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

WFS CLOSURE Type of action: Registration of a pit or below	y-grade tank Closure of a pit or below-grade tank	⊻					
Operator: BURLINGTON RESOURCES OIL & GAS CO Telephone:	e-mail address:	-					
Address: 801 CHERRY ST FORT WORTH, TX 76102	a						
County: SAN JUAN Surface Owner: Federal ✓ State ☐ Private ☐ Indian ☐	294 N Longitude 108 05.105 W	NAD: 1927 ☑ 1983 ☐					
Pit Type: Drilling Production Disposal Workover Emergency Lined Unlined Liner Type: Synthetic Thickness mil Clay Pit Volume 60 bbl	Below-grade tank Volume: bbl Type of fluid: Construction Material: Double-walled, with leak detection? Yes 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) (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) <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) <u>0</u>					
	Ranking Score (TOTAL POINTS):	<u>0</u>					
If this is a pit closure: (1)Attach a diagram of the facility showing the pit's reliconsite box if your are burying in place) onsite ✓ offsite ☐ If offsite, name action taken including remediation start date and end date. (4)Groundwater encour and attach sample results. (5)Attach soil sample results and a diagram of sample lo	ntered: No 🗹 Yes 🗌 If yes, show depth below g	I location: (check the general description of remedial round surface ft.					
Additional Comments: Belook	FEB 2006 RECEIVED OIL CONS. DIV. DIST. S	Meter: 34173					
I hereby certify that the information above is true and complete to the best of my k tank has been/will be constructed or closed according to NMOCD guidelines	mowledge and belief. Usurther certify that the above-describ	ed pit or below-grade					
tank has been/will be constructed or closed according to NMOCD guidelines	, a general permit discording (attached) alternative OC	CD-approved plan					
Date:10/3/05	MIZM, FOR WES						
Printed Name/Title Mark Harvey for Williams Field Services Sign	gnature						
Your certification and NMOCD approval of this application/closure does not relie or otherwise endanger public health or the environment. Nor does it relieve the or regulations.							
Approval: Printed Name/Title Approval: Sign	ature emy tens	_{Date:} FEB 0 2 200					

ADDENDUM TO OCD FORM C-144

Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP

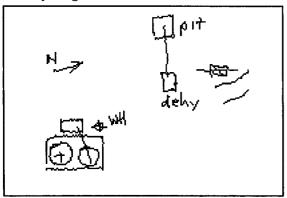
ne RICHARDSON #003

Well Name: RICHARDSON #003

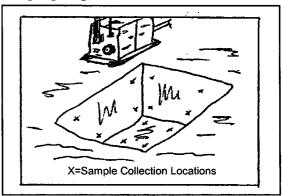
API <u>30-045-10612</u>

Meter: <u>34173</u>

Facility Diagram:



Sampling Diagram:



Pit Dimensions

Length 15 Ft.

Width 15 Ft.

Depth 1.5 Ft.

Location of Pit Center

Latitude 36 53.305 N

Longitude 08 05.103 W

(NAD 1927)

Pit ID

341731

Pit Type

Glycol Dehydrator

Date Closure Started: 1/25/05

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 1/25/05

Bedrock Encountered?

Cubic Yards Excavated: 67

Vertical Extent of Equipment Reached ? \Box

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 Sampling:

Sample ID Sample Head **BTEX** Benzene TPH Purpose Location Depth Date Space Total (mg/kg) DRO (mg/kg) (mg/kg) 095123JAN05 1/23/05 175.1 ASSESS Flr 16 290 3.5 134525JAN05 1/25/05 113 0.18 0 0 EX Confirm Walls See Risk Analysis 134825JAN05 162 1/25/05 199.7 24 450 EX Confirm Flr See Risk Analysis



Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6091199 Client Project ID: NM Pits

1.0 01/27/05 15:07

Lab Sample No: - 607850062 Project-Sample Number: 6091199-012 Date Collected: 01/23/05 09:51

Date Received: 01/26/05 09:00 Client Sample ID: 095123JAN05 Matrix: Soil **Parameters** Units Report Limit DF Analyzed Qual RegLmt Results GC Semivolatiles Total Extractable Hydrocarbons Prep/Method: OA2 / OA2 Mineral Spirits ND 11. 1.1 02/02/05 05:13 RMN1 mg/kg Jet Fuel ND mg/kg 11. 1.1 02/02/05 05:13 RMN1 Kerosene ND mg/kg 11. 1.1 02/02/05 05:13 RMN1 Diesel Fuel ND 11. 1.1 02/02/05 05:13 RMN1 68334-30-5 mg/kg Fuel Oil ND 11. 1.1 02/02/05 05:13 RMN1 68334-30-5 mg/kg Motor 0il ND 11. 1.1 02/02/05 05:13 RMN1 mg/kg 290 1.1 02/02/05 05:13 RMN1 1 Total Petroleum Hydrocarbons mg/kg 11. n-Tetracosane (S) 107 1.0 02/02/05 05:13 RMN1 646-31-1 X 1.0 02/02/05 05:13 RMN1 92-94-4 p-Terphenyl (S) 124 X 01/31/05 Date Extracted 01/31/05 Organics Prep Percent Moisture Method: SM 2540G Percent Moisture 14.4 1.0 01/31/05 ALJ1 GC Volatiles Aromatic Volatile Organics Prep/Method: EPA 5030 Medium Soil / EPA 8021 Benzene 16000 ug/kg 2900 58.4 01/27/05 15:07 71-43-2 Ethylbenzene 5100 2900 58.4 01/27/05 15:07 100-41-4 ug/kg Toluene 2900 58.4 01/27/05 15:07 108-88-3 90000 ug/kg 1330-20-7 7600 58.4 01/27/05 15:07 Xylene (Total) 64000 ug/kg

%

114

Date: 02/02/05

a,a,a-Trifluorotoluene (S)

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98-08-8

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: 6091534

Client Project ID: N. Mex Pit Program

Lab Sample No: 607876315 Project Sample Number: 6091534-005 Date Collected: 01/25/05 13:45

Client Sample ID: 134525 IANO5 Matrix: Soil Date Received: 02/04/05 09:10

Client Sample ID: 134525JAN05				Matrix: Soil			Date Rece		ived: 02/04/05 09:1	
Parameters	Results	Units	Report Limit	_DF	Analyz	ed	Ву	CAS No.	Qua1	RegLmt
GC Semivolatiles										
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2								
Mineral Spirits	ND	mg/kg	11.	1.1	02/08/05 13	3:12	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1	02/08/05 1	3:12	RMN1			
Kerosene	ND	mg/kg	11.	1.1	02/08/05 13	3:12	RMN1			
Diesel Fuel	ND	mg/kg	11.	1.1	02/08/05 13	3:12	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	02/08/05 13	3:12	RMN1	68334-30-5		
Motor 0i1	ND	mg/kg	11.	1.1	02/08/05 1	3:12	RMN1			•
n-Tetracosane (S)	86	X		1.0	02/08/05 1	3:12	RMN1	646-31-1		
p-Terphenyl (S)	94	*		1.0	02/08/05 1	3:12	RMN1	92-94-4		
Date Extracted	02/07/05				02/07/05					
Organics Prep										
Percent Moisture	Method: SM 2	540G								
Percent Moisture	6.5	*		1.0	02/07/05		ALJ1			
GC Volatiles										
Aromatic Volatile Organics	Prep/Method:	EPA 5030	Medium Soil / E	PA 802	1					
Benzene	ND	ug/kg	53.	1.1	02/05/05 0	9:23		71-43-2		
Ethylbenzene	ND	ug/kg	53.	1.1	02/05/05 0	9:23		100-41-4		
Toluene	ND	ug/kg	53.	1.1	02/05/05 0	9:23		108-88-3		
Xylene (Total)	180	ug/kg	140	1.1	02/05/05 0	9:23		1330-20-7		
a,a,a-Trifluorotoluene (S)	106	*		1.0	02/05/05 0	9:23		98-08-8		

Date: 02/11/05

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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: 6091534

Client Project ID: N. Mex Pit Program

Lab Sample No: 607876323 Project Sample Number: 6091534-006 Date Collected: 01/25/05 13:48

trix: Soil Date Received: 02/04/05 09:10

Client Sample ID: 134825JAN05				Matrix: Soil				Date Received: 02/04/05		
Parameters	Results _	Units	Report Limit	DF	Analy	/zed	Ву	CAS No.	Qual	RegLmt
GC Semivolatiles										
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2								
Mineral Spirits	ND	mg/kg	11.	1.1	02/08/05	19:55	RMN1	l		
Jet Fuel	ND	mg/kg	11.	1.1	02/08/05	19:55	RMN1	ļ		
Kerosene	ND.	mg/kg	11.	1.1	02/08/05	19:55	RMN1	Į.		
Diesel Fuel	ND .	mg/kg	11.	1.1	02/08/05	19:55	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	02/08/05	19:55	RMN1	68334-30-5		
Motor 0il	ND	mg/kg	11.	1.1	02/08/05	19:55	RMN1	[
Total Petroleum Hydrocarbons	450	mg/kg	11.	1.1	02/08/05	19:55	RMN1]	1	
n-Tetracosane (S)	90	×		1.0	02/08/05	19:55	RMN1	646-31-1		
p-Terphenyl (S)	107	X		1.0	02/08/05	19:55	RMN1	92-94-4		
Date Extracted	02/07/05				02/07/05					
Organics Prep										
Percent Moisture	Method: SM 2	2540G								
Percent Moisture	11.3	*		1.0	02/07/05		ALJ:	1		
GC Volatiles										
Aromatic Volatile Organics	Prep/Method:	EPA 5030 M	ledium Soil / E	PA 802	1					
Benzene	24000	ug/kg	1100		02/05/05	09:50		71-43-2		
Ethylbenzene	6700	ug/kg	1100	21.3	02/05/05	09:50		100-41-4		٠.
Toluene	69000	ug/kg	1100		02/05/05			108-88-3		•
Xylene (Total)	100000	ug/kg	2800		02/05/05			1330-20-7		
a.a.a-Trifluorotoluene (S)	102	*	-	1.0	02/05/05	09:50		98-08-8		

Date: 02/11/05

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REPORT OF LABORATORY ANALYSIS

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Environmental Services 188 CR 4900 Bloomfield, NM 8413

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. Notwithstanding, bedrock was discovered at the pit (i.e. excavation) bottom. This condition retards vertical migration of contaminants and serves to significantly limit potential groundwater impact.

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.
- 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 bedrock.
- 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 due to bedrock.

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 and the fact that all 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.