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

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

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 not or below-grade tank covered by a "general plan"? Ves V No

WFS CLOSURE Type of action: Registration of a pit or below	w-grade tank Closure of a pit or below-grade tank	<u> </u>
Operator: M & G DRLG CO INC Telephone:	e-mail address:	
Address: PO BOX 5940 FARMINGTON, NM 87499		
Facility or well name: <u>LUNT #063</u> API #: <u>30-045</u>	09773 U/L or Qtr/Qtr <u>A</u> SEC	<u>7</u> T <u>30N</u> R <u>13W</u>
County: <u>SAN JUAN</u> Latitude <u>36.83</u> Surface Owner: Federal ✓ State ☐ Private ☐ Indian ☐	223 Longitude 108.23914	NAD: -1927 ✓ 1983 🗌
Pit Type: Drilling □ Production ☑ Disposal □ Workover □ Emergency □ Lined □ Unlined ☑ Liner Type: Synthetic ☑ Thickness mil Clay ☑ Pit Volume 87 bbl	Below-grade tank Volume: bbl Type of fluid: Construction Material: Double-walled, with leak detection? Yes If not, ex	plain 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) (10 points) <u>0</u> (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) <u>0</u>
Distance to surface water: (Horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)
	Ranking Score (TOTAL POINTS):	<u>0</u>
If this is a pit closure: (1)Attach a diagram of the facility showing the pit's re onsite box if your are burying in place) onsite \square offsite \square If offsite, name action taken including remediation start date and end date. (4)Groundwater encountry and attach sample results. (5)Attach soil sample results and a diagram of sample leads to the pit's reconstitution of the facility showing the facility showing the facility showing the pit's reconstitution of the facility showing the facility	ntered: No 🗹 Yes 🗌 If yes, show depth below gr	location: (check the eneral description of remedial ound surface ft.
onsite box if your are burying in place) onsite \square offsite \square If offsite, name action taken including remediation start date and end date. (4)Groundwater encountry	e of facility (3)Attach a gentered: No V Yes If yes, show depth below grocations and excavations.	eneral description of remedial
onsite box if your are burying in place) onsite offsite If offsite, name action taken including remediation start date and end date. (4)Groundwater encount and attach sample results. (5)Attach soil sample results and a diagram of sample Individual Comments:	rot facility (3)Attach a grantered: No Yes If yes, show depth below grantered: No Yes If yes If yes, show depth below grantered: No Yes If yes	eneral description of remedial ound surfaceft. Meter: 32679
onsite box if your are burying in place) onsite offsite offsite, name action taken including remediation start date and end date. (4)Groundwater encount attach sample results. (5)Attach soil sample results and a diagram of sample of sam	rot facility	eneral description of remedial ound surfaceft. Meter: 32679
onsite box if your are burying in place) onsite offsite offsite, name action taken including remediation start date and end date. (4)Groundwater encount and attach sample results. (5)Attach soil sample results and a diagram of sample of land additional Comments: I hereby certify that the information above is true and complete to the best of my tank has been/will be constructed or closed according to NMOCD guidelines. Date: 1/6/06	rot facility	eneral description of remedial ound surfaceft. Meter: 32679 ed pit or below-grade D-approved plan
onsite box if your are burying in place) onsite onsite offsite offsite, name action taken including remediation start date and end date. (4)Groundwater encount and attach sample results. (5)Attach soil sample results and a diagram of sample of land attach sample results. (5)Attach soil sample results and a diagram of sample of land attach sample results. (6)Attach soil sample results and a diagram of sample of land attach sample results and a diagram of sample of land attach sample results and a diagram of sample of land attach sample results and a diagram of sample of land attach sample results and a diagram of sample of land attach sample results and a diagram of sample of land attach sample results and a diagram of sample of land attach sample results and a diagram of sample of sample of land attach sample results and a diagram of sample of land attach sample results and a diagram of sample of sample of land attach sample results and a diagram of sample of sample of land attach sample results and a diagram of sample o	rot facility	eneral description of remedial ound surfaceft. Meter: 32679 ed pit or below-grade D-approved plan

ADDENDUM TO OCD FORM C-144

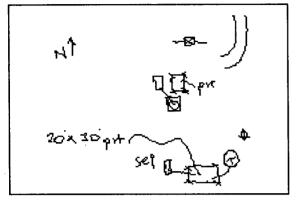
Operator: M & G DRLG CO INC

Well Name: LUNT #063

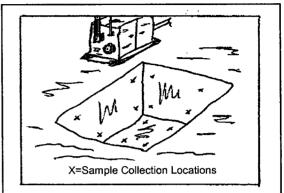
API 30-045-09773

Meter: 32679

Facility Diagram:



Sampling Diagram:



Pit Dimensions

Length 14 Ft.

Width 14 Ft.

Depth 2.5 Ft.

Location of Pit Center

Latitude <u>36.83234</u>

Longitude <u>108.23923</u>

(NAD 1927)

Pit ID

<u>326791</u>

Pit Type

Glycol Dehydrator

Date Closure Started: 3/10/05

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 3/10/05

Bedrock Encountered?

Cubic Yards Excavated: 44

Vertical Extent of Equipment Reached?

Description Of Closure Action:

Contaminated soil was removed and treated then returned to the excavation following sampling of the walls and floor.

BEDROCK limited vertical excavation and/or prevented sampling. This condition limits deleterious environmental effects.

Pit Closure Samplin	g:
---------------------	----

Sample ID BTEX TPH Sample Head Benzene Purpose Location Depth Date Space Total (mg/kg) DRO (mg/kg) (mg/kg)

101010MAR05 3/10/05 143 4650 130 9000 ASSESS Flr

103810MAR05 3/10/05 214 405 5 11000 EX Confirm Walls 6 See Risk Analysis

104510MAR05 3/10/05 248 945 16 3400 EX Confirm Flr 6 See Risk Analysis



Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219.

> Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6093056

Client Project ID: N. Mexico Pits Winter 2005

results are reported on a dry weight basis

ab Sample No:

607993748

Project Sample Number: 6093056-001

Date Collected: 03/10/05 10:10

Client Sample ID: 101010MAR05

Matrix: Soil

Date Received: 03/22/05 09:05

Parameters	Results	Units	Report Limit	_DF	Analyzed	Ву	CAS No.	Qua1	RegLmt
GC Semivolatiles									
Total Extractable Hydrocarbons	Prep/Method:	0A2 / 0A2							
Mineral Spirits	ND	mg/kg	110	11.4	03/25/05 10:	57 RMN1			
Jet Fuel	ND	mg/kg	110	11.4	03/25/05 10:	57 RMN1			
Kerose ne	ND	mg/kg	110	11.4	03/25/05 10:	57 RMN1			
Diesel Fuel	ND	mg/kg	110	11.4	03/25/05 10:	57 RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	110	11.4	03/25/05 10:	57 RMN1	68334-30-5		
Motor Oil	ND	mg/kg	110	11.4	03/25/05 10:	57 RMN1			
Total Petroleum Hydrocarbons	9000	mg/kg	110	11.4	03/25/05 10:	57 RMN1		1	
n-Tetracosane (S)	0	x		1.0	03/25/05 10:	57 RMN1	646-31-1	2	
p-Terphenyl (S)	0	*		1.0	03/25/05 10:	57 RMN1	92-94-4	2	
Date Extracted	03/24/05				03/24/05				
Organics Prep									
Percent Moisture	Method: SM 2	2540G							
Percent Moisture	13.0	*		1.0	03/24/05	CPR			
GC/MS Volatiles									
UST VOCs in Soil	Prep/Method:	EPA 5030 Me	edium Soil / EF	A 826	0				
Benzene	130000	ug/kg	12000	232	03/23/05	JKL	71-43-2		
Toluene	1700000	ug/kg	12000	232	03/23/05	JKL	108-88-3		
Ethylbenzene	220000	ug/kg	12000	232	03/23/05	JKL	100-41-4		
Xylene (Total)	2600000	ug/kg	35000	232	03/23/05	JKL	1330-20-7		
Dibromofluoromethane (S)	96	*		1.0	03/23/05	JKL	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	×		1.0	03/23/05	JKL	17060-07-0		
Toluene-d8 (S)	107	*		1.0	03/23/05	JKL	2037-26-5		
4-Bromofluorobenzene (S)	107	*		1.0	03/23/05	JKL	460-00-4		

Date: 03/29/05

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219

> Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6093056

Client Project ID: N. Mexico Pits Winter 2005

Lab Sample No: 607993763

www.pacelabs.com

Project Sample Number: 6093056-003

Date Collected: 03/10/05 10:45

Client Sample ID: 104510MAR05

Matrix: Soil

Date Received: 03/22/05 09:05

B	Danilla.	11-24-	Danis de Lámite	DE.	47 4		010 11		
Parameters GC Semivolatiles	Results	<u>Units</u>	Report Limit	UF	<u>Analyzed</u>	Ву	CAS No.	Quai	RegLmt
	Duan (Mathad)	042 / 042							
Total Extractable Hydrocarbons	•		1.1		02/04/05 00 50	DIANIA			
Mineral Spirits	ND	mg/kg	11.		03/24/05 22:50				
Jet Fuel	ND	mg/kg	11.		03/24/05 22:50				
Kerosene	ND	mg/kg	11.		03/24/05 22:50				
Diesel Fuel	ND	mg/kg	11.	1.1	03/24/05 22:50	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	03/24/05 22:50	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	11.	1.1	03/24/05 22:50	RMN1			
Total Petroleum Hydrocarbons	3400	mg/kg	11.	1.1	03/24/05 22:50	RMN1		1	
n-Tetracosane (S)	151	x		1.0	03/24/05 22:50	RMN1	646-31-1	4	
p-Terphenyl (S)	90	×		1.0	03/24/05 22:50	RMN1	92-94-4		
Date Extracted	03/24/05				03/24/05				
Organics Prep									
Percent Moisture	Method: SM 2	540G							
Percent Moisture	12.8	*		1.0	03/24/05	CPR			
GC/MS Volatiles									
UST VOCs in Soil	Prep/Method:	EPA 5030 M	edium Soil / EP	A 8260)				
Benzene	16000	ug/kg	1100		03/23/05	JKL	71-43-2		
Toluene	300000	ug/kg	1100		03/23/05	JKL	108-88-3		
Ethylbenzene	49000	ug/kg	1100		03/23/05	JKL	100-41-4		
Xylene (Total)	580000	ug/kg	3300		03/23/05	JKL	1330-20-7		
Dibromofluoromethane (S)	95	%	0000		03/23/05	JKL	1868-53-7		
1.2-Dichloroethane-d4 (S)	92	*			03/23/05	JKL	17060-07-0		
Toluene-d8 (S)	121	X			03/23/05	JKL	2037-26-5	3	
4-Bromofluorobenzene (S)	114	x			03/23/05			3	
T-DI OIIIOT FUOT ODENZENE (3)	114	4		1.0	03/23/05	JKL	460-00-4		

Date: 03/29/05

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6093056

Client Project ID: N. Mexico Pits Winter 2005

ab Sample No: Client Sample ID: 103810MAR05

607993755

Project Sample Number: 6093056-002

Date Collected: 03/10/05 10:38

Matrix: Soil

Date Received: 03/22/05 09:05

F									
Parameters	<u>Results</u>	<u>Units</u>	Report Limit	_DF	Analyzed	Ву	CAS No.	Qual	RegLmt
GC Semivolatiles									
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2							
Mineral Spirits	ND	mg/kg	110	11.3	03/25/05 11:17	7 RMN1			
Jet Fuel	ND	mg/kg	110	11.3	03/25/05 11:17	7 RMN1			
Kerosene	ND	mg/kg	110	11.3	03/25/05 11:17	7 RMN1			
Diesel Fuel	ND	mg/kg	110	11.3	03/25/05 11:17	7 RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	110	11.3	03/25/05 11:17	7 RMN1	68334-30-5		
Motor 0il	ND	mg/kg	110	11.3	03/25/05 11:17	7 RMN1			
Total Petroleum Hydrocarbons	11000	mg/kg	110	11.3	03/25/05 11:17	7 RMN1		1	
n-Tetracosane (S)	0	*		1.0	03/25/05 11:17	7 RMN1	646-31-1	2	
p-Terphenyl (S)	0	x		1.0	03/25/05 11:17	7 RMN1	92-94-4	2	
Date Extracted	03/24/05				03/24/05				
Organics Prep									
Percent Moisture	Method: SM 2	540G							
Percent Moisture	12.2	X		1.0	03/24/05	CPR			
GC/MS Volatiles									
UST VOCs in Soil	Prep/Method:	EPA 5030 M	edium Soil / EP	A 826	0				
Benzene	5000	ug/kg	520		03/23/05	JKL	71-43-2		
Toluene	100000	ug/kg	520	10.5	03/23/05	JKL	108-88-3		
Ethylbenzene	20000	ug/kg	520	10.5	03/23/05	JKL	100-41-4		
Xylene (Total)	280000	ug/kg	1600	10.5	03/23/05	JKL	1330-20-7		
Dibromofluoromethane (S)	93	X		1.0	03/23/05	JKL	1868-53-7		
1,2-Dichloroethane-d4 (S)	89	x		1.0	03/23/05	JKL	17060-07-0		
Toluene-d8 (S)	121	*		1.0	03/23/05	JKL	2037-26-5	3	
4-Bromofluorobenzene (S)	110	*		1.0	03/23/05	JKL	460-00-4		

Date: 03/29/05

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REPORT OF LABORATORY ANALYSIS

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Environmental Services 188 CR 4900 Bloomfield, NM 87413

Pit Closure and Retirement Addendum- Risk Assessment

This site is located in the NMOCD / USBLM defined "Non Vulnerable Area". These agencies have predetermined that historical use of unlined pits in this area have limited potential to adversely affect ground water. This is primarily due to the depth to ground water, lack of vertical migration of contaminants, and distant proximity to river drainages.

The sample analyzed for confirmation at this site exhibited elevated levels of total petroleum hydrocarbons (TPH) and / or BTEX. Toxicity information indicates that the measured levels pose little risk to human health and the environment. This conclusion is based in part on the information below:

Toxicity Information

Toxicity values for TPH have not been established due to the variability of the chemical makeup of TPH. Normally, the toxicity is based on the toxicity of particular constituents of concern that may be present and which are evaluated based on health-based standards. The most common constituents examined include benzene, ethylbenzene, toluene, and xylene.

In the absence of constituents of concern or when the concentrations of the constituents of concern are low, the acceptable level of TPH is established by considering the following:

- No liquid product should remain in the soil
- The TPH should not harm vegetation
- The TPH concentrations should not create an odor nuisance
- Hydrocarbon vapors which may emanate from the impacted soil should not generate harmful or explosive vapors
- Site monitoring should indicate that TPH levels are stable or declining

Environmental and Site Conditions

Based on an evaluation of site topography and available well data, this site is believed to have ground water greater than 100' below ground surface. The absence of continuous transport mechanisms limits continued migration of contaminants in soil.

While residual TPH and/or BTEX exists at this site, closure of this site is warranted for the following reasons:

- 1. The majority of soils that exhibited high levels of TPH and BTEX have been treated to enhance degradation in-situ.
- 2. Residual TPH concentrations are below levels considered problematic based on the criteria above.
- 3. Discharge at the site has been eliminated to prevent any future impacts to soils.
- 4. Depth to groundwater is estimated at greater than 100'.
- 5. Vertical migration of contamination is limited due to cessation of discharge and regional climatic conditions.
- 6. TPH / BTEX concentrations will not increase and will degrade over time from natural and enhanced processes occurring in-situ.
- 7. Further excavation at the site is not practicable.

Since there are no nearby receptors or domestic water sources, this site poses little risk to human health and the environment. Closure is justified based on the relatively low total petroleum hydrocarbon (TPH) concentration (compared to documented risk exposure information) and the fact that recommended closure criteria cannot be practically attained. Additional information may be found in the Technical Background Document titled: Risk Based Closure of Unlined Surface Impoundment Sites, San Juan Basin, New Mexico.