



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor  
**Joanna Prukop**  
Cabinet Secretary

**Mark E. Fesmire, P.E.**  
Director  
**Oil Conservation Division**

November 6, 2006

Chris Smith      csmith@trilogyoperatiog.com  
Trilogy Operating, Inc.  
PO Box 7606  
Midland, TX 79708

Re:    Drill Pit Closure Report – Rene Mc #1  
      Site Location: UL-J    Sec 7 – T20S - R39E  
      Report Received: October 14, 2006

Dear Mr. Smith,

The New Mexico Oil Conservation Division (OCD) reviewed the above referenced closure report. This report was submitted for Trilogy Operating, Inc. (TOI) by your agent, Elke Environmental, Inc. (ECI). Based on information provided, the site requires no further action at this time.

Please be advised that OCD approval does not relieve TOI of responsibility should operations result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve OCI of responsibility for compliance with any federal, state or local laws and/or regulations.

If you have any questions or need assistance please call me at (505) 393-6161, x111 or e-mail [larry.johnson@state.nm.us](mailto:larry.johnson@state.nm.us)

Sincerely,

Larry Johnson - Environmental Engineer

CC:    Wayne Price - Environmental Bureau Chief  
      Chris Williams - District I Supervisor  
      Patricia Caperton- District 1 Environmental Tech

## Closure Report for Trilogy Operating Rene Mc #001 Drilling Pit

[illegible]

**Elke Environmental, Inc.**

4817 Andrews Hwy.  
Odessa, Tx. 79762

Pho. 432-366-0043  
Fax: 432-366-0884

Mail: P. O. Box 14167  
Odessa, Tx. 79768

July 27, 2006

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

Subject: Closure Report for Trilogy Operating, Inc. Rene Mc #001,  
32°35.148'N 103°04.955'W – U/L J Sec. 7 T20S R39E - Lea County, New Mexico

Dear Mr. Johnson,


Elke Environmental, Inc. was contracted by Trilogy Operating to begin closure of the subject pit August 28, 2006.

Ground water in the immediate area of the pit site has been determined to be approximately 45 ft. below ground level according to information from the office of the New Mexico State Engineer.

Attached to this cover letter are a drawing indicating the location of the burial pits, a sample table with confirming laboratory analyses, photos of the progress of the work and a final C-144.

Any questions or concerns with this report may be addressed to Mr. Rob Elam, Elke Environmental, Inc. at 432-556-3140.

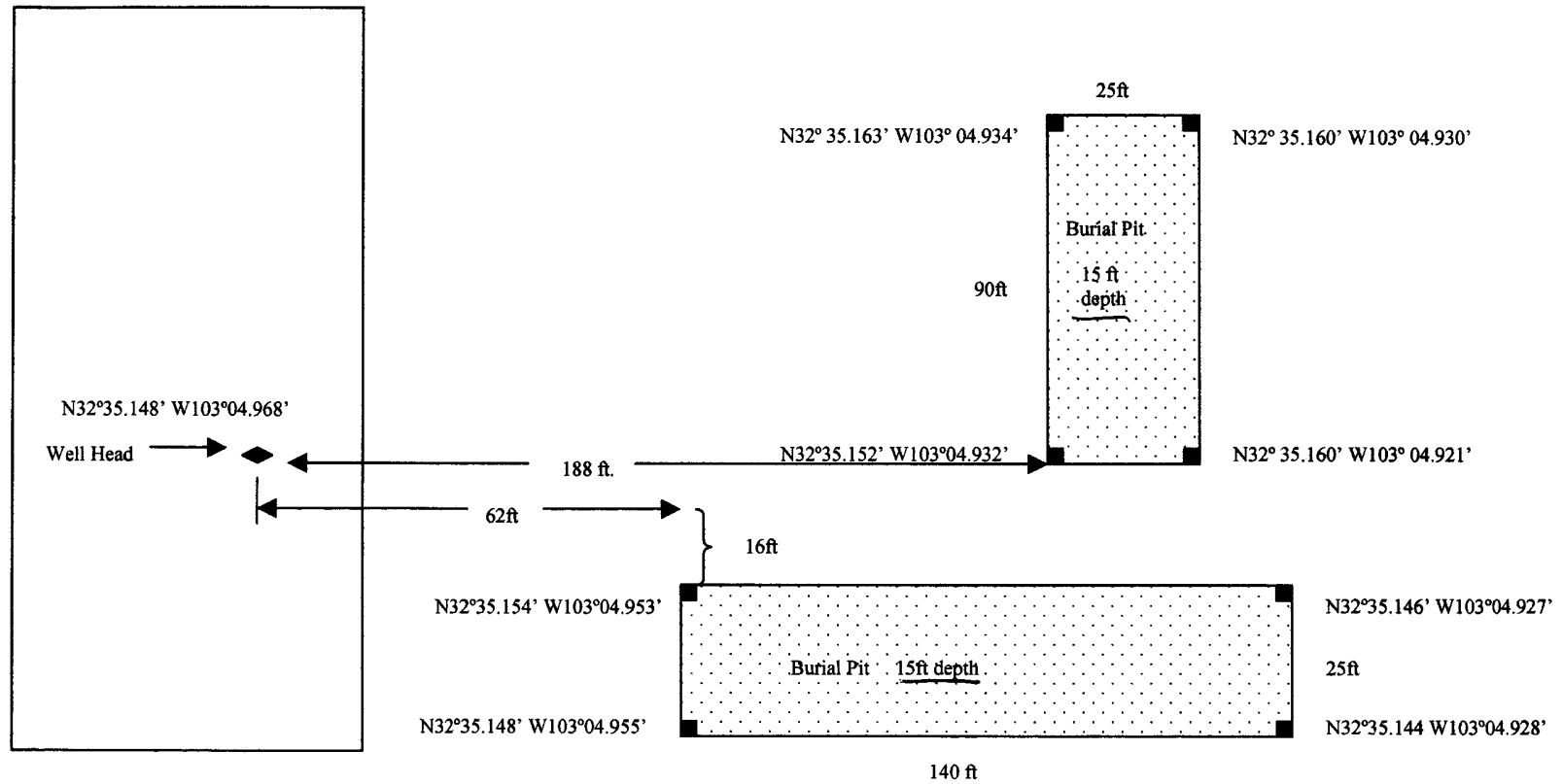
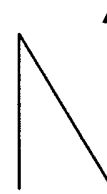
Sincerely,



C. H. Kerby - Elke Environmental, Inc.

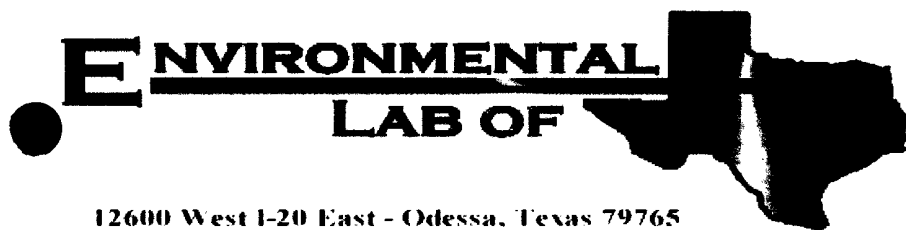
# Trilogy Operating Rene Mc. # 1

## Pit Closure Site Sketch 8-23-06



Trilogy Operating Rene Mc. #1  
Sample Table of Field and Lab Tests

Field Tests					Lab Analysis			
Date	Sample Point	Depth	Cl PPM	GPS	Date	Cl ppm	BTEX ppm 8021B	TPH ppm 8015M
8/31/2006	TP1	4 ft.	20237	N32 35.165 W103 04.954				
		6 ft.	392					
		8 ft.	239		9/1/2006	81.1	ND	ND
8/31/2006	TP2	4 ft.	607	N32 35.165 W103 04.939	9/1/2006	396	ND	ND
8/31/2006	TP3	4 ft.	6663	N32 35.150 W103 04.956				
		6 ft.	292					
		8 ft.	290		9/1/2006	203	ND	ND
8/31/2006	TP4	4 ft.	295	N 32 35.148 W103 04.940	9/1/2006	170	ND	ND
8/31/2006	TP5	4ft	441	N32 35.160 W103 04.953	9/1/2006	82.7	ND	ND



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Robert Spangler

Elke Environmental

P.O. Box 14167

Odessa, TX 79768

Project: Trilogy

Project Number: None Given

Location: Rene MC

Lab Order Number: 6101018

Report Date: 09/05/06

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

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1@ 8' BGS	6I01018-01	Soil	08/31/06 07:30	09-01-2006 14:30
TP2@ 4' BGS	6I01018-02	Soil	08/31/06 08:20	09-01-2006 14:30
TP3@ 8' BGS	6I01018-03	Soil	08/31/06 09:00	09-01-2006 14:30
TP4@ 4' BGS	6I01018-04	Soil	08/31/06 11:00	09-01-2006 14:30
TP5@ 4' BGS	6I01018-05	Soil	08/31/06 13:45	09-01-2006 14:30

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

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP1@ 8' BGS (6I01018-01) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI60117	09/01/06	09/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI60118	09/01/06	09/04/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		84.8 %	70-130		"	"	"	"	
<b>TP2@ 4' BGS (6I01018-02) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI60117	09/01/06	09/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI60118	09/01/06	09/04/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.6 %	70-130		"	"	"	"	
<b>TP3@ 8' BGS (6I01018-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI60117	09/01/06	09/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI60118	09/01/06	09/04/06	EPA 8015M	

Environmental Lab of Texas

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P.O. Box 14167  
Odessa TX, 79768

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP3@ 8' BGS (6I01018-03) Soil</b>									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EI60118	09/01/06	09/04/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		88.4 %	70-130		"	"	"	"	
<b>TP4@ 4' BGS (6I01018-04) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI60117	09/01/06	09/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI60118	09/01/06	09/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		89.8 %	70-130		"	"	"	"	
<b>TP5@ 4' BGS (6I01018-05) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI60117	09/01/06	09/05/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EI60118	09/01/06	09/05/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.6 %	70-130		"	"	"	"	

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

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TP1@ 8' BGS (6I01018-01) Soil</b>									
Chloride	81.1	10.0	mg/kg	20	EI60120	09/01/06	09/01/06	EPA 300.0	
% Moisture	8.3	0.1	%	1	EI60501	09/01/06	09/05/06	% calculation	
<b>TP2@ 4' BGS (6I01018-02) Soil</b>									
Chloride	396	10.0	mg/kg	20	EI60120	09/01/06	09/01/06	EPA 300.0	
% Moisture	5.6	0.1	%	1	EI60501	09/01/06	09/05/06	% calculation	
<b>TP3@ 8' BGS (6I01018-03) Soil</b>									
Chloride	203	5.00	mg/kg	10	EI60120	09/01/06	09/01/06	EPA 300.0	
% Moisture	3.8	0.1	%	1	EI60501	09/01/06	09/05/06	% calculation	
<b>TP4@ 4' BGS (6I01018-04) Soil</b>									
Chloride	170	10.0	mg/kg	20	EI60120	09/01/06	09/01/06	EPA 300.0	
% Moisture	6.2	0.1	%	1	EI60501	09/01/06	09/05/06	% calculation	
<b>TP5@ 4' BGS (6I01018-05) Soil</b>									
Chloride	82.7	5.00	mg/kg	10	EI60120	09/01/06	09/01/06	EPA 300.0	
% Moisture	4.6	0.1	%	1	EI60501	09/01/06	09/05/06	% calculation	

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

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI60117 - EPA 5030C (GC)**

**Blank (EI60117-BLK1)**

Prepared & Analyzed: 09/01/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/kg	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

**LCS (EI60117-BS1)**

Prepared & Analyzed: 09/01/06

Benzene	1.26	0.0250	mg/kg wet	1.25		101	80-120			
Toluene	1.36	0.0250	"	1.25		109	80-120			
Ethylbenzene	1.28	0.0250	"	1.25		102	80-120			
Xylene (p/m)	2.92	0.0250	"	2.50		117	80-120			
Xylene (o)	1.32	0.0250	"	1.25		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/kg	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	44.9		"	40.0		112	80-120			

**Calibration Check (EI60117-CCV1)**

Prepared: 09/01/06 Analyzed: 09/05/06

Benzene	46.8		ug/kg	50.0		93.6	80-120			
Toluene	46.0		"	50.0		92.0	80-120			
Ethylbenzene	42.0		"	50.0		84.0	80-120			
Xylene (p/m)	99.8		"	100		99.8	80-120			
Xylene (o)	47.2		"	50.0		94.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.6		"	40.0		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			

**Matrix Spike (EI60117-MS1)**

Source: 6I01018-01

Prepared: 09/01/06 Analyzed: 09/05/06

Benzene	1.38	0.0250	mg/kg dry	1.36	ND	101	80-120			
Toluene	1.42	0.0250	"	1.36	ND	104	80-120			
Ethylbenzene	1.29	0.0250	"	1.36	ND	94.9	80-120			
Xylene (p/m)	2.93	0.0250	"	2.73	ND	107	80-120			
Xylene (o)	1.25	0.0250	"	1.36	ND	91.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/kg	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.8		"	40.0		84.5	80-120			

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P.O. Box 14167  
Odessa TX, 79768

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI60117 - EPA 5030C (GC)**

Matrix Spike Dup (EI60117-MSD1)		Source: 6I01018-01		Prepared: 09/01/06		Analyzed: 09/05/06				
Benzene	1.32	0.0250	mg/kg dry	1.36	ND	97.1	80-120	3.94	20	
Toluene	1.38	0.0250	"	1.36	ND	101	80-120	2.93	20	
Ethylbenzene	1.26	0.0250	"	1.36	ND	92.6	80-120	2.45	20	
Xylene (p/m)	2.83	0.0250	"	2.73	ND	104	80-120	2.84	20	
Xylene (o)	1.26	0.0250	"	1.36	ND	92.6	80-120	0.759	20	
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/kg	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	43.9		"	40.0		110	80-120			

**Batch EI60118 - Solvent Extraction (GC)**

Blank (EI60118-BLK1)		Prepared: 09/01/06		Analyzed: 09/04/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.6	70-130			
Surrogate: 1-Chlorooctadecane	45.9		"	50.0		91.8	70-130			
LCS (EI60118-BS1)		Prepared: 09/01/06		Analyzed: 09/04/06						
Carbon Ranges C6-C12	500	10.0	mg/kg wet	500		100	75-125			
Carbon Ranges C12-C28	445	10.0	"	500		89.0	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	945	10.0	"	1000		94.5	75-125			
Surrogate: 1-Chlorooctane	57.9		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	48.5		"	50.0		97.0	70-130			
Calibration Check (EI60118-CCV1)		Prepared: 09/01/06		Analyzed: 09/05/06						
Carbon Ranges C6-C12	223		mg/kg	250		89.2	80-120			
Carbon Ranges C12-C28	261		"	250		104	80-120			
Total Hydrocarbons	484		"	500		96.8	80-120			
Surrogate: 1-Chlorooctane	55.3		"	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	52.5		"	50.0		105	70-130			

Environmental Lab of Texas

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Page 6 of 9

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

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI60118 - Solvent Extraction (GC)**

<b>Matrix Spike (EI60118-MS1)</b>		<b>Source: 6I01018-01</b>			<b>Prepared: 09/01/06</b>		<b>Analyzed: 09/04/06</b>			
Carbon Ranges C6-C12	547	10.0	mg/kg dry	545	ND	100	75-125			
Carbon Ranges C12-C28	499	10.0	"	545	ND	91.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1050	10.0	"	1090	ND	96.3	75-125			
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	51.8		"	50.0		104	70-130			
<b>Matrix Spike Dup (EI60118-MSD1)</b>		<b>Source: 6I01018-01</b>			<b>Prepared: 09/01/06</b>		<b>Analyzed: 09/04/06</b>			
Carbon Ranges C6-C12	648	10.0	mg/kg dry	545	ND	119	75-125	16.9	20	
Carbon Ranges C12-C28	581	10.0	"	545	ND	107	75-125	15.2	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1230	10.0	"	1090	ND	113	75-125	15.8	20	
Surrogate: 1-Chlorooctane	60.2		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	50.5		"	50.0		101	70-130			

Environmental Lab of Texas

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

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI60120 - Water Extraction**

**Blank (EI60120-BLK1)**

Prepared & Analyzed: 09/01/06

Chloride ND 0.500 mg/kg

**LCS (EI60120-BS1)**

Prepared & Analyzed: 09/01/06

Chloride 9.84 0.500 mg/kg 10.0 98.4 80-120

**Calibration Check (EI60120-CCV1)**

Prepared & Analyzed: 09/01/06

Chloride 10.6 mg/L 10.0 106 80-120

**Duplicate (EI60120-DUP1)**

Source: 6101010-01

Prepared & Analyzed: 09/01/06

Chloride 1130 25.0 mg/kg 1130 0.00 20

**Matrix Spike (EI60120-MS1)**

Source: 6101010-01

Prepared & Analyzed: 09/01/06

Chloride 1730 25.0 mg/kg 500 1130 120 80-120

**Batch EI60501 - General Preparation (Prep)**

**Blank (EI60501-BLK1)**

Prepared: 09/01/06 Analyzed: 09/05/06

% Solids 100 %

**Duplicate (EI60501-DUP1)**

Source: 6101001-01

Prepared: 09/01/06 Analyzed: 09/05/06

% Solids 94.4 % 94.5 0.106 20

**Duplicate (EI60501-DUP2)**

Source: 6101017-01

Prepared: 09/01/06 Analyzed: 09/05/06

% Solids 86.8 % 88.2 1.60 20

Environmental Lab of Texas

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.*

Page 8 of 9

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Trilogy  
Project Number: None Given  
Project Manager: Robert Spangler

Fax: (432) 366-0884

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

9/5/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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## Environmental Lab of Texas

### 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: Robert Spangler

Project Name: TR1094

Company Name **Elke Environmental, Inc.**

Project #: \_\_\_\_\_

Company Address: 4817 Andrews Hwy

Project Loc: Rencl MC

City/State/Zip: Odessa, TX 79762

PO #: \_\_\_\_\_

Telephone No: 432-366-0043,

**Fax No: 432-366-0884**

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: 

e-mail: [elkeenv@yahoo.com](mailto:elkeenv@yahoo.com)

[illegible]



# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Site: Elke Env.  
 Date/ Time: 9/1/06 2:35  
 Lab ID #: 6101018  
 Initials: OK

### Sample Receipt Checklist

				Client Initials
1	Temperature of container/ cooler?	Yes	No	1.5 °C
2	Shipping container in good condition?	<del>Yes</del>	No	
3	Custody Seals intact on shipping container/ cooler?	<del>Yes</del>	No	Not Present
4	Custody Seals intact on sample bottles/ container?	<del>Yes</del>	No	Not Present
5	Chain of Custody present?	<del>Yes</del>	No	
6	Sample instructions complete of Chain of Custody?	<del>Yes</del>	No	
7	Chain of Custody signed when relinquished/ received?	<del>Yes</del>	No	
8	Chain of Custody agrees with sample label(s)?	<del>Yes</del>	No	ID written on Cont./ Lid
9	Container label(s) legible and intact?	<del>Yes</del>	No	Not Applicable
10	Sample matrix/ properties agree with Chain of Custody?	<del>Yes</del>	No	
11	Containers supplied by ELOT?	<del>Yes</del>	No	
12	Samples in proper container/ bottle?	<del>Yes</del>	No	See Below
13	Samples properly preserved?	<del>Yes</del>	No	See Below
14	Sample bottles intact?	<del>Yes</del>	No	
15	Preservations documented on Chain of Custody?	<del>Yes</del>	No	
16	Containers documented on Chain of Custody?	<del>Yes</del>	No	
17	Sufficient sample amount for indicated test(s)?	<del>Yes</del>	No	See Below
18	All samples received within sufficient hold time?	<del>Yes</del>	No	See Below
19	VOC samples have zero headspace?	<del>Yes</del>	No	Not Applicable

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_  
 Regarding: \_\_\_\_\_

Corrective Action Taken:

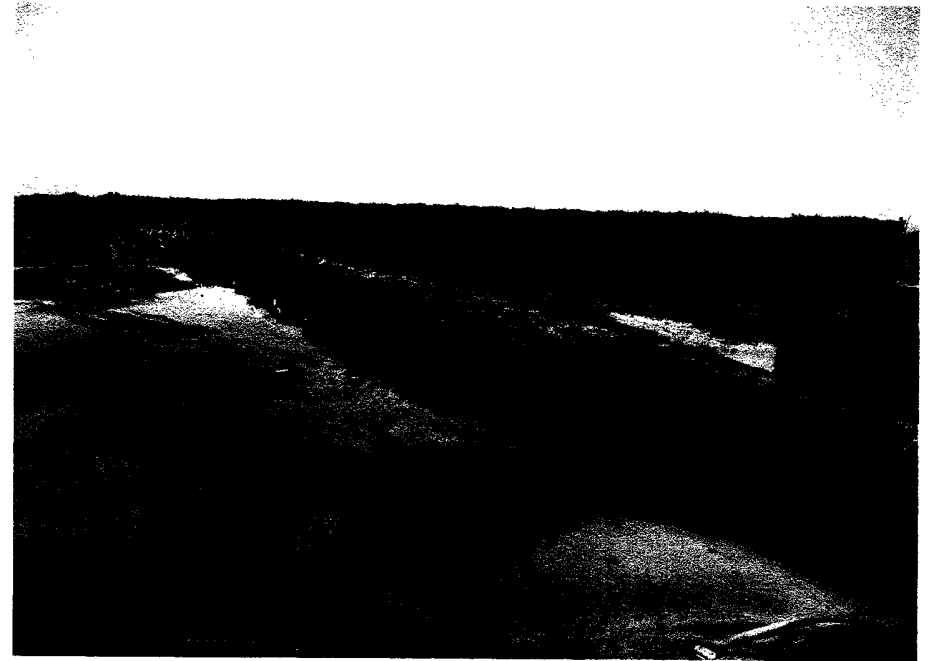
Check all that Apply:

☐  
☐  
☐

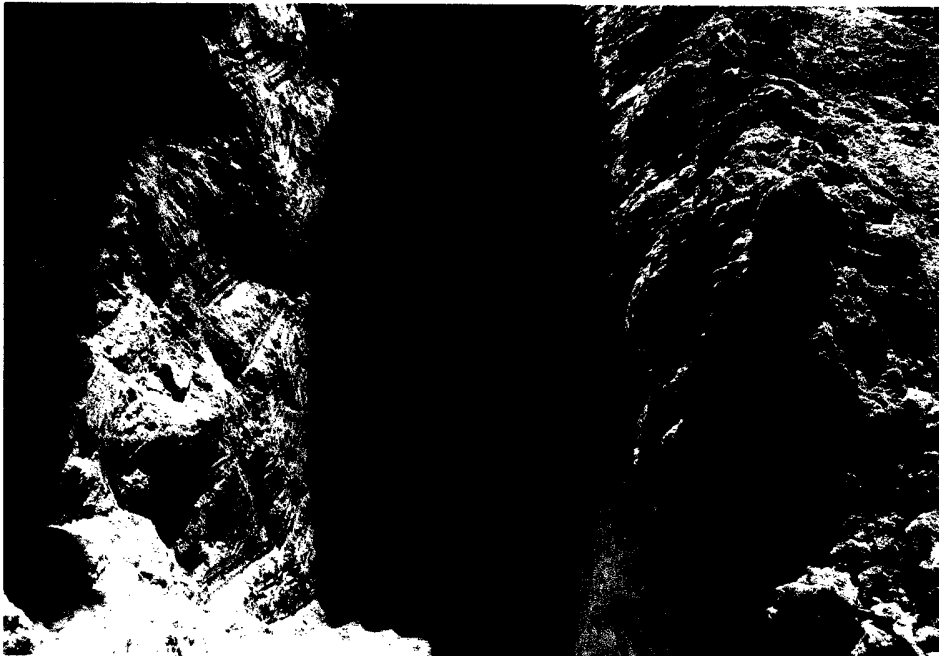
- See attached e-mail/ fax
- Client understands and would like to proceed with analysis
- Cooling process had begun shortly after sampling event



Holes in liner on North West corner of pit



Liner was torn on South West corner of pit



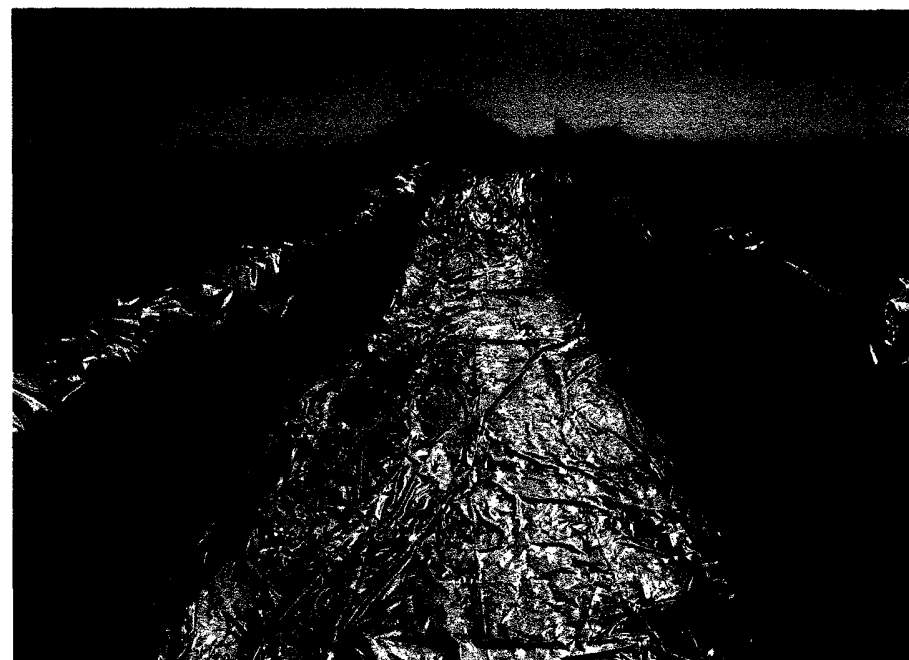
TP #1 @ 8'



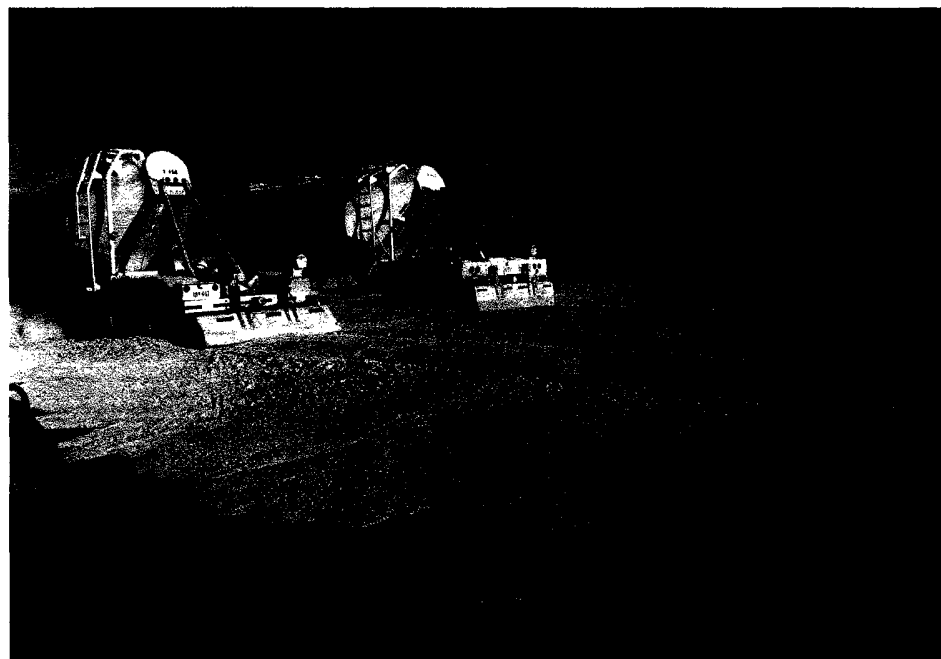
TP #3 @ 8'



Adding water to outside horse shoe for moisture



First burial pit after 20 mil liner



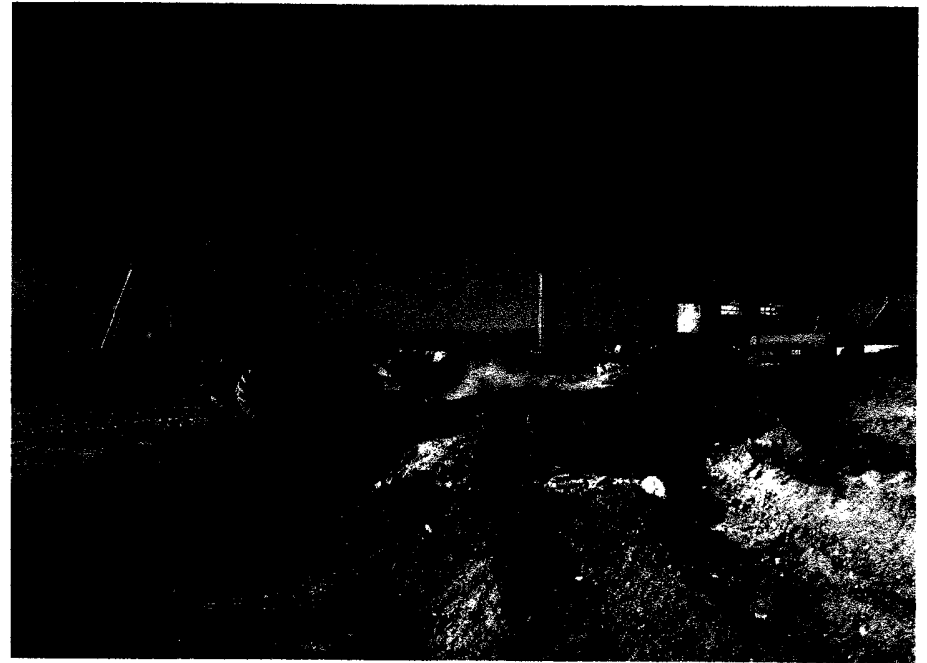
Delivery of solidification material



Spreading Elke's solidification material on the mud



Mixing the solidification material



Transporting solidification material to the trackhoe



Inserting solidified mud into burial pit



Adding water for the mixture of material



Mixing mud from middle horse shoe



#1 Burial pit before 20 mil cap



Pushing drilling mud to trackhoe



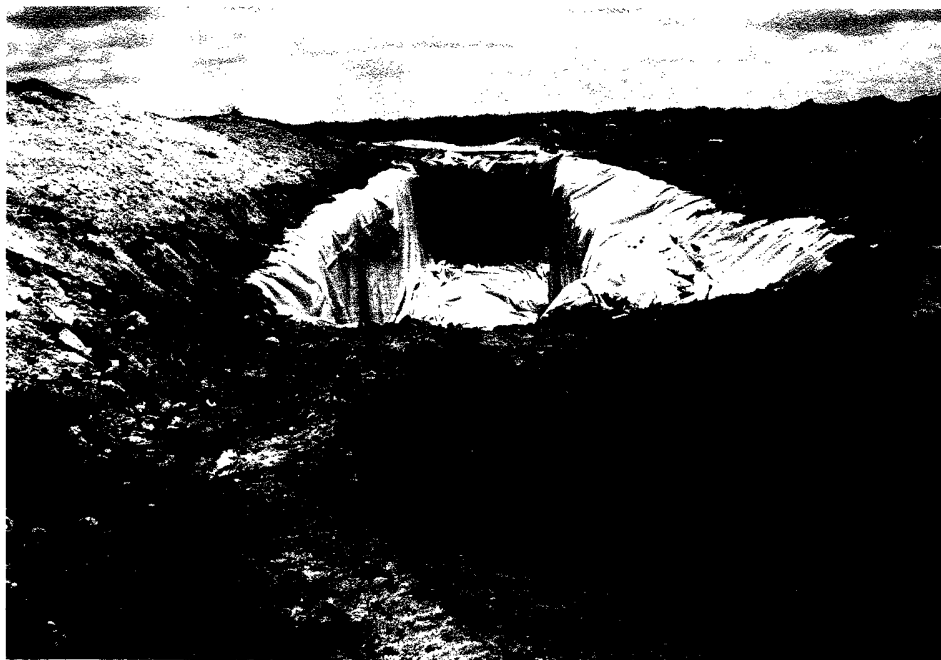
#1 burial pit after 20 mil cap



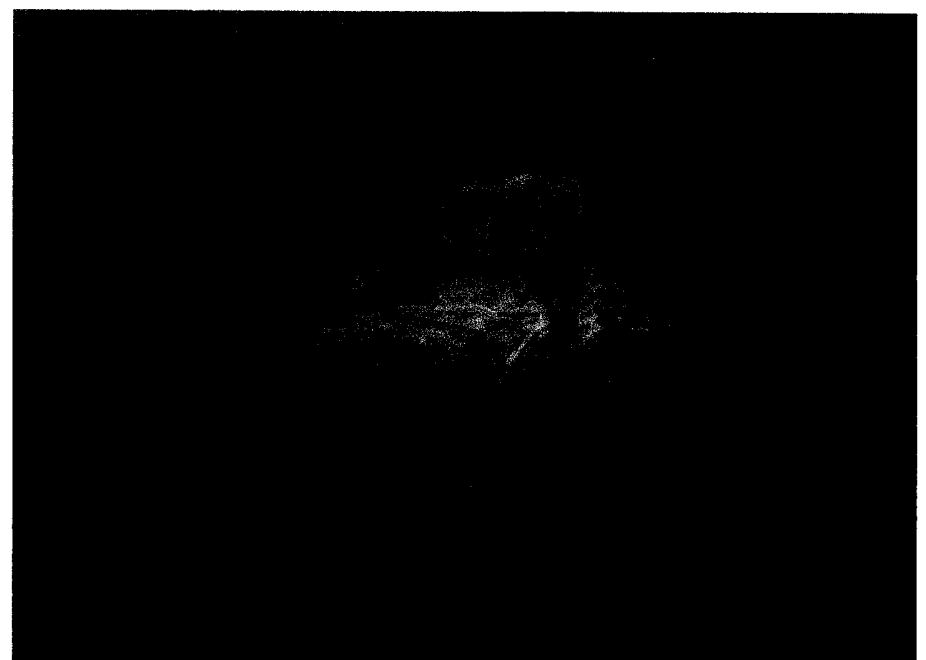
TP #1 removal of contaminated soil



TP #3 after removal of contaminated soil



20 mil in previous liner of second burial pit



20 mil cap on second burial pit



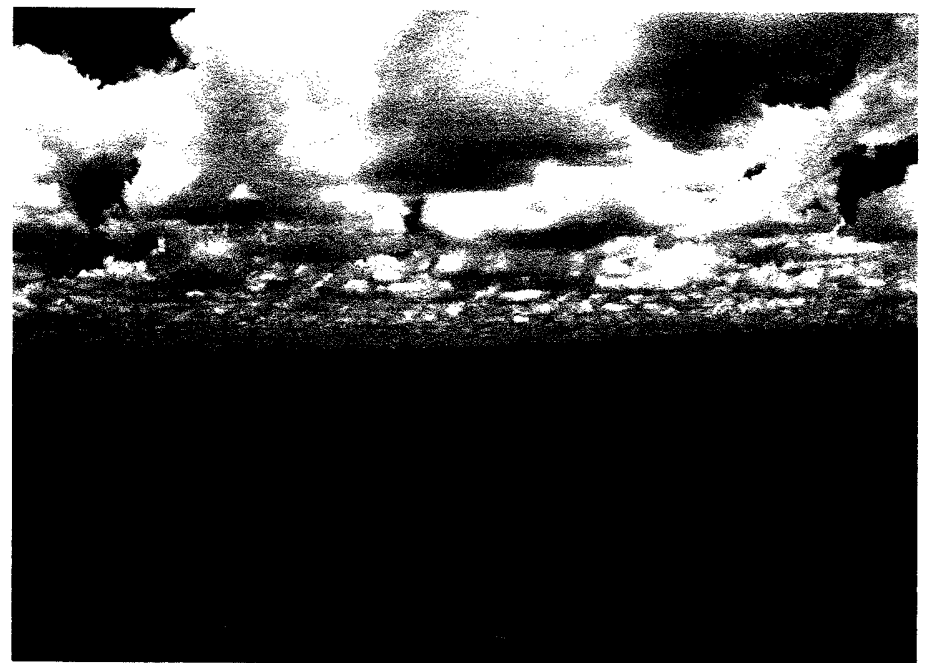
Reserve pit after all the mud was removed



Back filling reserve pit



Pasture after all the pits were finished



Pasture after the pits were covered

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  
St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

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

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: <u>Trilogy Operating, Inc.</u> Telephone: <u>432-686-2027</u> e-mail address: _____		
Address: <u>P.O. Box 7606 Midland, Tx. 79708</u>		
Facility or well name: <u>Rene MC #001</u> API #: <u>30-025-37591</u> U/L or Qtr/Qtr <u>J</u> Sec <u>7</u> T <u>20s</u> R <u>39e</u>		
County: <u>Lea</u> Latitude <u>32°35'08.53"N</u> Longitude <u>103°04'56.43"</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> 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 50 feet or more, but less than 100 feet 100 feet or more	(20 points) <input checked="" type="checkbox"/> (10 points) ( 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 No	(20 points) ( 0 points) <input checked="" type="checkbox"/>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) ( 0 points) <input checked="" type="checkbox"/>
<b>Ranking Score (Total Points)</b>		<b>20 Points</b>

**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 you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_. (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: <b>Revised</b> Drilling Pit Closure Plan: Excess water will be removed from the pit. A deep burial pit will be constructed and lined with a 12 mil impervious liner with a minimum of 3 ft. overhang on all sides. The pit contents will be mixed in a 16 parts pit contents to 1 part fly ash ratio and allowed to set for 24 hours to promote solidification. A 20 mil liner with a 3 ft. overlap on all sides will then be placed over the contents. The pit will then be covered with 3 ft. of clean native soil and domed to prevent pooling.	
Work start date: 8-28-06	Work completion date: unk
A drawing of the site will be attached upon closing. Groundwater depth approximately 45 ft. per New Mexico State Engineer information.	

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: 8-28-06

Printed Name/Title C. H. Kerby - Elke Environmental, Inc./Agent

Signature C. H. Kerby

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 \_\_\_\_\_

Date: \_\_\_\_\_



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

Form C-144  
June 1, 2004

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

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: <u>Trilogy Operating, Inc.</u> Telephone: <u>432-686-2027</u> e-mail address: <u>Chris Smith csmith@trilogyperating.com</u>		
Address: <u>P.O. Box 7606 Midland, Tx. 79708</u>		
Facility or well name: <u>Rene MC #001</u> API #: <u>30-025-37591</u> U/L or Qtr/Qtr <u>J</u> Sec <u>7</u> T <u>20s</u> R <u>39e</u>		
County: <u>Lea</u> Latitude <u>32°35'08.53"N</u> Longitude <u>103°04'56.43"</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness <u>      </u> mil Clay <input type="checkbox"/> Pit Volume <u>      </u> bbl	<b>Below-grade tank</b> Volume: <u>      </u> bbl Type of fluid: <u>                                </u> Construction material: <u>                                </u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. <u>  </u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) X (10 points) ( 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 No	(20 points) ( 0 points) X
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) ( 0 points) X
<b>Ranking Score (Total Points)</b>		<b>20 Points</b>

**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 you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility                                 . (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: <b>Drilling Pit Closure Report:</b> Excess water was removed from the pit. Two deep burial pits were constructed and lined with a 20 mil impervious liner with a minimum of 3 ft. overhang on all sides. The pit contents were then mixed in a NMOCD approved solidification material and ratio and allowed to set for 24 hours to promote solidification. A 20 mil liner with a 3 ft. overlap on all sides was placed over the contents. The pits were then covered with 3 ft. of clean native soil and domed to prevent pooling. Work start date: 8-28-06 Work completion date: 9-12-06
A drawing of the site is attached upon. Groundwater depth is approximately 45 ft. per New Mexico State Engineer information.

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: 9-13-06

Printed Name/Title C. H. Kerby - Elke Environmental, Inc./Agent email: elkeenv@yahoo.com Signature C. H. Kerby

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    Date: