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 pit or below-grade tank covered by a "general plan"? Yes V No

WF5 CLOSULE 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							
Facility or well name: SAN JUAN 27 4 UNIT #015A API #: 30-039-	22369 U/L or Qtr/Qtr I SEC	<u>6</u> T <u>27N</u> R <u>4W</u>					
County: RIO ARRIBA Surface Owner: Federal ✓ State ☐ Private ☐ Indian ☐	945 N Longitude 107 17.133 W	NAD: 1927 ☑ 1983 ☐					
Pit Type: Drilling □ Production ✔ Disposal □ Workover □ Emergency □ Lined □ Unlined ✔ Liner Type: Synthetic □ Thickness mil Clay □ Pit Volume 325 bbl	Below-grade tank Volume: bbl Type of fluid: Construction Material: Double-walled, with leak detection? Yes	plaint Provide Const. 30 Mg. C					
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) (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>0</u> (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 relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite offsite if offsite, name of facility in closured: (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:	Ţ	Meter: <u>85340</u>					
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: 10/3/05 Printed Name/Title Mark Harvey for Williams Field Services Sig	mature MIZING, FOR WPS						
Your certification and NMOCD approval of this application/closure does not relieve the operator of liablility 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 Printed Name/Title Signal	ature 1 Emy Frent	FEB 0 2 2006					

ADDENDUM TO OCD FORM C-144

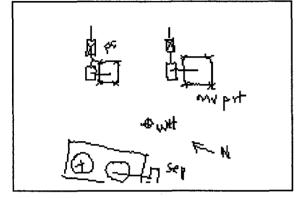
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP

Well Name: SAN JUAN 27 4 UNIT #015A

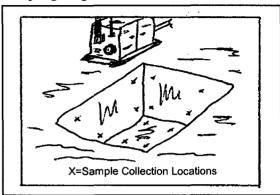
API 30-039-22369

Meter: 85340

Facility Diagram:



Sampling Diagram:



Pit Dimensions

27 Ft. Length

Width 27 Ft.

Depth 2.5 Ft. **Location of Pit Center**

Latitude 36 35.943 N

Longitude <u>07 17.131 W</u>

(NAD 1927)

Pit ID

853401

Pit Type

Glycol Dehydrator

Date Closure Started: 5/18/05

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 5/19/05

Bedrock Encountered?

Cubic Yards Excavated: 267

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

Sample Date

Head Space

BTEX Total

(mg/kg)

Benzene (mg/kg)

TPH DRO (mg/kg) Purpose

Location Depth

103019MAY05 5/19/05 139 10.83 0 790 EX Confirm Walls See Risk Analysis

104719MAY05 5/19/05 172 125.2 1.2 200 EX Confirm Flr See Risk Analysis

173113MAY05 5/13/05 405.9 3.9 1500 ASSESS Flr



Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6095256

Client Project ID: NM PITS - 2ND QUARTER 05

Lab Sample No: 608179511 Client Sample ID: 173113MAY05 Project Sample Number: 6095256-004

Date Collected: 05/13/05 17:31

Matrix: Soil

Date Received: 05/19/05 08:45

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Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS No.	Qua1_	RegLmt
GC Semivolatiles									
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2							
Mineral Spirits	ND	mg/kg	11.	1.1 0	5/23/05 17:20	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1 0	05/23/05 17:20	RMN1			
Kerosene	ND	mg/kg	11.	1.1 0	5/23/05 17:20	RMN1			
Diesel Fuel	ND	mg/kg	11.	1.1 0	05/23/05 17:20	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1 (05/23/05 17:20	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	11.	1.1 (05/23/05 17:20	RMN1			
Total Petroleum Hydrocarbons	1500	mg/kg	11.	1.1 (05/23/05 17:20	RMN1		5	
n-Tetracosane (S)	105	X		1.0 (05/23/05 17:20	RMN1	646-31-1		
p-Terphenyl (S)	89	×		1.0 (05/23/05 17:20	RMN1	92-94-4		
Date Extracted	05/21/05			(05/21/05				
Organics Prep									
Percent Moisture	Method: SM 2	540G							
Percent Moisture	12.9	X		1.0	05/20/05	JMF1			
GC Volatiles									
Aromatic Volatile Organics	Prep/Method:	EPA 5030 N	Medium Soil / E	PA 8021					
Benzene	3900	ug/kg	2600		05/23/05 13:23	SHF	71-43-2		
Ethylbenzene	16000	ug/kg	2600	51.7	05/21/05 10:42	SHF	100-41-4		
Toluene	96000	ug/kg	2600	51.7	05/21/05 10:42	SHF	108-88-3		
Xylene (Total)	290000	ug/kg	6700	51.7	05/21/05 10:42	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	*		1.0	05/21/05 10:42	SHF	98-08-8		

Date: 05/25/05

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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: 6095563

Client Project ID: N MEX PIT PROGRAM

Lab Sample No: 608203295 Project Sample Number: 6095563-007 Date Collected: 05/19/05 10:30

Client Sample ID: 103019MAY05				Matrix: Soil			Date Received: 05/27/05 08:59			
Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS No.	Qua1	RegLmt	
GC Semivolatiles										
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2								
Mineral Spirits	ND	mg/kg	12.	1.2	05/31/05 17:23	L RMN1				
Jet Fuel	ND	mg/kg	12.	1.2	05/31/05 17:23	L RMN1	,			
Kerosene	ND	mg/kg	12.	1.2	05/31/05 17:23	L RMN1				
Diesel Fuel	ND	mg/kg	12.	1.2	05/31/05 17:23	l RMN1	68334-30-5			
Fuel Oil	ND	mg/kg	12.	1.2	05/31/05 17:23	L RMN1	68334-30-5			
Motor Oil	ND	mg/kg	12.	1.2	05/31/05 17:23	1 RMN1	L			
Total Petroleum Hydrocarbons	790	mg/kg	12.	1.2	05/31/05 17:23	1 RMN1	Ĺ	3		
n-Tetracosane (S)	83	*		1.0	05/31/05 17:23	1 RMN1	646-31-1			
p-Terphenyl (S)	79	X		1.0	05/31/05 17:23	1 RMN1	92-94-4			
Date Extracted	05/31/05				05/31/05					
Organics Prep										
Percent Moisture	Method: SM 2	540G						·		
Percent Moisture	18.6	*		1.0	05/31/05	ALJ1	l			
GC Volatiles										
Aromatic Volatile Organics	Prep/Method:	EPA 5030	Medium Soil / E	PA 802	1					
Benzene	ND	ug/kg	240		05/31/05 11:4	5 SHF	71-43-2			
Ethylbenzene	ND	ug/kg	240	4.8	05/31/05 11:4	5 SHF	100-41-4			
Toluene	830	ug/kg	240	4.8	05/31/05 11:4	5 SHF	108-88-3			
Xylene (Total)	10000	ug/kg	630	4.8	05/31/05 11:4	5 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	93	*		1.0	05/31/05 11:4	5 SHF	98-08-8	. 2		

Date: 06/02/05

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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: 6095563

Client Project ID: N MEX PIT PROGRAM

Lab Sample No: 608203337 Project Sample Number: 6095563-008 Date Collected: 05/19/05 10:47

Client Sample ID: 104719MAY05			Matrix: Soil				Date Received: 05/27/05 08:55				
Parameters	Results	Units	Report Limit	DF	Analyze	i By	CAS No.	Qual	RegLmt		
GC Semivolatiles											
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2									
Mineral Spirits	ND	mg/kg	11.	1.1 0	5/31/05 17:	41 RMN	l				
Jet Fuel	ND	mg/kg	11.	1.1 (5/31/05 17:	41 RMN	<u>l</u> .				
Kerosene	ND	mg/kg	11.	1.1 (5/31/05 17	41 RMN	l				
Diesel Fuel	ND	mg/kg	11.	1.1 (5/31/05 17	41 RMN	L 68334-30-5				
Fuel Oil	ND	mg/kg	11.	1.1 (5/31/05 17	41 RMN	68334-30-5				
Motor 0il	ND	mg/kg	11.	1.1 (5/31/05 17	41 RMN	L				
Total Petroleum Hydrocarbons	200	mg/kg	11.	1.1 (05/31/05 17	41 RMN	l	3			
n-Tetracosane (S)	82	*		1.0 (05/31/05 17	41 RMN	l 646-31-1		•		
p-Terphenyl (S)	78	X		1.0 (05/31/05 17	41 RMN	L 92-94-4				
Date Extracted	05/31/05			(05/31/05						
Organics Prep											
Percent Moisture	Method: SM 2	2540G									
Percent Moisture	11.0	*		1.0	05/31/05	ALJ	L				
GC Volatiles											
Aromatic Volatile Organics	Prep/Method:	EPA 5030 M	ledium Soil / E	PA 8021							
Benzene	1200	ug/kg	1100		05/31/05 16	:04 SHF	71-43-2				
Ethylbenzene	6000	ug/kg	1100	21.8	05/31/05 16	:04 SHF	100-41-4				
Toluene	32000	ug/kg	1100		05/31/05 16						
Xylene (Total)	86000	ug/kg	2800		05/31/05 16						
a,a.a-Trifluorotoluene (S)	98	*		1.0	05/31/05 16	:04 SHF	98-08-8				

Date: 06/02/05

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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.
- 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.