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

•	ered by a "general plan"? Yes 🗹 No 🗌							
(WFS (いらいま) Type of action: Registration of a pit or below	v-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								
Facility or well name: SAN JUAN 27 5 UNIT #143 API #: 30-039-	20469 U/L or Qtr/Qtr <u>G</u> SEC	EC <u>34</u> T <u>27N</u> R <u>5W</u>						
County: RIO ARRIBA Latitude 36.534 Surface Owner: Federal ✓ State ☐ Private ☐ Indian ☐	Longitude <u>-107.34157</u>	NAD: 1927 🗹 1983 🗌						
<u>Pit</u>	Below-grade tank							
Type: Drilling Production 🗹 Disposal	Volume: bbl Type of fluid:							
Workover	Construction Material: Double-walled, with leak detection? Yes If not, explain why not.							
Lined Unlined 🗹		,,						
Liner Type: Synthetic Thickness mil Clay Elliper Pit Volume 267 bbl								
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) 10 (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) <u>10</u> (0 points)						
	Ranking Score (TOTAL POINTS):	<u>20</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 leads to the facility showing the pit's reliconsities of the pit's reliconsities of the facility showing the pit's reliconsities of the facil	ntered: No 🗹 Yes 🗌 If yes, show depth below gr	location: (check the eneral description of remedial ound surface ft.						
Additional Comments: Bedvock	OCT 2005 OCT	Meter: <u>87385</u>						
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	knowledge and belief. I further south the above-describe a general permit , or an (attached) alternative OC							
Date:9/27/05 Printed Name/Title Mark Harvey for Williams Field Services Signature Signatu	gnature MIZJUG, FOR WPS							
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.	eve the operator of liablility should the contents of the pit or to perator of its responsibility for compliance with any other fed	ank contaminate ground water eral, state, or local laws and/or						
Approval: Printed Name/Title Sign	ature Jerry Lety	<u>QCT</u> 1 2 200						

ADDENDUM TO OCD FORM C-144

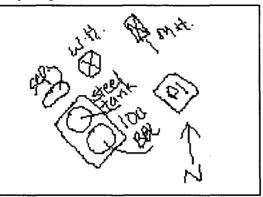
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP

Well Name: SAN JUAN 27 5 UNIT #143

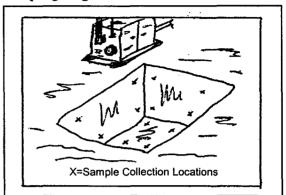
API <u>30-039-20469</u>

Meter: 87385

Facility Diagram:



Sampling Diagram:



Pit Dimensions

Length 20 Ft.

Width $\underline{25}$ Ft.

Depth 3 Ft.

Location of Pit Center

Latitude 36.53435

Longitude -107.34146

(NAD 1927)

Pit ID

<u>873851</u>

Pit Type

Glycol Dehydrator

Date Closure Started: 4/29/03

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 4/29/03

Bedrock Encountered?

Cubic Yards Excavated: 73

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 Sampling:

Sample ID

092729APR03

Sample Date

4/29/03

Head Space

684

d BTEX ce Total

(mg/kg)

71.6

Benzene (mg/kg)

TPH DRO (mg/kg)

490

Purpose

EX Confirm

Location Depth

Flr

5 See Risk Analysis

092929APR03 4/29/03 6.3 0 EX Confirm Walls

123519JUL02 7/19/02 242 0 5600 ASSESS :



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

> Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6070179

Client Project ID: NM PIT PROGRAM

Project Sample Number: 6070179-003 Date Collected: 04/29/03 09:27 606046704 Lab Sample No:

East Sample No.						_			
Client Sample ID: 092729APR03			Matrix: Soil			Date Received: 05/06/03 09:			
Parameters	<u>Results</u>	Units	Report Limit	DF	Analyzed	Ву	CAS No.	Qual RegLmt	
GC Semivolatiles									
Total Extractable Hydrocarbons	Prep/Method:	0A2 / 0A2						•	
Mineral Spirits	ND	mg/kg	11.	1.1	05/08/03 02:2	MIM 8			
Jet Fuel	ND	mg/kg	11.	1.1	05/08/03 02:2	MIM 8			
Kerosene	ND	mg/kg	11.	1.1	05/08/03 02:2	MIM 8			
Diesel Fuel	490	mg/kg	11.	1.1	05/08/03 02:2	MIM 8	68334-30-5		
Fuel 011	ND	mg/kg	11.	1.1	05/08/03 02:2	MIM 8	68334-30-5		
Motor 0il	ND	mg/kg	11.	1.1	05/08/03 02:2	MIM 8			
n-Tetracosane (S)	109	%		1.0	05/08/03 02:2	MIM 8	646-31-1		
p-Terphenyl (S)	84	*		1.0	05/08/03 02:2	MIM 8	92-94-4		
Date Extracted	05/07/03				05/07/03				
Organics Prep									
Percent Moisture	Method: SM 2	2540G							
Percent Moisture	9.7	*		1.0	05/08/03	MAM			
GC Volatiles								,	
Aromatic Volatile Organics	Prep/Method:	EPA 5030 N	ledium Soil / E	PA 802:	1				
Benzene	ND	ug/kg	550	11.1	05/08/03 18:3	S1 SDS	71-43-2		
Ethylbenzene	ND	ug/kg	550	11.1	05/08/03 18:3	31 SDS	100-41-4		
Toluene	1600	ug/kg	550	11.1	05/08/03 18:3	31 SDS	108-88-3	•	
Xylene (Total)	70000	ug/kg	1400	11.1	05/08/03 18:3	31 SDS	1330-20-7		
a,a,a-Trifluorotoluene (S)	60	%		1.0	05/08/03 18:3	31 SDS	98-08-8	3	

Date: 05/13/03

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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: 6070179

Client Project ID: NM PIT PROGRAM

Lab Sample No: 606046761 Client Sample ID: 092929APR03

Project Sample Number: 6070179-009

Date Collected: 04/29/03 09:29

offent Sumple ID. 052525AFROS				Matrix	c: Soil		Date Received: 05/06/03 09:00		
Parameters O.O. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	Results	Units	Report Limit	_DF_	Analyzed	Ву	CAS No.	Qual RegLmt	
GC Semivolatiles									
- Total Extractable Hydrocarbons	Prep/Method:	0A2 / 0A2							
Mineral Spirits	ND	mg/kg	11.	1.1	05/08/03 02:59	MTM			
Jet Fuel	ND	mg/kg	11.		05/08/03 02:59				
Kerosene	ND	mg/kg	11.		05/08/03 02:59				
Diesel Fuel	ND	mg/kg	11.	1.1	05/08/03 02:59	MIM	68334-30-5		
Fuel 011	ND	mg/kg	11.		05/08/03 02:59			•	
Motor 0il	ND	mg/kg	11.		05/08/03 02:59				
n-Tetracosane (S)	104	%		1.0	05/08/03 02:59	MIM	646-31-1		
p-Terphenyl (S)	72	%			05/08/03 02:59				
Date Extracted	05/07/03				05/07/03				
Organics Prep									
Percent Moisture	Method: SM 2	540G							
Percent Moisture	8.3	%		1.0	05/08/03	MAM			

Date: 05/13/03

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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: 6061217

Client Project ID: N.M. PIT ASSESSMENTS

Solid results are reported on a dry weight basis

Lab Sample No: 605310465 Project Sample Number: 6061217-001 Date Collected: 07/19/02 12:35

Client Sample ID: 123519JUL02	. •		Matrix: Soil				Date Received: 07/26/02 09:30		
Parameters 名称第	Results	Units	Report Limit	DF	Analyz	ed By	CAS No.	Qual	RegLmt
GC Semivolatiles									
Total Extractable Hydrocarbo	ns Prep/Method	: 0A2 / 0A2							
Mineral Spirits	ND	mg/kg	11.	1.1	08/05/02 2	20:11 MIN	i		
Jet Fuel	ND	mg/kg	11.	1.1	08/05/02 2	20:11 MIN	ļ		
Kerosene	ND	mg/kg	11.	1.1	08/05/02 2	20:11 MIN	ŀ		
Diesel Fuel	5600	mg/kg	11.	1.1	08/05/02 2	20:11 MIN	68334-30-5	1	
Fuel Oil	ND	mg/kg	11.	1.1	08/05/02 2	20:11 MIN	68334-30-5		
Motor 0il	ND	mg/kg	11.	1.1	08/05/02 2	20:11 MIN	i		
n-Tetracosane (S)	215	%		1.0	08/05/02 2	20:11 MIN	I 646-31-1	2	
p-Terphenyl (S)	122	%		1.0	08/05/02 2	20:11 MIN	92-94-4		
Date Extracted					08/01/02				
Organics Prep									
Percent Moisture	Method:								
Percent Moisture	12.3	%	•	1.0	07/31/02	MAM	İ		
GC Volatiles									
Aromatic Volatile Organics	Prep/Method	: EPA 5030 M	edium Soil / E	PA 802	1				
Benzene	ND	ug/kg	5300	106	07/31/02 0	9:25	71-43-2		
Ethylbenzene	ND	ug/kg	5300	106	07/31/02 0	9:25	100-41-4		
Toluene	32000	ug/kg	5300	106	07/31/02 0	9:25	108-88-3		
Xylene (Total)	210000	ug/kg	13000	106	07/31/02 0	09:25	1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	07/31/02 0	09:25	98-08-8	3,4	

Date: 08/16/02

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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.
- 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 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.