

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

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

(WFS Closure)

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

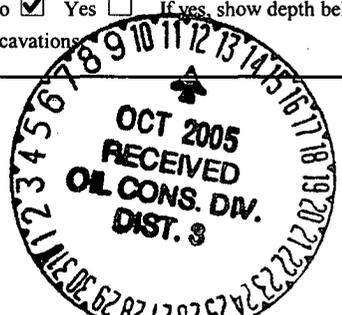
Operator: BURLINGTON RESOURCES OIL & GAS CO Telephone: _____ e-mail address: _____
Address: 801 CHERRY ST FORT WORTH, TX 76102
Facility or well name: SAN JUAN 27.4 UNIT #040 API #: 30-039-20142 U/L or Qtr/Qtr G SEC 6 T 27N R 4W
County: RIO ARRIBA Latitude 36.36.3 Longitude 107.17.2 NAD: 1927 1983
Surface Owner: Federal State Private Indian

Pit
Type: Drilling Production Disposal
Workover Emergency
Lined Unlined
Liner Type: Synthetic Thickness _____ mil Clay
Pit Volume 80 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)	<u>0</u>
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)	<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 relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility _____ (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: Bedrock Meter: 86596


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: 9/28/05
Printed Name/Title Mark Harvey for Williams Field Services Signature Mark Harvey for WFS

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability 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: DEPUTY OIL & GAS INSPECTOR, DIST. 3 Signature Denny Faust Date: OCT 12 2005

ADDENDUM TO OCD FORM C-144

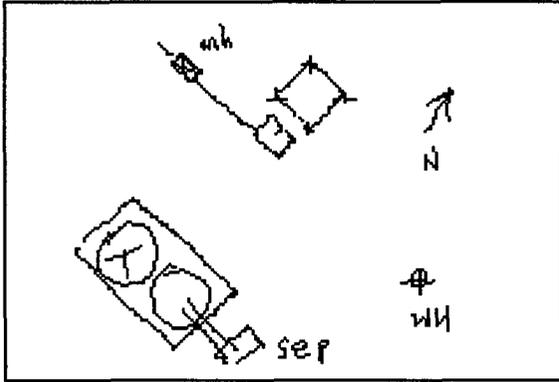
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP

API 30-039-20142

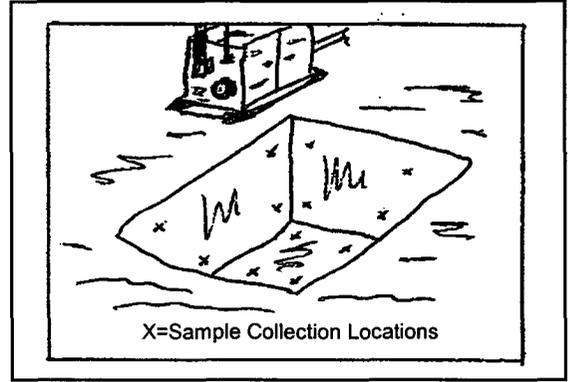
Well Name: SAN JUAN 27 4 UNIT #040

Meter: 86596

Facility Diagram:



Sampling Diagram:



Pit Dimensions

Length 15 Ft.

Width 15 Ft.

Depth 2 Ft.

Location of Pit Center

Latitude

Longitude

(NAD 1927)

Pit ID

865961

Pit Type

Glycol Dehydrator

Date Closure Started: 12/3/04

Date Closure Completed: 12/3/04

Closure Method: Excavated, Blended, Treated Soil Returned

Bedrock Encountered ?

Cubic Yards Excavated: 47

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	
143003DEC04	12/3/04		3.37	0	36000	EX Confirm	Walls	4	See Risk Analysis
144003DEC04	12/3/04	122	87.7	2.4	14000	EX Confirm	Flr	5	See Risk Analysis

Lab Sample No: 607735180 Project Sample Number: 6089836-012 Date Collected: 12/03/04 14:30
Client Sample ID: 143003DEC04 Matrix: Soil Date Received: 12/10/04 09:50

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Semivolatiles

Total Extractable Hydrocarbons		Prep/Method: OA2 / OA2							
Mineral Spirits	ND	mg/kg	120	12.0	12/15/04	16:19	RMN1		
Jet Fuel	ND	mg/kg	120	12.0	12/15/04	16:19	RMN1		
Kerosene	ND	mg/kg	120	12.0	12/15/04	16:19	RMN1		
Diesel Fuel	ND	mg/kg	120	12.0	12/15/04	16:19	RMN1	68334-30-5	
Fuel Oil	ND	mg/kg	120	12.0	12/15/04	16:19	RMN1	68334-30-5	
Motor Oil	ND	mg/kg	120	12.0	12/15/04	16:19	RMN1		
Total Petroleum Hydrocarbons	36000	mg/kg	120	12.0	12/15/04	16:19	RMN1		3
n-Tetracosane (S)	0	%		1.0	12/15/04	16:19	RMN1	646-31-1	5
p-Terphenyl (S)	0	%		1.0	12/15/04	16:19	RMN1	92-94-4	5
Date Extracted	12/13/04				12/13/04				

Organics Prep

Percent Moisture		Method: SM 2540G							
Percent Moisture	18.0	%		1.0	12/13/04		ALJ1		

GC Volatiles

Aromatic Volatile Organics		Prep/Method: EPA 5030 Medium Soil / EPA 8021							
Benzene	ND	ug/kg	410	8.1	12/14/04	15:39		71-43-2	
Ethylbenzene	440	ug/kg	410	8.1	12/14/04	15:39		100-41-4	
Toluene	630	ug/kg	410	8.1	12/14/04	15:39		108-88-3	
Xylene (Total)	2300	ug/kg	1100	8.1	12/14/04	15:39		1330-20-7	
a,a,a-Trifluorotoluene (S)	83	%		1.0	12/14/04	15:39		98-08-8	6

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: 6089836
 Client Project ID: N.M. Pits

Lab Sample No: 607735172 Project Sample Number: 6089836-011 Date Collected: 12/03/04 14:40
 Client Sample ID: 144003DEC04 Matrix: Soil Date Received: 12/10/04 09:50

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Semivolatiles

Prep/Method: OA2 / OA2									
Total Extractable Hydrocarbons	ND	mg/kg	110	10.6	12/15/04	16:01	RMN1		
Mineral Spirits	ND	mg/kg	110	10.6	12/15/04	16:01	RMN1		
Jet Fuel	ND	mg/kg	110	10.6	12/15/04	16:01	RMN1		
Kerosene	ND	mg/kg	110	10.6	12/15/04	16:01	RMN1		
Diesel Fuel	ND	mg/kg	110	10.6	12/15/04	16:01	RMN1	68334-30-5	
Fuel Oil	ND	mg/kg	110	10.6	12/15/04	16:01	RMN1	68334-30-5	
Motor Oil	ND	mg/kg	110	10.6	12/15/04	16:01	RMN1		
Total Petroleum Hydrocarbons	14000	mg/kg	110	10.6	12/15/04	16:01	RMN1		3
n-Tetracosane (S)	0	%		1.0	12/15/04	16:01	RMN1	646-31-1	5
p-Terphenyl (S)	0	%		1.0	12/15/04	16:01	RMN1	92-94-4	5
Date Extracted	12/13/04				12/13/04				

Organics Prep

Method: SM 2540G									
Percent Moisture	6.8	%		1.0	12/13/04		ALJ1		

GC Volatiles

Prep/Method: EPA 5030 Medium Soil / EPA 8021									
Aromatic Volatile Organics	2400	ug/kg	480	9.5	12/13/04	23:01		71-43-2	
Benzene	3300	ug/kg	480	9.5	12/13/04	23:01		100-41-4	
Ethylbenzene	30000	ug/kg	480	9.5	12/13/04	23:01		108-88-3	
Toluene	52000	ug/kg	1200	9.5	12/13/04	23:01		1330-20-7	
Xylene (Total)	89	%		1.0	12/13/04	23:01		98-08-8	
a,a,a-Trifluorotoluene (S)									

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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.*