942 | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | KEITHVILLE |
| Drillers 2: | 018 | Section: | 013 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 60 | Elevation: | 155 |
| Quad num: | 052C | Water leve: | 12.00 |
| Date measu: | 01/04/08 | Source of : | D |
| Date of ad: | 2008-02-22 | Date regis: | 02/08 |
| Date plugg: | 05/19/2011 | Plugged b1: | Not Reported |
| Plugged b2: | 208 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 40-60 | Serial num: | 236479 |
| Owners num: | WEBB 13-5 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | JB | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 2011 723 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66166667 | | |
| Y latdd: | 32.37027778 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 2011 614 |
| Pa details: | PLUGGED 4" WELL FROM BOTTOM TO TOP WITH 7 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 6861 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000020324 |

**40
East
1/2 - 1 Mile
Higher**

LA WELLS LATD40000017905

| | | | |
|-------------|--------------------------|-------------|---------------|
| Water wel1: | 393617 | State code: | 22 |
| Water wel2: | 017-10647Z | Local well: | 10647Z |
| Parish num: | 017 | Latitude: | 322235 |
| Identifica: | 322235093392701 | Sequence n: | 01 |
| Longitude: | 933927 | Well depth: | 80 |
| Owners nam: | J W OPERATING | Well subus: | Not Reported |
| Well use: | S | Geologic u: | 124WLCX |
| Date compl: | 09/06 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | SCRUGGS, INC. |
| Avail info: | W | Section: | 013 |
| Drillers 2: | 208 | Range: | 13W |
| Township: | 16N | Elevation: | 0159 |
| Hole depth: | 80 | Water leve: | 11.00 |
| Quad num: | 052A | Source of : | D |
| Date measu: | 09/28/06 | Date regis: | 10/06 |
| Date of ad: | 2007-04-27 | Plugged b1: | Not Reported |
| Date plugg: | 06/13/2011 | Yield: | Not Reported |
| Plugged b2: | 208 | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | 4 |
| Casing mat: | PLASTIC | Serial num: | 234210 |
| Screen int: | 60-80 | Latitude d: | 0 |
| Owners num: | CADDO-BOSSIER PORT13-3 | | |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 20121219 | Update use: | TERITH |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | PAA | | |
| Inspector : | Not Reported | | |
| Inspection: | 201211 7 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.6575 | | |
| Y latdd: | 32.37638889 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | GEORGE HAYWARD | Pa signat2: | 2011 718 |
| Pa details: | PLUGGED 4" WELL FROM BOTTOM TO TOP WITH 8 PORTLAND | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | WILCOX AQUIFER | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000017905 |

41
WSW
1/2 - 1 Mile
Lower

LA WELLS LATD40000020237

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 392086 | State code: | 22 |
| Water wel2: | 017-9117Z | Local well: | 9117Z |
| Parish num: | 017 | Latitude: | 322221 |
| Identifica: | 322221093405001 | Sequence n: | 01 |
| Longitude: | 934050 | Well depth: | 210 |
| Owners nam: | DOSSETT, STAN | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 124WLCX |
| Date compl: | 04/00 | | |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|---------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | FOORD, WM. L. |
| Drillers 2: | 283 | Section: | 038 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 220 | Elevation: | 150 |
| Quad num: | 052C | Water leve: | 32.00 |
| Date measu: | 04/05/00 | Source of : | D |
| Date of ad: | 2001-07-27 | Date regis: | 06/00 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 130-210 | Serial num: | Not Reported |
| Owners num: | Not Reported | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | Longitude2: | 0 |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | Create use: | SONRIS_DBA |
| Create dat: | 2010 720 | Update use: | SONRIS_DBA |
| Update dat: | 2012 130 | Industria1: | Not Reported |
| Parish cod: | 09 | Replacemen: | Not Reported |
| Owner stat: | Not Reported | Public su1: | Not Reported |
| Industria2: | Not Reported | Pumpdown c: | Not Reported |
| Public su2: | Not Reported | Extension2: | Not Reported |
| Extension1: | Not Reported | Screen typ: | Not Reported |
| Extension3: | Not Reported | Ground eve: | Not Reported |
| Gravel pac: | N | Site city: | Not Reported |
| Diameter o: | Not Reported | Site addre: | Not Reported |
| Site zip: | Not Reported | | |
| Remarks: | Not Reported | Authorize2: | 0 |
| Authorize1: | Not Reported | | |
| Heat pump1: | 0 | Location I: | Not Reported |
| Heat pump2: | Not Reported | | |
| Location m: | 0 | Cemented f: | Not Reported |
| Location c: | Not Reported | Slot size: | Not Reported |
| Slot lengt: | Not Reported | | |
| Inspector: | Not Reported | Pump setti: | Not Reported |
| Inspector : | Not Reported | Pump plan1: | 0 |
| Inspection: | 0 | Pump plan3: | Not Reported |
| Pump motor: | Not Reported | Yield meas: | Not Reported |
| Pump plan2: | 0 | Pump hour2: | 0 |
| Pump rate: | Not Reported | Pump deter: | Not Reported |
| Pump hour1: | 0 | Pump test : | 0 |
| Pump stati: | Not Reported | | |
| Pump groun: | Not Reported | Pa signat2: | 0 |
| X longdd: | -93.68055556 | | |
| Y latdd: | 32.3725 | Casing len: | Not Reported |
| Pump down : | Not Reported | Casing di3: | Not Reported |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Parish nam: | CADDO |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | WILCOX AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: domestic
 Well statu: Active Site id: LATD40000020237

**G42
 SW
 1/2 - 1 Mile
 Lower**

LA WELLS LATD40000145268

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 390536 | | |
| Water wel2: | 017-7567Z | State code: | 22 |
| Parish num: | 017 | Local well: | 7567Z |
| Identifica: | 322214093404401 | Latitude: | 322214 |
| Longitude: | 934044 | Sequence n: | 01 |
| Owners nam: | DICKSON, PAUL | Well depth: | 180 |
| Well use: | H | Well subus: | Not Reported |
| Date compl: | 05/93 | Geologic u: | 124WLCX |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | CONTINENTAL |
| Drillers 2: | 004 | Section: | 038 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 180 | Elevation: | 150 |
| Quad num: | 052C | Water leve: | 59.10 |
| Date measu: | 05/14/93 | Source of : | D |
| Date of ad: | 1994-12-02 | Date regis: | 06/93 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 5 |
| Casing mat: | PLASTIC | Screen di1: | 3 |
| Screen int: | 160-180 | Serial num: | Not Reported |
| Owners num: | Not Reported | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.67888889 | Pa signat2: | 0 |
| Y latdd: | 32.37055556 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000145268 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | WILCOX AQUIFER | | |
| Use descri: | domestic | | |
| Well statu: | Active | | |

**G43
SW
1/2 - 1 Mile
Lower**

LA WELLS LATD40000017739

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 387857 | State code: | 22 |
| Water wel2: | 017-824 | Local well: | 824 |
| Parish num: | 017 | Latitude: | 322213 |
| Identifica: | 322213093404301 | Sequence n: | 01 |
| Longitude: | 934043 | Well depth: | 61 |
| Owners nam: | DICKSON, PAUL | Well subus: | Not Reported |
| Well use: | I | Geologic u: | 112RRVA |
| Date compl: | 05/93 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | CONTINENTAL |
| Avail info: | W | Section: | 038 |
| Drillers 2: | 004 | Range: | 13W |
| Township: | 16N | Elevation: | 155 |
| Hole depth: | 65 | Water leve: | 7.10 |
| Quad num: | 052C | Source of : | D |
| Date measu: | 05/21/93 | Date regis: | 06/93 |
| Date of ad: | 1996-08-06 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | 600 |
| Plugged b2: | Not Reported | Casing di1: | 10 |
| Drawdown: | Not Reported | Screen di1: | 10 |
| Casing mat: | STEEL | Serial num: | Not Reported |
| Screen int: | 46-61 | Latitude d: | 0 |
| Owners num: | Not Reported | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67861111 | | |
| Y latdd: | 32.37027778 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |
| Use descri: | irrigation | | |
| Well statu: | Active | Site id: | LATD40000017739 |

**G44
SW
1/2 - 1 Mile
Lower**

LA WELLS LATD40000191676

| | | | |
|-------------|--|-------------|--------------|
| Water wel1: | 387357 | State code: | 22 |
| Water wel2: | 017-331 | Local well: | 331 |
| Parish num: | 017 | Latitude: | 322213 |
| Identifica: | 322213093404701 | Sequence n: | 01 |
| Longitude: | 934047 | Well depth: | 64 |
| Owners nam: | U S GEOL SURVEY | Well subus: | W |
| Well use: | O | Geologic u: | 112RRVA |
| Date compl: | 11/56 | | |
| Available : | Driller Log, Quality of Water, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------|-------------|--------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Q |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | U.S.G.S. |
| Drillers 2: | 002 | Section: | 038 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 66 | Elevation: | 153 |
| Quad num: | Not Reported | Water leve: | 12.95 |
| Date measu: | 11/19/56 | Source of : | A |
| Date of ad: | 1992-08-06 | Date regis: | Not Reported |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 1.25 |
| Casing mat: | METAL | Screen di1: | 1.25 |
| Screen int: | 61-64 | Serial num: | Not Reported |
| Owners num: | Not Reported | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67972222 | | |
| Y latdd: | 32.37027778 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: water level observation
 Well statu: Active Site id: LATD40000191676

**G45
 SW
 1/2 - 1 Mile
 Lower**

FED USGS USGS40000412682

| | | | | | |
|-----------------------------|-------------------------------------|--------------------------|--------------|--|--|
| Org. Identifier: | USGS-LA | | | | |
| Formal name: | USGS Louisiana Water Science Center | | | | |
| Monloc Identifier: | USGS-322213093404701 | | | | |
| Monloc name: | Cd- 331 | | | | |
| Monloc type: | Well | | | | |
| Monloc desc: | Not Reported | | | | |
| Huc code: | 11140206 | Drainagearea value: | Not Reported | | |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported | | |
| Contrib drainagearea units: | Not Reported | Latitude: | 32.3704334 | | |
| Longitude: | -93.6799001 | Sourcemap scale: | 62500 | | |
| Horiz Acc measure: | 5 | Horiz Acc measure units: | seconds | | |
| Horiz Collection method: | Interpolated from map | | | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 153.13 | | |
| Vert measure units: | feet | Vertacc measure val: | .1 | | |
| Vert accmeasure units: | feet | | | | |
| Vertcollection method: | Level or other surveying method | | | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US | | |
| Aquifername: | Alluvial aquifers | | | | |
| Formation type: | Red River Alluvial Aquifer | | | | |
| Aquifer type: | Not Reported | | | | |
| Construction date: | 19561113 | Welldepth: | 64 | | |
| Welldepth units: | ft | Wellholedepth: | 66 | | |
| Wellholedepth units: | ft | | | | |

Ground-water levels, Number of Measurements: 335

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| 1989-03-23 | 10.70 | | 1988-03-10 | 11.48 | |
| 1987-09-01 | 14.22 | | 1987-08-04 | 13.70 | |
| 1987-07-07 | 12.80 | | 1987-06-02 | 11.81 | |
| 1987-05-06 | 10.99 | | 1987-04-06 | 9.78 | |
| 1987-03-04 | 8.37 | | 1987-02-02 | 10.57 | |
| 1987-01-05 | 10.26 | | 1986-12-03 | 11.54 | |
| 1986-11-03 | 14.05 | | 1986-10-15 | 14.38 | |
| 1986-09-17 | 14.24 | | 1986-08-06 | 13.49 | |
| 1986-06-30 | 12.23 | | 1986-06-03 | 13.76 | |
| 1986-04-29 | 13.67 | | 1986-04-09 | 13.55 | |
| 1986-03-11 | 13.15 | | 1986-02-19 | 12.94 | |
| 1986-01-15 | 13.35 | | 1985-12-17 | 13.08 | |
| 1985-11-19 | 14.22 | | 1985-10-22 | 14.82 | |
| 1985-09-16 | 14.73 | | 1985-08-12 | 14.29 | |
| 1985-07-15 | 13.72 | | 1985-06-17 | 13.11 | |
| 1985-05-14 | 12.05 | | 1985-04-08 | 11.89 | |
| 1985-03-05 | 12.77 | | 1985-02-11 | 12.79 | |
| 1985-01-15 | 13.32 | | 1984-12-06 | 13.41 | |
| 1984-11-16 | 13.28 | | 1984-10-26 | 12.08 | |
| 1984-09-11 | 14.73 | | 1984-08-06 | 14.33 | |
| 1984-07-16 | 14.01 | | 1984-06-12 | 13.18 | |
| 1984-05-14 | 12.41 | | 1984-04-16 | 12.32 | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| 1984-03-06 | 12.27 | | 1984-02-07 | 13.62 | |
| 1984-01-04 | 13.75 | | 1983-12-06 | 14.55 | |
| 1983-11-01 | 15.10 | | 1983-10-04 | 14.84 | |
| 1983-09-06 | 14.57 | | 1983-08-02 | 13.77 | |
| 1983-07-05 | 13.05 | | 1983-06-01 | 12.54 | |
| 1983-05-03 | 13.33 | | 1983-04-07 | 12.83 | |
| 1983-02-01 | 14.42 | | 1983-01-03 | 14.69 | |
| 1982-12-07 | 15.64 | | 1982-11-02 | 16.46 | |
| 1982-10-04 | 16.68 | | 1982-08-30 | 16.49 | |
| 1982-08-03 | 16.07 | | 1982-06-29 | 15.59 | |
| 1982-06-01 | 15.08 | | 1982-05-03 | 14.75 | |
| 1982-04-05 | 14.99 | | 1982-03-02 | 15.21 | |
| 1982-02-01 | 15.53 | | 1982-01-07 | 15.81 | |
| 1981-12-09 | 15.85 | | 1981-11-09 | 15.80 | |
| 1981-10-13 | 16.23 | | 1981-08-31 | 16.20 | |
| 1981-08-03 | 15.79 | | 1981-07-07 | 15.18 | |
| 1981-06-02 | 15.65 | | 1981-05-05 | 15.70 | |
| 1981-03-30 | 15.82 | | 1981-03-03 | 15.60 | |
| 1981-02-04 | 15.88 | | 1981-01-07 | 15.78 | |
| 1980-12-04 | 15.67 | | 1980-11-10 | 15.83 | |
| 1980-10-07 | 15.52 | | 1980-09-08 | 15.08 | |
| 1980-08-06 | 14.13 | | 1980-07-01 | 12.92 | |
| 1980-06-04 | 11.91 | | 1980-05-05 | 11.51 | |
| 1980-03-31 | 11.85 | | 1980-03-04 | 12.31 | |
| 1980-02-04 | 12.69 | | 1980-01-07 | 13.14 | |
| 1979-12-05 | 13.27 | | 1979-11-05 | 13.84 | |
| 1979-09-28 | 13.50 | | 1979-08-28 | 12.79 | |
| 1979-08-01 | 11.73 | | 1979-07-02 | 12.23 | |
| 1979-06-06 | 10.80 | | 1979-05-03 | 11.83 | |
| 1979-04-05 | 12.52 | | 1979-03-16 | 13.18 | |
| 1979-02-13 | 14.10 | | 1979-01-10 | 15.60 | |
| 1978-12-13 | 16.10 | | 1978-10-31 | 16.63 | |
| 1978-08-15 | 16.40 | | 1978-07-26 | 15.80 | |
| 1978-06-16 | 15.80 | | 1978-05-12 | 15.30 | |
| 1978-04-12 | 15.40 | | 1978-03-15 | 15.50 | |
| 1978-02-16 | 15.30 | | 1978-01-12 | 15.80 | |
| 1977-12-18 | 15.70 | | 1977-11-09 | 16.70 | |
| 1977-10-13 | 15.50 | | 1977-08-09 | 14.90 | |
| 1977-07-12 | 14.50 | | 1977-05-13 | 13.00 | |
| 1977-04-06 | 12.60 | | 1977-03-10 | 13.00 | |
| 1977-02-06 | 13.50 | | 1977-01-13 | 14.20 | |
| 1976-12-02 | 14.30 | | 1976-11-09 | 14.20 | |
| 1976-10-07 | 13.90 | | 1976-09-21 | 13.78 | |
| 1976-09-16 | 14.30 | | 1976-08-13 | 13.30 | |
| 1976-07-26 | 13.00 | | 1976-06-15 | 13.10 | |
| 1976-05-11 | 12.60 | | 1976-04-06 | 11.80 | |
| 1976-03-30 | 11.60 | | 1976-02-12 | 12.90 | |
| 1976-01-07 | 12.60 | | 1975-12-03 | 12.50 | |
| 1975-11-05 | 12.40 | | 1975-10-06 | 12.20 | |
| 1975-09-08 | 11.80 | | 1975-08-04 | 10.60 | |
| 1975-07-09 | 10.00 | | 1975-06-03 | 8.70 | |
| 1975-06-02 | 8.70 | | 1975-05-23 | 8.20 | |
| 1975-04-03 | 8.90 | | 1975-04-02 | 8.90 | |
| 1975-03-12 | 9.30 | | 1975-02-12 | 9.20 | |
| 1975-02-11 | 9.20 | | 1975-01-15 | 9.70 | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| 1974-12-04 | 10.70 | | 1974-12-03 | 10.70 | |
| 1974-11-05 | 11.30 | | 1974-10-02 | 11.60 | |
| 1974-09-04 | 12.50 | | 1974-08-06 | 12.40 | |
| 1974-07-02 | 11.90 | | 1974-06-05 | 10.70 | |
| 1974-05-08 | 10.70 | | 1974-04-03 | 10.10 | |
| 1974-03-06 | 9.70 | | 1974-02-05 | 9.60 | |
| 1974-01-25 | 11.20 | | 1973-12-06 | 12.30 | |
| 1973-11-14 | 12.50 | | 1973-10-03 | 13.10 | |
| 1973-09-18 | 13.10 | | 1973-08-02 | 12.70 | |
| 1973-07-10 | 12.70 | | 1973-06-06 | 13.00 | |
| 1973-05-02 | 12.50 | | 1973-04-25 | 12.60 | |
| 1973-04-03 | 13.10 | | 1973-03-08 | 13.80 | |
| 1973-02-06 | 14.20 | | 1973-01-10 | 14.70 | |
| 1972-12-13 | 15.20 | | 1972-10-31 | 16.10 | |
| 1972-10-03 | 16.40 | | 1972-09-06 | 16.30 | |
| 1972-08-01 | 15.90 | | 1972-07-11 | 15.70 | |
| 1972-06-13 | 15.30 | | 1972-05-02 | 14.50 | |
| 1972-04-04 | 14.30 | | 1972-03-01 | 14.40 | |
| 1972-02-08 | 14.50 | | 1972-01-13 | 14.60 | |
| 1971-12-27 | 15.20 | | 1971-12-14 | 15.30 | |
| 1971-11-02 | 15.90 | | 1971-10-05 | 15.80 | |
| 1971-09-08 | 15.60 | | 1971-08-03 | 15.60 | |
| 1971-06-30 | 15.20 | | 1971-06-02 | 14.80 | |
| 1971-05-04 | 14.40 | | 1971-04-13 | 14.00 | |
| 1971-03-01 | 14.10 | | 1971-02-01 | 14.40 | |
| 1971-01-05 | 14.20 | | 1970-12-08 | 14.40 | |
| 1970-11-02 | 14.60 | | 1970-09-29 | 14.90 | |
| 1970-09-01 | 14.60 | | 1970-08-03 | 14.30 | |
| 1970-07-09 | 14.10 | | 1970-06-01 | 13.40 | |
| 1970-05-04 | 13.20 | | 1970-04-06 | 13.00 | |
| 1970-03-02 | 13.50 | | 1970-02-02 | 13.80 | |
| 1970-01-05 | 13.80 | | 1969-12-01 | 14.10 | |
| 1969-11-03 | 14.70 | | 1969-10-06 | 14.50 | |
| 1969-09-02 | 14.00 | | 1969-08-04 | 13.20 | |
| 1969-07-10 | 12.50 | | 1969-06-09 | 11.30 | |
| 1969-05-01 | 10.60 | | 1969-04-03 | 11.10 | |
| 1969-03-06 | 11.80 | | 1969-02-03 | 12.40 | |
| 1969-01-06 | 12.40 | | 1968-12-09 | 13.10 | |
| 1968-11-04 | 13.60 | | 1968-10-07 | 13.30 | |
| 1968-09-09 | 13.40 | | 1968-07-01 | 13.00 | |
| 1968-06-04 | 12.80 | | 1968-05-06 | 13.20 | |
| 1968-04-04 | 13.80 | | 1967-06-05 | 15.30 | |
| 1967-05-01 | 16.10 | | 1967-04-03 | 15.60 | |
| 1967-03-06 | 15.50 | | 1967-02-07 | 16.30 | |
| 1967-01-09 | 16.40 | | 1966-12-05 | 16.00 | |
| 1966-11-07 | 16.00 | | 1966-10-04 | 15.80 | |
| 1966-09-06 | 15.70 | | 1966-08-01 | 15.40 | |
| 1966-07-05 | 15.20 | | 1966-06-06 | 14.40 | |
| 1966-05-31 | 14.40 | | 1966-05-23 | 14.30 | |
| 1966-05-16 | 14.90 | | 1966-05-13 | 14.30 | |
| 1966-05-12 | 14.40 | | 1966-05-11 | 14.40 | |
| 1966-05-10 | 14.40 | | 1966-05-09 | 14.40 | |
| 1966-05-06 | 14.40 | | 1966-05-05 | 14.40 | |
| 1966-05-04 | 14.50 | | 1966-05-03 | 14.30 | |
| 1966-04-04 | 15.40 | | 1966-03-08 | 15.30 | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| 1966-02-07 | 15.90 | | 1966-01-03 | 16.30 | |
| 1965-12-06 | 16.20 | | 1965-11-01 | 16.20 | |
| 1965-10-04 | 16.10 | | 1965-09-07 | 15.90 | |
| 1965-08-02 | 15.30 | | 1965-07-06 | 14.80 | |
| 1965-06-08 | 14.30 | | 1965-05-03 | 14.30 | |
| 1965-04-19 | 14.20 | | 1965-04-12 | 14.20 | |
| 1965-04-05 | 14.30 | | 1965-03-29 | 14.70 | |
| 1965-03-22 | 14.60 | | 1965-03-15 | 14.60 | |
| 1965-03-08 | 14.60 | | 1965-03-01 | 14.70 | |
| 1965-02-23 | 14.80 | | 1965-02-15 | 14.80 | |
| 1965-02-01 | 15.50 | | 1965-01-04 | 15.70 | |
| 1964-12-07 | 15.90 | | 1964-09-09 | 15.60 | |
| 1964-08-03 | 15.30 | | 1964-07-06 | 14.90 | |
| 1964-06-01 | 14.80 | | 1964-05-03 | 13.80 | |
| 1964-04-06 | 14.20 | | 1964-03-03 | 14.50 | |
| 1964-02-03 | 14.70 | | 1964-01-06 | 14.50 | |
| 1963-12-02 | 14.50 | | 1963-10-07 | 14.30 | |
| 1963-09-03 | 13.90 | | 1963-08-02 | 13.20 | |
| 1963-07-02 | 12.40 | | 1963-06-04 | 11.54 | |
| 1963-05-03 | 10.27 | | 1963-04-08 | 9.27 | |
| 1960-06-02 | 9.07 | | 1960-05-04 | 8.00 | |
| 1960-03-09 | 6.40 | | 1960-02-03 | 7.11 | |
| 1959-12-31 | 8.20 | | 1959-12-01 | 9.34 | |
| 1959-11-03 | 9.69 | | 1959-09-29 | 9.70 | |
| 1959-09-11 | 9.42 | | 1959-07-29 | 8.36 | |
| 1959-04-27 | 5.97 | | 1958-10-21 | 6.74 | |
| 1958-08-06 | 7.32 | | 1958-06-28 | 4.04 | |
| 1958-06-13 | 7.07 | | 1958-05-02 | 1.85 | |
| 1958-04-02 | 6.21 | | 1958-02-28 | 6.44 | |
| 1958-02-01 | 6.14 | | 1957-12-30 | 6.50 | |
| 1957-12-04 | 7.00 | | 1957-10-31 | 9.57 | |
| 1957-08-06 | 10.64 | | 1957-06-25 | 9.25 | |
| 1957-05-29 | 9.92 | | 1957-04-29 | 10.07 | |
| 1957-03-25 | 11.58 | | 1957-02-26 | 11.76 | |
| 1957-01-15 | 12.89 | | 1956-12-21 | 12.85 | |
| 1956-11-19 | 12.95 | | | | |

**H46
SE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000018043

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 392235 | State code: | 22 |
| Water wel2: | 017-9266Z | Local well: | 9266Z |
| Parish num: | 017 | Latitude: | 322217 |
| Identifica: | 322217093393001 | Sequence n: | 01 |
| Longitude: | 933930 | Well depth: | 80 |
| Owners nam: | PATTERSON DRLG | Well subus: | PA |
| Well use: | S | Geologic u: | 112RRVA |
| Date compl: | 01/01 | Revised lo: | Not Reported |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------|-------------|--------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | KEITHVILLE |
| Drillers 2: | 018 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 80 | Elevation: | 160 |
| Quad num: | 052C | Water leve: | 15.00 |
| Date measu: | 01/08/01 | Source of : | D |
| Date of ad: | 2001-07-27 | Date regis: | 02/01 |
| Date plugg: | 05/01 | Plugged b1: | KEITHVILLE |
| Plugged b2: | 018 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 60-80 | Serial num: | 225353 |
| Owners num: | WEBB 13 #1 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.65833333 | | |
| Y latdd: | 32.37138889 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | RED RIVER ALLUVIAL AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: plugged and abandoned rig supply
 Well statu: Plugged and Abandoned Site id: LATD40000018043

**H47
SE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000020472

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 393463 | | |
| Water wel2: | 017-10493Z | State code: | 22 |
| Parish num: | 017 | Local well: | 10493Z |
| Identifica: | 322215093393001 | Latitude: | 322215 |
| Longitude: | 933930 | Sequence n: | 01 |
| Owners nam: | J W OPERATING | Well depth: | 60 |
| Well use: | S | Well subus: | PA |
| Date compl: | 01/06 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | KEITHVILLE |
| Drillers 2: | 018 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 60 | Elevation: | 159 |
| Quad num: | 052C | Water leve: | 12.00 |
| Date measu: | 01/18/06 | Source of : | D |
| Date of ad: | 2006-05-09 | Date regis: | 03/06 |
| Date plugg: | 03/06 | Plugged b1: | KEITHVILLE |
| Plugged b2: | 018 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 40-60 | Serial num: | 232585 |
| Owners num: | WEBB 13-3 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.65833333 | Pa signat2: | 0 |
| Y latdd: | 32.37083333 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | plugged and abandoned rig supply | Site id: | LATD40000020472 |
| Well statu: | Plugged and Abandoned | | |

**48
SW
1/2 - 1 Mile
Lower**

LA WELLS LATD40000144914

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 390817 | State code: | 22 |
| Water wel2: | 017-7848Z | Local well: | 7848Z |
| Parish num: | 017 | Latitude: | 322205 |
| Identifica: | 322205093404101 | Sequence n: | 01 |
| Longitude: | 934041 | Well depth: | 240 |
| Owners nam: | SMITH, SCOTT | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 124WLCX |
| Date compl: | 06/94 | | |
| Available : | Driller Log, Water Level | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | HARDIN |
| Avail info: | W | Section: | 038 |
| Drillers 2: | 062 | Range: | 13W |
| Township: | 16N | Elevation: | 185 |
| Hole depth: | 240 | Water leve: | 65.00 |
| Quad num: | 052C | Source of : | D |
| Date measu: | 06/15/94 | Date regis: | 07/94 |
| Date of ad: | 1995-03-13 | Plugged b1: | Not Reported |
| Date plugg: | Not Reported | Yield: | Not Reported |
| Plugged b2: | Not Reported | Casing di1: | 4 |
| Drawdown: | Not Reported | Screen di1: | 4 |
| Casing mat: | PLASTIC | Serial num: | Not Reported |
| Screen int: | 220-240 | Latitude d: | 0 |
| Owners num: | Not Reported | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67805556 | | |
| Y latdd: | 32.36805556 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | WILCOX AQUIFER | | |
| Use descri: | domestic | | |
| Well statu: | Active | Site id: | LATD40000144914 |

**49
SSE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000126229

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 392177 | State code: | 22 |
| Water wel2: | 017-9208Z | Local well: | 9208Z |
| Parish num: | 017 | Latitude: | 322157 |
| Identifica: | 322157093395901 | Sequence n: | 01 |
| Longitude: | 933959 | Well depth: | 80 |
| Owners nam: | MARTEX DRLG CO | Well subus: | PA |
| Well use: | S | Geologic u: | 124WLCX |
| Date compl: | 04/01 | | |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|---------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | SCRUGGS, INC. |
| Drillers 2: | 208 | Section: | 023 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 80 | Elevation: | 150 |
| Quad num: | 052C | Water leve: | 7.00 |
| Date measu: | 04/10/01 | Source of : | D |
| Date of ad: | 2002-04-03 | Date regis: | 06/01 |
| Date plugg: | 08/01 | Plugged b1: | SCRUGGS, INC. |
| Plugged b2: | 208 | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 60-80 | Serial num: | 225404 |
| Owners num: | EAGEN #1-2 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.66638889 | | |
| Y latdd: | 32.36583333 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | WILCOX AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri: plugged and abandoned rig supply
 Well statu: Plugged and Abandoned Site id: LATD40000126229

**50
SSE
1/2 - 1 Mile
Higher**

LA WELLS LATD40000020553

| | | | |
|-------------|--------------------------|-------------|---------------|
| Water wel1: | 393363 | | |
| Water wel2: | 017-10393Z | State code: | 22 |
| Parish num: | 017 | Local well: | 10393Z |
| Identifica: | 322202093394101 | Latitude: | 322202 |
| Longitude: | 933941 | Sequence n: | 01 |
| Owners nam: | MARTEX DRLG CO | Well depth: | 80 |
| Well use: | S | Well subus: | Not Reported |
| Date compl: | 08/05 | Geologic u: | 00000000 |
| Available : | Driller Log, Water Level | | |
| Revised Ia: | Not Reported | Revised lo: | Not Reported |
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | SCRUGGS, INC. |
| Drillers 2: | 208 | Section: | 003 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 80 | Elevation: | 150 |
| Quad num: | 052C | Water leve: | 6.00 |
| Date measu: | 08/31/05 | Source of : | D |
| Date of ad: | 2006-01-17 | Date regis: | 10/05 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 60-80 | Serial num: | 231781 |
| Owners num: | PLACE#3 | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------------|-------------|-----------------|
| Inspector : | Not Reported | Pump setti: | Not Reported |
| Inspection: | 0 | Pump plan1: | 0 |
| Pump motor: | Not Reported | Pump plan3: | Not Reported |
| Pump plan2: | 0 | Yield meas: | Not Reported |
| Pump rate: | Not Reported | Pump hour2: | 0 |
| Pump hour1: | 0 | Pump deter: | Not Reported |
| Pump stati: | Not Reported | Pump test : | 0 |
| Pump groun: | Not Reported | | |
| X longdd: | -93.66138889 | Pa signat2: | 0 |
| Y latdd: | 32.36722222 | | |
| Pump down : | Not Reported | Casing len: | Not Reported |
| Pa remarks: | Not Reported | Casing di3: | Not Reported |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Parish nam: | CADDO |
| Casing di2: | Not Reported | | |
| Contact: | Not Reported | Site id: | LATD40000020553 |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | | |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | oil/gas well rig supply | | |
| Well statu: | Active | | |

**51
WSW
1/2 - 1 Mile
Higher**

LA WELLS LATD40000017872

| | | | |
|-------------|-----------------|-------------|---------------|
| Water wel1: | 393848 | State code: | 22 |
| Water wel2: | 017-10878Z | Local well: | 10878Z |
| Parish num: | 017 | Latitude: | 322215 |
| Identifica: | 322215093405901 | Sequence n: | 01 |
| Longitude: | 934059 | Well depth: | 300 |
| Owners nam: | CAMTERRA RESOUR | Well subus: | PA |
| Well use: | S | Geologic u: | 00000000 |
| Date compl: | 08/07 | | |
| Available : | Driller Log | Revised lo: | Not Reported |
| Revised la: | Not Reported | Drill log: | D |
| Elec log: | Not Reported | Chem analy: | Not Reported |
| Mechanic a: | Not Reported | Pump test: | Not Reported |
| Bio analys: | Not Reported | Drillers 1: | SCRUGGS, INC. |
| Avail info: | Not Reported | Section: | 015 |
| Drillers 2: | 208 | Range: | 13W |
| Township: | 16N | Elevation: | 150 |
| Hole depth: | 300 | Water leve: | 0.00 |
| Quad num: | Not Reported | Source of : | Not Reported |
| Date measu: | Not Reported | Date regis: | 09/07 |
| Date of ad: | 2007-09-11 | Plugged b1: | SCRUGGS, INC. |
| Date plugg: | 08/07 | Yield: | Not Reported |
| Plugged b2: | 208 | Casing di1: | Not Reported |
| Drawdown: | Not Reported | Screen di1: | Not Reported |
| Casing mat: | Not Reported | Serial num: | Not Reported |
| Screen int: | Not Reported | Latitude d: | 0 |
| Owners num: | CES | | |
| Latitude m: | 0 | Longitude2: | 0 |
| Latitude s: | 0 | | |
| Longitude1: | 0 | | |
| Longitude3: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------------------------|-------------|-----------------|
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.68305556 | | |
| Y latdd: | 32.37083333 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | | |
| Pa signat1: | Not Reported | Pa signat2: | 0 |
| Pa details: | Not Reported | | |
| Casing di2: | Not Reported | Casing len: | Not Reported |
| Contact: | Not Reported | Casing di3: | Not Reported |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADD0 |
| Aquifer na: | [TO BE DETERMINED] | | |
| Use descri: | plugged and abandoned rig supply | | |
| Well statu: | Plugged and Abandoned | Site id: | LATD40000017872 |

**52
SW
1/2 - 1 Mile
Lower**

LA WELLS LATD40000143316

| | | | |
|-------------|--------------------------|-------------|--------------|
| Water wel1: | 391263 | State code: | 22 |
| Water wel2: | 017-8294Z | Local well: | 8294Z |
| Parish num: | 017 | Latitude: | 322159 |
| Identifica: | 322159093404601 | Sequence n: | 01 |
| Longitude: | 934046 | Well depth: | 215 |
| Owners nam: | HARRIS, R B | Well subus: | Not Reported |
| Well use: | H | Geologic u: | 124WLCX |
| Date compl: | 06/96 | | |
| Available : | Driller Log, Water Level | | |
| Revised la: | Not Reported | Revised lo: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|--------------|
| Elec log: | Not Reported | Drill log: | D |
| Mechanic a: | Not Reported | Chem analy: | Not Reported |
| Bio analys: | Not Reported | Pump test: | Not Reported |
| Avail info: | W | Drillers 1: | HARDIN |
| Drillers 2: | 062 | Section: | 016 |
| Township: | 16N | Range: | 13W |
| Hole depth: | 215 | Elevation: | 150 |
| Quad num: | 052C | Water leve: | 100.00 |
| Date measu: | 06/11/96 | Source of : | D |
| Date of ad: | 1997-07-24 | Date regis: | 07/96 |
| Date plugg: | Not Reported | Plugged b1: | Not Reported |
| Plugged b2: | Not Reported | Yield: | Not Reported |
| Drawdown: | Not Reported | Casing di1: | 4 |
| Casing mat: | PLASTIC | Screen di1: | 4 |
| Screen int: | 175-215 | Serial num: | Not Reported |
| Owners num: | Not Reported | Latitude d: | 0 |
| Latitude m: | 0 | | |
| Latitude s: | 0 | | |
| Longitude1: | 0 | Longitude2: | 0 |
| Longitude3: | Not Reported | | |
| Create dat: | 2010 720 | Create use: | SONRIS_DBA |
| Update dat: | 2012 130 | Update use: | SONRIS_DBA |
| Parish cod: | 09 | Industria1: | Not Reported |
| Owner stat: | Not Reported | Replacemen: | Not Reported |
| Industria2: | Not Reported | Public su1: | Not Reported |
| Public su2: | Not Reported | Pumpdown c: | Not Reported |
| Extension1: | Not Reported | Extension2: | Not Reported |
| Extension3: | Not Reported | Screen typ: | Not Reported |
| Gravel pac: | N | Ground eve: | Not Reported |
| Diameter o: | Not Reported | Site city: | Not Reported |
| Site zip: | Not Reported | Site addre: | Not Reported |
| Remarks: | Not Reported | | |
| Authorize1: | Not Reported | Authorize2: | 0 |
| Heat pump1: | 0 | | |
| Heat pump2: | Not Reported | Location l: | Not Reported |
| Location m: | 0 | | |
| Location c: | Not Reported | Cemented f: | Not Reported |
| Slot lengt: | Not Reported | Slot size: | Not Reported |
| Inspector: | Not Reported | | |
| Inspector : | Not Reported | | |
| Inspection: | 0 | Pump setti: | Not Reported |
| Pump motor: | Not Reported | Pump plan1: | 0 |
| Pump plan2: | 0 | Pump plan3: | Not Reported |
| Pump rate: | Not Reported | Yield meas: | Not Reported |
| Pump hour1: | 0 | Pump hour2: | 0 |
| Pump stati: | Not Reported | Pump deter: | Not Reported |
| Pump groun: | Not Reported | Pump test : | 0 |
| X longdd: | -93.67944444 | | |
| Y latdd: | 32.36638889 | | |
| Pump down : | Not Reported | | |
| Pa remarks: | Not Reported | Pa signat2: | 0 |
| Pa signat1: | Not Reported | | |
| Pa details: | Not Reported | Casing len: | Not Reported |
| Casing di2: | Not Reported | Casing di3: | Not Reported |
| Contact: | Not Reported | | |
| Screen di2: | Not Reported | | |
| Wwo seq nu: | 0 | | |
| Screen di3: | Not Reported | Parish nam: | CADDO |
| Aquifer na: | WILCOX AQUIFER | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Use descri:

domestic

Well statu:

Active

Site id:

LATD40000143316

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1

SE

1/8 - 1/4 Mile

OIL_GAS

LAOG90000237563

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 237563 | Well serial num: | 236572 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 29-OCT-2007 | Lambert x: | 1639395 |
| Lambert y: | 623948 | Zone : | N |
| Create date: | 29-OCT-2007 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 158.6 | Longsec: | 4.9 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 35.9 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437142.10836591 | G utmy: | 3582397.27155206 |
| Glaty: | 32.3767874892351 | Glongx: | -93.6682179300516 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6682179300516 | | |
| Calcglaty: | 32.3767874892351 | | |
| Site id: | LAOG90000237563 | | |

2

ESE

1/8 - 1/4 Mile

OIL_GAS

LAOG90000235411

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 235411 | Well serial num: | 235415 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 25-APR-2007 | Lambert x: | 1639816 |
| Lambert y: | 623906 | Zone : | N |
| Create date: | 25-APR-2007 | Create username: | DEBRAP |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 151.1 | Longsec: | 0 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 35.5 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437270.447337439 | G utmy: | 3582385.05493102 |
| Glaty: | 32.376684509828 | Glongx: | -93.6668528783328 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6668528783328 | | |
| Calcglaty: | 32.376684509828 | | |
| Site id: | LAOG90000235411 | | |

A3

WSW

1/8 - 1/4 Mile

OIL_GAS

LAOG90000235821

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 235821 | Well serial num: | 237358 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 27-MAR-2008 | Lambert x: | 1637812 |
| Lambert y: | 624123 | Zone : | N |
| Create date: | 28-MAR-2008 | Create username: | DEBRAP |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 159.2 | Longsec: | 23.4 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 37.4 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 436659.517998396 | G utmy: | 3582448.41081683 |
| Glaty: | 32.3772215060111 | Glongx: | -93.6733512801738 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6733512801738 | | |
| Calcglaty: | 32.3772215060111 | | |
| Site id: | LAOG90000235821 | | |

A4
WSW
1/8 - 1/4 Mile

OIL_GAS LAOG90000236940

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 236940 | Well serial num: | 238806 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 26-SEP-2008 | Lambert x: | 1637812 |
| Lambert y: | 624123 | Zone : | N |
| Create date: | 26-SEP-2008 | Create username: | DEBRAP |
| Update date: | 01-DEC-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 159.2 | Longsec: | 23.4 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 37.4 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 436659.517998396 | G utmy: | 3582448.41081683 |
| Glaty: | 32.3772215060111 | Glongx: | -93.6733512801738 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6733512801738 | | |
| Calcglaty: | 32.3772215060111 | | |
| Site id: | LAOG90000236940 | | |

5
East
1/8 - 1/4 Mile

OIL_GAS LAOG90000231245

| | | | |
|-------------------|-------------|-------------------|----------|
| Objectid: | 231245 | Well serial num: | 195467 |
| Wlc line id: | 2 | Coordinate syste: | 01 |
| Received date: | 28-SEP-2006 | Lambert x: | 1640139 |
| Lambert y: | 624345 | Zone : | N |
| Create date: | 28-SEP-2006 | Create username: | DANIELA |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 05 | Coordinate prior: | 1 |
| Ground elevation: | 156 | Longsec: | 1.556 |
| Longmin: | 18 | Longdeg: | 93 |
| Latsec: | 59.819 | Latmin: | 16 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|------------|------------------|-----------|------------------|
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 9 |
| G utmx: | 437368.261227101 | G utmy: | 3582519.26804237 |
| Glaty: | 32.3779006961116 | Glongx: | -93.66582199608 |
| Column28: | Not Reported | | |
| Calclongx: | -93.66582199608 | | |
| Calcglaty: | 32.3779006961116 | | |
| Site id: | LAOG90000231245 | | |

6
SSW
1/8 - 1/4 Mile

OIL_GAS LAOG90000231287

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 231287 | Well serial num: | 234370 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 20-OCT-2006 | Lambert x: | 1638282 |
| Lambert y: | 623320 | Zone : | N |
| Create date: | 20-OCT-2006 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 156.6 | Longsec: | 17.8 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 29.5 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 436803.837688053 | G utmy: | 3582204.37791261 |
| Glaty: | 32.37502835376 | Glongx: | -93.6718008678141 |
| Column28: | Not Reported | | |
| Calclongx: | -93.6718008678141 | | |
| Calcglaty: | 32.37502835376 | | |
| Site id: | LAOG90000231287 | | |

B7
SSE
1/4 - 1/2 Mile

OIL_GAS LAOG90000181327

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 181327 | Well serial num: | 973370 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 29-MAR-2006 | Lambert x: | 1639738 |
| Lambert y: | 623058 | Zone : | N |
| Create date: | 29-MAR-2006 | Create username: | GLYNISD |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 164 | Longsec: | .8 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 27.1 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437247.850759912 | G utmy: | 3582126.55392967 |
| Glaty: | 32.3743513887306 | Glongx: | -93.6670759480301 |
| Column28: | Not Reported | | |
| Calclongx: | -93.6670759480301 | | |
| Calcglaty: | 32.3743513887306 | | |
| Site id: | LAOG90000181327 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

**B8
SSE**

OIL_GAS LAOG90000224909

1/4 - 1/2 Mile

| | | | |
|-------------------|------------------|-------------------|------------------|
| Objectid: | 224909 | Well serial num: | 230917 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 22-FEB-2005 | Lambert x: | 1639700 |
| Lambert y: | 622982 | Zone : | N |
| Create date: | 22-FEB-2005 | Create username: | PAULAC |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 163.8 | Longsec: | 1.3 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 26.3 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437236.376932638 | G utmy: | 3582103.34363871 |
| Glaty: | 32.3741413705752 | G longx: | -93.667196373923 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.667196373923 | | |
| Calcglaty: | 32.3741413705752 | | |
| Site id: | LAOG90000224909 | | |

9

WNW

OIL_GAS LAOG90000238860

1/4 - 1/2 Mile

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 238860 | Well serial num: | 238921 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 14-OCT-2008 | Lambert x: | 1637143 |
| Lambert y: | 624932 | Zone : | N |
| Create date: | 14-OCT-2008 | Create username: | DEBRAP |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 156.2 | Longsec: | 31.3 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 45.4 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 436454.553467993 | G utmy: | 3582693.99733981 |
| Glaty: | 32.3794252001318 | G longx: | -93.6755465413405 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6755465413405 | | |
| Calcglaty: | 32.3794252001318 | | |
| Site id: | LAOG90000238860 | | |

**C10
SSW**

OIL_GAS LAOG90000232110

1/4 - 1/2 Mile

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 232110 | Well serial num: | 233567 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 09-JUN-2006 | Lambert x: | 1638294 |
| Lambert y: | 622588 | Zone : | N |
| Create date: | 09-JUN-2006 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 153.5 | Longsec: | 17.6 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 22.3 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 436808.504452327 | G utmy: | 3581981.34732743 |
| Glaty: | 32.3730167347643 | Glongx: | -93.6717363780861 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6717363780861 | | |
| Calcglaty: | 32.3730167347643 | | |
| Site id: | LAOG90000232110 | | |

**11
ESE**

1/4 - 1/2 Mile

OIL_GAS

LAOG90000164733

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 164733 | Well serial num: | 972936 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 20-OCT-1999 | Lambert x: | 1640848 |
| Lambert y: | 623945 | Zone : | N |
| Create date: | 20-OCT-2099 | Create username: | GLYNISD |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 157 | Longsec: | 48 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 36 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437584.849432546 | G utmy: | 3582398.36309546 |
| Glaty: | 32.3768221912728 | Glongx: | -93.6635116654658 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6635116654658 | | |
| Calcglaty: | 32.3768221912728 | | |
| Site id: | LAOG90000164733 | | |

**C12
SSW**

1/4 - 1/2 Mile

OIL_GAS

LAOG90000121057

| | | | |
|-------------------|--------------|-------------------|----------|
| Objectid: | 121057 | Well serial num: | 166024 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 01-NOV-1979 | Lambert x: | 1638190 |
| Lambert y: | 622409 | Zone : | N |
| Create date: | 02-MAY-1999 | Create username: | CONVALL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 03 | Coordinate prior: | 1 |
| Ground elevation: | Not Reported | Longsec: | 18.8 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 20.528 | Latmin: | 22 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------|-----------|-------------------|
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 17 |
| G utmx: | 436777.062201879 | G utmy: | 3581926.66077041 |
| Glaty: | 32.3725216451776 | Glongx: | -93.6720669448746 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6720669448746 | | |
| Calcglaty: | 32.3725216451776 | | |
| Site id: | LAOG90000121057 | | |

**13
NW
1/4 - 1/2 Mile**

OIL_GAS LAOG90000244298

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 244298 | Well serial num: | 240179 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 01-SEP-2009 | Lambert x: | 1637417 |
| Lambert y: | 626358 | Zone : | N |
| Create date: | 01-SEP-2009 | Create username: | PAULAC |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 156 | Longsec: | Not Reported |
| Longmin: | Not Reported | Longdeg: | Not Reported |
| Latsec: | Not Reported | Latmin: | Not Reported |
| Latdeg: | Not Reported | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 436536.075486103 | G utmy: | 3583128.89064445 |
| Glaty: | 32.3833528574011 | Glongx: | -93.6747090968001 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6747090968001 | | |
| Calcglaty: | 32.3833528574011 | | |
| Site id: | LAOG90000244298 | | |

**14
SSE
1/4 - 1/2 Mile**

OIL_GAS LAOG90000222087

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 222087 | Well serial num: | 228917 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 04-DEC-2003 | Lambert x: | Not Reported |
| Lambert y: | Not Reported | Zone : | N |
| Create date: | 04-DEC-2003 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 154 | Longsec: | 59 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 18.3 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 15 |
| G utmx: | 437294.083360755 | G utmy: | 3581855.12681302 |
| Glaty: | 32.3719055344272 | Glongx: | -93.6665665351104 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6665665351104 | | |
| Calcglaty: | 32.3719055344272 | | |
| Site id: | LAOG90000222087 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

15
SSW
1/2 - 1 Mile

OIL_GAS LAOG90000229393

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 229393 | Well serial num: | 232527 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 09-DEC-2005 | Lambert x: | 1638186 |
| Lambert y: | 621596 | Zone : | N |
| Create date: | 09-DEC-2005 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 153.6 | Longsec: | 18.7 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 12.5 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 436776.965525902 | G utmy: | 3581678.92642946 |
| Glaty: | 32.3702869125254 | Glongx: | -93.6720514343215 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6720514343215 | | |
| Calcglaty: | 32.3702869125254 | | |
| Site id: | LAOG90000229393 | | |

D16
ESE
1/2 - 1 Mile

OIL_GAS LAOG90000231974

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 231974 | Well serial num: | 232992 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 06-MAR-2006 | Lambert x: | 1641946 |
| Lambert y: | 623554 | Zone : | N |
| Create date: | 07-MAR-2006 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 160 | Longsec: | 35.2 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 32.2 | Latmin: | 23 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437919.955583402 | G utmy: | 3582280.73779157 |
| Glaty: | 32.3757798274631 | Glongx: | -93.6599417724076 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6599417724076 | | |
| Calcglaty: | 32.3757798274631 | | |
| Site id: | LAOG90000231974 | | |

D17
ESE
1/2 - 1 Mile

OIL_GAS LAOG90000136416

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 136416 | Well serial num: | 191027 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 01-MAR-1984 | Lambert x: | 1642000 |
| Lambert y: | 623720 | Zone : | N |
| Create date: | 02-MAY-1999 | Create username: | CONVALL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 03 | Coordinate prior: | 1 |
| Ground elevation: | Not Reported | Longsec: | 34.542 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 33.896 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 17 |
| G utmx: | 437936.180497888 | G utmy: | 3582331.39403451 |
| Glaty: | 32.3762376833959 | Longx: | -93.6597726236172 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6597726236172 | | |
| Calcglaty: | 32.3762376833959 | | |
| Site id: | LAOG90000136416 | | |

**18
SSE**

1/2 - 1 Mile

OIL_GAS

LAOG90000228911

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 228911 | Well serial num: | 231591 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 27-JUN-2005 | Lambert x: | 1639834 |
| Lambert y: | 621150 | Zone : | N |
| Create date: | 27-JUN-2005 | Create username: | PAULAC |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 154 | Longsec: | 59.5 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 8.2 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437279.73628762 | G utmy: | 3581545.30125128 |
| Glaty: | 32.3691098926292 | Longx: | -93.6666985187069 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6666985187069 | | |
| Calcglaty: | 32.3691098926292 | | |
| Site id: | LAOG90000228911 | | |

**19
ESE**

1/2 - 1 Mile

OIL_GAS

LAOG90000228567

| | | | |
|-------------------|-------------|-------------------|----------|
| Objectid: | 228567 | Well serial num: | 231977 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 01-SEP-2005 | Lambert x: | 1642117 |
| Lambert y: | 622920 | Zone : | N |
| Create date: | 01-SEP-2005 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 159.7 | Longsec: | 33.1 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 26 | Latmin: | 22 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|------------------|-----------|------------------|
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437972.935272334 | G utmy: | 3582087.78847392 |
| Glaty: | 32.3740422402866 | Glongx: | -93.659365963373 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.659365963373 | | |
| Calcglaty: | 32.3740422402866 | | |
| Site id: | LAOG90000228567 | | |

E20
East
1/2 - 1 Mile

OIL_GAS LAOG90000236589

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 236589 | Well serial num: | 973591 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 22-JUL-2008 | Lambert x: | 1642430 |
| Lambert y: | 623896 | Zone : | N |
| Create date: | 22-JUL-2008 | Create username: | GLYNISD |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 160 | Longsec: | 29.55 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 35.68 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 438066.960716881 | G utmy: | 3582385.61654684 |
| Glaty: | 32.3767340733767 | Glongx: | -93.6583859834092 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6583859834092 | | |
| Calcglaty: | 32.3767340733767 | | |
| Site id: | LAOG90000236589 | | |

E21
East
1/2 - 1 Mile

OIL_GAS LAOG90000235644

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 235644 | Well serial num: | 235436 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 27-APR-2007 | Lambert x: | 1642464 |
| Lambert y: | 623923 | Zone : | N |
| Create date: | 30-APR-2007 | Create username: | DEBRAP |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 159.6 | Longsec: | 29.2 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 36 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 438077.283383904 | G utmy: | 3582393.89057829 |
| Glaty: | 32.3768092841198 | Glongx: | -93.6582767941812 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6582767941812 | | |
| Calcglaty: | 32.3768092841198 | | |
| Site id: | LAOG90000235644 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

E22
East
1/2 - 1 Mile

OIL_GAS LAOG90000231548

| | | | |
|-------------------|------------------|-------------------|------------------|
| Objectid: | 231548 | Well serial num: | 234210 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 22-SEP-2006 | Lambert x: | 1642529 |
| Lambert y: | 623865 | Zone : | N |
| Create date: | 22-SEP-2006 | Create username: | DEBRAP |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 159.6 | Longsec: | 28.5 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 35.4 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 438097.169274436 | G utmy: | 3582376.30718729 |
| Glaty: | 32.376651773762 | Glongx: | -93.658064257211 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.658064257211 | | |
| Calcglaty: | 32.376651773762 | | |
| Site id: | LAOG90000231548 | | |

23
SE
1/2 - 1 Mile

OIL_GAS LAOG90000238727

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 238727 | Well serial num: | 236479 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 10-OCT-2007 | Lambert x: | 1641539 |
| Lambert y: | 621708 | Zone : | N |
| Create date: | 10-OCT-2007 | Create username: | DEBRAP |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 155 | Longsec: | 38.5 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 13.9 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 437798.489020673 | G utmy: | 3581717.68329179 |
| Glaty: | 32.3706939279206 | Glongx: | -93.6611959645106 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6611959645106 | | |
| Calcglaty: | 32.3706939279206 | | |
| Site id: | LAOG90000238727 | | |

24
WSW
1/2 - 1 Mile

OIL_GAS LAOG90000239095

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 239095 | Well serial num: | 237638 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 08-MAY-2008 | Lambert x: | 1635348 |
| Lambert y: | 622889 | Zone : | N |
| Create date: | 08-MAY-2008 | Create username: | DEBRAP |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 154 | Longsec: | 51.999 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 24.961 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 435910.425260145 | G utmy: | 3582068.99896058 |
| Glaty: | 32.3737561901166 | GLongx: | -93.6812884693384 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6812884693384 | | |
| Calcglaty: | 32.3737561901166 | | |
| Site id: | LAOG90000239095 | | |

25
South
1/2 - 1 Mile

OIL_GAS LAOG90000227721

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 227721 | Well serial num: | 231800 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 28-JUL-2005 | Lambert x: | Not Reported |
| Lambert y: | Not Reported | Zone : | N |
| Create date: | 29-JUL-2005 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 154 | Longsec: | 5.016 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 1.502 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 15 |
| G utmx: | 437133.639371242 | G utmy: | 3581338.87172175 |
| Glaty: | 32.3672395394801 | GLongx: | -93.6682376973224 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6682376973224 | | |
| Calcglaty: | 32.3672395394801 | | |
| Site id: | LAOG90000227721 | | |

26
SSW
1/2 - 1 Mile

OIL_GAS LAOG90000229073

| | | | |
|-------------------|--------------|-------------------|--------------|
| Objectid: | 229073 | Well serial num: | 232437 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 21-NOV-2005 | Lambert x: | Not Reported |
| Lambert y: | Not Reported | Zone : | N |
| Create date: | 22-NOV-2005 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 160 | Longsec: | 20.526 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 1.486 | Latmin: | 22 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------|-----------|-------------------|
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 15 |
| G utmx: | 436728.301703252 | G utmy: | 3581340.91946218 |
| Glaty: | 32.3672351068972 | Glongx: | -93.6725461139256 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6725461139256 | | |
| Calcglaty: | 32.3672351068972 | | |
| Site id: | LAOG90000229073 | | |

F27
SE
1/2 - 1 Mile

OIL_GAS LAOG90000229960

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 229960 | Well serial num: | 232585 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 21-DEC-2005 | Lambert x: | 1642376 |
| Lambert y: | 621837 | Zone : | N |
| Create date: | 21-DEC-2005 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 159.1 | Longsec: | 29.9 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 15.3 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 438053.349276324 | G utmy: | 3581758.14648512 |
| Glaty: | 32.3710731102079 | Glongx: | -93.6584896257047 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6584896257047 | | |
| Calcglaty: | 32.3710731102079 | | |
| Site id: | LAOG90000229960 | | |

F28
SE
1/2 - 1 Mile

OIL_GAS LAOG90000167232

| | | | |
|-------------------|------------------|-------------------|------------------|
| Objectid: | 167232 | Well serial num: | 225353 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 02-JAN-2001 | Lambert x: | Not Reported |
| Lambert y: | Not Reported | Zone : | Not Reported |
| Create date: | 05-JAN-2001 | Create username: | LINDAB |
| Update date: | 21-MAR-2015 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 159.1 | Longsec: | 29 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 15 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 15 |
| G utmx: | 438094.637258971 | G utmy: | 3581730.66974005 |
| Glaty: | 32.370833333 | Glongx: | -93.658055556 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.658055556 | | |
| Calcglaty: | 32.370833333 | | |
| Site id: | LAOG90000167232 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

29
WNW
1/2 - 1 Mile

OIL_GAS LAOG90000140149

| | | | |
|-------------------|------------------|-------------------|------------------|
| Objectid: | 140149 | Well serial num: | 195467 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 01-OCT-1984 | Lambert x: | 1634500 |
| Lambert y: | 625710 | Zone : | N |
| Create date: | 02-MAY-1999 | Create username: | CONVALL |
| Update date: | 06-OCT-2009 | Update username: | OPS\$OOC |
| Coordinate sourc: | 03 | Coordinate prior: | Not Reported |
| Ground elevation: | Not Reported | Longsec: | 2.244 |
| Longmin: | 41 | Longdeg: | 93 |
| Latsec: | 52.785 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 17 |
| G utmx: | 435646.635223124 | G utmy: | 3582929.20734004 |
| Glaty: | 32.3815006291854 | Glongx: | -93.684150922262 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.684150922262 | | |
| Calcglaty: | 32.3815006291854 | | |
| Site id: | LAOG90000140149 | | |

30
SSE
1/2 - 1 Mile

OIL_GAS LAOG90000227669

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 227669 | Well serial num: | 231781 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 26-JUL-2005 | Lambert x: | Not Reported |
| Lambert y: | Not Reported | Zone : | N |
| Create date: | 26-JUL-2005 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 150 | Longsec: | 41.929 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 1.528 | Latmin: | 22 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 15 |
| G utmx: | 437736.99396841 | G utmy: | 3581335.92113511 |
| Glaty: | 32.3672467440328 | Glongx: | -93.6618245178143 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6618245178143 | | |
| Calcglaty: | 32.3672467440328 | | |
| Site id: | LAOG90000227669 | | |

31
SSE
1/2 - 1 Mile

OIL_GAS LAOG90000226953

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 226953 | Well serial num: | 225404 |
| Wlc line id: | 3 | Coordinate syste: | 01 |
| Received date: | 18-MAR-2005 | Lambert x: | Not Reported |
| Lambert y: | Not Reported | Zone : | N |
| Create date: | 29-MAR-2005 | Create username: | JEANNEC |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 04 | Coordinate prior: | 1 |
| Ground elevation: | Not Reported | Longsec: | 58.01 |
| Longmin: | 39 | Longdeg: | 93 |
| Latsec: | 55.44 | Latmin: | 21 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 3 |
| G utmx: | 437315.569596777 | G utmy: | 3581151.07147408 |
| Glaty: | 32.3655556855487 | Glongx: | -93.6662915553993 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6662915553993 | | |
| Calcglaty: | 32.3655556855487 | | |
| Site id: | LAOG90000226953 | | |

32
South
1/2 - 1 Mile

OIL_GAS LAOG90000228067

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| Objectid: | 228067 | Well serial num: | 232434 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 21-NOV-2005 | Lambert x: | Not Reported |
| Lambert y: | Not Reported | Zone : | N |
| Create date: | 21-NOV-2005 | Create username: | PAULAC |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 160 | Longsec: | 20.726 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 53.874 | Latmin: | 21 |
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 15 |
| G utmx: | 436721.601162856 | G utmy: | 3581106.56722488 |
| Glaty: | 32.3651207134018 | Glongx: | -93.6726016789127 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6726016789127 | | |
| Calcglaty: | 32.3651207134018 | | |
| Site id: | LAOG90000228067 | | |

33
WSW
1/2 - 1 Mile

OIL_GAS LAOG90000236536

| | | | |
|-------------------|-------------|-------------------|----------|
| Objectid: | 236536 | Well serial num: | 236171 |
| Wlc line id: | 1 | Coordinate syste: | 01 |
| Received date: | 20-AUG-2007 | Lambert x: | 1634725 |
| Lambert y: | 621962 | Zone : | N |
| Create date: | 20-AUG-2007 | Create username: | PENNYL |
| Update date: | 24-NOV-2011 | Update username: | CON_USER |
| Coordinate sourc: | 02 | Coordinate prior: | 1 |
| Ground elevation: | 150 | Longsec: | 59.146 |
| Longmin: | 40 | Longdeg: | 93 |
| Latsec: | 15.723 | Latmin: | 22 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------|-----------|-------------------|
| Latdeg: | 32 | Latdd: | Not Reported |
| Longdd: | Not Reported | Coordval: | 13 |
| G utmx: | 435721.872372086 | G utmy: | 3581785.67317945 |
| Glaty: | 32.3711895656098 | Glongx: | -93.6832734811734 |
| Column28: | Not Reported | | |
| Calcglongx: | -93.6832734811734 | | |
| Calcglaty: | 32.3711895656098 | | |
| Site id: | LAOG90000236536 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: LA Radon

Radon Test Results

| Parish | Avg pCi/L | Total Sites |
|--------|-----------|-------------|
| CADD0 | 0.72289 | 83 |

Federal EPA Radon Zone for CADD0 County: 3

- 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 Zip Code: 71115

Number of sites tested: 5

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 0.680 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

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.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R 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

Louisiana Public Water Supply Wells

Source: Office of Public Health

Telephone: 504-568-5101

Water Well Registration Data File

Source: Department of Transportation and Development

Telephone: 225-274-4172

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Natural Resources

Telephone: 225-342-1977

Oil and gas well locations in Louisiana.

RADON

State Database: LA Radon

Source: Department of Environmental Quality

Telephone: 225-925-1752

Radon Levels

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

STREET AND ADDRESS INFORMATION

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APPENDIX D

LOCAL STREET DIRECTORIES

Franks - Irvin Tract

Leonard Road-Hwy 1
Shreveport, LA 71115

Inquiry Number: 4517387.5
January 22, 2016

The EDR-City Directory Image Report

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
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 type="checkbox"/> | <input checked="" type="checkbox"/> | Cole Information Services |
| 2008 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Cole Information Services |
| 2003 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Cole Information Services |
| 1999 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Cole Information Services |
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| 1987 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Polk's City Directory |
| 1982 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1977 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1972 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1967 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1963 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

Leonard Road-Hwy 1
Shreveport, LA 71115

No Addresses Found

FINDINGS

CROSS STREETS

| <u>Year</u> | <u>CD Image</u> | <u>Source</u> | |
|-------------------------|-----------------|---------------------------|-----------------------------|
| <u>HIGHWAY 1</u> | | | |
| 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 | |
| 1987 | - | Polk's City Directory | Street not listed in Source |
| 1982 | - | Polk's City Directory | Street not listed in Source |
| 1977 | - | Polk's City Directory | Street not listed in Source |
| 1972 | - | Polk's City Directory | Street not listed in Source |
| 1967 | - | Polk's City Directory | Street not listed in Source |
| 1963 | - | Polk's City Directory | Street not listed in Source |

LEONARD 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 | |
| 1987 | pg. A13 | Polk's City Directory | |
| 1982 | - | Polk's City Directory | Street not listed in Source |
| 1977 | - | Polk's City Directory | Street not listed in Source |
| 1972 | - | Polk's City Directory | Street not listed in Source |
| 1967 | - | Polk's City Directory | Street not listed in Source |
| 1963 | - | Polk's City Directory | Street not listed in Source |

City Directory Images

HIGHWAY 1 2013

9305 BAYOU AUTO LIQUIDATORS LLC
DUBOIS CONSTRUCTION
WORLD FIBER
9333 JOHN LEWIS
9381 TRIPLE N AUTOMOTIVE
10257 DRIL PATTERSON
10281 RELAY STATION
10296 ROBERT ROWELL
ROWELL JAMES A JR GEOLGST
10340 DOUGLAS LACAZE

LEONARD RD 2013

| | |
|------|------------------------------|
| 1224 | ROBERT MORGAN |
| 1240 | LLOYD WELLS |
| 1250 | JOHN FERGUSON |
| 1266 | SAMUEL MAXEY |
| 1298 | HURRI CANES |
| 1310 | DON ARMSTRONG |
| 1311 | BRETT SCHOONOVER |
| 1350 | GLENN MERICLE |
| 1372 | PAUL SISSON |
| 1454 | STANTON DOSSETT |
| 1546 | OCCUPANT UNKNOWN |
| 1550 | DAVID WATKINS |
| 1580 | JOHN WEBB |
| 1675 | CADDO PARISH FIRE DISTRICT 5 |
| 1680 | BARRY KIMBLE |
| 1750 | JIM RHINEHART |
| 1780 | LEE HEARN |
| 1840 | VICKIE WRIGHT |
| 1850 | MICHAEL LAKATOS |
| 1860 | GARY BROOME |
| 1890 | KRISTINA CARRIGAN |
| 1891 | JW OPERATING CO |
| 1910 | OCCUPANT UNKNOWN |
| 1920 | OCCUPANT UNKNOWN |
| 1930 | TOM BRANTON |

HIGHWAY 1 2008

| | |
|-------|---|
| 9305 | DUBOIS CONSTRUCTION LA ROCK PRODUCTS |
| 9333 | JOHN LEWIS |
| 9391 | FLOWERBED MAN |
| 10257 | DRIL PATTERSON |
| 10296 | ROBERT ROWELL ROWELL JAMES A JR |
| 10340 | DARRELL LACAZE |

LEONARD RD 2008

| | |
|------|--|
| 1224 | ROBERT MORGAN |
| 1240 | ROSE FITZGERALD |
| 1250 | STUART MILLS |
| 1298 | HURRI CANES |
| 1310 | DONALD KIMMELL |
| 1311 | LOU MYATT |
| 1350 | GLENN MERICLE MERICLE CONSULTANTS LLC |
| 1372 | PAUL SISSON |
| 1454 | STANTON DOSSETT |
| 1530 | BARRY PASLEY |
| 1550 | DAVE WATKINS |
| 1580 | CREIGHTON WEBB |
| 1675 | CFD 5 |
| 1680 | BARRY KIMBLE |
| 1750 | OPAL RHINEHART |
| 1780 | LEE HEARN |
| 1850 | JAY ROSSI |
| 1890 | CLAUDE CARRIGAN |
| 1910 | SAMANTHA LACOUR |
| 1912 | HAROLD WILLIFORD |
| 1920 | STEWART CLANCY |
| 1930 | JENNY PIERSON |

HIGHWAY 1 2003

| | |
|-------|---|
| 9305 | DUBOIS CONSTRUCTION LA ROCK PRODUCTS |
| 10296 | JAMES ROWELL |
| 10340 | MICHAEL DELRIE |

LEONARD RD 2003

1224 JOHN SCHMIDT
1240 ANN MCLAURIN
1250 P MILLS
1266 SAMUEL MAXEY
1298 LABBAN & LABBAN CO
1310 DONALD KIMMELL
1311 LOU MYATT
1350 CONSULTANTS MERICLE
GLENN MERICLE
1372 PAUL SISSON
1454 STANTON DOSSETT
1550 DAVE WATKINS
1580 CREIGHTON WEBB
1601 J W OPERATING CO
1680 BARRY KIMBLE
1750 EARL RHINEHART
1780 FRANK GILL
1890 KLEPPER & ASSOCS INS SERVICES INC
RAY KLEPPER
1912 C & W CUSTOM HOMES LLC
HAROLD WILLIFORD
1920 JERREL CLANCY

HIGHWAY 1 1999

| | |
|-------|--|
| 9305 | DUBOIS CONSTRUCTION LAROCK PRODUCTS |
| 10257 | DRIL PATTERSON |
| 10296 | ROBERT ROWELL |
| 10340 | DARRELL LACAZE |

LEONARD RD 1999

| | |
|------|-------------------------------|
| 1224 | ROBERT MORGAN |
| 1240 | ROSE FITZGERALD |
| 1250 | HILTON FERGUSON |
| 1266 | MAXEY LABORATORY INCORPORATED |
| 1298 | HURRI CANES |
| 1310 | DONALD KIMMELL |
| 1311 | LOU MYATT |
| 1350 | GLENN MERICLE |
| 1372 | PAUL SISSON |
| 1454 | STANTON DOSSETT |
| 1530 | BARRY PASLEY |
| 1550 | DAVE WATKINS |
| 1580 | CREIGHTON WEBB |
| 1680 | BARRY KIMBLE |
| 1750 | OPAL RHINEHART |
| 1780 | LEE HEARN |
| 1850 | JAY ROSSI |
| 1860 | GARY BROOME |
| 1890 | CLAUDE CARRIGAN |
| 1910 | LACHANDA MCCALL |
| 1930 | JENNY PIERSON |

HIGHWAY 1 1995

8310 HISLOPE CONSTRUCTION INC
HISLOPE, JERRY
10397 CHEAP SEAT TREE STAND
HANG ON LITE TREE STAND
LOGGY BAYOU INDUSTRIES

LEONARD RD 1995

1224 SCHMIDT, JOHN A
1240 MCLAURIN, ANN M
1250 MILLS, STUART E
1266 MAXEY LABORATORY INC
MAXEY, SAMUEL A
1311 MYATT, LOU D
1372 WEBB, C
1550 WATKINS, DAVE S
1580 LEGENDRE, GUY B
1590 OCCUPANT UNKNOWNN
1780 GILL, HENRY F
1890 IRVIN, JACK
1910 HATFIELD, HEATH
1912 OCCUPANT UNKNOWNN

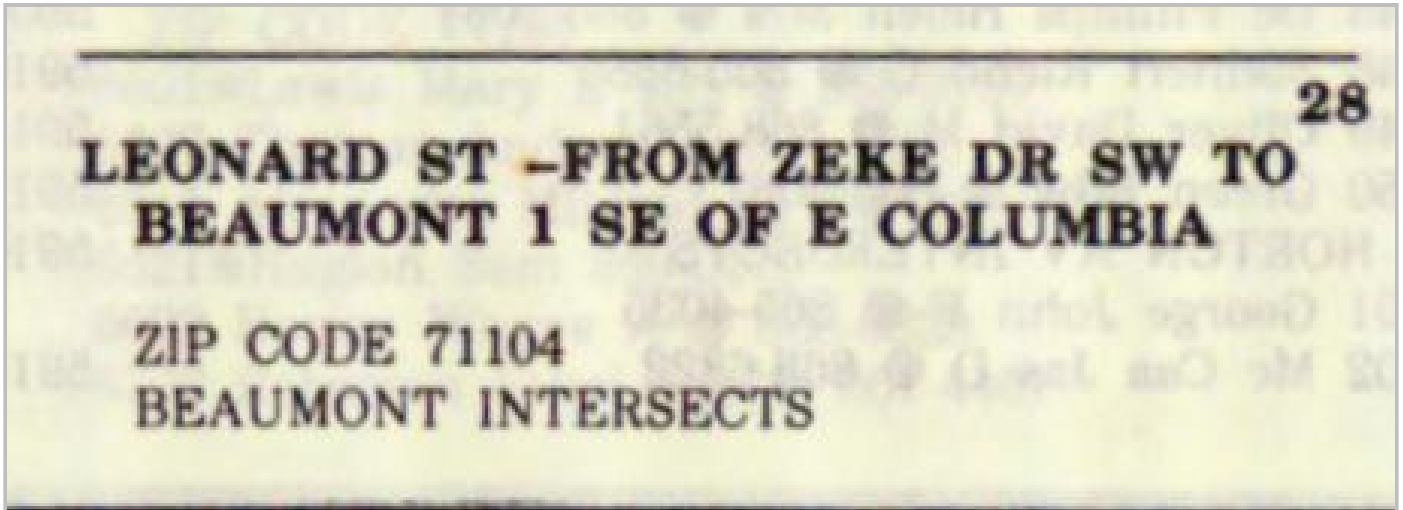
HIGHWAY 1 1992

8230 SPEARMAN, JAMES C
8234 BALLARD, E E
10296 ROWELL, JAMES A JR
10340 LACAZE, D N

LEONARD RD 1992

1224 SCHMIDT, JOHN A
1240 MCLAURIN, ANN M
1250 MILLS, STUART E
1266 MAXEY LAB INC
1311 MYATT, LOU D
1372 WEBB, C
1580 LEGENDRE, GUY B
1750 RHINEHART, EARL J
1780 GILL, HENRY F
1910 MELTON, L
PERRET, JERRIE

LEONARD RD 1987



APPENDIX E

SANBORN® MAPS



Franks - Irvin Tract

Leonard Road/Hwy 1
Shreveport, LA 71115

Inquiry Number: 4517387.3

January 20, 2016

Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/20/16

Site Name:

Franks - Irvin Tract
Leonard Road/Hwy 1
Shreveport, LA 71115

Client Name:

C-K Associates, Inc.
2001 East 70th Street
Shreveport, LA 71105



EDR Inquiry # 4517387.3

Contact: Andrew Hooker

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by C-K Associates, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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:

Site Name: Franks - Irvin Tract
Address: Leonard Road/Hwy 1
City, State, Zip: Shreveport, LA 71115
Cross Street:
P.O. # NA
Project: 13384 - Franks Irvin Tract
Certification # 7B48-49A7-8F7A



Sanborn® Library search results
Certification # 7B48-49A7-8F7A

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.

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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APPENDIX F

HISTORICAL TOPOGRAPHIC MAPS

Franks - Irvin Tract
Leonard Road/Hwy 1
Shreveport, LA 71115

Inquiry Number: 4517387.4

January 20, 2016

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

| | |
|-------------------------|------------------------|
| Site Name: | Client Name: |
| Franks - Irvin Tract | C-K Associates, Inc. |
| Leonard Road/Hwy 1 | 2001 East 70th Street |
| Shreveport, LA 71115 | Shreveport, LA 71105 |
| EDR Inquiry # 4517387.4 | Contact: Andrew Hooker |



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by C-K Associates, Inc. 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:

| | | | |
|------------------------|----------------------------|----------------------|------------------------------|
| Site Name: | Franks - Irvin Tract | Latitude: | 32.378207 32° 22' 42" North |
| Address: | Leonard Road/Hwy 1 | Longitude: | -93.669741 -93° 40' 11" West |
| City,State,Zip: | Shreveport, LA 71115 | UTM Zone: | Zone 15 North |
| P.O.# | NA | UTM X Meters: | 436999.82 |
| Project: | 13384 - Franks Irvin Tract | UTM Y Meters: | 3582555.52 |
| | | Elevation: | 156.00' above sea level |

Maps Provided:

- 2012
- 1992
- 1980
- 1969
- 1959
- 1955
- 1948
- 1941

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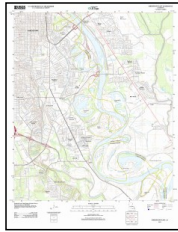
Topo Sheet Thumbnails

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Wallace Lake
2012
7.5-minute, 24000

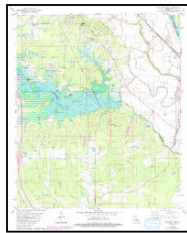


Shreveport East
2012
7.5-minute, 24000

1992 Source Sheets

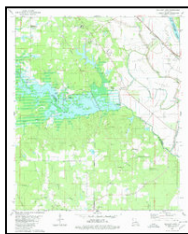


Shreveport East
1992
7.5-minute, 24000
Aerial Photo Revised 1990
Edited 1992



Wallace Lake
1992
7.5-minute, 24000
Photo Revised 1992
Aerial Photo Revised 1989

1980 Source Sheets

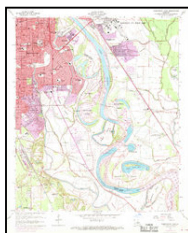


Wallace Lake
1980
7.5-minute, 24000
Aerial Photo Revised 1974
Edited 1980



Shreveport East
1980
7.5-minute, 24000
Aerial Photo Revised 1975
Edited 1980

1969 Source Sheets



Shreveport East
1969
7.5-minute, 24000
Photo Revised 1969
Aerial Photo Revised 1969

Topo Sheet Thumbnails

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1959 Source Sheets



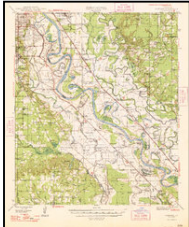
Shreveport East
1959
7.5-minute, 24000
Aerial Photo Revised 1959
Edited 1959

1955 Source Sheets



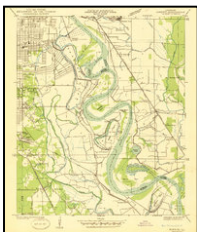
Shreveport East
1955
7.5-minute, 24000

1948 Source Sheets

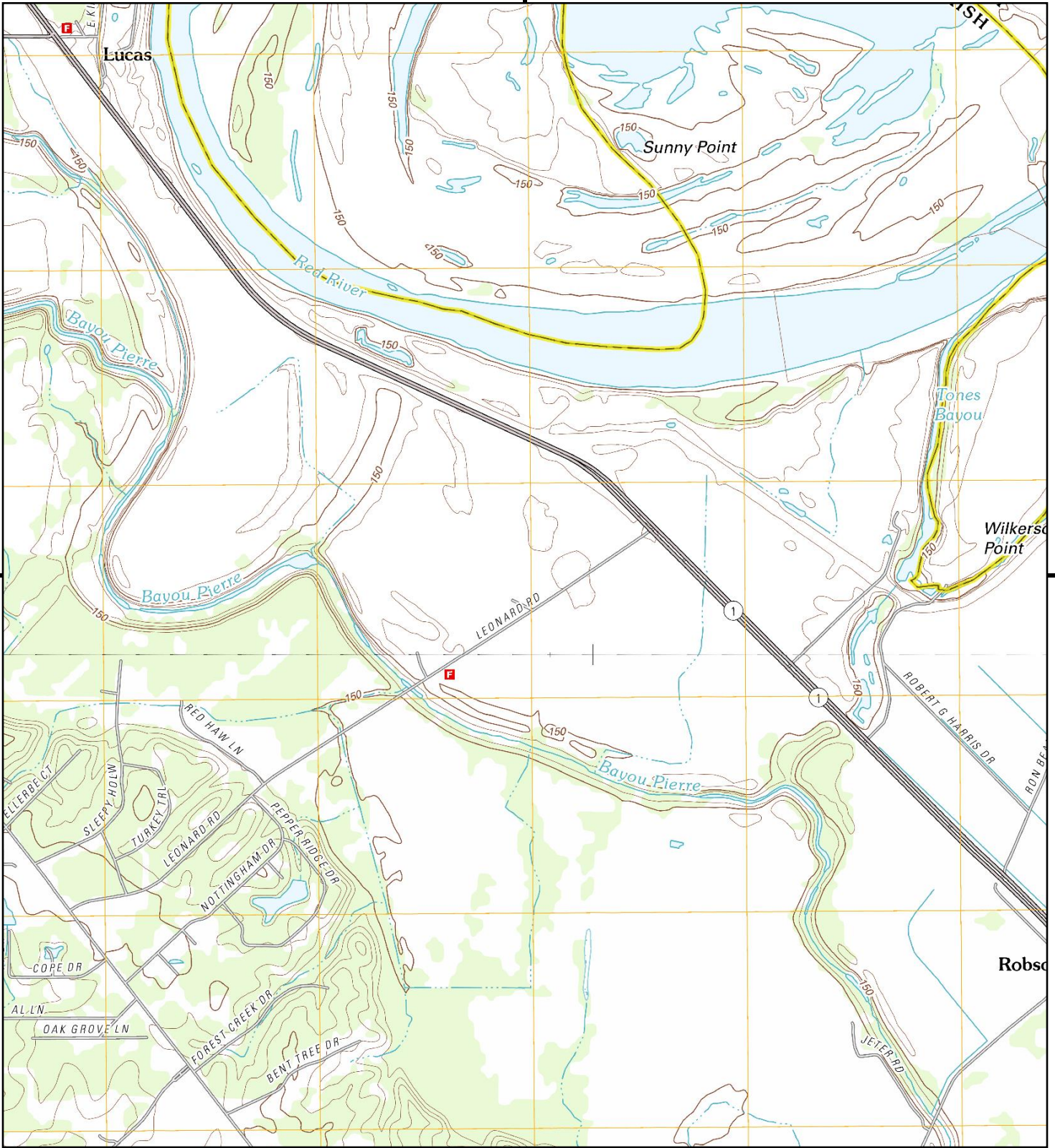


Caspiana
1948
15-minute, 62500

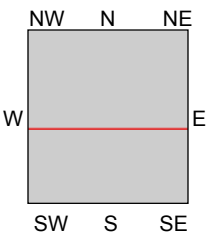
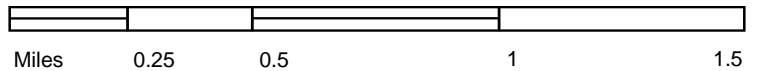
1941 Source Sheets



Forbing
1941
7.5-minute, 31680



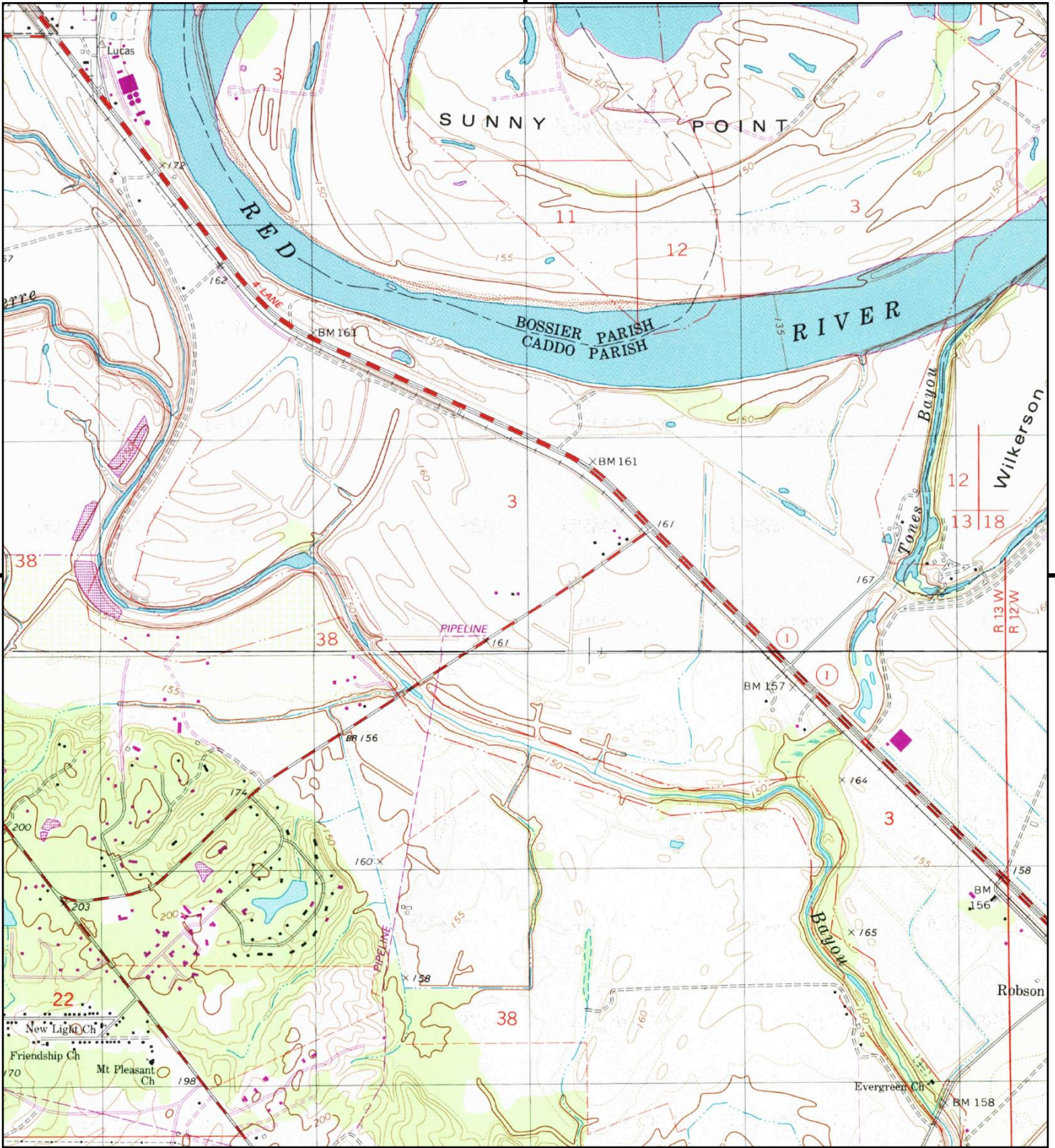
This report includes information from the following map sheet(s).



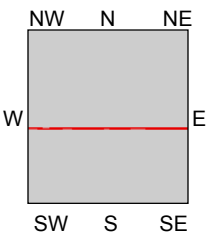
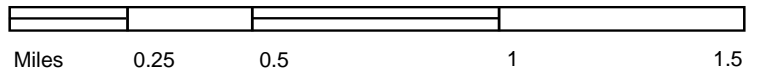
TP, Shreveport East, 2012, 7.5-minute
 S, Wallace Lake, 2012, 7.5-minute

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport, LA 71115
 CLIENT: C-K Associates, Inc.





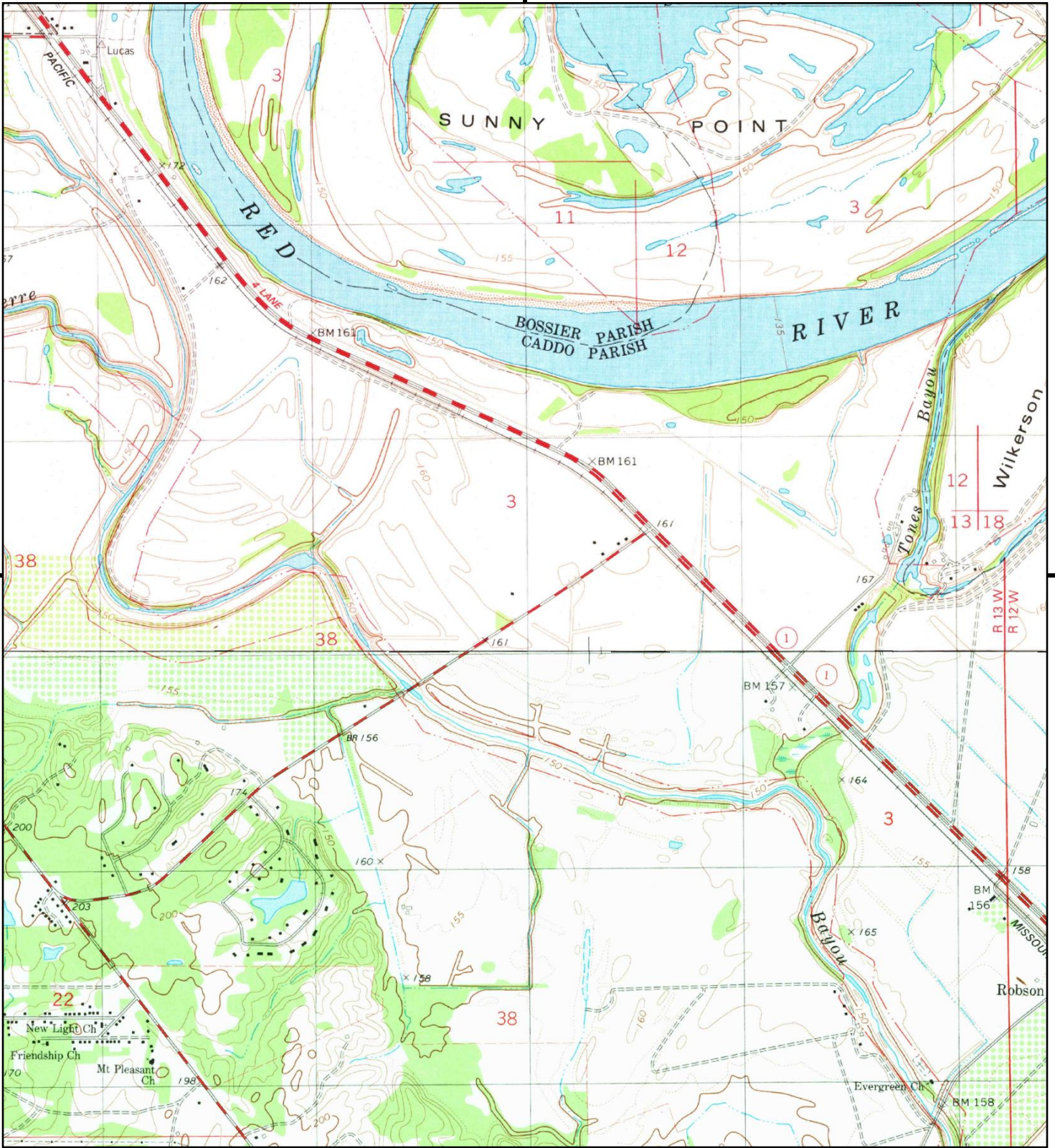
This report includes information from the following map sheet(s).



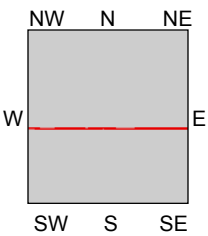
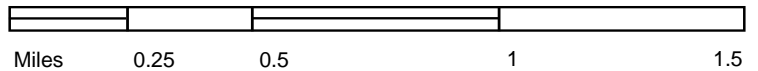
TP, Shreveport East, 1992, 7.5-minute
 S, Wallace Lake, 1992, 7.5-minute

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport, LA 71115
 CLIENT: C-K Associates, Inc.





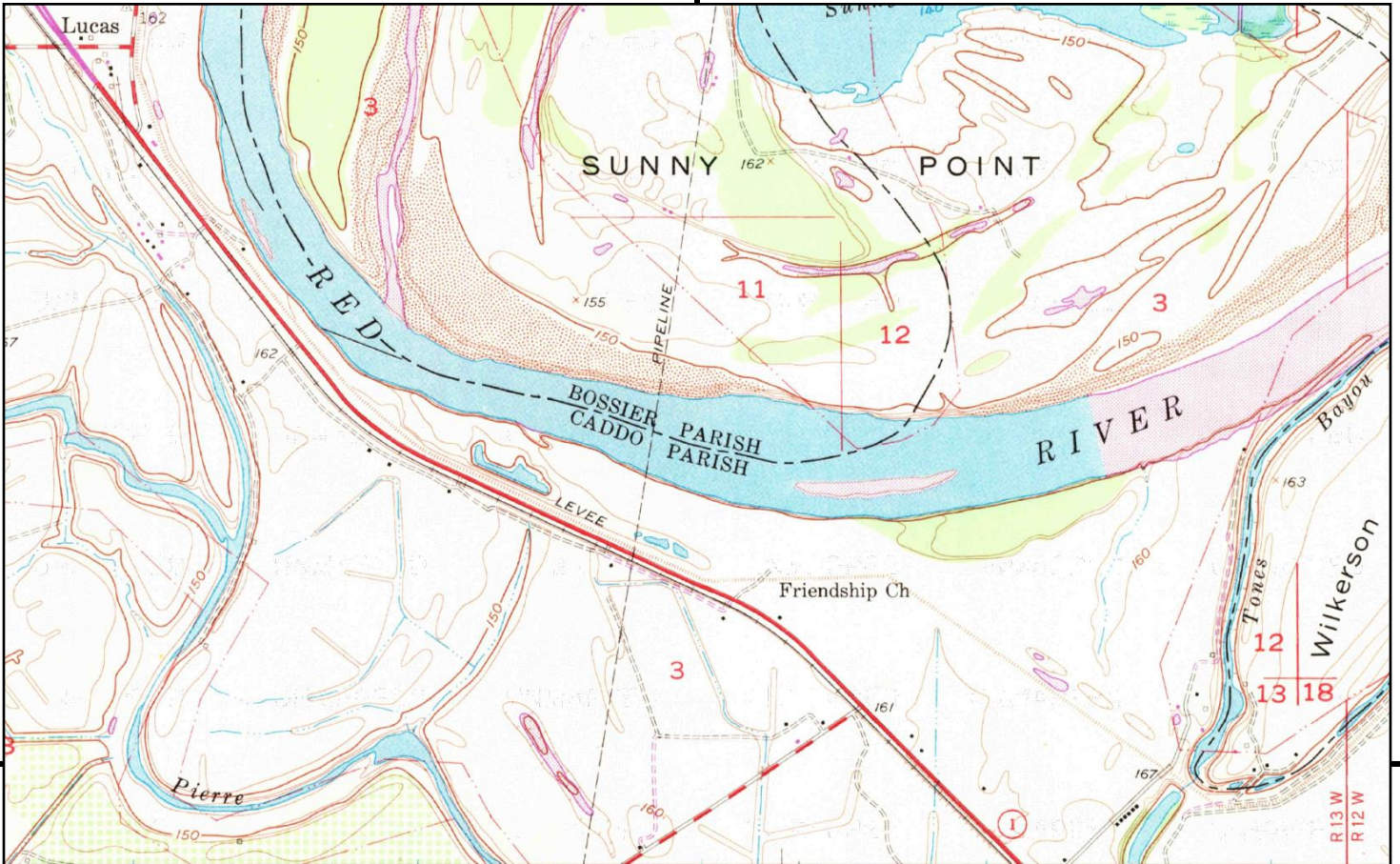
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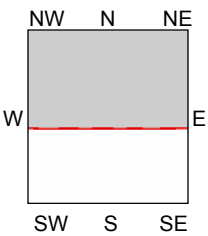
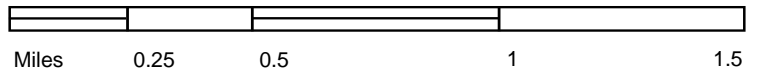
TP, Shreveport East, 1980, 7.5-minute
 S, Wallace Lake, 1980, 7.5-minute

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport, LA 71115
 CLIENT: C-K Associates, Inc.





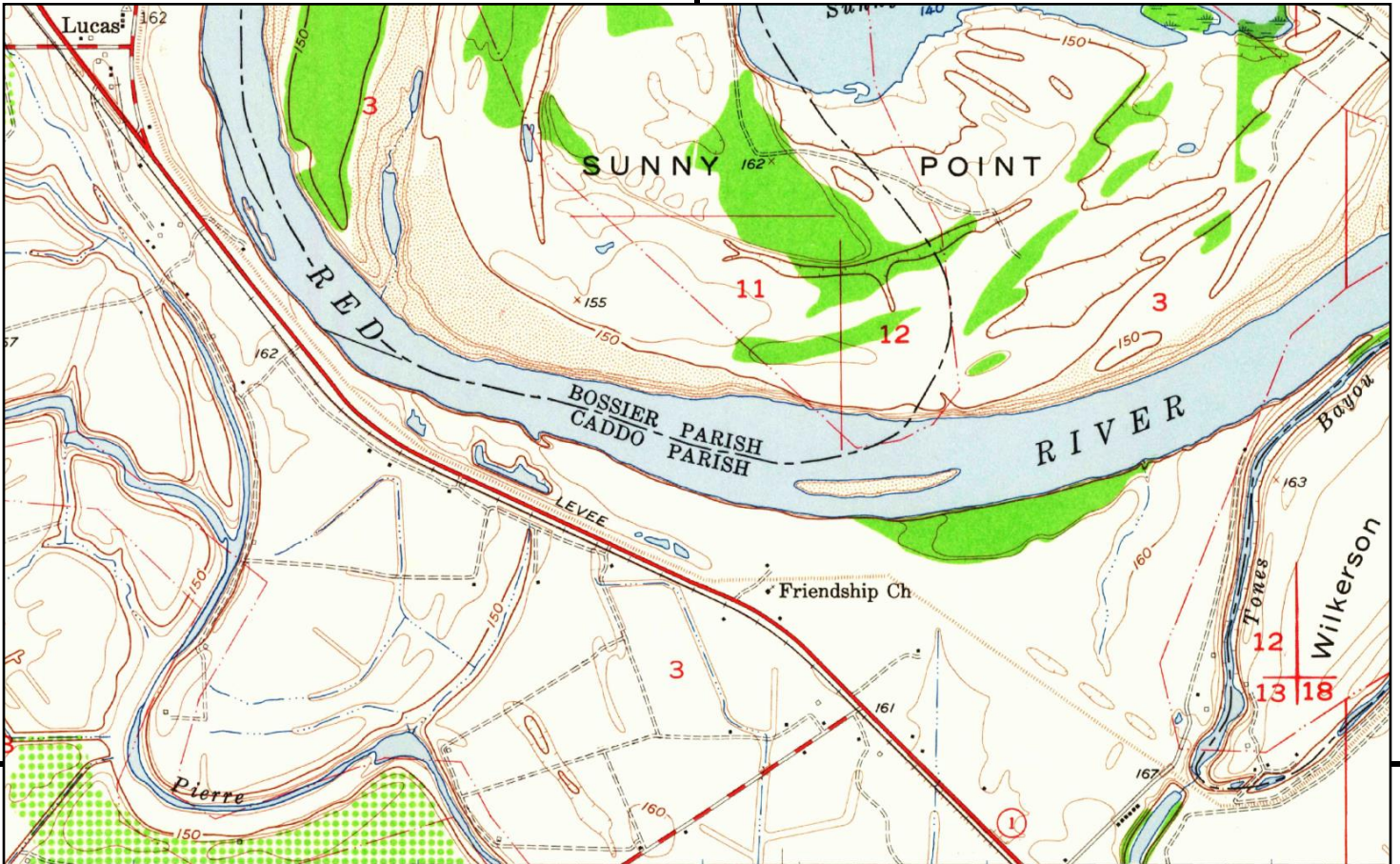
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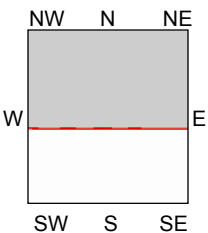
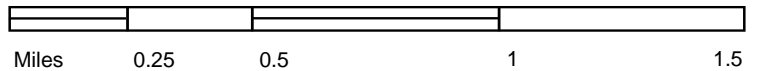
TP, Shreveport East, 1969, 7.5-minute

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport, LA 71115
 CLIENT: C-K Associates, Inc.





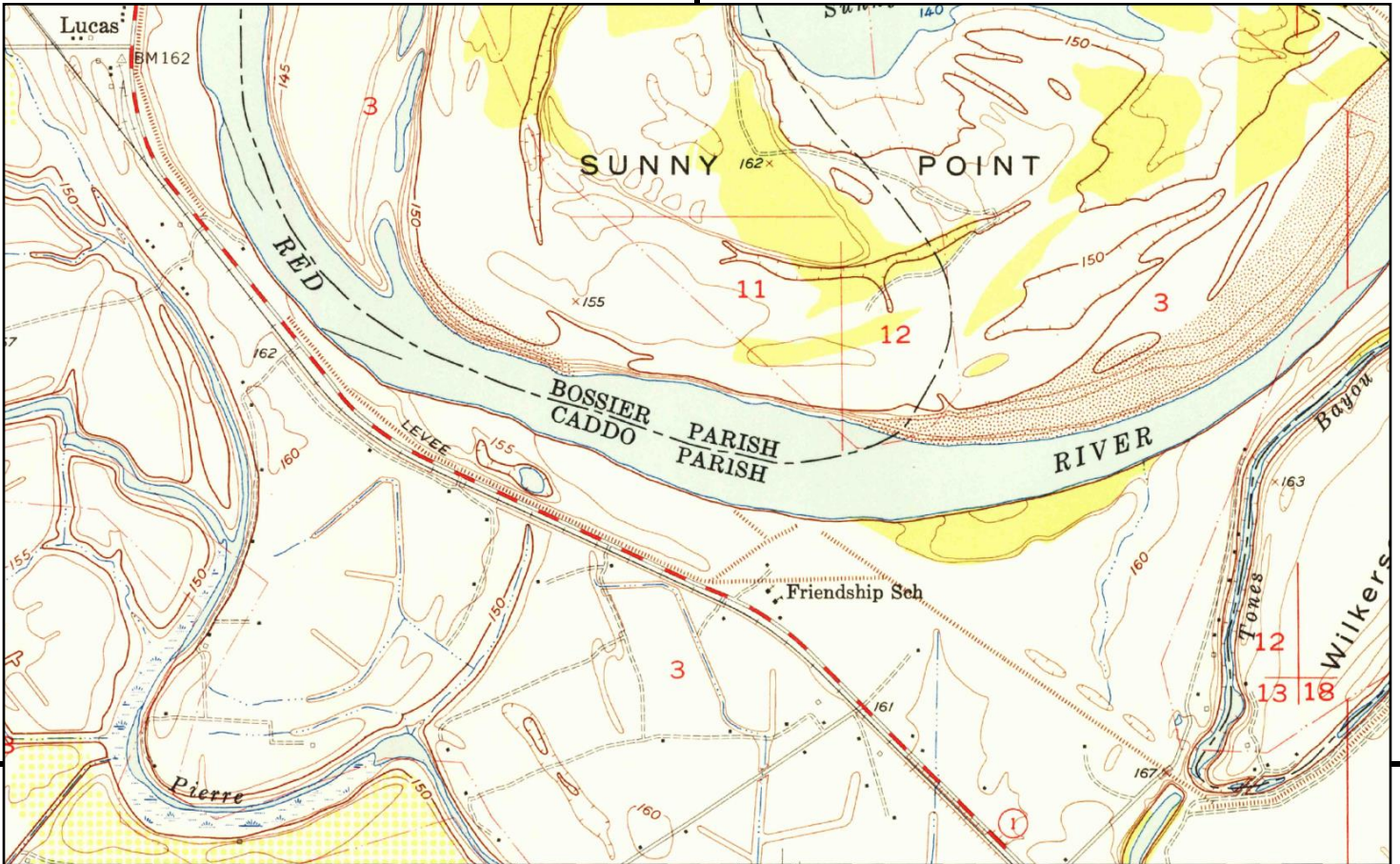
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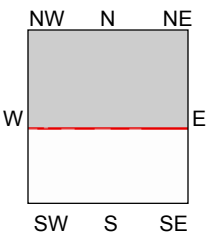
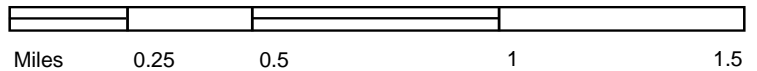
TP, Shreveport East, 1959, 7.5-minute

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport, LA 71115
 CLIENT: C-K Associates, Inc.





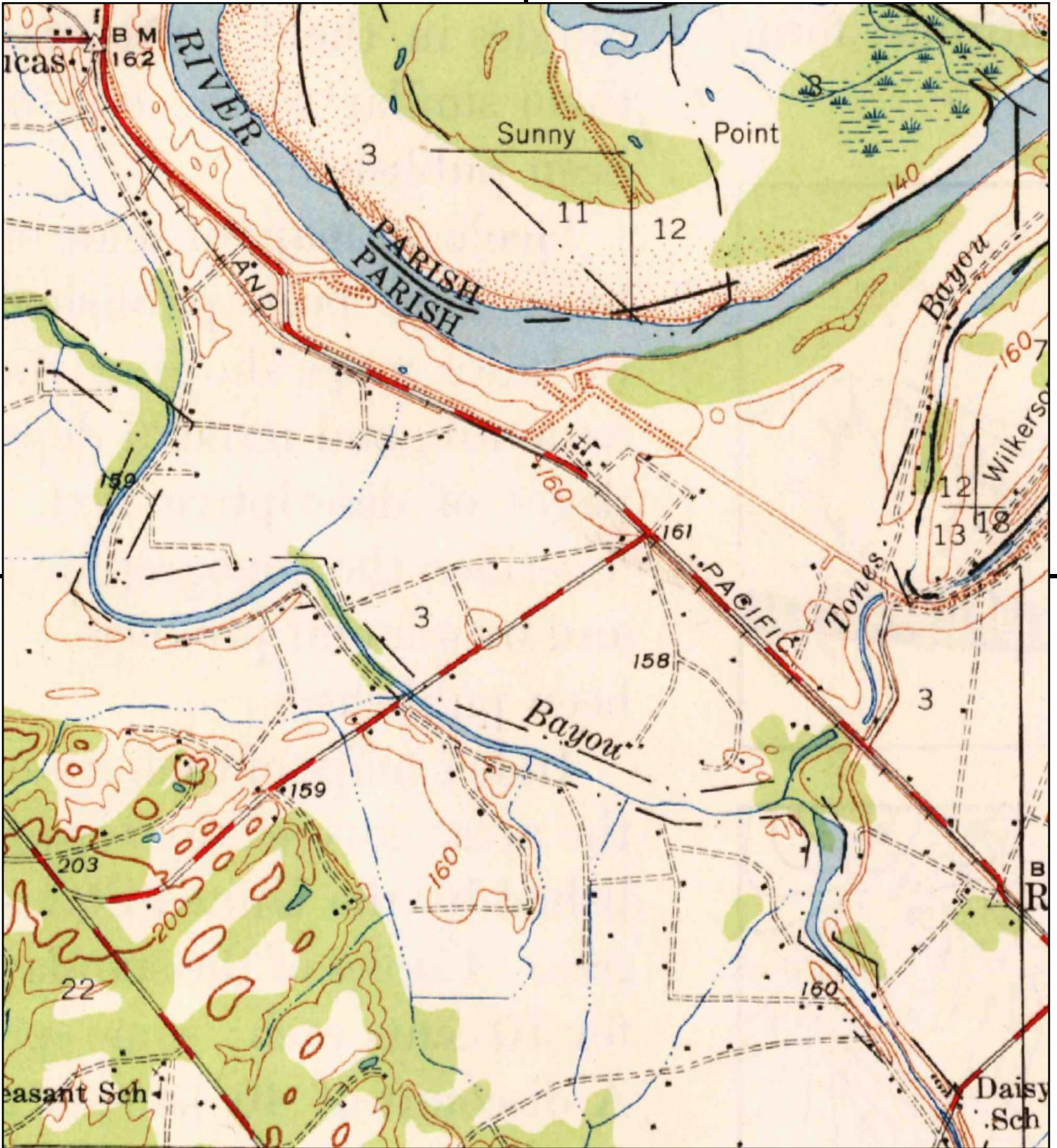
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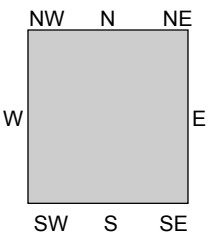
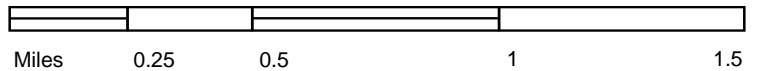
TP, Shreveport East, 1955, 7.5-minute

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport, LA 71115
 CLIENT: C-K Associates, Inc.





This report includes information from the following map sheet(s).



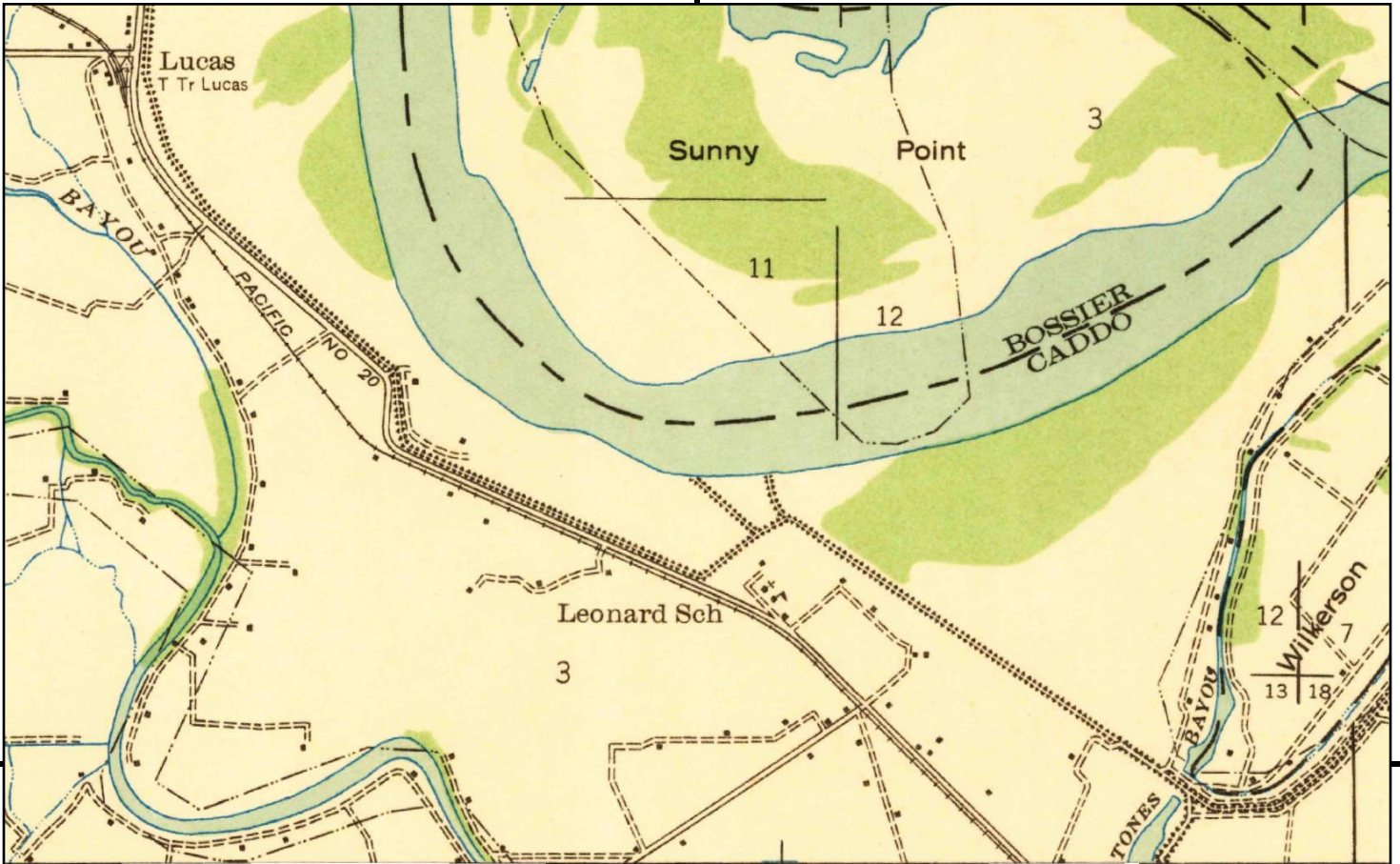
TP, Caspiana, 1948, 15-minute

SITE NAME: Franks - Irvin Tract
 ADDRESS: Leonard Road/Hwy 1
 Shreveport, LA 71115
 CLIENT: C-K Associates, Inc.

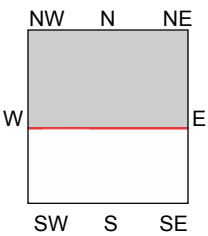
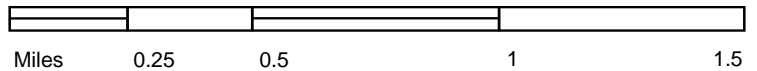


Historical Topo Map

1941



This report includes information from the following map sheet(s).



TP, Forbing, 1941, 7.5-minute

SITE NAME: Franks - Irvin Tract
ADDRESS: Leonard Road/Hwy 1
Shreveport, LA 71115
CLIENT: C-K Associates, Inc.



APPENDIX G

HISTORICAL AERIAL PHOTOGRAPHS



Franks - Irvin Tract

Leonard Road/Hwy 1
Shreveport, LA 71115

Inquiry Number: 4517387.9

January 21, 2016

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography January 21, 2016

Target Property:

Leonard Road/Hwy 1
Shreveport, LA 71115

| <u><i>Year</i></u> | <u><i>Scale</i></u> | <u><i>Details</i></u> | <u><i>Source</i></u> |
|--------------------|------------------------------------|--|----------------------|
| 1949 | Aerial Photograph. Scale: 1"=500' | Flight Date: November 15, 1949 | USGS |
| 1974 | Aerial Photograph. Scale: 1"=500' | Flight Date: March 14, 1974 | EDR |
| 1985 | Aerial Photograph. Scale: 1"=1000' | Flight Date: February 12, 1985 | EDR |
| 1989 | Aerial Photograph. Scale: 1"=500' | DOQQ - acquisition dates: March 10, 1989 | USGS/DOQQ |
| 1995 | Aerial Photograph. Scale: 1"=500' | Flight Date: January 15, 1995 | USGS |
| 1998 | Aerial Photograph. Scale: 1"=750' | Flight Date: February 23, 1998 | EDR |
| 2005 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2005 | USDA/NAIP |
| 2006 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 2007 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2007 | USDA/NAIP |
| 2009 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2010 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2010 | USDA/NAIP |



INQUIRY #: 4517387.9

YEAR: 1949

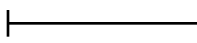
| = 500'





INQUIRY #: 4517387.9

YEAR: 1974

 = 500'





INQUIRY #: 4517387.9

YEAR: 1985

| = 1000'





INQUIRY #: 4517387.9

YEAR: 1989

| = 500'



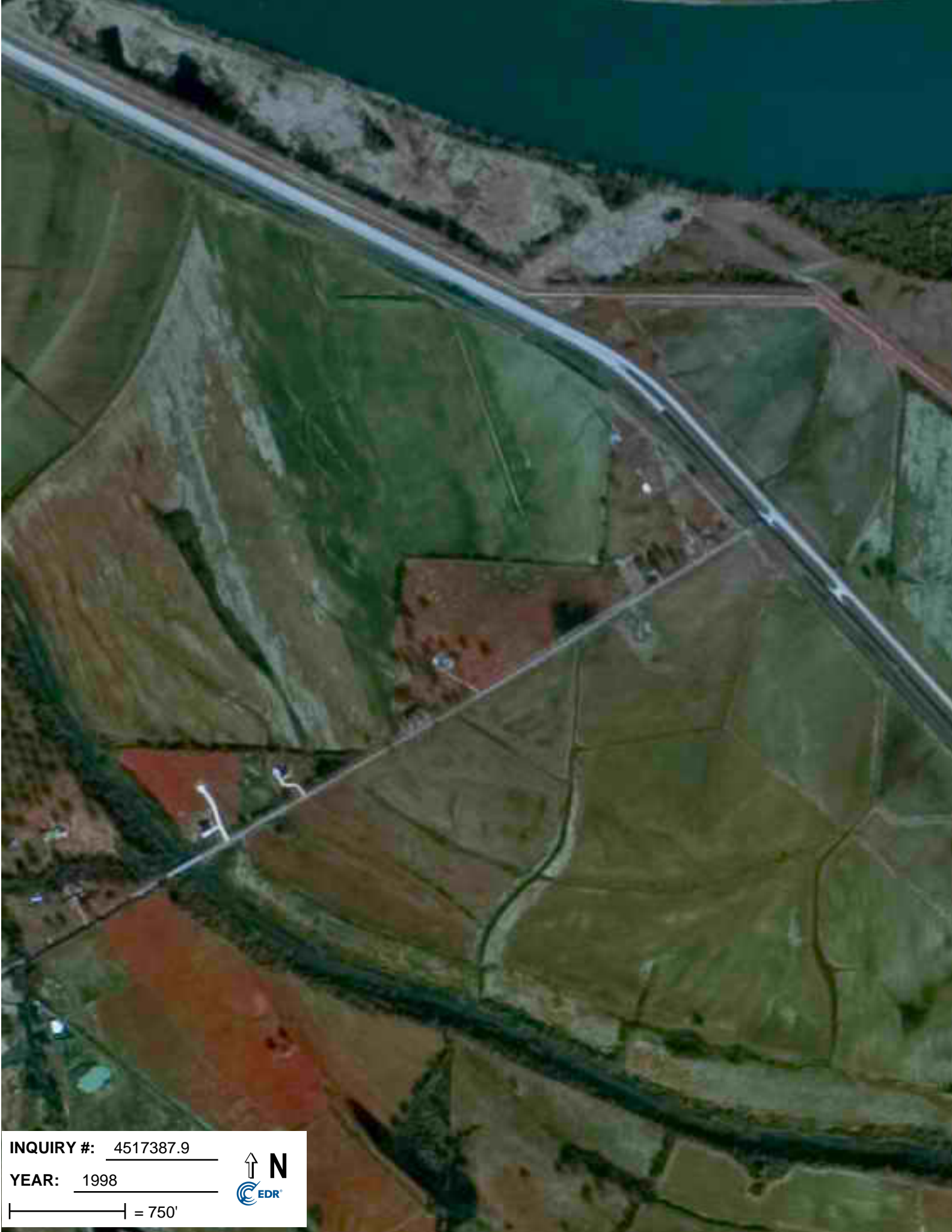


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YEAR: 1995

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YEAR: 1998

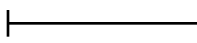
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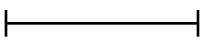
 = 500'





INQUIRY #: 4517387.9

YEAR: 2006

 = 500'





INQUIRY #: 4517387.9

YEAR: 2007

| = 500'





INQUIRY #: 4517387.9

YEAR: 2009

| = 500'





INQUIRY #: 4517387.9

YEAR: 2010

| = 500'



APPENDIX H

PHOTOGRAPHS



Southeastern border of assessment property looking southwest along Leonard Road.



Southeastern border of assessment property looking northeast along Leonard Road.



Central area of assessment property looking northwest.



Northeastern border of assessment property looking northeast at the pond on the adjacent property.



Northern corner of the assessment property looking north at the tree line.



PVC piping near the northern border of the assessment property.



Northern border of assessment property looking west.



Southwestern corner of assessment property looking northeast.



Southern border of assessment property looking north.



Central area of the assessment property looking northeast.

APPENDIX I

RESUME



Andrew C. Hooker

Environmental Scientist II

RESUME'

EDUATION

B.S., Environmental Science, Louisiana Tech University, 2006

Minor, Geographical Information Sciences, Louisiana Tech University, 2006

EXPERIENCE

C-K Associates – Environmental Scientist, 2013 – Present

CRA - Environmental Scientist, 2006 - 2013

AREAS OF EXPERTISE

Risk Assessment

Air Permitting

Water Permitting

As an Environmental Scientist, Mr. Hooker is responsible for project coordination of air and water permitting and risk assessment projects. He has more than 10 years' experience including six (6) years as a Project Manager for UST facilities and wastewater monitoring projects. He has a significant multi-media regulatory background and is strong in negotiating with federal and state regulators pertaining to compliance issues and permitting flexibility. Mr. Hooker also served as an environmental equipment manager for five (5) years. These duties included maintaining and calibrated all environmental equipment.

Mr. Hooker's extensive risk assessment experience includes approximately 50 Phase II Investigations, 50 Phase I ESAs, emergency response oversight for multiple spills in the oil and gas industry and railroads, RECAP evaluations, development of sampling and analytical plans, NORM surveys, large scale excavation oversight, multi-media field sampling, and Phase I Site Assessments.

Mr. Hooker's water permitting experience includes multiple SWPPP and SPCC plans, saltwater disposal facility audits, and wastewater/stormwater permitting.

PROJECT HIGHLIGHTS

- **King Ranch Initial Site Assessment** – Lead geologist/scientist for the installation of approximately 180 monitor wells, oversight of all drilling activities and survey team.
- **Grand Bayou Derailment** – Emergency response lead for a train derailment and spill of 5,000 gal of diesel. Oversight of all initial clean-up activities. Oversight of subsequent excavation and confirmation sampling.
- **Big Hill Excavation** – Field supervisor for 9+ acre excavation of salt impacted soil.
- **SWEPCO SPCC** – Project coordinator for 50+ SPCC plans for SWEPCO in northwest Louisiana.
- **Otto's UST Facility** – Mr. Hooker wrote a Corrective Action Plan for chemical injection of ORC (Oxygen Release Compound) and EFR events for remediation of the site. The site was closed within the year.
- **Haynesville Shale** – Mr. Hooker managed and supervised multiple site investigations, excavations, sampling events, and surveys for multiple clients within the Haynesville Shale field.