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340

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# **REPORTS**

**DATE:**

2004

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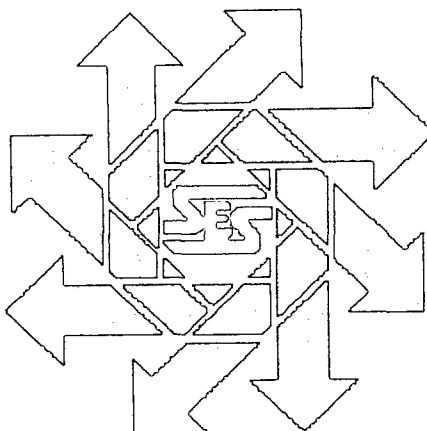
**RECEIVED**

FEB 27 2004

Oil Conservation Division  
1220 S. Saint Francis Drive  
Santa Fe, NM 87505

**ChevronTexaco  
CDU Tract 19  
Closure Report  
Section 29, Township 21S, Range 37S  
Lea County, New Mexico**

**February 23, 2004**



***Prepared for:***

**ChevronTexaco  
P.O. Box 1949  
Eunice, New Mexico 88231**

***By:***

***Safety & Environmental Solutions, Inc.  
703 E. Clinton Suite 103  
Hobbs, New Mexico 88240  
(505) 397-0510***

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**I. Background**

Safety & Environmental Solutions, Inc. (SESI) was contracted by ChevronTexaco to perform assessment and cleanup services on an area identified as the CDU Tract 19 Site. The site is located in Unit J, Section 29, T21S, R37E in Lea County, New Mexico. The subject site is a suspected pit area, which has been used for various purposes by previous owners since the late 1940s. The site is situated on a relatively level site.

**II. Contaminant and Size of Area**

The suspected contaminant is crude oil and produced water associated with the tank battery at the site. The approximate size of the total fenced area surrounding the pit is 53,000 sq. ft. The estimated square footage of hydrocarbon and produced water contamination is approximately 8,500 sq. ft. No evidence of other contaminants was observed.

**III. Surface and Ground Water**

SESI has installed four groundwater monitor wells at the site. The depth of water in these wells on December 31, 2003 range from 92.78 to 94.8 feet.

**IV. Soils**

The soils in the area are predominantly sand and sandy loam.

**V. Work Performed**

**Sampling & Measuring of Existing Monitor Wells**

On December 31, 2003 SESI took top of water measurements and sampled all four existing monitor wells. The measurements are as follows:

Well Name	TOC Elevation (ft.)	Date	Depth to Water (ft.)	Water Level Elevation (ft.)
MW - 1	3,468.72	12/31/04	92.78	3,375.94
MW - 2	3,469.91	12/31/04	93.62	3,376.29
MW - 3	3,470.85	12/31/04	94.80	3,376.05
MW - 4	3,469.03	12/31/04	92.42	3,376.61

SESI prepared water level contour maps using the Plat of Location provided by Pettigrew and Associates on July 9, 2003 and the water level elevations. Copies of the water level contour maps are found in Figure 2. The direction of the groundwater flow is from the northwest to the southeast beneath the subject site. The groundwater flow direction has not changed from the previous map dated April 17, 2003.

Monitor Well # 1 was purged with a hand bailer removing approximately 5 gallons of water. SESI retrieved groundwater samples after purging the well.

Monitor Well # 2 was purged with a hand bailer removing approximately 4.5 gallons of water. SESI retrieved groundwater samples after purging the well.

Monitor Well # 3 was purged with a hand bailer removing approximately 4 gallons of water. SESI retrieved groundwater samples after purging the well.

Monitor Well # 4 was purged with a hand bailer removing approximately 4 gallons of water. SESI retrieved groundwater samples after purging the well.

All four samples were sent under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for BTEX (EPA Method SW-846-8021B, 5030B) and Major Cations & Anions. The results of the analysis are as follows:

DATE	SAMPLE ID	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES
12/31/04	MW#1	<0.002	<0.002	<0.002	<0.006
12/31/04	MW#2	<0.002	<0.002	<0.002	<0.006
12/31/04	MW#3	<0.002	<0.002	<0.002	<0.006
12/31/04	MW#4	<0.002	<0.002	<0.002	<0.006

DATE	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
12/31/04	MW#1	566	135	135	9.64	6840	120
12/31/04	MW#2	351	205	205	6.56	4336	147
12/31/04	MW#3	110	67	67	2.95	1586	244
12/31/04	MW#4	238	146	146	5.29	3057	147

DATE	SAMPLE ID	Cl (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
12/31/04	MW#1	1919	121	0	146	7.03	4188
12/31/04	MW#2	1100	212	0	180	7.41	2504
12/31/04	MW#3	260	66	0	297	7.57	980
12/31/04	MW#4	700	193	0	180	7.63	1827

\* Red exceeds NM WQCC Groundwater Standards

### Closure

The site was excavated both horizontally and vertically for the removal of all highly contaminated and/ or saturated soils. Highly contaminated and/or saturated soils is defined in the, New Mexico Oil Conservation Division's *'Unlined Surface Impoundment Closure Guidelines'*, February 1993 in Section III (A) (1.) and for the purposes of this site is considered to be soils with THP levels above 25,000 ppm.

The site was excavated to a depth of 8 feet in most area and up 15 feet in others. Approximately 1,780 cubic yards was transported to the ChevronTexaco landfarm near Jal, New Mexico for remediation. Clean soils were excavated and stockpile on site to facilitate liner installation and later used as backfill. Upon completion of the excavation,

Mr. Larry Johnson of the Hobbs District Office of the NMOCD visited the site to observe the final elevations and conditions of the excavation.

Grab samples were retrieved from the bottom of the excavation at the final depths. The samples were sent under chain of custody to Cardinal Laboratories for analysis. The samples were analyzed for TPH (EPA Method 418.1) BTEX, (EPA Method SW-846 8260, and Chlorides (EPA Method 4500-Cl<sup>-</sup>B). The results of the analysis are as follows:

DATE	SAMPLE ID	TPH	Cl <sup>-</sup>	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
1/16/04	#1	464	18700	<0.005	0.014	0.154	0.306
1/16/04	#2	272	18000	0.018	0.015	0.506	0.737
1/16/04	#3	96	21500	<0.005	<0.005	0.014	0.025
1/16/04	#4	96	16500	<0.005	0.039	0.493	1.29
1/16/04	#5	96	47500	0.006	0.006	0.083	1.12
1/16/04	#6	240	8850	<0.005	0.005	<0.005	<0.015

See Figure 3 for sample locations

The deep parts of the excavation were backfilled with the stockpiled soils that were removed from the excavation and an 18 inch layer of sand was placed in the bottom of the entire excavation as a cushion on which the liner will be installed. The bottom of the excavation was domed in the center to facilitate drainage.

The domed area was divided into four sections and five point composite samples were retrieved from each section. The samples were sent under chain of custody to Cardinal Laboratories for analysis. The samples were analyzed for TPH (EPA Method 418.1) BTEX, (EPA Method SW-846 8260, and Chlorides (EPA Method 4500-Cl<sup>-</sup>B). The results of the analysis are as follows:

DATE	SAMPLE ID	TPH	Cl <sup>-</sup>	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
1/20/04	Section A	6720	144	<0.005	<0.005	<0.005	<0.015
1/20/04	Section B	14200	208	<0.005	<0.005	0.026	0.072
1/20/04	Section C	6600	224	<0.005	<0.005	0.018	0.032
1/20/04	Section D	4180	128	<0.005	<0.005	<0.005	<0.015

See Figure 3 for sample locations

A 40-millimeter plastic liner measuring 110 X 110 feet was installed in the bottom of the convex floor of the excavation in a manner so that any downward infiltrating water will be diverted to the side edges of the liner. This type of installation will prevent ponding of water on top of the liner and minimize any downward migration of water due to inadvertent puncturing of the liner. The top of the liner is approximately 6 feet below the surface of the area.

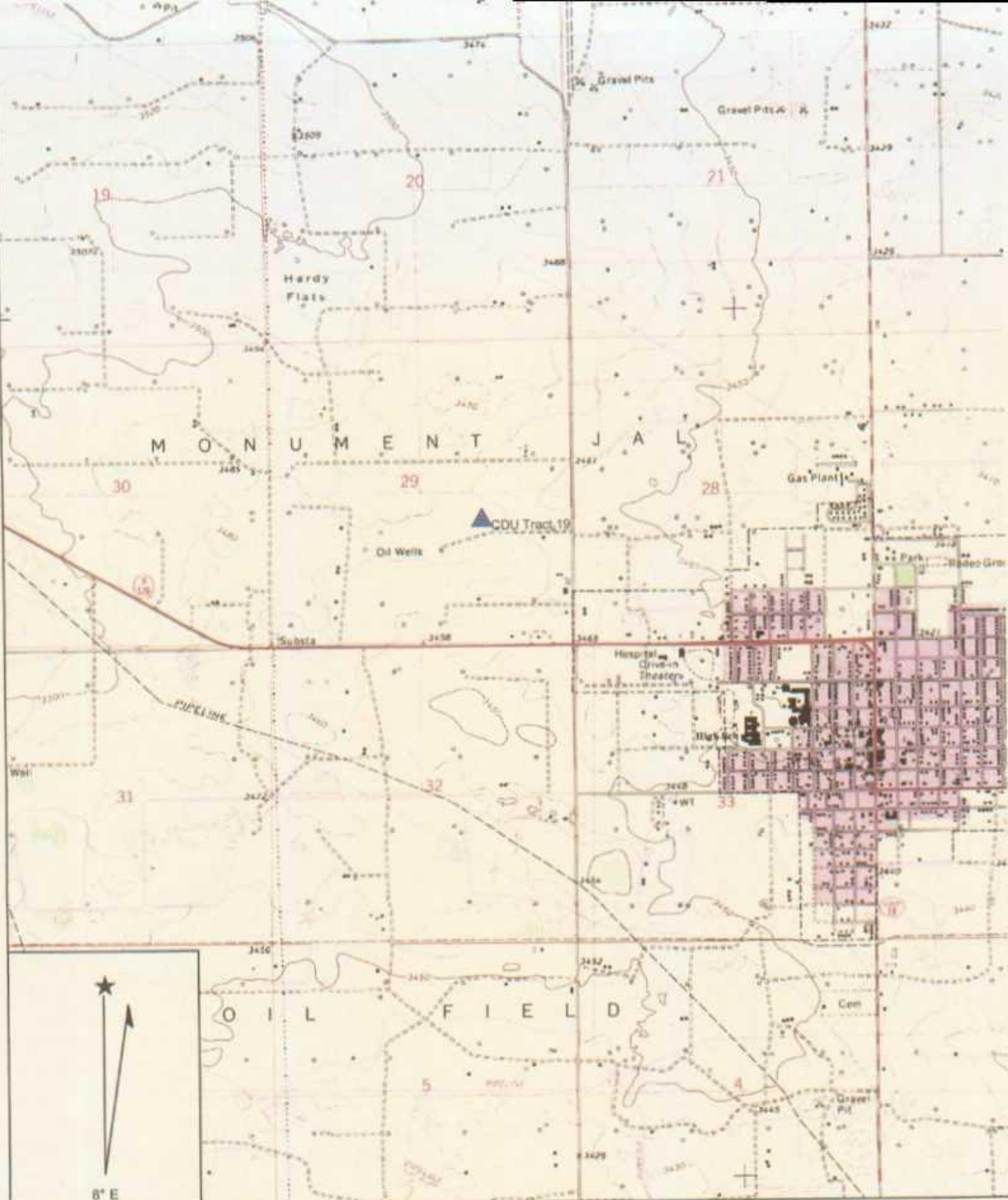
Approximately 440 yards of caliche and 636 yards of sand were transported from off site and used to backfill the excavation. Approximately 18 inches of sand was placed immediately on top of the liner as a cushion. The caliche was placed on top of the sand and compacted. The liner and placement of clean backfill will greatly minimize if not eliminate human exposure to organic constituents from any of the exposure pathways listed in the Site Investigation. The surface was returned to its natural contour and will be seeded.

**VI. Figures & Appendices**

Figure 1 - Vicinity Map  
Figure 2 - Water Level Contour Map  
Figure 3 - Site Plan  
Appendix A - Digging Permit  
Appendix B - Certificate of Waste Status  
Appendix C - Pit Run Tickets  
Appendix D - Analytical Results  
Appendix E - Site Photos

**Figure 1**  
**Vicinity Map**





Name: EUNICE  
 Date: 2/24/2004  
 Scale: 1 inch equals 2222 feet

Location: 032° 26' 41.0" N 103° 10' 46.8" W  
 Caption: ChevronTexaco  
 S29, T21S, R37E  
 Lea County, New Mexico

**Figure 2  
Water Level Contour Map**

Water Level Map  
CDU-19  
12/31/03

3776.6  
MONITOR  
WELL #1  
LAT=32°26'57.96018"N  
LONG=103°10'51.59403"W  
N=529153.007  
E=896804.429  
TOP OF CASING  
ELEV=3469.03

3776.5  
4 STRAND BARB WIRE  
3776.25

3776.3  
MONITOR  
WELL #2  
LAT=32°26'56.85953"N  
LONG=103°10'50.75958"W  
N=529042.514  
E=896877.137  
TOP OF CASING  
ELEV=3469.91

3776.2  
3 STRAND BARB WIRE  
CONTROL  
POINT #1  
SET 5/8" REBAR  
LAT=32°26'55.25118"N  
LONG=103°10'51.51022"W  
N=528879.275  
E=896814.567  
ELEV=3469.55

3776.1

MONITOR  
WELL #1  
LAT=32°26'55.08864"N  
LONG=103°10'51.71788"W  
N=528864.507  
E=896968.336  
TOP OF CASING  
ELEV=3468.72

3776.05  
MONITOR  
WELL #3  
LAT=32°26'55.04803"N  
LONG=103°10'51.67613"W  
N=528858.591  
E=896800.571  
TOP OF CASING  
ELEV=3470.85

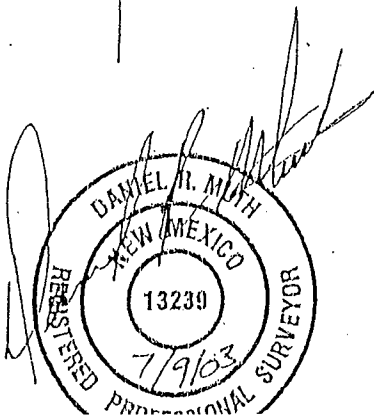
3776

3775.94

4 STRAND BARB WIRE



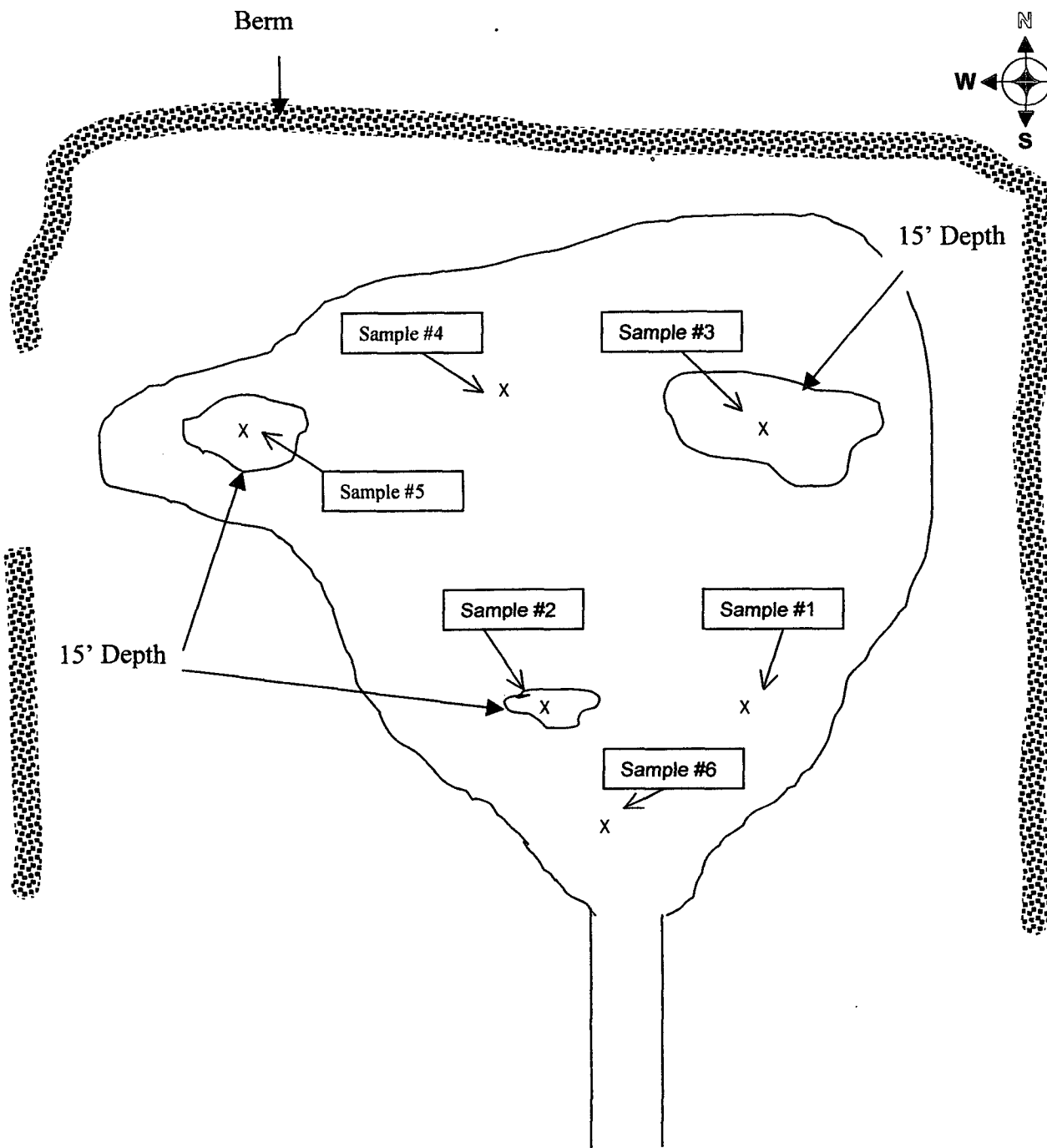
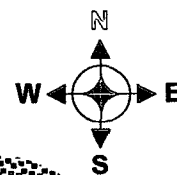
TANKS



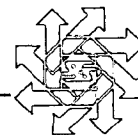
TANKS



**Figure 3**  
**Site Plan**



Not to Scale

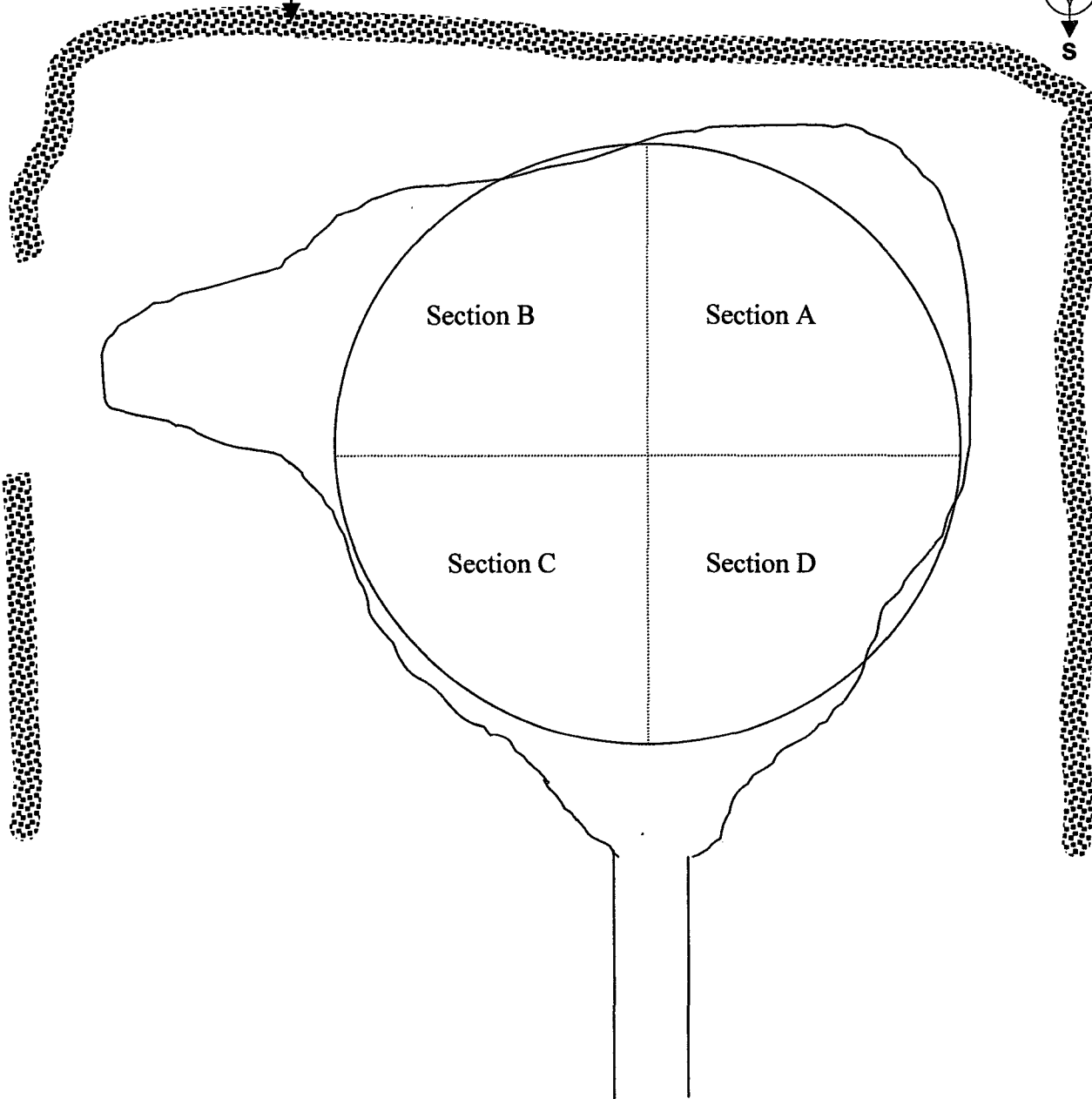
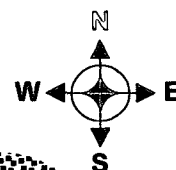


Chevron Texaco

CDU Tract 19  
Sec. 29, T21S, R37E  
Lea County, New Mexico

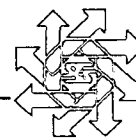
**Safety & Environmental  
Solutions, Inc.**

Berm



Fence

Not to Scale



Chevron Texaco

CDU Tract 19  
Sec. 29, T21S, R37E  
Lea County, New Mexico

**Safety & Environmental  
Solutions, Inc.**

## Appendix A Digging Permit



## WEST ASSET TEAM / DIGGING PERMIT

## PERMIT FOR DIGGING, TRENCHING, OR EXCAVATING WITH ANY TYPE OF POWERED TOOL OR MECHANIZED EQUIPMENT

Supervisor: R.W. MasseyDate Authorized: 1/13/2004Field Location: CDU TRASH 19Type Work: EXCAVATION

Specific Restrictions: \_\_\_\_\_

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

Mechanical digging equipment should not be used within 12" of an underground line.

## PERMIT REQUIREMENTS:

## Basic Precautions:

- |   | Yes      | No       | N/A      |
|---|----------|----------|----------|
| 1. Has an underground line map been reviewed? .....<br><i>Piping plan must be used when work is performed within a facility.</i>  | _____    | _____    | <u>✓</u> |
| 2. Has the person operating the digging equipment isolated the energy source and performed LOTO? .....<br><i>If electrical energy source cannot be accurately located, utilize electrical contractor with electric line locating equipment.</i> | _____    | _____    | <u>✓</u> |
| 3. Have digging operations been discussed w/ an employee familiar with the area?.....   | <u>✓</u> | _____    | _____    |
| 4. Has a metal detecting line finder been used in the area to be excavated? .....   | _____    | <u>✓</u> | _____    |
| 5. Are there any line markers near the excavation area? .....   | _____    | <u>✓</u> | _____    |
| 6. Is there a visible right-of-way where the digging will be done?.....   | _____    | <u>✓</u> | _____    |
| 7. Are there special concerns with any equipment, i.e., tank batteries, satellites, wells, buildings, power poles, etc., within 150' of the excavation area?.....   | <u>✓</u> | _____    | _____    |
| 8. Are there special concerns with overhead power lines within 100' of the excavation? .....  | _____    | <u>✓</u> | _____    |
| 9. Will digging exceed 16" in depth? .....<br><i>If yes, see Special Precaution below.</i>  | <u>✓</u> | _____    | _____    |
| 10. Have you discussed the importance of not creating a spill and what to do if one occurs?.....  | <u>✓</u> | _____    | _____    |

If contact with a line results in a release of oil and or produced water contact Chevron Representative at Emergency Phone # listed below immediately.

## Special Precaution:

If work is to be performed within a 3<sup>rd</sup> party right-of-way, location near a populated area, designated area, or if underground utilities are in the vicinity then 1-800-545-6005 (TX) or 1-800 321-2537 (NM) (One-Call Notification) **MUST** be made 48 hours in advance of any excavation work.

1. Has One-Call Notification been called? YES Date of call: 1-9-04 Time of call: 8:00
2. Permitted start date and time: 1-13-04 8:00 Estimated duration of job: 2 weeks
3. One-Call Notification confirmation # 2004-02-3310

**THIS PERMIT MUST BE COMPLETED PRIOR TO MECHANICAL DIGGING AND AVAILABLE FOR REVIEW AT THE WORKSITE.**

If contact is made with an underground line or cable, this permit will be attached to the accident report, otherwise, it should be attached to the work ticket.

R.W. Massey 390-7188  
Chevron Representative / Emergency Phone #

[Signature]  
Contractor

1/13/04  
Date



## **Appendix B**

# **Certificate of Waste Status**

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU Tract 19

Section 29 Township 21S Range 37E

Trucking Company Sweat

Drivers Signature:

Maton Lyp

Type of Material Soil

Quantity 4 loads by 20 yd dump trk = 80 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: EL

Date 1-13-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature

Jalk

Wildcat Trucking #25

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU Tract 19

Section 29 Township 21S Range 37E

Trucking Company Sweatt

Drivers Signature: [Signature]

Type of Material Soil

Quantity 4 loads by 20 yd dump trk = 80 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: [Signature]

Date 1-13-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU Tract 19

Section

29

Township

21S

Range

Q 37E

Trucking Company

Sweet

Drivers Signature:

Type of Material

Soil

Quantity

4

loads by

20

yd dump trk=

80

total yds

Cell Number material was placed in landfarm

26

Comments:

Attendant on duty signature:

VL

Date

1-13-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency.

(EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

Jill

137

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating

Location CDU Tract 19

Section 29 Township 21S Range 37E

Trucking Company Sweatt

Drivers Signature: \_\_\_\_\_

Type of Material Soil

Quantity 4 loads by 20 yd dump trk= 80 total yds

Cell Number material was placed in landfarm 20

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attendant on duty signature: KL

Date 1-13-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency.

(EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

Sweatt 144

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating

Location

CDUT 100119

Section

27

Township

21S

Range

37E

Trucking Company

Sewatt

Drivers Signature:

Joe Reyes

Type of Material

Soil

Quantity

4

loads by

20

yd dump trk=

80

total yds

Cell Number material was placed in landfarm

26

Comments:

Attendant on duty signature:

U L

Date

1-13-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

J. Allen

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU TRACT 19

Section 29 Township 21S Range 37E

Trucking Company Sweet

Drivers Signature:

B. Smith

Type of Material

Soil

Quantity 6 loads by 20 yd dump trk= 120 total yds

Cell Number material was placed in landfarm

26

Comments:

Attendant on duty signature:

KT

Date

1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency.

(EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

[Signature]

B-1 #1

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU Tract 19

Section 29 Township 21S Range 37E

Trucking Company Suena

Drivers Signature: Fernando Berrata

Type of Material Soil

Quantity 6 loads by 20 yd dump trk = 120 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: W L

Date 1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

BERRATA DUOI



ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU TRACT 19

Section

29

Township

21S

Range

37E

Trucking Company

Sweet

Drivers Signature:

*[Signature]*

Type of Material

Soil

Quantity

6

loads by

20

yd dump trk=

120

total yds

Cell Number material was placed in landfarm

26

Comments:

Attendant on duty signature:

*[Signature]*

Date

1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

*[Signature]*

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU TRACT 19

Section

29

Township

215

Range

37E

Trucking Company

Invest

Drivers Signature:

Elegy B. Pando

Type of Material

Soil

Quantity

6

loads by

20

yd dump trk=

120

total yds

Cell Number material was placed in landfarm

26

Comments:

Attendant on duty signature:

Ed

Date

1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

Pando

Pando 03

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU TRACT 19

Section 29 Township 21S Range 37E

Trucking Company SWEATH

Drivers Signature: \_\_\_\_\_

Type of Material Soil

Quantity 6 loads by 20 yd dump trk = 120 total yds

Cell Number material was placed in landfarm 2C

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attendant on duty signature: V.L.

Date 1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: J. Allen

Sweath 137

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU Tract 19

Section 29 Township 21S Range 37E

Trucking Company Svenett

Drivers Signature: \_\_\_\_\_

Type of Material Sol

Quantity 6 loads by 20 yd dump trk = 120 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: [Signature]

Date 1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

Wildcat

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating

Location CDU Tract 17

Section 29 Township 21S Range 37E

Trucking Company Sweeny

Drivers Signature: [Signature]

Type of Material Soil

Quantity 6 loads by 20 yd dump trk= 120 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: [Signature]

Date 1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

Martinez 96

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating

Location CDU TRACT 19

Section 29 Township 21S Range 37E

Trucking Company Sweath

Drivers Signature: \_\_\_\_\_

Type of Material Soil

Quantity 5 loads by 20 yd dump trk= 100 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: U L

Date 1-14-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

Sweath 144

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating

Location CDM Tract 19

Section 29 Township 21S Range 37E

Trucking Company Sweett

Drivers Signature: Fernando Segura

Type of Material Soil

Quantity 5 loads by 20 yd dump trk= 100 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: EL

Date 1-15-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

Sweett 139

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating

Location

CD4 Tract 19

Section

29

Township

21S

Range

37E

Trucking Company

Sweet

Drivers Signature:

Type of Material

Soil

Quantity

5

loads by

20

yd dump trk=

100

total yds

Cell Number material was placed in landfarm

26

Comments:

Attendant on duty signature:

[Signature]

Date

1-15-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency.

(EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

[Signature]

Sweet 1144



ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDUTraefn

Section 29 Township 21S Range 37E

Trucking Company Sweatt

Drivers Signature:

Joe Rye

Type of Material

Soil

Quantity 4 loads by 20 yd dump trk= 80 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature:

V-L

Date

1-15-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

Martinez

Martinez

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating

Location CDU TRACT 19

Section 29 Township 21S Range 37E

Trucking Company Sevens

Drivers Signature: \_\_\_\_\_

Type of Material Sand

Quantity 4 loads by 20 yd dump trk = 80 total yds

Cell Number material was placed in landfarm 26

Comments:

Attendant on duty signature: K L

Date 1-15-00

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature: [Signature]

Weldcat

ChevronTexaco Land Farm  
Certificate of Waste Status

Originating  
Location

CDU Tract 19

Section 29 Township 21S Range 37E

Trucking Company SWEAT

Drivers Signature:

Albert M. Muf

Type of Material

Soil

Quantity 4 loads by 20 yd dump trk= 80 total yds

Cell Number material was placed in landfarm

26

Comments:

Attendant on duty signature:

VL

Date

1-15-04

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"

Signature:

[Signature]

Martinez 1293

## **Appendix C**

### **Pit Run Tickets**

# PIT RUN TICKET

Company Name & Address Aurora

SAND

Date 1-30-04

TRUCK NO. 101 YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS

X	X	X	X	X	X	/													

Driver's Signature Michael Mayo Total Loads 13 Total YDS 156

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address Sweatt

Cariche

Date 1-30-04

TRUCK NO. 101 YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS

TRAVEL

X	X	X	X	/															

Driver's Signature Matt Mayo Total Loads 9 Total YDS 108

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address SWEATH

Date 1-30-04

BLOW SAND

TRUCK NO. 88

YARDS PER LOAD 12

/ = 1 LOAD X=2 LOADS

A. Martinez

X	X	X	X	X	X	X													

Driver's Signature Joe Lopez

Total Loads 13

Total YDS 156

## PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_

/ = 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_

Total Loads \_\_\_\_\_

Total YDS \_\_\_\_\_

## PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_

/ = 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_

Total Loads \_\_\_\_\_

Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address Sweet

Date 1-30-04 CAliche

TRUCK NO. 68 YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS

A. Martin

X	X	X	X	X															

Driver's Signature Joe Reyes Total Loads 10 Total YDS 120

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_  
TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_  
TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_



# PIT RUN TICKET

Company Name & Address

## Sweat construction

Date JAN-30-04 TANKA SAND

TRUCK NO: 1011 YARDS PER LOAD

12

/= 1 LOAD    X=2 LOADS

Driver's Signature

1. Mary Loger

Total Loads 13

Total YDS 156

# PIT RUN TICKET

Company Name & Address

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_

/= 1 LOAD    X=2 LOADS

[illegible]

Driver's Signature

Mary Lopez

### Total Loads

12

Total YDS

# PIT RUN TICKET

Company Name & Address

Date \_\_\_\_\_

TRUCK NO.	YARDS PER LOAD
1	10
2	10
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
11	10
12	10
13	10
14	10
15	10
16	10
17	10
18	10
19	10
20	10
21	10
22	10
23	10
24	10
25	10
26	10
27	10
28	10
29	10
30	10
31	10
32	10
33	10
34	10
35	10
36	10
37	10
38	10
39	10
40	10
41	10
42	10
43	10
44	10
45	10
46	10
47	10
48	10
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72	10
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75	10
76	10
77	10
78	10
79	10
80	10
81	10
82	10
83	10
84	10
85	10
86	10
87	10
88	10
89	10
90	10
91	10
92	10
93	10
94	10
95	10
96	10
97	10
98	10
99	10
100	10

$\gamma = 1$  LOAD     $X = 2$  LOADS

[illegible]

Driver's Signature

### Total Loads

Total YDS

# PIT RUN TICKET

Company Name & Address SWEAT construction

Date JAN 30-04 CALICO

TRUCK NO. TANKA YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS

X	X	X	X	X															

Driver's Signature Harry Lopez Total Loads 9 Total YDS 108

# PIT RUN TICKET

Company Name & Address C.K.D. TRUCKING

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date 1-30-04

SAND

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS

X	X	X	X	X	X	X													

Driver's Signature Clinton Dooly Total Loads 14 Total YDS 168

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address Sweet's

Date 1-30-04

Carlisle

TRUCK NO. 1 YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS

CKD

X	X	X	X	X										

Driver's Signature Colton Dooley Total Loads 9 Total YDS 108

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address Sweet

Date 2-2-06

Sand

TRUCK NO. TWO YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS

TANK

X	X	X	X	X	X	X	X	X	X										

Driver's Signature Hanny Lopez Total Loads 24 Total YDS 288

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

Caliche

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature Hanny Lopez Total Loads 1 Total YDS 12

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address Swealt

Date 2-2-04

Date 2-2-04  
TRUCK NO. 1 YARDS PER LOAD 12 / = 1 LOAD X=2 LOADS

[illegible]

Driver's Signature J.C. Dorely Total Loads 24 Total YDS 208

PIT RUN TICKET

Company Name & Address Lewett

Date 2-2-04

Date 2-2-04 CALICHE  
TRUCK NO. 1 YARDS PER LOAD 1 / = 1 LOAD X = 2 LOADS

[illegible]

Driver's Signature J. C. Dooley Total Loads 1 Total YDS 12

## PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ / = 1 LOAD X=2 LOADS

[illegible]

Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

# PIT RUN TICKET

Company Name & Address Sweet

Date 2-2-04

Sand

TRUCK NO. 101 YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS

X	X	X	X	X	X	X	X	X	X	X			

Driver's Signature Michael Mayo Total Loads 24 Total YDS 288

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

Calchi

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature Michael Mayo Total Loads 1 Total YDS 12

# PIT RUN TICKET

Company Name & Address \_\_\_\_\_

Date \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ YARDS PER LOAD \_\_\_\_\_ /= 1 LOAD X=2 LOADS


Driver's Signature \_\_\_\_\_ Total Loads \_\_\_\_\_ Total YDS \_\_\_\_\_

Sweat

Bieu Sang

TRUCK NO. 28

TRUCK NO. 88 YARDS PER LOAD 12

$\gamma = 1$  LOAD     $X=2$  LOADS

A. Martinez

Driver's Signature

John Reynolds

## Total Loads

Total YDS

244

## CACiche

Date

TRUCK NO.

YARDS PER LOAD

$\gamma = 1$  LOAD     $X = 2$  LOADS

[illegible]

Driver's Signature

re Jose Reyes

### Total Loads

Total YDS

12

Company Name & Address

Date \_\_\_\_\_

TRUCK NO.

YARDS PER LOAD

$I=1$  LOAD     $X=2$  LOADS

[illegible]

Driver's Signature

## Total Loads

Total YDS



## Appendix D

# Analytical Results



# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

## ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

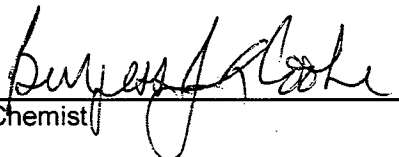
ATTN: BOB ALLEN  
703 E. CLINTON, #103  
HOBBS, NM 88240  
FAX TO: (505) 393-4388

Receiving Date: 12/31/03  
Reporting Date: 01/05/04  
Project Number: CHE-01-003  
Project Name: CDU TRACT 19 (CHEVRON)  
Project Location: EUNICE, NM

Sampling Date: 12/31/03  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		01/02/04	01/02/04	01/02/04	01/02/04
H8309-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H8309-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H8309-3	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
H8309-4	MONITOR WELL #4	<0.002	<0.002	<0.002	<0.006
Quality Control		0.098	0.101	0.100	0.311
True Value QC		0.100	0.100	0.100	0.300
% Recovery		98.4	101	99.5	104.0
Relative Percent Difference		5.9	2.9	4.8	2.1

METHOD: EPA SW-846 8260

  
Chemist

1/5/03  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H8309B.XLS



# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

## ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN  
703 E. CLINTON #103  
HOBBS, NM 88240  
FAX TO: (505) 393-4388

Receiving Date: 12/31/03  
Reporting Date: 01/06/04  
Project Number: CHE 01-003  
Project Name: CDU TRACT 19 (CHEVRON)  
Project Location: EUNICE, NM

Sampling Date: 12/31/03  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
------------	-----------	--------------	--------------	--------------	-------------	-------------------------------	--

ANALYSIS DATE:		01/05/04	01/05/04	01/05/04	01/05/04	01/05/04	01/05/04
H8309-1	MW #1	566	460	135	9.64	6840	120
H8309-2	MW #2	351	121	205	6.56	4336	147
H8309-3	MW #3	110	64	67	2.95	1586	244
H8309-4	MW #4	238	84	146	5.29	3057	147
Quality Control		NR	56	59	5.17	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	112	118	103	93.6	NR
Relative Percent Difference		NR	0	0	1	0.7	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
--	---------------------------	---------------------------	---------------------------	----------------------------	--------------	---------------

ANALYSIS DATE:		01/05/04	01/05/04	01/05/04	01/05/04	01/06/04
H8309-1	MW #1	1919	121	0	146	7.03
H8309-2	MW #2	1100	212	0	180	7.41
H8309-3	MW #3	260	66	0	297	7.57
H8309-4	MW #4	700	193	0	180	7.63
Quality Control		1010	53.65	NR	996	7.00
True Value QC		1000	50.00	NR	1000	7.00
% Recovery		101.0	107	NR	99.6	100
Relative Percent Difference		7.0	1.5	NR	0	1.4

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

Amy Hill  
Chemist

1/6/04  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H8309

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

## CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: SEST		Project Manager:		Address: 703 E. CLINTON, #103		City: HOBBS		State: NM Zip: 88240		Phone #: (505) 397-0510		Fax #: (505) 393-4388		Project #: CHE 01-003		Project Owner:		Project Name: CDU TRACT 19 (Chevron)		Project Location: Eunice, NM							
FOR LAB USE ONLY		LAB I.D.		Sample I.D.		CONTAINERS		MATRIX		PRES.		SAMPLING		DATE		TIME											
						(G) RAB OR (C) OMP.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID:		ICE / COOL		OTHER:			
H8309-1		Monitor Well #1				✓		✓		✓		✓		✓		31 Dec		10:50 AM		✓		✓		✓		BTEX	
-2		Monitor Well #2				✓		✓		✓		✓		✓		31 Dec		10:00 AM		✓		✓		✓			
-3		Monitor Well #3				✓		✓		✓		✓		✓		31 Dec		11:35 AM		✓		✓		✓			
-4		Monitor Well #4				✓		✓		✓		✓		✓		31 Dec		12:20 PM		✓		✓		✓			

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 2% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished: Date: Received By: Phone Result: ☐ Yes ☐ No Additional Fax #: Fax Result: ☐ Yes ☐ No

Relinquished By: Date: 31 Dec 03 Time: 12:15 Received By: (Lab Staff) Amy Hill Checked By: (Initials)

Delivered By: (Circle One) Sample Condition: Cool ☐ Intact ☐ Yes ☐ No

Sampler UPS - Bus - Other: ☐ Yes ☐ No

REMARKS:



# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.  
ATTN: BOB ALLEN  
703 E. CLINTON, #103  
HOBBS, NM 88240  
FAX TO: (505) 393-4388

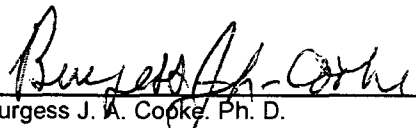
Receiving Date: 01/16/04  
Reporting Date: 01/20/04  
Project Number: NOT GIVEN  
Project Name: CDU TRACT 19  
Project Location: NOT GIVEN

Sampling Date: 01/16/04  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		01/19/04	01/19/04	01/19/04	01/19/04	01/19/04	01/19/04
H8373-1	#1	464	18700	<0.005	0.014	0.154	0.306
H8373-2	#2	272	18000	0.018	0.015	0.506	0.737
H8373-3	#3	96	21500	<0.005	<0.005	0.014	0.025
H8373-4	#4	96	16500	<0.005	0.039	0.493	1.29
H8373-5	#5	96	47500	0.006	0.006	0.083	1.12
H8373-6	#6	240	8850	<0.005	<0.005	<0.005	<0.015
Quality Control		234	1010	0.093	0.089	0.091	0.276
True Value QC		240	1000	0.100	0.100	0.100	0.300
% Recovery		97.3	101	92.6	88.8	91.1	92.0
Relative Percent Difference		8.4	3.0	3.1	7.3	3.0	3.8

METHODS: TRPHC-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260

\*Analyses performed on 1:4 w:v aqueous extracts.

  
Burgess J. A. Cooke, Ph. D.

1/29/04  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.  
H8373.XLS

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

## ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: <u>SEST</u>		BILL TO PO #:	
Project Manager: <u>Alice</u>		Company: <u>SAME</u>	
Address: <u>703 E. CLINTON, #103</u>		Attn:	
City: <u>HOBBS</u>		Address:	
Phone #: <u>(505) 397-0510</u>		City:	
Fax #: <u>(505) 393-4388</u>		State:	
Project #: <u></u>		Phone #:	
Project Name: <u>CONTRACT 19</u>		Fax #:	
Project Location: <u></u>			

LAB I.D.	Sample I.D.	MATRIX					PRES.		DATE	TIME
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:		
A6373-1	#1	X							1-15-04	10:50
-2	#2	X							"	11:02
-3	#3	X							"	11:10
-4	#4	X							"	11:15
-5	#5	X							"	11:20
-6	#6	X							"	11:30

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. At claim including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated defenses or otherwise.

Sampler Relinquished: <u>Bollen</u>	Date: <u>1-15-04</u>	Received By: <u>Burges</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished By: <u>S. S. S.</u>	Time: <u>11:30</u>	Received By: (Lab Staff)	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
Delivered By: (Circle One)	Date: <u>1-15-04</u>	Checked By: <u>Burges</u>	Additional Fax #: <u></u>
Sampler - UPS - Bus - Other:	Time: <u>1:30</u>	Sample Condition: <u>Intact</u>	REMARKS:
		Yes <input type="checkbox"/> No <input type="checkbox"/>	



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.  
ATTN: BOB ALLEN  
703 E. CLINTON, #103  
HOBBS, NM 88240  
FAX TO: (505) 393-4388

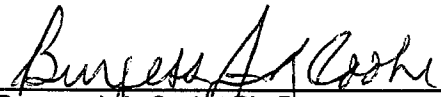
Receiving Date: 01/21/04  
Reporting Date: 01/22/04  
Project Number: CHE-01-003  
Project Name: CDU TRACT 19  
Project Location: EUNICE, NM

Sampling Date: 01/20/04  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/AH/GP

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		01/21/04	01/22/04	01/21/04	01/21/04	01/21/04	01/21/04
H8387-1	SECTION A	6720	144	<0.005	<0.005	<0.005	<0.015
H8387-2	SECTION B	14200	208	<0.005	<0.005	0.026	0.072
H8387-3	SECTION C	6600	224	<0.005	<0.005	0.018	0.032
H8387-4	SECTION D	4180	128	<0.005	<0.005	<0.005	<0.015
Quality Control		243	1010	0.095	0.096	0.094	0.287
True Value QC		240	1000	0.100	0.100	0.100	0.300
% Recovery		101	101	94.6	96.3	93.9	95.8
Relative Percent Difference		7.8	3.0	1.2	2.9	1.9	2.5

METHODS: TRPHC-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260

\*Analyses performed on 1:4 w:v aqueous extracts. Matrix interference (color) observed.

  
Burgess J. A. Cooke, Ph. D.

1/22/04  
Date

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H8387.XLS

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

## CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: SEST  
Project Manager: RELIANT PO #:  
Address: 703 E. CLINTON, #103 Company: SAME  
City: HOBBS State: NM Zip: 88240  
Phone #: (505) 397-0510  
Fax #: (505) 393-4388  
Project #: CHE-01-003 Project Owner: CHEVRON - TEXACO  
Project Name: CDU TACT 19  
Project Location: FUNICE N.M.

LAB I.D.	Sample I.D.	FOR LAB USE ONLY				MATRIX				PRES.				SAMPLING				DATE	TIME
		(G) RAB OR (COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	DATE	TIME	DATE	TIME		
48387-1	Section A	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	20 Jan		20 Jan		20 Jan		20 Jan	
-2	Section B	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	20 Jan		20 Jan		20 Jan		20 Jan	
-3	Section C	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	20 Jan		20 Jan		20 Jan		20 Jan	
-4	Section D	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	20 Jan		20 Jan		20 Jan		20 Jan	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, and limited to the amount paid by the client for the analysis, is limited to the amount paid by the client for the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors with respect to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_ Date: 21 JAN 04 Time: 8:20 PM  
Delivered By: (Circle One) Sample UPS - Bus - Other:  
Checked By: (Initials) \_\_\_\_\_  
REMARKS: \_\_\_\_\_  
Phone Result: ☐ Yes ☐ No Additional Fax #: \_\_\_\_\_  
Fax Result: ☐ Yes ☐ No



## **Appendix E**

## **Site Photos**



Trench Looking South



Trench & Excavation Looking North



Excavation Looking Northwest



Excavation Looking North





Excavation Looking West



Excavation Looking West



Excavation Looking Northwest



Excavation Looking West





Excavation Looking South



Excavation Looking Southwest



Excavation Looking South



Excavation Looking East





Excavation Looking East



Excavation Looking Southeast





Excavation Looking Southeast



Excavation Prior to Liner Installation



Excavation Prior to Liner Installation



Excavation Prior to Liner Installation



Excavation Prior to Liner Installation





Installed Liner



Installed Liner



Installed Liner





Sand Cushion on Top of Liner



Caliche on Top of Sand



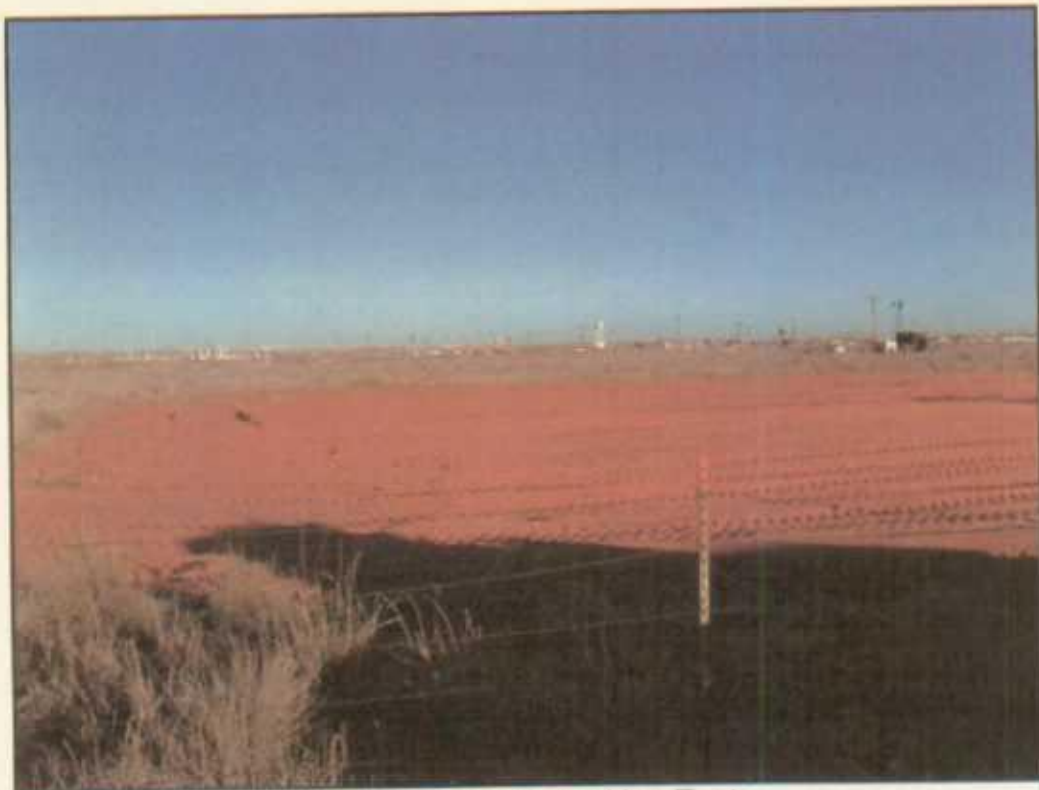
Completed Site Looking Northeast



Completed Site Looking North



Completed Site Looking Southeast



Completed Site Looking East