

Project Report

Project:

Susco State Lease
Section 19, T9S, R33E
Lea County, New Mexico

January 10, 2008

Prepared for:

Merit Energy Company
13727 Noel Rd. Ste. 500
Dallas, Texas 75240

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HOBBS OCD

*Will e-mail
closure request. CW
1/24/08*

Jim Hollon Consulting

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January 10, 2008

Merit Energy Company
13727 Noel Rd. Ste. 500
Dallas, Texas 75240

Attn: Mr. Justin Findley

Phone: (972) 628-1493
Fax: (972) 628-1793

Re: Project Report
Susco State Lease
Section 19, T9S, R33E
Lea County, New Mexico

Dear Mr. Findley:

Jim Hollon Consulting is pleased to submit four copies of the Project Report for the above referenced site.

I appreciate the opportunity to participate in this project at the Susco State lease for Merit Energy Company. Please contact me at (432) 631-5768 if you have questions regarding the information provided in the report.

Sincerely,



Jim Hollon

TABLE OF CONTENTS

	Page No.
1.0 INTRODUCTION.....	1
2.0 SUMMARY OF ACTIVITIES COMPLETED	3
3.0 DATA EVALUATION	5
4.0 FINDINGS AND RECOMMENDATIONS	6

LIST OF APPENDICES

- Appendix A: Figure 1- Topographic Map
Figure 2 – Aerial Photograph
Figure 3 – Site Map
- Appendix B: Analytical Summary Table, Laboratory Data Sheets, Chain-of-Custody
- Appendix C: Soil Boring Logs
- Appendix D: Regulatory Report

Project Report

Susco State Lease Section 19, T9S, R33E Lea County, New Mexico

1.0 INTRODUCTION

This site is located in Lea County, New Mexico approximately sixteen miles west of Crossroads and approximately one quarter mile south of County Road 170 (Figure 1). The surrounding area is native rangeland in a grassland prairie region with naturally occurring salt lakes within two and one half miles of the site. The site is on property overseen by the State Lands Office (SLO). The facility included seven above grade tanks, consisting of three 500 barrel welded steel, two 300 barrel welded steel and two 300 barrel fiberglass. Two vertical heater/separators, a circulation and transfer pump, a manifold and associated piping is on the site as well as the pumping unit for the # 1 well. The facility was acquired by Merit Energy Company (Merit) in April, 1993.

In May 2007, the rancher, Carl Lane Johnson, made the request to repair the road leading into the lease. On June 15, 2007 the required permits were obtained from the SLO and work began in the following week, repairing the road from the pavement to the battery. The well sites were also addressed by clearing weeds, repairing the fences and general site clean-up.

On June 26, 2007 a site visit was performed by a New Mexico Oil Conservation Division (NMOCD) field inspector and the following violations were noted: repair or remove unused tanks; replace livestock fence; and, continue to repair the main road to access the battery.

1.1 Site Description

Site Name	Susco State Lease
Site Location/GPS	Lea County, New Mexico / 33.51311° N, 103.60091° W
General Site Description	The site consisted of the tank battery and pumping unit for the # 1 well. The surrounding area is sandy loam rangeland with grass cover and naturally occurring salt lakes.

A topographic map (Figure 1,) aerial photograph (Figure 2) and site map (Figure 3) are included in Appendix A.

1.2 Scope of Services

The Scope of Services for JHC as requested by Merit included:

- Removal of the abandoned equipment from the site;
- Excavation and disposal of the affected soils;
- Collection of confirmation soil samples; and,
- Submittal of a project report detailing field activities, analytical results and recommendations.

1.3 Regulatory Framework

Crude oil facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). Contamination of soil due to a surface release of crude oil is addressed within a NMOCD guideline titled *Guidelines for Remediation of Leaks, Spills and Releases*. Remediation standards for chloride contamination have not been published and are handled by the local district offices on a case by case basis.

Soils which are impacted by petroleum constituents are scored according to the ranking criteria to determine their relative threat to public health, fresh water, and the environment. Such limits are defined by the depth to groundwater, wellhead protection area, and distance to surface water. Based on these ranking criteria, the remediation action level at this site is as follows:

Depth to Ground Water	50 - 99 feet	Ranking Score = 10
(As defined as vertical distance from lowermost contaminants to seasonal high water level)		
Wellhead Protection Area	>1000' to water source	
	>200' to domestic well	Ranking Score = 0
Distance to Surface Water	>1000 horizontal feet	Ranking Score = 0

Total Ranking Score = 10

Based on total ranking criteria of 10, the following remediation levels apply:

Benzene = 10 ppm

BTEX = 50 ppm

TPH = 1000 ppm

Chlorides = Site Specific

Depth to groundwater has been assumed to be between 50 and 99 feet. Although windmills are visible from the site, no water well records have been found. After contacting Andy Morely, with the State Engineer's Office, reports were found for two wells near the site. The depth to water was reported to be 61.7 feet in one well and 143.64 feet in the second well. It was also agreed upon that the more shallow groundwater was perched and isolated in nature.

1.4 Standard of Care

Services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. JHC makes no warranties, either express or implied, regarding the findings or recommendations. Please note that JHC can not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report.

2.0 FIELD ACTIVITIES

On August 23, 2007, following the receipt of a right of entry permit from the SLO, removal of half of the surface equipment from the battery began, while diverting the production to the second half of the equipment. Following the removal of the unused tanks, all visibly affected soils, totaling 276 cubic yards, were excavated and disposed at an NMOCD approved disposal facility. Five point composite soil samples were collected from the excavated area under each of the former tank locations. Samples were collected from each side wall and the bottom of each excavation, approximately four feet below ground surface (bgs). The samples were labeled 300 East and 300 West, according to the tank from which they were collected. The samples collected were submitted to Xenco Laboratories (formally Environmental Lab of Texas) for analysis of Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX), and total chlorides.

On September 26, 2007, following the receipt of the laboratory analysis, an additional 150 cubic yards of soil was excavated, enlarging the excavations into one, measuring approximately 15 feet wide by 30 feet long and 10 feet deep. Samples were collected from each side wall and the bottom of the excavation, approximately ten feet bgs. The sample was submitted in duplicate and labeled 300-1 and 300-2. The samples were again submitted to Xenco Laboratories for

analysis. The sample labeled 300-1 was analyzed for TPH, BTEX, and total chlorides; the sample labeled 300-2 was submitted only as a duplicate for analysis of total chlorides.

A report was submitted to the OCD on October 16, 2007, summarizing the field activities and the analytical results from the laboratory. On December 3, 2007, the OCD had requested additional vertical delineation to be performed. The following day a backhoe was utilized to attempt to delineate the affected soils. Due to the hard rock that was encountered at 10 feet bgs, the backhoe was only capable of digging an additional three feet, making the total depth approximately 13 feet bgs, in a small area of the excavation. A sample was collected from the bottom at 13 feet bgs, and composites from each sidewall, and submitted for analysis of total chlorides. Following the receipt of the laboratory analysis, the decision was made to conduct soil borings to collect the required samples. A length of casing was set in the 13 feet bgs excavation and the excavations were backfilled to a point where a mobile drilling rig could gain access. Trenches were also cut to the east, west and south of the excavation in an effort to horizontally delineate the site. Three samples were collected from each trench and labeled as follows: E-1 – 6' out 7' bgs, E-2 – 10' out 7' bgs, E-3 – 16' out 5' bgs, W-1 – 4' out 10' bgs, W-2 – 8' out 8' bgs, W-3 – 12' out 4' bgs, S-1 – 4' out 8' bgs, S-2 – 8' out 6' bgs, and S-3 – 12' out 4' bgs.

On January 4, 2008, a mobile air rotary drilling rig was utilized to advance two soil borings within the footprints of the tanks. The first soil boring, labeled SB-1, was advanced through the casing to a total depth of 43 feet bgs. Four composite samples were collected from the cuttings at five foot intervals until a hard, dense red clay was encountered at 35 feet bgs. After encountering the red clay, a sample was collected from the cuttings both before and after a one foot core was collected. The boring was advanced to 43 feet bgs, approximately eight feet into the red clay, where the final sample was collected. The second soil boring, SB-2, was advanced in the footprint of the 500 barrel tank. SB-2 was advanced to a total depth of 44 feet bgs. The boring included approximately four feet of backfill before encountering native rock. Composite samples were collected at two foot intervals throughout the boring.

Soil Sampling

The soil samples were placed in laboratory prepared glassware and sealed with the identification label. The soil samples submitted for analysis of TPH and BTEX were placed on ice in a cooler. The samples and completed chain-of-custody forms were relinquished to Xenco Laboratories in Odessa, Texas for analysis. The executed chain-of-custody forms, laboratory data sheets are provided in Appendix B.

Analytical Methods

The soil samples collected on September 11 and 26, 2007 and January 4, 2008 were analyzed using the following methods:

- Chlorides - EPA Method 325.3
- BTEX – EPA Method 8021B
- TPH – EPA Method 8015M

3.0 DATA EVALUATION

The soil samples collected on September 11, 2007, from under the eastern 300 barrel tank, labeled 300 East had a chloride concentration of 5,100 mg/kg, the BTEX concentration was below the detection limit of 0.0012 mg/kg, and the TPH concentration was below the detection limit of 12 mg/kg. The sample collected from under the western 300 barrel tank, labeled 300 West had a chloride concentration of 1,100 mg/kg, the BTEX concentration was below the detection limit of 0.0011 mg/kg, and the TPH concentration was 3,120 mg/kg.

The soil samples collected on September 26, 2007, from the excavation under the 300 barrel tanks, labeled 300-1 had a chloride concentration of 1,430 mg/kg, the BTEX concentration was 0.0199 mg/kg, and the TPH concentration was 49.1 mg/kg. The duplicate sample labeled 300-2 had a chloride concentration of 1,490 mg/kg.

The soil samples collected on December 4, 2007, had chloride concentrations as follows: North side wall, 851 mg/kg, South sidewall, 13,600 mg/kg, East sidewall, 7,440 mg/kg, West sidewall, 6,270 mg/kg, the bottom and the duplicate bottom were 1,340 mg/kg and 1,320 mg/kg, respectively. The samples from the east trench, collected on December 12, 2007, had chloride concentrations as follows: E-1, E-2 and E-3, 6,160 mg/kg, 1,030 mg/kg and 1,540 mg/kg, respectively. The west trench had chloride concentrations as follows: W-1, W-2 and W-3, 5,950 mg/kg, 1,230 mg/kg and 1,000 mg/kg, respectively. The south trench had chloride concentrations as follows: S-1, S-2 and S-3, 317 mg/kg, 1,830 mg/kg and 1,110 mg/kg, respectively.

The soil samples collected on January 4, 2008, from soil boring SB-1 had chloride concentrations ranging from 1,340 mg/kg to 117 mg/kg. The first sample with chloride concentrations below 250 mg/kg and subsequent samples also below 250 mg/kg was collected at 36-37 feet bgs. The samples collected from SB-2 had chloride concentrations ranging from 1,910 mg/kg to 106 mg/kg. The first sample with chloride concentrations below 250 mg/kg and

subsequent samples also below 250 mg/kg was collected at 34-36 feet bgs. A table summarizing the analytical results is presented as Table 1 in Appendix B.

The lithology of site, as compiled from the excavations and soil borings, is as follows:

- 0-1' bgs – caliche pad
- 1-3' bgs – light brown, fine sand, poorly graded
- 3-9' bgs – tan sandstone, cemented (caliche)
- 9-22' bgs – very hard and dense, white sandstone, cemented (caliche)
- 22-30' bgs – various silty sands, with small rounded gravel
- 30-35' bgs – gray clay
- 35-44' bgs – red, dense, firm clay

4.0 FINDINGS AND RECOMMENDATIONS

JHC submits this report to Merit which documents the activities, findings and recommendations for the project. Based on results of the field activities and laboratory analysis the findings are as follows:

- The concentrations of BTEX and TPH in the confirmation sample from the initial excavation were 0.0199 mg/kg and 49.1 mg/kg, respectively, well below the remediation levels for the site's ranking;
- The chloride concentrations in the soils under the site have been delineated to below 250 mg/kg with subsequent samples also below 250 mg/kg; this depth was found at approximately 35 feet bgs;
- The dense red clay layer (red bed) was also encountered at approximately 35 feet bgs. No groundwater was encountered during any boring or excavation activities; and,
- Throughout the soil samples collected from both soil borings, only three of the 28 samples had chloride concentrations above 1,000 mg/kg, additionally, these three samples were below 2,000 mg/kg.
- Consideration should be given to the proximity to the naturally occurring salt lakes, and that the new battery will be constructed on a poly liner.

**Merit Energy Company
Susco State Lease
January 10, 2008**

Jim Hollon Consulting

The recommendations are as follows:

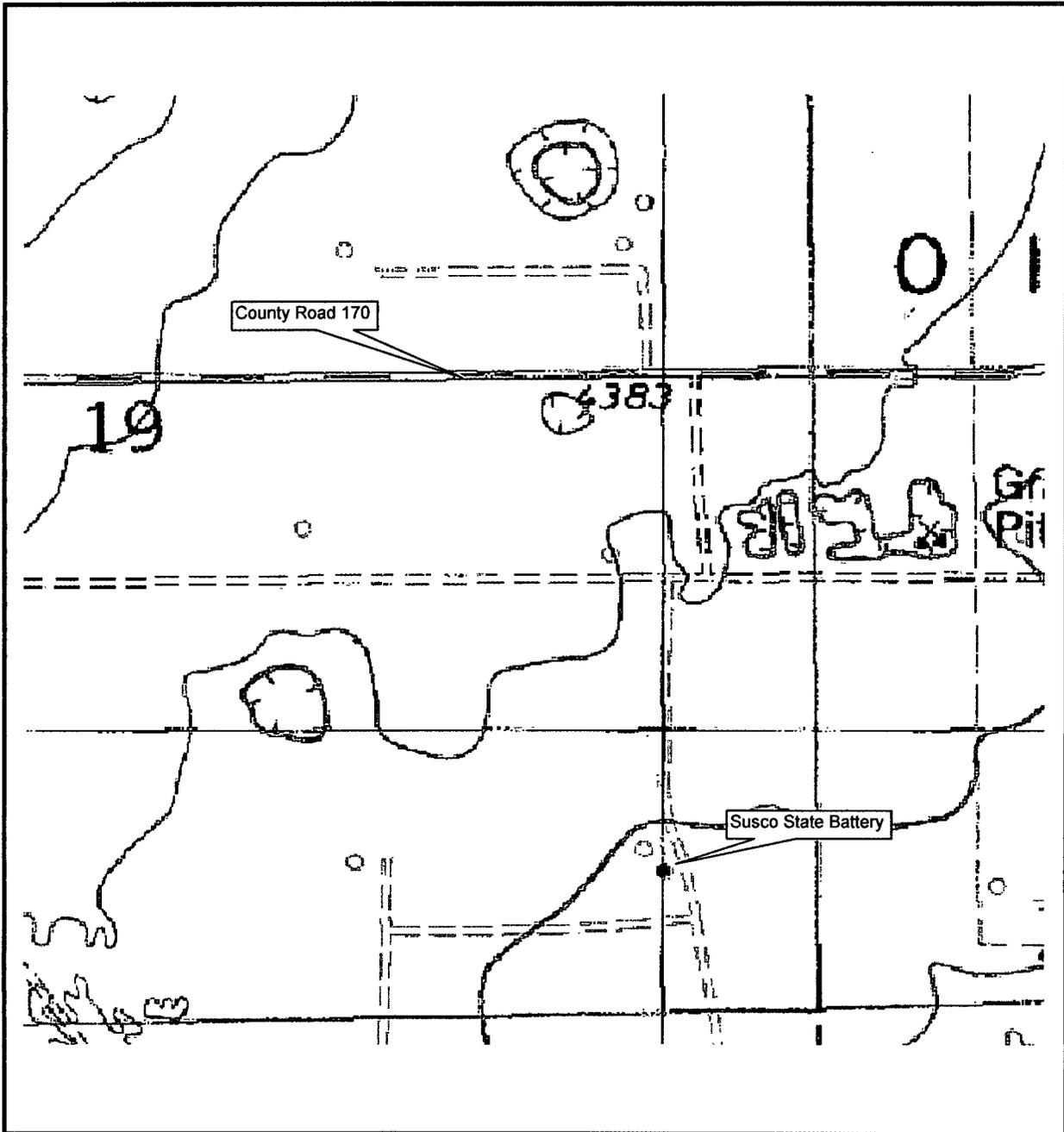
- Submittal of this report to the OCD to document the delineation of the chloride affected soils; and,
- Based on the discovery that there is no groundwater to protect under the site, between the surface and the red beds, and the very low chloride concentrations remaining in the soils, the current excavations should be satisfactory.

APPENDIX A

Figure 1 – Topographic Map

Figure 2 – Aerial Photograph

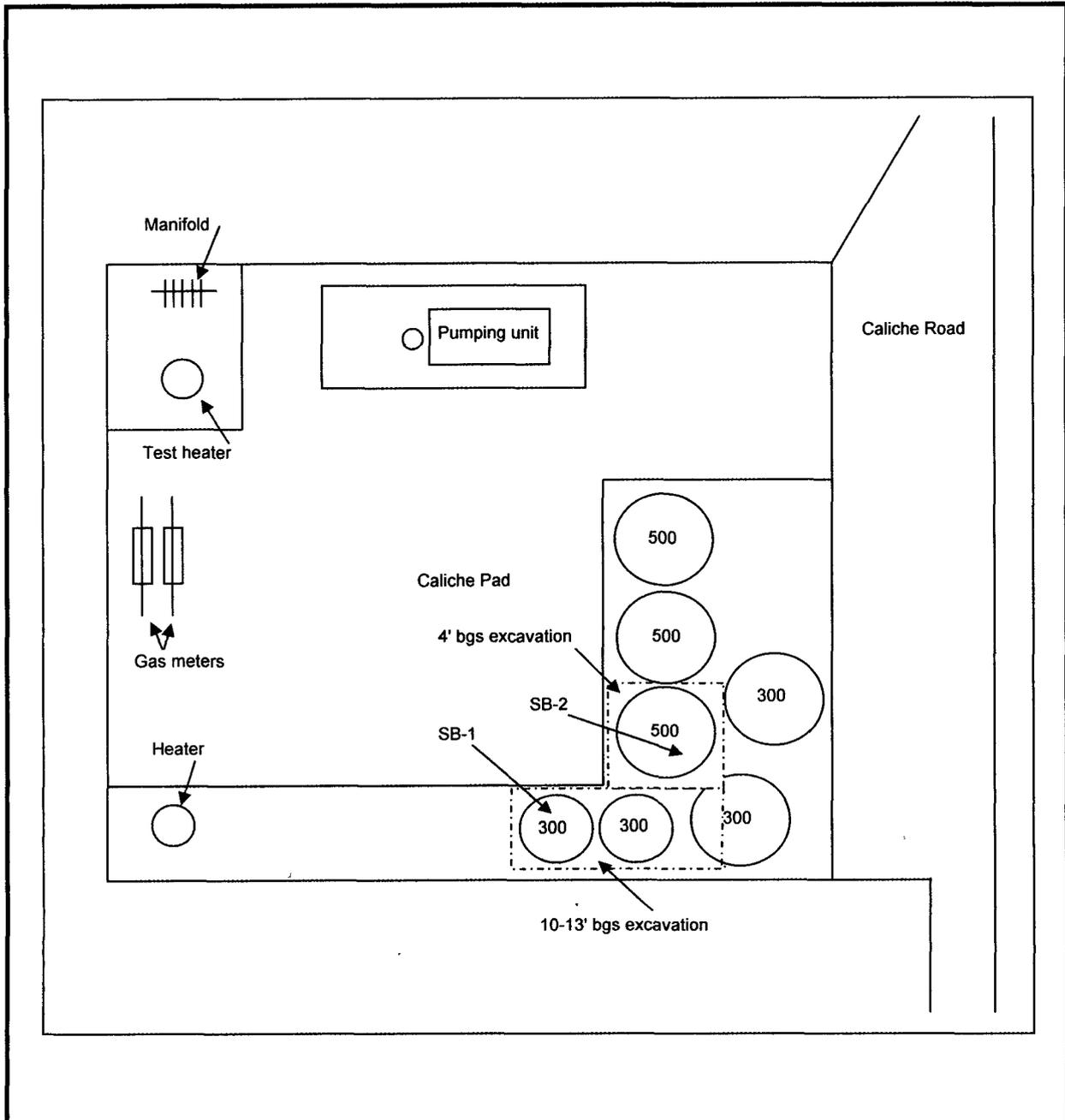
Figure 3 – Site Map



Source: Terraserver	Merit Energy Company	Figure 1 Topographic Map
Dated July 1, 1984		
Scale: 1" = 200 yards	Susco State Battery	Prepared By: Jim Hollon Consulting
<p>↑ N</p>	24 miles northwest of Tatum Lea County, New Mexico	



Source: Terraserver	Merit Energy Company	Figure 2 Aerial Photograph
Dated September 19, 1996		
Scale: 1" = 1 Mile	Susco State Battery	Prepared By: Jim Hollon Consulting
↑ N	24 miles northwest of Tatum Lea County, New Mexico	



	Merit Energy Company	Figure 3 Site Map
Not to Scale	Susco State Battery	
↑ N	24 miles northwest of Tatum Lea County, New Mexico	Prepared By: Jim Hollon Consulting

APPENDIX B

**Analytical Summary Table
Laboratory Data Sheets
Laboratory Chain of Custody Documents**

Table 1

CONCENTRATIONS OF CHEMICALS OF CONCERN IN SOIL

Merit Energy
Susco State
Tatum, Lea County, New Mexico

All concentrations are in mg/kg

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	EPA 325.3	EPA Method 8015M				EPA Method 8021B					
			TOTAL CHLORIDE	TPH C ₆ -C ₁₂	TPH C ₁₂ -C ₂₈	TPH C ₁₂ -C ₃₅	TPH C ₆ -C ₃₅	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	
9/11/2007	300 E	4'	5,100	<12.0	<12.0	<12.0	<12.0	<0.0012	<0.0012	<0.0012	<0.0024	<0.0024	
	300 W	4'	1,110	218	2,350	552	3,120	<0.0011	<0.0011	<0.0011	<0.0023	<0.0023	
9/26/2007	300-1	10'	1,430	18.2	30.9	<11.2	49.1	<0.0056	<0.0056	<0.0056	0.0199	0.0199	
	300-2 (DUP)	10'	1,490										
	Topsoil	comp	681										
	Stockpile	comp	2,210										
12/4/2007	300 N	comp	851										
	S	comp	13,600										
	E	comp	7,440										
	W	comp	6,270										
	Bottom	13'	1,340										
	Dup Bottom	13'	1,320										
	Caliche pit	8'	21										
12/12/2007	E-1	6'	6,160										
	E-2	10'	1,030										
	E-3	16'	1,540										
	W-1	4'	5,950										
	W-2	8'	1,230										
	W-3	12'	1,000										
	S-1	4'	317										
	S-2	8'	1,830										
	S-3	12'	1,110										
1/4/2008	SB-1	16-18'	117										
		21-23'	1,340										
		26-28'	893										
		31-33'	681										
		35-36'	425										
		36-37'	170										
		37-38'	213										
	41-43'	128											
	SB-2	4-6'	298										
		6-8'	1,660										
		8-10'	1,910										
		10-12'	766										
		12-14'	723										
		14-16'	808										
		16-18'	723										
		18-20'	808										
		20-22'	723										
		22-24'	978										
		24-26'	510										
		26-28'	383										
28-30'		425											
30-32'	298												
32-34'	298												
34-36'	170												
36-38'	128												
38-40'	213												
40-42'	106												
42-44'	170												

CONCENTRATIONS IN BOLD ARE ABOVE REGULATORY GUIDELINES

Analytical Report 295486

for

Merit Energy

Project Manager: Jim Hollon

Susco State

08-JAN-08



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**



08-JAN-08

Project Manager: **Jim Hollon**

Merit Energy

P.O. Box 300

Whiteface, TX 79379

Reference: XENCO Report No: **295486**

Susco State

Project Address: Tatum

Jim Hollon:

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 295486. 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. 295486 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 295486



Merit Energy, Whiteface, TX

Susco State

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB - 1	S	Jan-04-08 00:00	16 - 18	295486-001
SB - 1	S	Jan-04-08 00:00	21 - 23	295486-002
SB - 1	S	Jan-04-08 00:00	26 - 28	295486-003
SB - 1	S	Jan-04-08 00:00	31 - 33	295486-004
SB - 1	S	Jan-04-08 00:00	35 - 36	295486-005
SB - 1	S	Jan-04-08 00:00	36 - 37	295486-006
SB - 1	S	Jan-04-08 00:00	37 - 38	295486-007
SB - 1	S	Jan-04-08 00:00	41 - 43	295486-008
SB - 2	S	Jan-04-08 00:00	4 - 6	295486-009
SB - 2	S	Jan-04-08 00:00	6 - 8	295486-010
SB - 2	S	Jan-04-08 00:00	8 - 10	295486-011
SB - 2	S	Jan-04-08 00:00	10 - 12	295486-012
SB - 2	S	Jan-04-08 00:00	12 - 14	295486-013
SB - 2	S	Jan-04-08 00:00	14 - 16	295486-014
SB - 2	S	Jan-04-08 00:00	16 - 18	295486-015
SB - 2	S	Jan-04-08 00:00	18 - 20	295486-016
SB - 2	S	Jan-04-08 00:00	20 - 22	295486-017
SB - 2	S	Jan-04-08 00:00	22 - 24	295486-018
SB - 2	S	Jan-04-08 00:00	24 - 26	295486-019
SB - 2	S	Jan-04-08 00:00	26 - 28	295486-020
SB - 2	S	Jan-04-08 00:00	28 - 30	295486-021
SB - 2	S	Jan-04-08 00:00	30 - 32	295486-022
SB - 2	S	Jan-04-08 00:00	32 - 34	295486-023
SB - 2	S	Jan-04-08 00:00	34 - 36	295486-024
SB - 2	S	Jan-04-08 00:00	36 - 38	295486-025
SB - 2	S	Jan-04-08 00:00	38 - 40	295486-026
SB - 2	S	Jan-04-08 00:00	40 - 42	295486-027
SB - 2	S	Jan-04-08 00:00	42 - 44	295486-028



Certificate of Analysis Summary 295486

Merit Energy, Whiteface, TX

Project Id:

Contact: Jim Hollon

Date Received in Lab: Mon Jan-07-08 11 55 am

Report Date: 08-JAN-08

Project Location: Tatum

Project Name: Susco State

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	295486-001	295486-002	295486-003	295486-004	295486-005	295486-006
	<i>Field Id:</i>	SB - 1					
	<i>Depth:</i>	16-18	21-23	26-28	31-33	35-36	36-37
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-04-08 00 00	Jan-04-08 00 00	Jan-04-08 00.00	Jan-04-08 00 00	Jan-04-08 00 00	Jan-04-08 00 00
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-07-08 15 30	Jan-07-08 15 30	Jan-07-08 15.30	Jan-07-08 15 30	Jan-07-08 15 30	Jan-07-08 15 30
	<i>Units/RL:</i>	mg/kg RL					
Chloride		117 5.00	1340 5.00	893 5.00	681 5.00	425 5.00	170 5.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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 Brent Barron
 Odessa Laboratory Director



Certificate of Analysis Summary 295486

Merit Energy, Whiteface, TX

Project Name: Susco State

Project Id:

Contact: Jim Hollon

Date Received in Lab: Mon Jan-07-08 11.55 am

Report Date: 08-JAN-08

Project Manager: Brent Barron, II

Project Location: Tatum

Analysis Requested	Lab Id:	295486-007	295486-008	295486-009	295486-010	295486-011	295486-012						
	Field Id:	SB - 1	SB - 1	SB - 2	SB - 2	SB - 2	SB - 2						
	Depth:	37-38	41-43	4-6	6-8	8-10	10-12						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
	Sampled:	Jan-04-08 00.00	Jan-04-08 00 00										
Total Chloride by EPA 325.3	Extracted:	Jan-07-08 15 30		Jan-07-08 15 30		Jan-07-08 15 30							
	Analyzed:	Jan-07-08 15 30		Jan-07-08 15 30		Jan-07-08 15 30							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		213	5 00	128	5 00	298	5 00	1660	5 00	1910	5 00	766	5 00

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 295486

Merit Energy, Whiteface, TX

Project Name: Susco State

Project Id:

Contact: Jim Hollon

Date Received in Lab: Mon Jan-07-08 11 55 am

Report Date: 08-JAN-08

Project Location: Tatum

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	295486-013	295486-014	295486-015	295486-016	295486-017	295486-018
	<i>Field Id:</i>	SB - 2					
	<i>Depth:</i>	12-14	14-16	16-18	18-20	20-22	22-24
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-04-08 00 00					
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-07-08 15 30					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		723 5.00	808 5.00	723 5.00	808 5.00	723 5.00	978 5.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 295486

Merit Energy, Whiteface, TX

Project Name: Susco State

Project Id:

Contact: Jim Hollon

Date Received in Lab: Mon Jan-07-08 11.55 am

Report Date: 08-JAN-08

Project Location: Tatum

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	295486-019	295486-020	295486-021	295486-022	295486-023	295486-024
	<i>Field Id:</i>	SB - 2					
	<i>Depth:</i>	24-26	26-28	28-30	30-32	32-34	34-36
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-04-08 00 00					
Total Chloride by EPA 325.3	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-07-08 15 30	Jan-07-08 15 30	Jan-07-08 16 15	Jan-07-08 16 15	Jan-07-08 16 15	Jan-07-08 16 15
	<i>Units/RL:</i>	mg/kg RL					
Chloride		510 5 00	383 5 00	425 5 00	298 5.00	298 5 00	170 5 00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 295486

Merit Energy, Whiteface, TX

Project Name: Susco State

Project Id:

Contact: Jim Hollon

Date Received in Lab: Mon Jan-07-08 11 55 am

Report Date: 08-JAN-08

Project Location: Tatum

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	295486-025	295486-026	295486-027	295486-028		
	Field Id:	SB - 2	SB - 2	SB - 2	SB - 2		
	Depth:	36-38	38-40	40-42	42-44		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Jan-04-08 00 00	Jan-04-08 00 00	Jan-04-08 00 00	Jan-04-08 00 00		
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Jan-07-08 16 15	Jan-07-08 16 15	Jan-07-08 16 15	Jan-07-08 16 15		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		128 5 00	213 5 00	106 5 00	170 5 00		

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 Brent Barron
 Odessa Laboratory Director



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

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 2505 N Falkenburg Rd , Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



Blank Spike Recovery



Project Name: Susco State

Work Order #: 295486

Project ID:

Lab Batch #: 711678

Sample: 711678-1-BKS

Matrix: Solid

Date Analyzed: 01/07/2008

Date Prepared: 01/07/2008

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100	91.5	92	75-125	

Lab Batch #: 711680

Sample: 711680-1-BKS

Matrix: Solid

Date Analyzed: 01/07/2008

Date Prepared: 01/07/2008

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100	95.7	96	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

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



Form 3 - MS / MSD Recoveries



Project Name: Susco State

Work Order #: 295486

Project ID:

Lab Batch ID: 711678

QC- Sample ID: 295486-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/07/2008

Date Prepared: 01/07/2008

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Chloride by EPA 325.3	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
Analytes											
Chloride	298	1000	1280	98	1000	1300	100	2	75-125	30	

Lab Batch ID: 711680

QC- Sample ID: 295486-027 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/07/2008

Date Prepared: 01/07/2008

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Chloride by EPA 325.3	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
Analytes											
Chloride	106	1000	1230	112	1000	1230	112	0	75-125	30	

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 Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: Mxit Energy Company
 Date/ Time: 01/07/08 11:55
 Lab ID #: Z95484
 Initials: gma

Sample Receipt Checklist

Client Initials

#	Description	Yes	No	Notes
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19.0 °C
#2	Shipping container in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present
#5	Chain of Custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID written on Cont / Lid
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#13	Samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#14	Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable

Variance Documentation

Contact _____ Contacted by _____ Date/ Time _____

Regarding _____

Corrective Action Taken _____

- 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

APPENDIX C

Soil Boring Logs

APPENDIX D
Regulatory Report

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-141
Revised October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Merit Energy Company	Contact: Dwain Wall
Address: P.O. Box 69, Loco Hills N.M., 88255	Telephone No.: 505-706-4758
Facility Name: Susco State	Facility Type: Production Battery

Surface Owner: SLO	Mineral Owner: SLO	Lease No.: API 300-25-25554
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LOCATION OF RELEASE

Unit Letter	Section 19	Township 9S	Range 33E	Feet from the 660'	North/South Line South	Feet from the 660'	East/West Line East	County Lea
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Latitude 33.51298 Longitude -103.60086

NATURE OF RELEASE

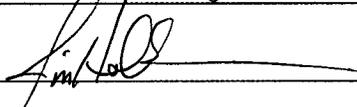
Type of Release: Produced fluids	Volume of Release: unknown	Volume Recovered:
Source of Release: Storage tanks	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 6/25/07
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Integrity failure of oil stock tanks. The tanks have been removed and 425 cubic yards of affected soil removed from the site. Soil samples were collected from the excavation and submitted to Environmental Labs of Texas, in Odessa, Texas for analysis.

Describe Area Affected and Cleanup Action Taken.*
The suspect tanks and affected soils have been removed, the current excavation measures 15' x 30' x 10' deep, and soil samples have been collected.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jim Hollon	Approved by District Supervisor: 	
Title: Consultant	Approval Date:	Expiration Date:
E-mail Address: Jim@JHCon.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/16/07 Phone: 432-631-5768		

* Attach Additional Sheets If Necessary

** Chris Williams signed cover sheet - PC 1/24/08*

RP# 1763