

District I  
1623 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: CAIN #015

API #: 30-045-07632

U/L or Qtr/Qtr N SEC 31 T 29N R 9W

County: SAN JUAN

Latitude 36.68025

Longitude -107.81849

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 77 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  
(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) 0

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  
(0 points)

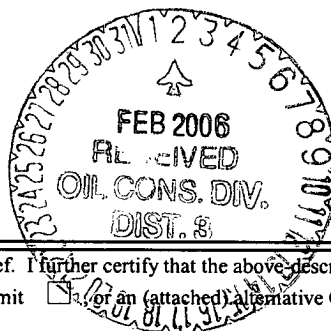
**Ranking Score (TOTAL POINTS):**

0

**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:

Meter: 39384



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 Signature \_\_\_\_\_

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:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 8

Signature \_\_\_\_\_

Date: \_\_\_\_\_

FEB 02 2006

# **ADDENDUM TO OCD FORM C-144**

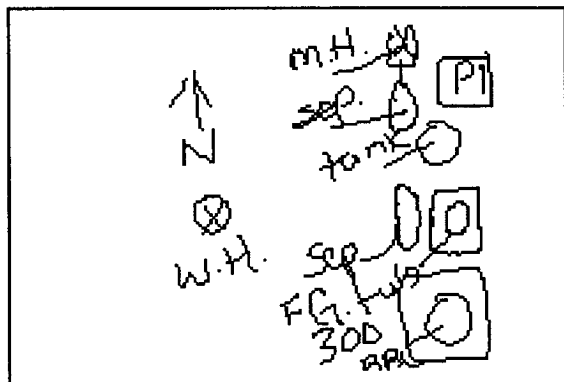
**Operator:** BURLINGTON RESOURCES OIL & GAS COMPANY LP

**API** 30-045-07632

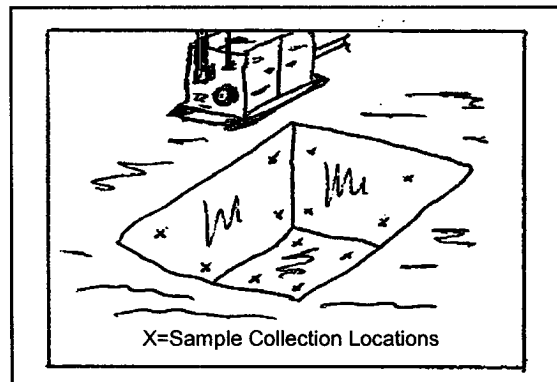
**Well Name:** CAIN #015

**Meter:** 39384

**Facility Diagram:**



**Sampling Diagram:**



**Pit Dimensions**

Length 12 Ft.  
Width 12 Ft.  
Depth 3 Ft.

**Location of Pit Center**

Latitude 36.6805  
Longitude -107.81843  
(NAD 1927)

**Pit ID**

393841

**Pit Type**

Other

**Date Closure Started:** 9/7/05

**Date Closure Completed:** 9/7/05

**Closure Method:** Excavated, Blended, Treated Soil Returned

**Bedrock Encountered ?** ☐

**Cubic Yards Excavated:** 87

**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.

Vertical extent of excavation limited by equipment

**Pit Closure Sampling:**

Sample ID	Sample Date	Head Space	BTEX Total (mg/kg)	Benzene (mg/kg)	TPH DRO (mg/kg)	Purpose	Location	Depth
123810FEB04	2/10/04		130.6	3.6	11000	ASSESS	Flr	3
134707SEP05	9/7/05	0			280	EX Confirm	Walls	10
145207SEP05	9/7/05		4.0	0	1100	EX Confirm	Flr	12

~~See Risk Analysis~~

Lab Project Number: 60100001  
Client Project ID: N MEX PIT PROGRAM

Lab Sample No: 608561692      Project Sample Number: 60100001-016      Date Collected: 09/07/05 13:47  
Client Sample ID: 134707SEP05      Matrix: Soil      Date Received: 09/16/05 09:00

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

Total Extractable Hydrocarbons	Prep/Method: OA2 / OA2								
Mineral Spirits	ND	mg/kg	10.	1.0	09/22/05 20:27	CPR			
Jet Fuel	ND	mg/kg	10.	1.0	09/22/05 20:27	CPR	94114-58-6		
Kerosene	ND	mg/kg	10.	1.0	09/22/05 20:27	CPR			
Diesel Fuel	ND	mg/kg	10.	1.0	09/22/05 20:27	CPR	68553-00-4		
Fuel Oil	ND	mg/kg	10.	1.0	09/22/05 20:27	CPR	68553-00-4		
Motor Oil	ND	mg/kg	10.	1.0	09/22/05 20:27	CPR			
Total Petroleum Hydrocarbons	280	mg/kg	10.	1.0	09/22/05 20:27	CPR		1	
n-Tetracosane (S)	93	%		1.0	09/22/05 20:27	CPR	646-31-1		
p-Terphenyl (S)	84	%		1.0	09/22/05 20:27	CPR	92-94-4		
Date Extracted	09/20/05				09/20/05				

### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	5.5	%		1.0	09/19/05		BAG1		

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 60100001  
Client Project ID: N MEX PIT PROGRAM

Lab Sample No: 608561700 Project Sample Number: 60100001-017 Date Collected: 09/07/05 13:52  
Client Sample ID: 135207SEP05 Matrix: Soil Date Received: 09/16/05 09:00

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	10.	1.0	09/22/05 20:49	CPR			
Jet Fuel	ND	mg/kg	10.	1.0	09/22/05 20:49	CPR	94114-58-6		
Kerosene	ND	mg/kg	10.	1.0	09/22/05 20:49	CPR			
Diesel Fuel	ND	mg/kg	10.	1.0	09/22/05 20:49	CPR	68553-00-4		
Fuel Oil	ND	mg/kg	10.	1.0	09/22/05 20:49	CPR	68553-00-4		
Motor Oil	ND	mg/kg	10.	1.0	09/22/05 20:49	CPR			
Total Petroleum Hydrocarbons	1100	mg/kg	10.	1.0	09/22/05 20:49	CPR			1
n-Tetracosane (S)	137	%		1.0	09/22/05 20:49	CPR	646-31-1		
p-Terphenyl (S)	97	%		1.0	09/22/05 20:49	CPR	92-94-4		
Date Extracted	09/20/05				09/20/05				

#### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	5.0	%		1.0	09/19/05		BAG1		

#### GC Volatiles

Aromatic Volatile Organics	Prep/Method: EPA 5030 Medium Soil / EPA 8021								
Benzene	ND	ug/kg	52.	1.0	09/20/05 22:01	SHF	71-43-2		
Ethylbenzene	350	ug/kg	52.	1.0	09/20/05 22:01	SHF	100-41-4		
Toluene	150	ug/kg	52.	1.0	09/20/05 22:01	SHF	108-88-3		
Xylene (Total)	3500	ug/kg	140	1.0	09/20/05 22:01	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	84	%		1.0	09/20/05 22:01	SHF	98-08-8		

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6079348

Client Project ID: N.M. Pit Program

Lab Sample No: 606833713  
Client Sample ID: 123810FEB04

Project Sample Number: 6079348-011  
Matrix: Soil

Date Collected: 02/10/04 12:38  
Date Received: 02/18/04 09:05

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Semivolatiles</b>									
Total Extractable Hydrocarbons	Prep/Method: OA2 / OA2								
Mineral Spirits	ND	mg/kg	59.	5.9	02/23/04 12:33	RMN1			
Jet Fuel	ND	mg/kg	59.	5.9	02/23/04 12:33	RMN1			
Kerosene	ND	mg/kg	59.	5.9	02/23/04 12:33	RMN1			
Diesel Fuel	11000	mg/kg	59.	5.9	02/23/04 12:33	RMN1	68334-30-5	3	
Fuel Oil	ND	mg/kg	59.	5.9	02/23/04 12:33	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	59.	5.9	02/23/04 12:33	RMN1			
n-Tetracosane (S)	736	%		1.0	02/23/04 12:33	RMN1	646-31-1	4	
p-Terphenyl (S)	1230	%		1.0	02/23/04 12:33	RMN1	92-94-4	5	
Date Extracted	02/20/04				02/20/04				

**Organics Prep**

Percent Moisture	Method: SM 2540G								
Percent Moisture	16.0	%		1.0	02/19/04	JLC1			

**GC Volatiles**

Aromatic Volatile Organics	Prep/Method: EPA 5030 Medium Soil / EPA 8021								
Benzene	3600	ug/kg	230	4.6	02/19/04 22:30		71-43-2		
Ethylbenzene	7000	ug/kg	230	4.6	02/19/04 22:30		100-41-4		
Toluene	33000	ug/kg	230	4.6	02/19/04 22:30		108-88-3		
Xylene (Total)	87000	ug/kg	580	4.6	02/19/04 22:30		1330-20-7		
a,a,a-Trifluorotoluene (S)	0	%		1.0	02/19/04 22:30		98-08-8	2	

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