District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

**For drilling and production facilities**, submit to appropriate NMOCD District Office.
**For downstream facilities**, submit to Santa Fe office

# Pit or Below-Grade Tank Registration or Closure

**Final Report**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Lewis Burleson, Inc. Telephone: 432-683-4747 e-mail address: la_elkeenv@yahoo.com
Address: 200 N. Loraine Suite 600 Midland, TX 79701
Facility or well name: T C Federal #3 API #: 30-025-38504 U/L or Qtr/Qtr N Sec 30 T 20S R 39E
County: Lea Latitude ____ Longitude ____ NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

RECEIVED
APR 18 2008
HOBBS OCD

| **Pit** | **Below-grade tank** | |
|---|---|---|
| Type: Drilling ☒ Production ☐ Disposal ☐<br>Workover ☐ Emergency ☐<br>Lined ☒ Unlined ☐<br>Liner type: Synthetic ☒ Thickness 12 mil Clay ☐<br>Pit Volume 20000 bbl | Volume: ____ bbl Type of fluid: ____<br>Construction material: ____<br>Double-walled, with leak detection? Yes ☐ If not, explain why not. ____ | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | Less than 50 feet<br>50 feet or more, but less than 100 feet<br>100 feet or more | (20 points)<br>(10 points) XXXX<br>( 0 points) |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | Yes<br>No | (20 points)<br>( 0 points) XXXX |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet<br>200 feet or more, but less than 1000 feet<br>1000 feet or more | (20 points)<br>(10 points)<br>( 0 points) XXXX |
| | **Ranking Score (Total Points)** | **10 points** |

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Sundance Disposal. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: All excess drilling fluid was removed. All drilling mud and liner was excavated and hauled to Sundance Disposal. After drilling mud and liner Was removed the pit bottoms were sampled and analyzed per NMOCD Guidelines. The results did not meet NMOCD standards and the site was delineated. The deepest area meet NMOCD standards at 26' below ground surface. As per the email from Larry Johnson (NMOCD Hobbs) the contaminated soil was moved from test points 2 and 5 to test points 1 and 3 then capped with a 20 mil impervious liner at 4' below ground surface. The drilling pit was then backfilled with clean native soil and contoured to the surrounding area.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 4-17-2008
Printed Name/Title Steven Burleson V.P. Signature ____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title ____ Signature L Johnson ENVIRONMENTAL ENGINEER Date: 4-28-08

LIST AS RBC

# Closure Report

Prepared for
Lewis Burleson, Inc.

## T C Federal #3
**API # 30-025-38504**
**Lea County, NM**



Prepared by
***Elke Environmental, Inc.***
P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

# *Elke Environmental, Inc.*

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884


March 14, 2008

New Mexico Oil Conservation Division
Mr. Larry Johnson
1625 N. French Dr.
Hobbs, New Mexico 88240

Re: Lewis Burleson, Inc. – T C Federal #3
UL 'N' Sec. 30 T20S R39E Lea County, NM
API # 30-025-38504

Mr. Larry Johnson,

Elke Environmental was contracted by Lewis Burleson, Inc. to complete the closure of the T C Federal #3 drilling pit. As per the C-144 filed and signed by Chris Williams on 4-3-08 all material was excavated and hauled to Sundance Disposal. After all material was removed bottom samples of the drilling pit were analyzed per NMOCD guidelines. The samples did not meet NMOCD standards for this site. The drilling pit was delineated with the deepest area of chlorides reaching 26' below ground surface. As per the email between Logan Anderson (Elke) and Larry Johnson (NMOCD) the contaminated soil from test points 2 and 5 were moved to test points 1 and 3 then capped with a 20 mil impervious liner at 4' below ground surface. The site was then backfilled with clean native soil and contoured to the surrounding area. If you have any questions about the enclosed report please contact me at the office.

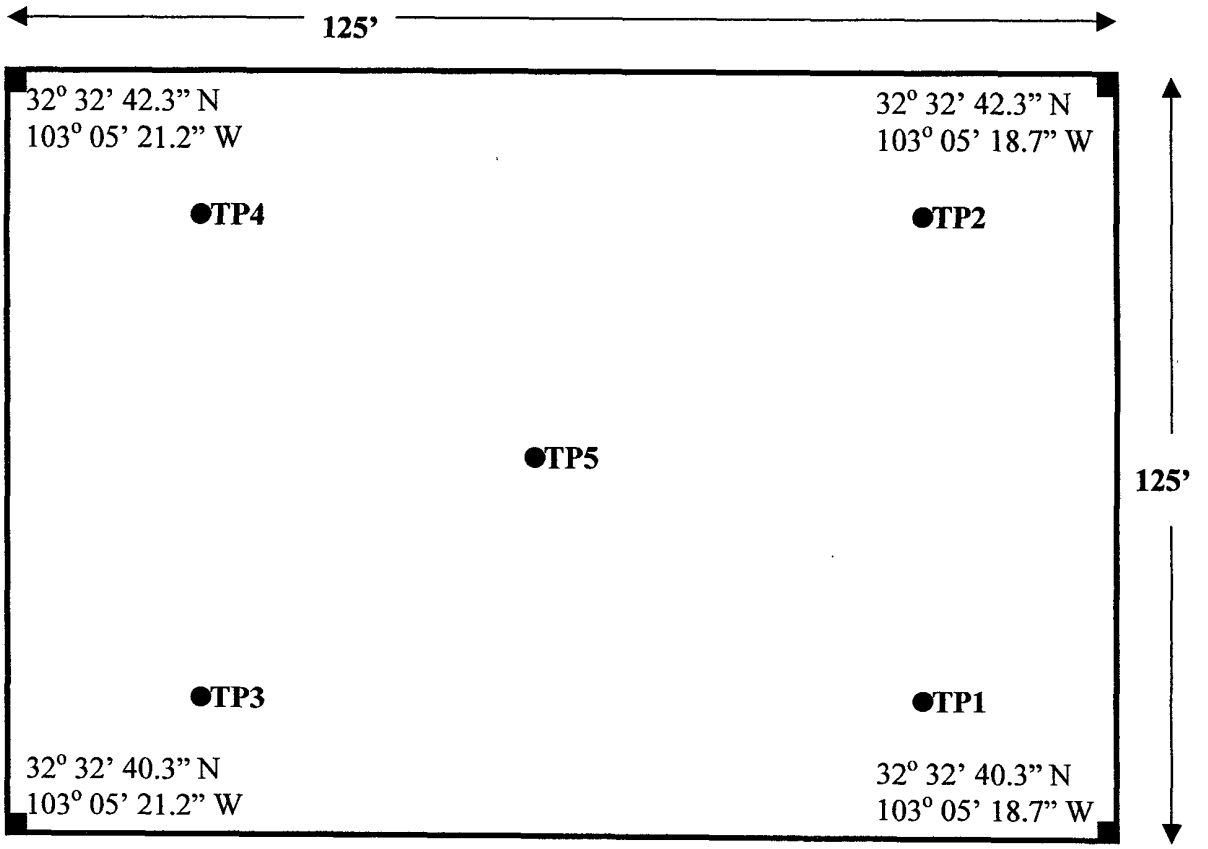
Sincerely,

Logan Anderson

**Lewis Burleson, Inc.**
T C Federal #3
UL 'N' Sec. 30 T20S R39E

N

Plat Map



*Elke Environmental, Inc.*
P.O. Box 14167 Odessa, TX 79768

# Field Analytical Report Form

**Client** Lewis Burleson, Inc. **Analyst** Jason Jessup

**Site** T C Federal #3

| Sample ID | Date | Depth | TPH / PPM | Cl / PPM | PID / PPM | GPS |
|---|---|---|---|---|---|---|
| TP1 | 4-4-08 | 6' | | 742 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 7' | | 3,008 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 9' | | 5,795 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 11' | | 4,730 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 13' | | 11,846 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 16' | | 10,575 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 18' | | 9,427 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 20' | | 14,794 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 22' | | 13,073 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 24' | | 573 | | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP1 | 4-7-08 | 26' | | 259 | 4.9 | 32° 32' 40.5" N 103° 05' 18.8" W |
| TP2 | 4-4-08 | 6' | | 355 | | 32° 32' 42.0" N 103° 05' 18.9" W |
| TP2 | 4-7-08 | 7' | | 241 | 5.9 | 32° 32' 42.0" N 103° 05' 18.9" W |
| TP3 | 4-4-08 | 6' | | 3,506 | | 32° 32' 40.5" N 103° 05' 21.0" W |
| TP3 | 4-7-08 | 7' | | 1,583 | | 32° 32' 40.5" N 103° 05' 21.0" W |
| TP3 | 4-7-08 | 9' | | 5,677 | | 32° 32' 40.5" N 103° 05' 21.0" W |
| TP3 | 4-7-08 | 11' | | 4,924 | | 32° 32' 40.5" N 103° 05' 21.0" W |

**Analyst Notes**

*Elke Environmental, Inc.*
P.O. Box 14167 Odessa, TX 79768

# Field Analytical Report Form

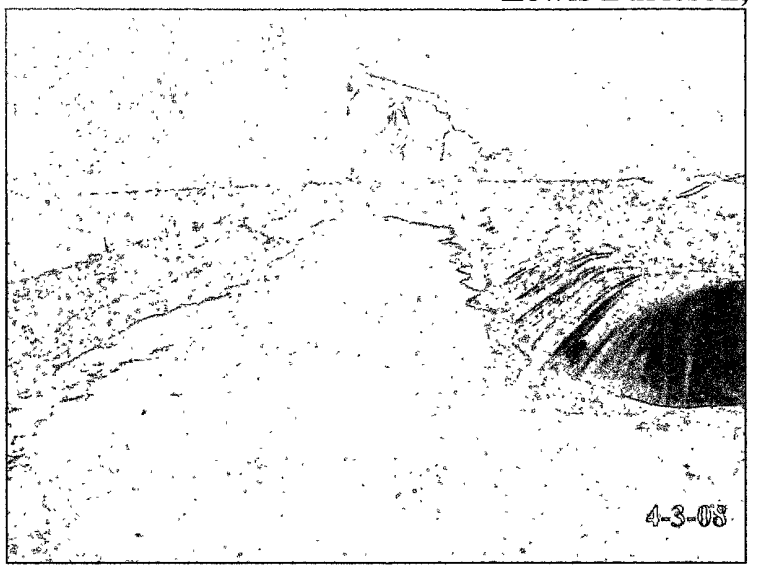
**Client** Lewis Burleson, Inc. **Analyst** Jason Jessup

**Site** T C Federal #3

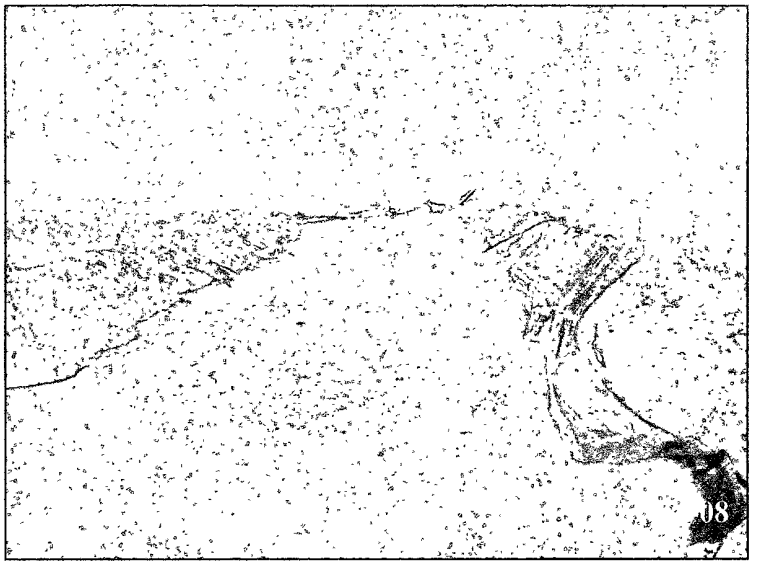
| Sample ID | Date | Depth | TPH / PPM | Cl / PPM | PID / PPM | GPS |
|---|---|---|---|---|---|---|
| TP3 | 4-7-08 | 13' | | 3,811 | | 32° 32' 40.5" N 103° 05' 21.0" W |
| TP3 | 4-7-08 | 16' | | 1,139 | | 32° 32' 40.5" N 103° 05' 21.0" W |
| TP3 | 4-7-08 | 18' | | 914 | | 32° 32' 40.5" N 103° 05' 21.0" W |
| TP3 | 4-7-08 | 22' | | 240 | 7.3 | 32° 32' 40.5" N 103° 05' 21.0" W |
| TP4 | 4-4-08 | 6' | | 448 | | 32° 32' 42.1" N 103° 05' 21.0" W |
| TP4 | 4-7-08 | 7' | | 744 | | 32° 32' 42.1" N 103° 05' 21.0" W |
| TP4 | 4-7-08 | 8' | | 295 | | 32° 32' 42.1" N 103° 05' 21.0" W |
| TP4 | 4-7-08 | 9' | | 2,638 | | 32° 32' 42.1" N 103° 05' 21.0" W |
| TP4 | 4-7-08 | 11' | | 17,475 | | 32° 32' 42.1" N 103° 05' 21.0" W |
| TP4 | 4-7-08 | 13' | | 4,585 | | 32° 32' 42.1" N 103° 05' 21.0" W |
| TP4 | 4-7-08 | 16' | | 239 | 19.2 | 32° 32' 42.1" N 103° 05' 21.0" W |
| TP5 | 4-4-08 | 6' | | 361 | | 32° 32' 42.0" N 103° 05' 19.9" W |
| TP5 | 4-7-08 | 7' | | 173 | 11.7 | 32° 32' 42.0" N 103° 05' 19.9" W |
| Background | 4-7-08 | Surface | | 258 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Analyst Notes**

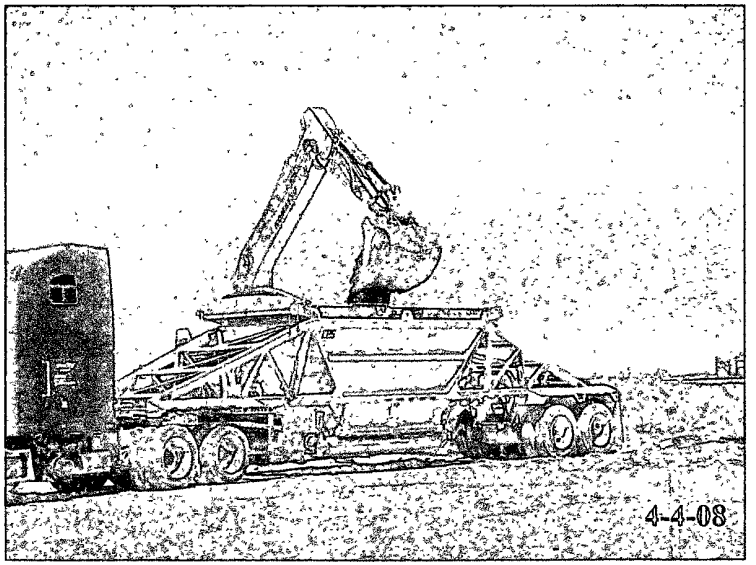
**Lewis Burleson, Inc. – T C Federal #3**



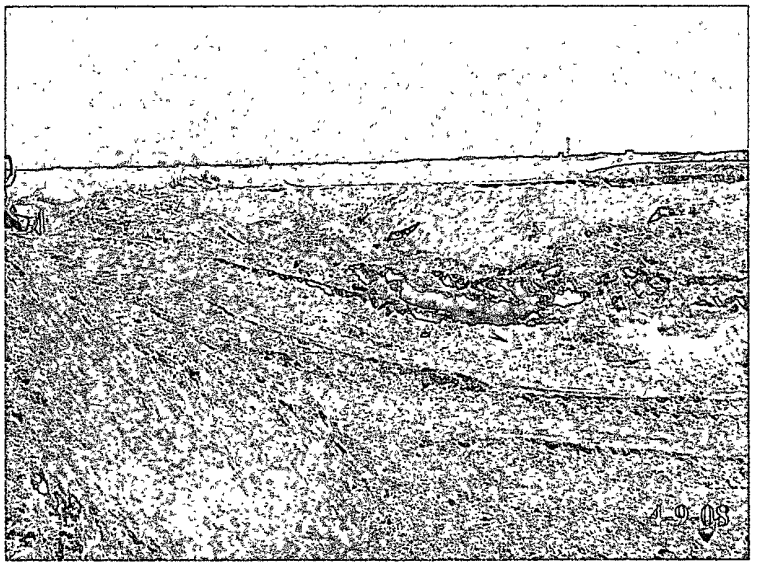

Drilling pit before closure.




Drilling pit before closure.

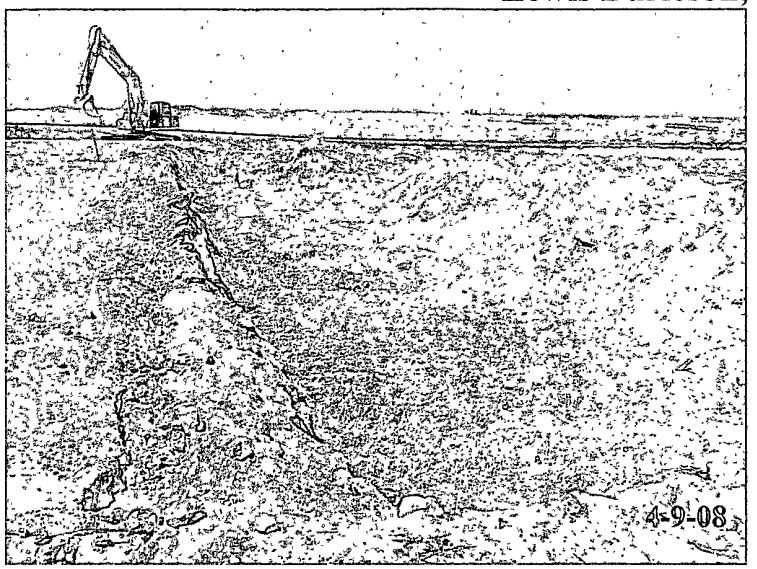



Drilling mud loaded and trucked to Sundance Disposal.

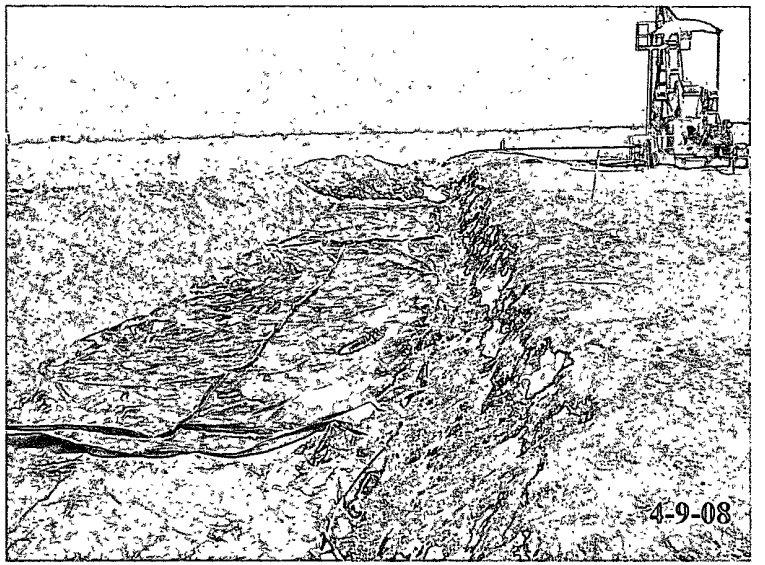



Drilling pit after all mud and liner has been removed.

**Lewis Burleson, Inc. – T C Federal #3**

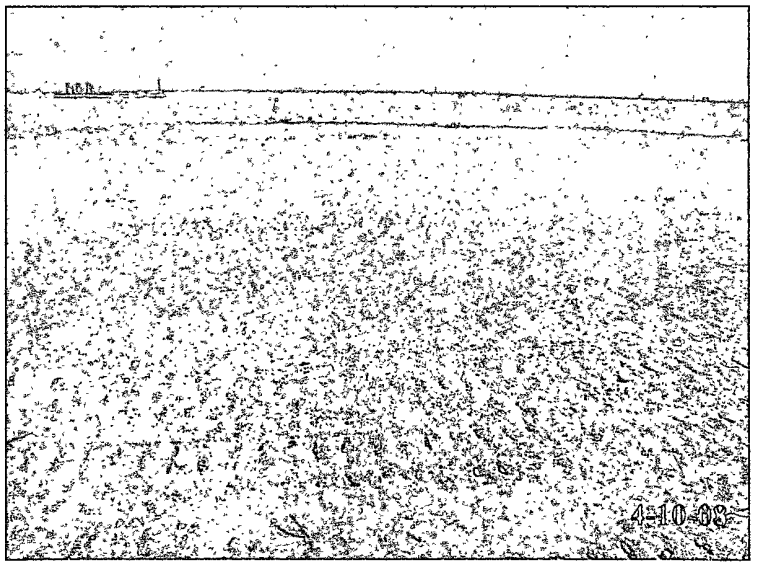


Test point 4 prepped with sand for risk based liner.



Test point 1 and 3 after installation of 20 mil cap.

Test point 4 after installation of 20 mil cap.



Site after backfill of clean native soil and contouring.

# Analytical Report 301698

## for

## Elke Environmental, Inc.

**Project Manager: Logan Anderson**

**Lewis Burleson TC Fed # 3**

**15-APR-08**

ENVIRONMENTAL LAB OF

**12600 West I-20 East Odessa, Texas 79765**

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

15-APR-08

Project Manager: **Logan Anderson**
**Elke Environmental, Inc.**
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **301698**
**Lewis Burleson TC Fed # 3**
Project Address: Lea County, NM

**Logan Anderson**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 301698. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 301698 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Brent Barron, II**
Odessa Laboratory Manager

# Sample Cross Reference 301698

## Elke Environmental, Inc., Odessa, TX

Lewis Burleson TC Fed # 3

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| TP # 1 | S | Apr-07-08 13:10 | 26 ft | 301698-001 |
| TP # 2 | S | Apr-07-08 09:48 | 7 ft | 301698-002 |
| TP # 3 | S | Apr-07-08 11:20 | 22 ft | 301698-003 |
| TP # 4 | S | Apr-07-08 14:00 | 16 ft | 301698-004 |
| TP # 5 | S | Apr-07-08 09:20 | 7 ft | 301698-005 |

# Certificate of Analysis Summary 301698

**Elke Environmental, Inc., Odessa, TX**

**Project Name: Lewis Burleson TC Fed # 3**

**Project Id:**

**Contact:** Logan Anderson

**Project Location:** Lea County, NM

**Date Received in Lab:** Mon Apr-14-08 10:49 am

**Report Date:** 15-APR-08

**Project Manager:** Brent Barron, II

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 301698-001 | | 301698-002 | | 301698-003 | | 301698-004 | | 301698-005 | |
| | *Field Id:* | TP # 1 | | TP # 2 | | TP # 3 | | TP # 4 | | TP # 5 | |
| | *Depth:* | 26 ft | | 7 ft | | 22 ft | | 16 ft | | 7 ft | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | Apr-07-08 13:10 | | Apr-07-08 09:48 | | Apr-07-08 11:20 | | Apr-07-08 14:00 | | Apr-07-08 09:20 | |
| **Chloride by SM4500-Cl- B** | *Extracted:* | | | | | | | | | | |
| | *Analyzed:* | Apr-14-08 14:40 | | Apr-14-08 14:40 | | Apr-14-08 14:40 | | Apr-14-08 14:40 | | Apr-14-08 14:40 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 297.8 | 0.1000 | 21.27 | 0.1000 | 63.81 | 0.1000 | 117.0 | 0.1000 | 42.54 | 0.1000 |
| **Percent Moisture** | *Extracted:* | | | | | | | | | | |
| | *Analyzed:* | Apr-14-08 16:30 | | Apr-14-08 16:30 | | Apr-14-08 16:30 | | Apr-14-08 16:30 | | Apr-14-08 16:30 | |
| | *Units/RL:* | % | RL | % | RL | % | RL | % | RL | % | RL |
| Percent Moisture | | 7.84 | 1.00 | 2.01 | 1.00 | 5.88 | 1.00 | 6.57 | 1.00 | 7.36 | 1.00 |
| **TPH By SW8015 Mod** | *Extracted:* | Apr-14-08 14:10 | | Apr-14-08 14:10 | | Apr-14-08 14:10 | | Apr-14-08 14:10 | | Apr-14-08 14:10 | |
| | *Analyzed:* | Apr-14-08 15:03 | | Apr-14-08 15:37 | | Apr-14-08 16:02 | | Apr-15-08 08:39 | | Apr-14-08 16:53 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| C6-C12 Gasoline Range Hydrocarbons | | ND | 16.3 | ND | 15.3 | ND | 15.9 | ND | 16.1 | ND | 16.2 |
| C12-C28 Diesel Range Hydrocarbons | | ND | 16.3 | ND | 15.3 | ND | 15 9 | ND | 16.1 | ND | 16.2 |
| C28-C35 Oil Range Hydrocarbons | | ND | 16.3 | ND | 15.3 | ND | 15.9 | ND | 16.1 | ND | 16.2 |
| Total TPH | | ND | | ND | | ND | | ND | | ND | |





Brent Barron
Odessa Laboratory Director

XENCO Laboratories

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

# Form 2 - Surrogate Recoveries

**Project Name: Lewis Burleson TC Fed # 3**

**Work Order #:** 301698 **Project ID:**

**Lab Batch #:** 719955 **Sample:** 301698-001 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 110 | 100 | 110 | 70-135 | |
| o-Terphenyl | 63.5 | 50.0 | 127 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 301698-002 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | 100 | 102 | 70-135 | |
| o-Terphenyl | 57.2 | 50.0 | 114 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 301698-002 S / MS **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 106 | 100 | 106 | 70-135 | |
| o-Terphenyl | 53.5 | 50.0 | 107 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 301698-002 SD / MSD **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | 100 | 101 | 70-135 | |
| o-Terphenyl | 50.6 | 50.0 | 101 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 301698-003 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 104 | 100 | 104 | 70-135 | |
| o-Terphenyl | 59.5 | 50.0 | 119 | 70-135 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

**Project Name: Lewis Burleson TC Fed # 3**

**Work Order #:** 301698 **Project ID:**

**Lab Batch #:** 719955 **Sample:** 301698-004 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 107 | 100 | 107 | 70-135 | |
| o-Terphenyl | 60.5 | 50.0 | 121 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 301698-005 / SMP **Batch:** 1 **Matrix:** Soil

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | 100 | 100 | 70-135 | |
| o-Terphenyl | 57.8 | 50.0 | 116 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 507461-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 91.2 | 100 | 91 | 70-135 | |
| o-Terphenyl | 46.9 | 50.0 | 94 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 507461-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 94.6 | 100 | 95 | 70-135 | |
| o-Terphenyl | 54.6 | 50.0 | 109 | 70-135 | |

**Lab Batch #:** 719955 **Sample:** 507461-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

**Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | SURROGATE RECOVERY STUDY<br>Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|---|---|---|---|---|---|
| 1-Chlorooctane | 96.7 | 100 | 97 | 70-135 | |
| o-Terphenyl | 50.2 | 50.0 | 100 | 70-135 | |

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

# Blank Spike Recovery

## Project Name: Lewis Burleson TC Fed # 3

**Work Order #:** 301698 **Project ID:**

**Lab Batch #:** 719852 **Sample:** 719852-1-BKS **Matrix:** Solid

**Date Analyzed:** 04/14/2008 **Date Prepared:** 04/14/2008 **Analyst:** IRO

**Reporting Units:** mg/kg **Batch #:** 1

| | | BLANK /BLANK SPIKE RECOVERY STUDY | | | | |
|---|---|---|---|---|---|---|
| **Chloride by SM4500-CI- B**<br>**Analytes** | **Blank Result [A]** | **Spike Added [B]** | **Blank Spike Result [C]** | **Blank Spike %R [D]** | **Control Limits %R** | **Flags** |
| Chloride | ND | 100.0 | 87.21 | 87 | 70-125 | |

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

# BS / BSD Recoveries

## Project Name: Lewis Burleson TC Fed # 3

**Work Order #:** 301698
**Analyst:** ASA
**Lab Batch ID:** 719955
**Sample:** 507461-1-BKS
**Units:** mg/kg

**Date Prepared:** 04/14/2008
**Batch #:** 1

**Project ID:**
**Date Analyzed:** 04/14/2008
**Matrix:** Solid

| TPH By SW8015 Mod<br>Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Spike Added [E] | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1000 | 797 | 80 | 1000 | 846 | 85 | 6 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1000 | 866 | 87 | 1000 | 924 | 92 | 6 | 70-135 | 35 | |

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

# Form 3 - MS / MSD Recoveries

## Project Name: Lewis Burleson TC Fed # 3

**Work Order # :** 301698 **Project ID:**

**Lab Batch ID:** 719852 **QC- Sample ID:** 301698-001 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04/14/2008 **Date Prepared:** 04/14/2008 **Analyst:** IRO

**Reporting Units:** mg/kg

| Chloride by SM4500-CI- B<br>Analytes | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Chloride | 297.8 | 2000 | 2233 | 97 | 2000 | 2233 | 97 | 0 | 70-125 | 25 | |

**Lab Batch ID:** 719955 **QC- Sample ID:** 301698-002 S **Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 04/14/2008 **Date Prepared:** 04/14/2008 **Analyst:** ASA

**Reporting Units:** mg/kg

| TPH By SW8015 Mod<br>Analytes | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | Spiked Sample %R [D] | Spike Added [E] | Duplicate Spiked Sample Result [F] | Spiked Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1020 | 929 | 91 | 1020 | 892 | 87 | 4 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1020 | 1030 | 101 | 1020 | 989 | 97 | 4 | 70-135 | 35 | |

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

# Sample Duplicate Recovery

## Project Name: Lewis Burleson TC Fed # 3

**Work Order #:** 301698

**Lab Batch #:** 719905 **Project ID:**

**Date Analyzed:** 04/14/2008 **Date Prepared:** 04/14/2008 **Analyst:** RBA

**QC- Sample ID:** 301698-001 D **Batch #:** 1 **Matrix:** Soil

**Reporting Units:** %

| Percent Moisture<br>Analyte | SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | |
|---|---|---|---|---|---|
| | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Percent Moisture | 7.84 | 8.01 | 2 | 20 | |

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

# Environmental Lab of Texas

A Xenco Laboratories Company

*CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST*

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Logan Anderson
Company Name: Elke Environmental
Company Address: P O Box 14167
City/State/Zip: Odessa, TX 79768
Telephone No. 432-366-0043 Fax No. 432-366-0684
Sampler Signature: Logan Anderson e-mail: la_elkeenv@yahoo.com

Project Name: Lewis, Burleson TC Fed #3
Project #:
Project Loc: Lea County NM
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 30160

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total # of Containers | Preservation & # of Containers: GW | HNO3 | HCl | H2SO4 | NaOH | Na2S2O3 | None | Other (Specify) | Matrix: Drinking Water / GW = Groundwater / S=Soil/Solid / NP=Non-Potable / Specify Other | Analyze For: TCLP: 8015M | TPH: 418.1 / TPH: TX 1005 | TPH: TX 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, Alkalinity) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | (RUSH TAT Pre-Scheduled) 24, 72 hrs | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | TP #1 | | 32' | 4-8-07 | 1:10 pm | | 1 | X | | | | | | | | S | X | | | X | | | | | | | | | X | X |
| 02 | TP #2 | | 7' | 4-8-07 | 9:48 AM | | 1 | X | | | | | | | | S | X | | | X | | | | | | | | | X | X |
| 03 | TP #3 | | 22' | 4-8-07 | 11:30 AM | | 1 | X | | | | | | | | S | X | | | X | | | | | | | | | X | X |
| 04 | TP #4 | | 16' | 4-8-07 | 2:00 pm | | 1 | X | | | | | | | | S | X | | | X | | | | | | | | | X | X |
| 05 | TP #5 | | 7' | 4-8-07 | 9:20 AM | | 1 | X | | | | | | | | S | X | | | X | | | | | | | | | X | X |

Special Instructions:

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| Logan Anderson | 4-11-08 | 10:49 | | | |
| Relinquished by | Date | Time | Received by | Date | Time |
| Relinquished by | Date | Time | Received by ELOT | Date | Time |
| | | | Andrea Sosa | 4/14/08 | 10:49 |

Laboratory Comments:

| | |
|---|---|
| Sample Containers Intact? | N |
| VOCs Free of Headspace? | N |
| Labels on container(s) | N |
| Custody seals on container(s) | N |
| Custody seals on cooler(s) | N |
| Sample Hand Delivered by Sampler/Client Rep ? | N |
| by Courier? UPS DHL FedEx Lone Star | |

Temperature Upon Receipt: 2.5 °C

# Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env

Date/ Time: 4.14.08 10:49

Lab ID # : 30698

Initials: AL

## Sample Receipt Checklist

| | | | | | Client Initials |
|---|---|---|---|---|---|
| #1 | Temperature of container/ cooler? | (Yes) | No | -7.5 °C | |
| #2 | Shipping container in good condition? | (Yes) | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | (Not Present) | |
| #4 | Custody Seals intact on sample bottles/ container? | (Yes) | No | Not Present | |
| #5 | Chain of Custody present? | (Yes) | No | | |
| #6 | Sample Instructions complete of Chain of Custody? | (Yes) | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | (Yes) | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | (Yes) | No | ID written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | (Yes) | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | (Yes) | No | | |
| #11 | Containers supplied by ELOT? | (Yes) | No | | |
| #12 | Samples in proper container/ bottle? | (Yes) | No | See Below | |
| #13 | Samples properly preserved? | (Yes) | No | See Below | |
| #14 | Sample bottles intact? | (Yes) | No | | |
| #15 | Preservations documented on Chain of Custody? | (Yes) | No | | |
| #16 | Containers documented on Chain of Custody? | (Yes) | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | (Yes) | No | See Below | |
| #18 | All samples received within sufficient hold time? | (Yes) | No | See Below | |
| #19 | Subcontract of sample(s)? | Yes | No | (Not Applicable) | |
| #20 | VOC samples have zero headspace? | (Yes) | No | Not Applicable | |

## Variance Documentation

Contact: Jason Contacted by: Cindrea Date/ Time: 4.14.08/ 2:36

Regarding: Sample date on COC states 4.8.07. containers state 4.7.08. Per phone call w/ Jason

Corrective Action Taken:

Samples were taken 4.7.08

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

**For drilling and production facilities**, submit to appropriate NMOCD District Office.
**For downstream facilities**, submit to Santa Fe office

# Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Lewis Burleson, Inc. Telephone: 432-683-4747 e-mail address: la_elkeenv@yahoo com
Address: 200 N Loraine Suite 600 Midland, TX 79701
Facility or well name: T C Federal #3 API #: 30-025-38504 ( U/L or Qtr/Qtr N Sec 30 T 20S R 39E
County: Lea Latitude Longitude NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

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| Pit | Below-grade tank | |
|---|---|---|
| Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐<br>Lined ☒ Unlined ☐<br>Liner type: Synthetic ☒ Thickness 12 mil Clay ☐<br>Pit Volume 20000 bbl | Volume: ____ bbl Type of fluid: ____<br>Construction material. ____<br>Double-walled, with leak detection? Yes ☐ If not, explain why not. ____ | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water ) | Less than 50 feet<br>50 feet or more, but less than 100 feet<br>100 feet or more | (20 points)<br>(10 points) XXXX<br>( 0 points) |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources ) | Yes<br>No | (20 points)<br>( 0 points) XXXX |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet<br>200 feet or more, but less than 1000 feet<br>1000 feet or more | (20 points)<br>(10 points)<br>( 0 points) XXXX |
| | **Ranking Score (Total Points)** | **10 points** |

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Sundance Disposal. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ____ ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excavations

Additional Comments: All excess drilling fluid will be removed All drilling mud and liner will be excavated and hauled to Sundance Disposal. After all drilling mud and liner has been removed the drilling pit will be backfilled with clean native soil and contoured to the surrounding area. TEST SOILS UNDER PIT.

NMOCD Hobbs will be notified 48 hrs. before start of job.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date. 4-1-08
Printed Name/Title Logan Anderson - Agent Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval.
Printed Name/Title CHRIS WILLIAMS / DIST. Signature Chris Williams Date: 4/3/08