## District I 1625 N. French'Dr., Hobbs, NM 88240 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

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office

1220 South St. Francis Dr. Santa Fe, NM 87505 Pit or Below-Grade Tank Registration or Closure

**Final Report** 

Form C-144 June 1, 2004

Type of action: Registration of a pit o	r below-grade tank \( \subseteq \text{Closure of a pit or below-grade} \)	le tank 🔯						
Operator: Tandem Energy Corporation Telephone:	432-686-7136 e-mail address: <u>tscott@t</u>	andem-energy.com						
Address: P O Box 1559 Midland, TX 79702								
Facility or well name: Ballard Grayburg San Andres #235 API #: 30-01:	5-35970 U/L or Otr/Otr N Sec	c 5 T 18S R 29E						
County: Eddy Latitude 32.7724208 Longitude 104.1002034 NAD: 1927 🛭 1983 🗌 Surface Owner: Federal 🖺 State 🗌 Private 🗌 Indian 🗍								
<u>Pit</u>	Below-grade tank							
Type: Drilling Production Disposal Volume:bbl Type of fluid:								
Workover ☐ Emergency ☐ Construction material:								
Lined 🛛 Unlined 🔲	Double-walled, with leak detection? Yes If not	, explain why not.						
Liner type: Synthetic ☑ Thickness 12 mil Clay ☐								
Pit Volumebbl								
	Less than 50 feet	(20 points)						
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)						
high water elevation of ground water.)	100 feet or more	( 0 points) XXX						
Wallhard material and a (Loss than 200 feet from a minute demostic	Yes	(20 points)						
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	No	( 0 points) XXX						
water source, or less than 1000 feet from an other water sources.)	V 4 200 C							
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)						
ion canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)						
	1000 feet or more	( 0 points) XXX						
	Ranking Score (Total Points)	0 points						
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if						
your are burying in place) onsite 🛛 offsite 🔲 If offsite, name of facility	. (3) Attach a general de	escription of remedial action taken including						
remediation start date and end date. (4) Groundwater encountered: No 🛛 Y	es If yes, show depth below ground surface	ft. and attach sample results.						
(5) Attach soil sample results and a diagram of sample locations and excavat	ions.							
Additional Comments: All excess drilling fluids were removed. A burial p	it was constructed and lined with a 12 mil poly liner.	The drilling mud was mixed with dry soil to						
stiffen then placed in the burial pit. After all mud and drilling liner was ren	noved the pit bottoms were sampled per NMOCD Gu	idelines. The samples did not meet NMOCD						
Standards and a delineation was performed. All contamination above 1,000	ppm chlorides was excavated and deep buried in a se	econd burial trench constructed inside the old						
drilling pit that was lined with a new 12 mil poly liner. Both burial pits we	re capped with a 20 mil poly liner overlapping 3' in al	ll directions. The site was then backfilled with						
clean native soil and contoured to the surrounding area. The site was seede	ed with BLM Seed Mixture #2.							
I hereby certify that the information above is true and complete to the best	of my knowledge and helief. I further contify that the	as above described wit on below and a toul						
has been/will be constructed or closed according to NMOCD guidelines	of my knowledge and beneft. I further certify that the $\boxtimes$ , a general permit $\square$ , or an (attached) alternate	ive OCD-approved plan .						
alimad								
Date 7/15/08	P 13 B-1	1h.la						
Printed Name/Title Brandi Barthels Env. + Reg. Affairs M.								
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the	ot relieve the operator of liability should the contents one operator of its responsibility for compliance with an	of the pit or tank contaminate ground water or						
regulations.	are approximate or the reopensionary to a compilation with an	y outer reading, state, or room taws and/or						
inl.	Accepted for record							
val: Printed Name/Title	NMOCD	JAN 2 8 2008						
Printed Name/Title	Signature	THEFT A G EUL						

## **Closure Report**

JUL 2 1 2008 OCD-ARTESIA

Prepared for Tandem Energy

### Ballard Grayburg San Andres #235 API # 30-015-35970 Eddy County, NM

Prepared by **Elke Environmental, Inc.** 

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

### Elke Environmental, Inc.

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

July 2, 2008

New Mexico Oil Conservation Division Mr. Mike Bratcher 1301 West Grand Ave. Artesia, New Mexico 88210

Re: Drilling Pit Closure of Tandem Energy – Ballard Grayburg #235

UL 'N' Sec. 5 T18S R29E Eddy County

API# 30-015-35970

Mr. Mike Bratcher,

Elke Environmental was contracted by Tandem Energy to complete the closure of the Ballard Grayburg San Andres #235 drilling pit. The initial C-144 was filed and signed by Mike Bratcher on 6-4-08. Work started on 6-10-08, a burial pit was constructed and lined with a 12 mil liner. The drilling mud was mixed with dry soil to stiffen then placed in the burial pit. After all mud and liner was removed the pit bottoms were sampled per NMOCD Guidelines. The samples did not meet NMOCD Standards for this site. As per the conversation between Mike Bratcher and Robert Spangler (Elke) on 6-18-08, a delineation was performed and all chloride contamination above 1,000 ppm was excavated. A second burial pit was constructed inside the old drilling pit area and the contaminated soil was placed in that burial pit. The burial pits were capped with a 20 mil poly liner overlapping 3' in all directions and then the site was backfilled with clean native soil and contoured to the surrounding area. The site was seeded with BLM Seed Mixture #2. If you have any questions about the enclosed report please contact me at the office.

Sincerely,

Logan Anderson

Tandem Energy – Ballard Grayburg Unit #23-5 Plat Map 84' 32° 46.335' N 32° 46.337' N 32° 46.340' N 32° 46.353' N 104° 06.032' W 104° 06.034' W 104° 06.036' W 104° 06.043' W **● TP6 TP3** • **Old Drilling Pit** 25' **Second Burial Pit** 52' • TP5 TP2 ● **First Burial Pit** 13' 61' • TP4 TP1 ● 32° 46.355' N 104° 06.033' W \_ 32° 46.343' N 104° 06.027' W 19' Wellhead 32° 46.355' N 104° 06.031' W 32° 46.336' N 32° 46.340' N 104° 06.021' W 104° 06.023' W

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

## Field Analytical Report Form

Client Tandem Energy	Analyst	Robert Spangler	
Site Ballard Grayburg Unit #23-5			

Sample ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS
TP1	6-17-08	5'		21,650		32° 46.351' N 104° 06.037' W
		······································				32° 46.351' N
TP1	6-17-08	12'		2,181	}	104° 06.037' W
TP1	6-17-08	14'		9,417		32° 46.351' N
11 1	0 17-00			7,717		104° 06.037' W
TP1	6-17-08	16'		3,410		32° 46.351' N
						104° 06.037' W 32° 46.351' N
TP1	6-17-08	18'		2,621		104° 06.037' W
TP1	6-17-08	20'		1,660		32° 46.351' N
111	0-17-08	20		1,000		104° 06.037' W
TP1	6-17-08	22,		1,581		32° 46.351' N
				-,		104° 06.037' W
TP1	6-17-08	24'	Ì	238	14.5	32° 46.351' N 104° 06.037' W
				4.7.0.00		32° 46.350' N
TP2	6-17-08	5'		15,860	1	104° 06.039' W
TP2	6-17-08	12'		5,398		32° 46.350' N
112	0-17-08	12		3,376		104° 06.039' W
TP2	6-17-08	14'		2,504		32° 46.350° N
						104° 06.039' W 32° 46.350' N
TP2	6-17-08	16'		7,823	^	104° 06.039' W
TP2	6-17-08	18'		1,261		32° 46.350' N
1172	0-17-08	10		1,201		104° 06.039' W
TP2	6-17-08	20'		300	19.1	32° 46.350' N
						104° 06.039' W
TP3	6-17-08	5'		17,717		32° 46.349' N 104° 06.041' W
TDO	6.15.00	103		- 1-0		32° 46.349' N
TP3	6-17-08	12'		5,429	[	104° 06.041' W
TP3	6-17-08	14'		2,167		32° 46.349° N
			<u> </u>	L	<u></u>	104° 06.041' W

<b>Analyst Notes</b>	§	

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

## Field Analytical Report Form

ient_Tandem E	ent_Tandem Energy		Analyst	Robert Spangler			
te <u>Ballard Gra</u>	yburg Unit	#23-5					
Sample ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS	
TP3	6-17-08	16'		1,951		32° 46.349' N 104° 06.041' W	
TP3	6-17-08	18'		241	9.1	32° 46.349' N 104° 06.041' W	
TP4	6-17-08	5'		25,218		32° 46.345' N 104° 06.029' W	
TP4	6-17-08	12'	***************************************	12,687		32° 46.345' N 104° 06.029' W	
TP4	6-17-08	17'		292	11.9	32° 46.345' N 104° 06.029' W	
TP5	6-17-08	5'		24,652		32° 46.344' N 104° 06.031' W	
TP5	6-17-08	12'		11,064		32° 46.344' N 104° 06.031' W	
TP5	6-17-08	17'		993		32° 46.344' N 104° 06.031' W 32° 46.344' N	
TP5	6-18-08	19'		119	15.7	104° 06.031' W 32° 46.343' N	
TP6	6-17-08	5'		16,342		104° 06.033' W 32° 46.343' N	
TP6	6-17-08	12'		2,124		104° 06.033' W 32° 46.343' N	
TP6	6-17-08	14'		1,000	17.3	104° 06.033' W 32° 46.343' N	
TP6	6-18-08	16' Surface		257	17.3	104° 06.033' W	
Background	0-17-08	Surface		179			

<b>Analyst Note</b> :	S



Excavation of contaminated soil below old drilling pit.

Tandem Energy - Ballard Grayburg San Andres #235



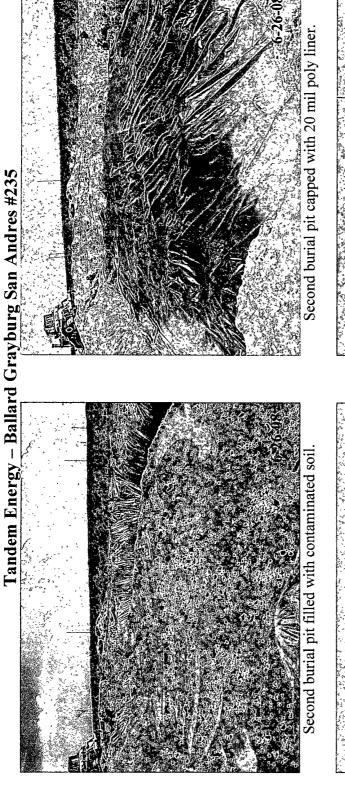
Drilling pit before closure.

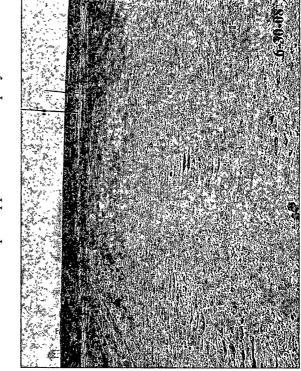




First burial pit capped with 20 mil poly liner.

First burial pit filled with stiffened drilling mud.





Site after backfill and contouring of clean soil.

Site after backfill and contouring of clean soil.



Drilling pit before closure.



First burial pit lined with 12 mil poly liner.



First burial pit capped with 20 mil poly liner.

First burial pit filled with stiffened drilling mud.

Delineation trench below old drilling pit. Tandem Energy – Ballard Grayburg San Andres #235 Delineation trench below old drilling pit.

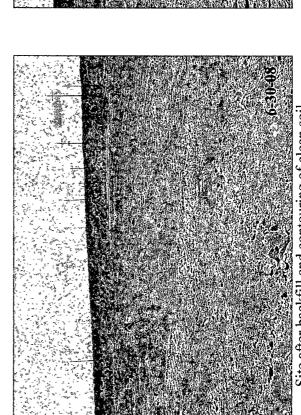


Excavation of contaminated soil below old drilling pit.

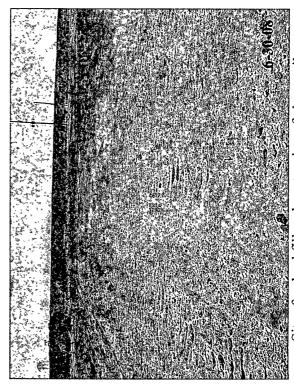
Construction of second burial pit inside old drilling pit area.

Second burial pit capped with 20 mil poly liner.

Second burial pit filled with contaminated soil



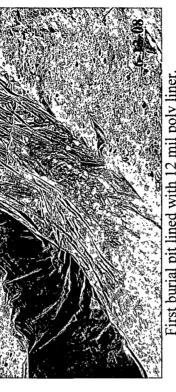
Site after backfill and contouring of clean soil.



Site after backfill and contouring of clean soil.



Drilling pit before closure.

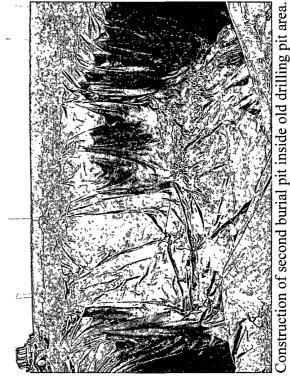


First burial pit lined with 12 mil poly liner.



First burial pit capped with 20 mil poly liner.

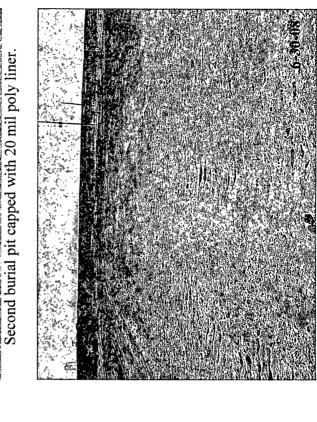
First burial pit filled with stiffened drilling mud.



Excavation of contaminated soil below old drilling pit.

Tandem Energy – Ballard Grayburg San Andres #235

Second burial pit filled with contaminated soil.



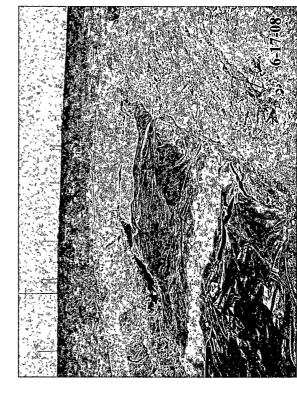
Site after backfill and contouring of clean soil.

Site after backfill and contouring of clean soil.

Tandem Energy - Ballard Grayburg San Andres #235

First burial pit lined with 12 mil poly liner.

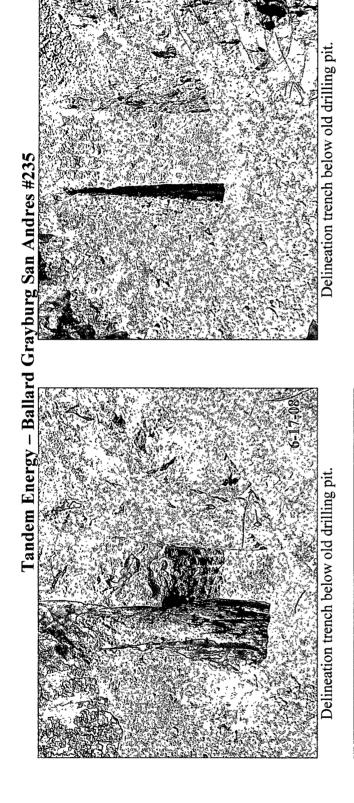
Drilling pit before closure.

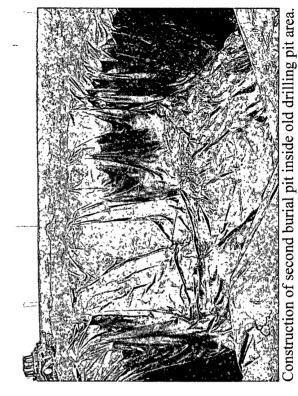


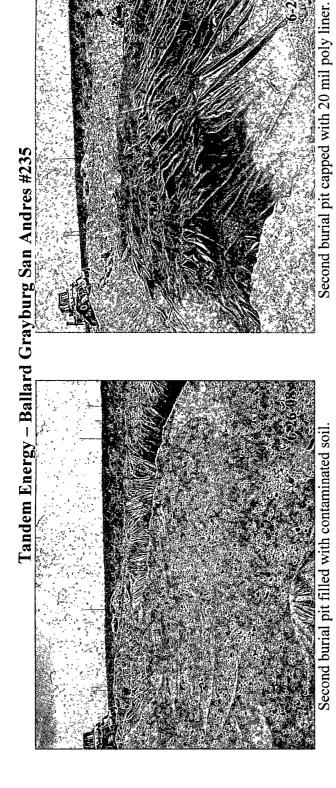
First burial pit capped with 20 mil poly liner.

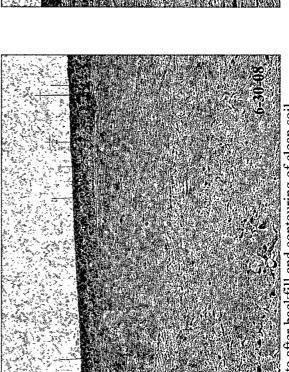
First burial pit filled with stiffened drilling mud

Excavation of contaminated soil below old drilling pit.









Site after backfill and contouring of clean soil.



## **Analytical Report 306173**

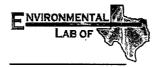
for

Elke Environmental, Inc.

**Project Manager: Logan Anderson** 

**Tandem Energy** 

26-JUN-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





26-JUN-08

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

Reference: XENCO Report No: 306173

**Tandem Energy** 

Project Address: Ballard Grayburg San Andres # 235

#### Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 306173. 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. 306173 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

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### **Sample Cross Reference 306173**



### Elke Environmental, Inc., Odessa, TX

Tandem Energy

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
TP1 @ 24' BGS	S	Jun-17-08 17:00	24 ft	306173-001
TP2 @ 20' BGS	S	Jun-17-08 16:00	20 ft	306173-002
TP3 @ 18' BGS	S	Jun-17-08 15:30	18 ft	306173-003
TP4 @ 17' BGS	S	Jun-17-08 14:00	17 ft	306173-004
TP5 @ 19' BGS	S	Jun-17-08 16:00	19 ft	306173-005
TP6 @ 16' BGS	S	Jun-17-08 16:15	16 ft	306173-006



### Certificate of Analois Summary 306173

### Elke Environmental, Inc., Odessa, TX

Project Name: Tandem Energy

Project Id:

Contact: Logan Anderson

Project Location: Ballard Grayburg San Andres # 235

Date Received in Lab: Thu Jun-19-08 10:31 am

Report Date: 26-JUN-08

Project Manager: Brent Barron, II

								Froject Ma	uager:	brent barron,	11		
	Lab Id:	306173-0	01	306173-0	002	306173-0	03	306173-0	04	306173-0	05	306173-0	06
Analysis Daguastad	Field Id:	TP1 @ 24'	BGS	TP2 @ 20'	BGS	TP3 @ 18'	BGS	TP4 @ 17'	BGS	TP5 @ 19'	BGS	TP6 @ 16' H	BGS
Analysis Requested	Depth:	24 ft		20 ft		18 ft		17 ft		19 ft		16 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-17-08	7.00	Jun-17-08	16:00	Jun-17-08 1	5:30	Jun-17-08	4:00	Jun-17-08 1	6:00	Jun-17-08 1	6:15
Inorganic Anions by EPA 300	Extracted:												
	Analyzed:	Jun-19-08	15 47	Jun-19-08	15.47	Jun-19-08 1	5.47	Jun-19-08	15:47	Jun-19-08 1	5.47	Jun-19-08 1	5 47
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		228	5.00	129	5.00	200	5.00	188	5.00	83.7	5.00	65.5	5.00
Percent Moisture	Extracted:												
	Analyzed:	Jun-25-08 08:20		Jun-20-08 08:20 Jun-2		Jun-20-08 08:20		Jun-20-08 08.20		Jun-20-08 08:20		Jun-20-08 08:20	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.77	1 00	3 47	1 00	4.73	1.00	6.12	1 00	3.63	1.00	5.97	1.00
TPH by SW8015 Mod	Extracted:	Jun-19-08	16:15	Jun-19-08	16 15	Jun-19-08 1	6.15 -	Jun-19-08	16:15	Jun-19-08 1	6.15	Jun-19-08 1	16.15
11 11 57 5 11 50 15 11 10 11	Analyzed:	Jun-20-08	02:27	Jun-20-08 (	Jun-20-08 02:58		3.28	Jun-20-08 03:57		Jun-20-08 04·27		Jun-20-08 0	)4:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	11 2	ND	15 5	ND	15.7	ND	16 0	ND	15 6	ND	16.0
C12-C28 Diesel Range Hydrocarbons		12.5	11.2	ND	15.5	ND	15.7	ND	160	ND	15.6	ND	16 0
C28-C35 Oil Range Hydrocarbons		ND	11.2	ND	15.5	ND	15 7	ND	16.0	ND	15.6	ND	16.0
Total TPH		12.5		ND		ND		ND		ND		ND	

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

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron Odessa Laboratory Director

# XENCO Laboratories

### **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- \* Outside XENCO'S scope of NELAC Accreditation

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(210) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
6017 Financial Dr., Norcross, GA 30071	(770) 449-8800	(770) 449-5477



### Form 2 - Surrogate Recoveries

**Project Name: Tandem Energy** 



**Work Order #: 306173** 

Project ID:

Lab Batch #: 726099

Sample: 306173-001 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	95.6	100	96	70-135				
o-Terphenyl	53.2	50.0	106	70-135				

Lab Batch #: 726099

Sample: 306173-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	100	100	100	70-135			
o-Terphenyl	56.5	50.0	113	70-135			

Lab Batch #: 726099

Sample: 306173-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes		, ,	[D]				
1-Chlorooctane	94.4	100	94	70-135			
o-Terphenyl	52.1	50.0	104	70-135			

Lab Batch #: 726099

Sample: 306173-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctanc	94.7	100	95	70-135				
o-Terphenyl	51.9	50.0	104	70-135				

Lab Batch #: 726099

Sample: 306173-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	95.2	100	95	70-135	,			
o-Terphenyl	52.5	50.0	105	70-135				

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

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

<sup>\*\*\*</sup> Poor recoveries due to dilution



### Form 2 - Surrogate Recoveries



Project Name: Tandem Energy

Work Order #: 306173

Project ID:

Lab Batch #: 726099

Sample: 306173-004 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	92.8	100	93	70-135				
o-Terphenyl	51.2	50.0	102	70-135				

Lab Batch #: 726099

Sample: 306173-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	91.1	100	91	70-135				
o-Terphenyl	50.7	50.0	101	70-135				

Lab Batch #: 726099

Sample: 306173-006 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
Analytes			[2]						
1-Chlorooctane	94.2	100	94	70-135					
o-Terphenyl	52.0	50.0	104	70-135					

Lab Batch #: 726099

**Sample:** 510994-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	103	100	103	70-135	L			
o-Terphenyl	60.3	50.0	121	70-135				

Lab Batch #: 726099

**Sample:** 510994-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	97.5	100	98	70-135				
o-Terphenyl	54.0	50.0	108	70-135	· · · · ·			

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

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

<sup>\*\*\*</sup> Poor recoveries due to dilution



### Form 2 - Surrogate Recoveries



**Project Name: Tandem Energy** 

Work Order #: 306173

Project ID:

Lab Batch #: 726099

Sample: 510994-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery Limit		Flags			
Analytes			[D]					
1-Chlorooctane	107	100	107	70-135				
o-Terphenyl	59.8	50.0	120	70-135				

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

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution Surrogate Recovery [D] = 100 \* A / B



### **Blank Spike Recovery**



**Project Name: Tandem Energy** 

Work Order #: 306173

Project ID:

Lab Batch #: 725948

Sample: 725948-1-BKS

Matrix: Solid

**Date Analyzed:** 06/19/2008

**Date Prepared: 06/19/2008** 

Analyst: LATCOR

Reporting Units: mg/kg 1 BLANK/BLANK SPIKE RECOVERY STUDY

reporting current make	DEAL VIEW DIT	KE KEC	OVERT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Inorganic Anions by EPA 300	Blank Result	Spike Added	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[A]	[B]	[C]	[D]	70K	
Chloride	ND	10.0	11.0	110	75-125	

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

Page 9 of 15







Project Name: Tandem Energy

Work Order #: 306173

Analyst: ASA

Date Prepared: 06/19/2008

Project ID:

**Date Analyzed:** 06/20/2008

Lab Batch ID: 726099

Sample: 510994-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK S	SPIKE / I	BLANK S	PIKE DUPI	ICATE 1	RECOVI	ERY STUL	)Y	
TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	ND	1000	857	86	1000	956	96	11	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	860	86	1000	949	95	10	70-135	35	

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



### Form 3 - MS Recoveries

**Project Name: Tandem Energy** 



Work Order #: 306173

Lab Batch #: 725948

**QC- Sample ID:** 306150-001 S

**Date Prepared:** 06/19/2008 **Date Analyzed:** 06/19/2008

Project ID:

Analyst: LATCOR

Batch #: 1 Matrix: Soil MATDIY / MATDIY CDIVE DECOVEDY CTUDY

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Chloride	6.93	100	136	129	75-125	Х	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference [E] = 200\*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes



## Form 3 - S / MSD Recoveries

Project Name: Tandem Energy

Work Order #: 306173

Project ID:

Lab Batch ID: 726099

QC-Sample ID: 306173-001 S

Batch #:

Matrix: Soil

**Date Analyzed:** 06/20/2008

Reporting Units: mg/kg

**Date Prepared:** 06/19/2008

ASA Analyst:

MATRIX SPIKE / 1	MATRIX SPIKE	DUPLICATE	RECOVERY STUDY	

		141	MINASIIN	L / IVIAL	KIA SI I	KE DUFLICA	IE KEC	OVERT	3101		
TPH by SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample	•	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	749	643	86	749	605	81	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	12.5	749	592	77	749	544	71	8	70-135	35	



### **Sample Duplicate Recovery**



**Project Name: Tandem Energy** 

Work Order #: 306173

Lab Batch #: 725948 **Date Analyzed:** 06/19/2008 Project ID:

Date Prepared: 06/19/2008

Analyst: LATCOR

QC- Sample ID: 306150-001 D

Batch #: 1

Reporting Units: mg/kg	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	6.93	5.57	22	20	F

Lab Batch #: 725954

Date Analyzed: 06/20/2008

**Date Prepared:** 06/20/2008

Analyst: IRO

QC-Sample ID: 306150-001 D

Batch #:

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Keporting Onto: 70	SAMILE!	DAMINI LAD	DUILIC	AIE KEC	OVERI
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	10.0	8.99	11	20	

Lab Batch #: 726310

Date Analyzed: 06/25/2008

**Date Prepared:** 06/25/2008

Analyst: IRO

**QC- Sample ID:** 306435-004 D

Batch #:

Matrix: Soil

Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	11.1	10.9	2	20	

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

Page 14 of 15		
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Project Manager	Logan Anderson												Pr	oject i	tame	7	Aud	em	F.	nex	<u>5</u> 4			
Company Name	Elke Environmen	tal												Pro	ect#						ر ت			
Company Address	P O Box 14167													Prolec	t Loc	b	2/	lue	J	Ge	au h		j Sa	N A
City/State/Zip	Odessa, TX 7976	8													PO#		,	/-	-		7			
Telephone No	432-366-0043				Cay Na		30.3	66-0	20/	4		_				_	<u></u>	ndard		П	TRRI		П	1005
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Environmental Lab of Texas

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

Client	Elke Enu.
Date/ Time	619.08 10:31
Lab ID#	304173
Initials	aL

#### Sample Receipt Checklist

#1	Temperature of container/ cooler?	(e)	No	-3.0 °C
¥2	Shipping container in good condition?	(e)s	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Mot Present
#4	Custody Seals intact on sample bottles/ container?	<b>1</b> Ge	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	/es	No	
#7	Chain of Custody signed when relinquished/ received?	Ye)s	No	
#8	Chain of Custody agrees with sample label(s)?	(es	No	ID written on Cont / Lid
#9	Container label(s) legible and intact?	(e)	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	(es	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes)	No	
#15	Preservations documented on Chain of Custody?	Ves	No	
#16	Containers documented on Chain of Custody?	(ee	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	(GS	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable

#### Variance Documentation

Contact		 Contacted by.		 Date/ Time	
Corrective Action	Taken				
Check all that Ap	ply.	See attached e-ma Client understands Cooling process ha	and would like to		

Form C-144 June 1, 2004

4323660884

05/30/2008 09:48 432 <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenuc, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fc, NM 87505

submitted to OCD prior to back-filling.

### State of New Mexico **Energy Minerals and Natural Resources**

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 X No ...

Address: PO Box 1559 Midland, TX 79702	ne: 432-686-7136 e-mail address; 1300	
Facility or well name: Ballard Grayburg San Andres #235 API #: 30	1-015-35970 U/L or Otr/Otr N	Sec 5 T 18S R 295
County: Eddy Latitus	de 32.7724208 Lonsitude 104.	1002034 NAD: 1927 ▼ 1983 □
Surface Owner: Federal 🛭 State 🗌 Private 🔲 Indian 🗍		
ele ele	Below-grade tank	
Type; Drilling 🛭 Production 🗌 Disposal 🗍	Volume:bbl Type of fluid:	
Workover ☐ Emergency ☐	Construction material:	
Lined 🔯 Unlined 🔲	Double-walled, with leak detection? Yes 🔲 li	
Liner type Synthetic M Thickness 12 mil Clay		
Pit Volumebbl		
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
Depart to ground water (vertical distance from bottom of pit to seasonal high water cicvation of ground water.)	50 feet or more, but less than 100 feet	(10 points)
iišii ame Altannii (ii Riomin amri')	100 feet or more	( 0 points) XXX
Wellhead protection area (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources,)	No	( 0 points) XXX
rule some, or less than 1000 that their mile water soulcos,	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playes,	200 feet or more, but less than 1000 feet	(10 points)
irrigation canals, ditches, and percennal and ephemeral watercourses)	1000 feet or more	( 0 points) XXX
		0 points
	Rauking Score (Total Points)	O purites
our are burying in place) onsite 🛛 offsite 🔲 If offsite, name of facilit	pit's relationship to other equipment and tanks (2) Ir	ral description of remedial action taken includi
our are burying in place) onsite  offsite  foffsite, name of facility mediation start date and end date. (4) Groundwater encountered; No	pit's relationship to other equipment and tanks (2) Ir  y	ral description of remedial action taken includi
our are burying in place) onsite  offsite  foffsite, name of facility mediation start date and end date. (4) Groundwater encountered; No  Attach soil sample results and a diagram of sample locations and exce	pit's relationship to other equipment and tanks (2) In  y	ral description of remedial action taken including the and attach sample results.
our are burying in place) onsite  offsite  foffsite, name of facility mediation start date and end date. (4) Groundwater encountered; No  Attach soil sample results and a diagram of sample locations and exceeded the sample continues. All excess drilling fluids will be removed. A but	pit's relationship to other equipment and tanks (2) Ir  y	ral description of remedial action taken including the and attach sample results.
our are burying in place) onsite  offsite  foffsite, name of facility mediation start date and end date. (4) Groundwater encountered; No  Attach soil sample results and a diagram of sample locations and except Additional Comments: All excess drilling fluids will be removed. A but To stiffen then placed in the burial pit. After all mud and drilling lines	pit's relationship to other equipment and tanks (2) In  y	nal description of remedial action taken including the and attach sample results.  The drilling mud will be mixed with dry so a NMOCD Guidelines. After samples meet
our are burying in place) onsite  offsite  foffsite, name of facility mediation start date and end date. (4) Groundwater encountered; No  Attach soil sample results and a diagram of sample locations and exceeded the facility of sample locations and exceeded the facility of stiffen then placed in the hurial pit. After all mud and drilling lines NMOCD Standards and NMOCD gives permission the pit will be back	pit's relationship to other equipment and tanks (2) In  y	nal description of remedial action taken including the and attach sample results.  The drilling mud will be mixed with dry so a NMOCD Guidelines. After samples meet
our are burying in place) onsite offsite if offsite, name of facility mediation start date and end date. (4) Groundwater encountered; No is Attach soil sample results and a diagram of sample locations and except Additional Comments: All excess drilling fluids will be removed. A but To stiffen then placed in the hurial pit. After all mud and drilling lines NMOCD Standards and NMOCD gives permission the pit will be back	pit's relationship to other equipment and tanks (2) In  y	ral description of remedial action taken including the and attach sample results.  The drilling mud will be mixed with dry so the NMOCD Guidelines. After samples meet
our are burying in place) onsite offsite if offsite, name of facility mediation start date and end date. (4) Groundwater encountered; No is Attach soil sample results and a diagram of sample locations and exceeded and in the facility fluids will be removed. A but to stiffen then placed in the hurial pit. After all mud and drilling liner NMOCD Standards and NMOCD gives permission the pit will be back Appropriate BLM Seed Mixture.	pit's relationship to other equipment and tanks (2) In  y	nal description of remedial action taken including the and attach sample results.  The drilling mud will be mixed with dry so a NMOCD Guidelines. After samples meet
our are burying in place) onsite offsite for the first, name of facility mediation start date and end date. (4) Groundwater encountered; No and Attach soil sample results and a diagram of sample locations and except Additional Comments: All excess drilling fluids will be removed. A but To stiffen then placed in the hurial pit. After all mud and drilling liner NMOCD Standards and NMOCD gives permission the pit will be back Appropriate BLM Seed Mixture.	pit's relationship to other equipment and tanks (2) In ty (3) Attach a general Yes [4] If yes, show depth below ground surface avations urial pit will be constructed and lined with a 12 mill in has been removed the pit bottoms will be sampled perfilled with clean native soil and contoured to the surrections any sampling.	net. The drilling mud will be mixed with dry so my MMOCD Guidelines. After samples meet ounding area. The site will be seeded with
our are burying in place) onsite  offsite  forfsite, name of facility mediation start date and end date. (4) Groundwater encountered; No  Attach soil sample results and a diagram of sample locations and exert Additional Comments: All excess drilling fluids will be removed. A but To stiffen then placed in the hurial pit. After all mud and drilling lines NMOCD Standards and NMOCD gives permission the pit will be back Appropriate BLM Seed Mixture.  NMOCD Artesia will be given 48 hrs notice before closure starts and be hereby certify that the information above is true and complete to the besides.	pit's relationship to other equipment and tanks (2) In ty	nal description of remedial action taken including the and attach sample results.  The drilling mud will be mixed with dry so a NMOCD Guidelines. After samples meet counding area. The site will be seeded with
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this is a pit closure: (1) Attach a diagram of the facility showing the pur are burying in place) onsite of offsite of the facility showing in place) onsite of offsite of the facility showing in place) onsite of offsite of the facility showing in place) onsite of offsite of the facility showing in placed; No (2) Attach soil sample results and a diagram of sample locations and exceeds diditional Comments: All excess drilling fluids will be removed. A but to stiffen then placed in the hurial pit. After all mud and drilling limes NMOCD Standards and NMOCD gives permission the pit will be back appropriate BLM Seed Mixture.  NMOCD Artesia will be given 48 hrs notice before closure starts and be thereby certify that the information above is true and complete to the back been/will be constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD guidely control of the constructed or closed according to NMOCD according to the control of	pit's relationship to other equipment and tanks (2) In ty (3) Attach a general permit (3) Attach a general permit (4) Attach a general permit (5) In farther certify the lines (5), a general permit (6), or an (affaiched) nite	nal description of remedial action taken including the and attach sample results.  The drilling mud will be mixed with dry so a NMOCD Guidelines. After samples meet ounding area. The site will be seeded with
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