

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: CAULKINS OIL CO Telephone: \_\_\_\_\_ e-mail address: \_\_\_\_\_  
Address: 1409 W AZTEC BLVD AZTEC, NM 87410  
Facility or well name: BREECH D #346 API #: 30-039-21534 U/L or Qtr/Qtr A SEC 22 T 26N R 6W  
County: RIO ARriba Latitude 36.47731 Longitude -107.44909 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 36 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)

0

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 points)

0

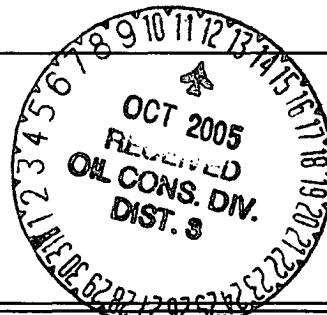
**Ranking Score (TOTAL POINTS):**

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 your 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*



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: 9/18/05

Printed Name/Title Mark Harvey for Williams Field Services Signature Mr. Zing, 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

Printed Name/Title \_\_\_\_\_ Signature Henry Feltz

OCT 12 2005

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

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

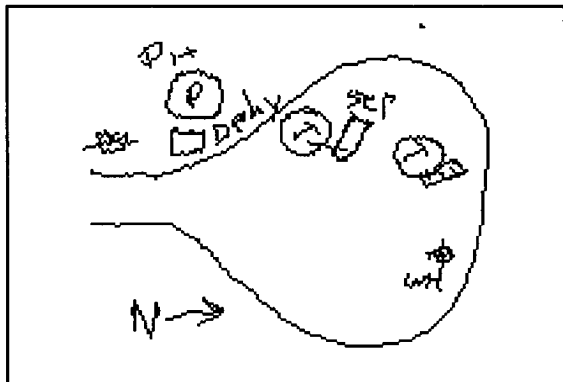
**Operator:** CAULKINS OIL CO

**API** 30-039-21534

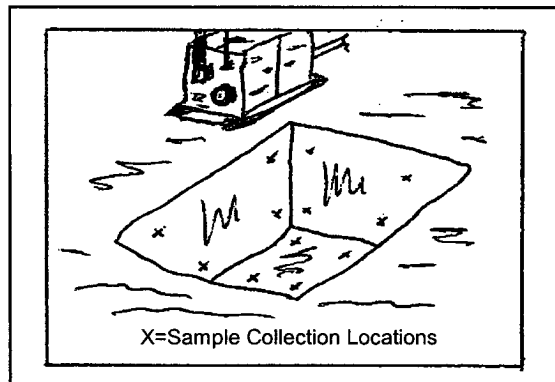
**Well Name:** BREECH D #346

**Meter:** 33321

**Facility Diagram:**



**Sampling Diagram:**



**Pit Dimensions**

Length 10 Ft.

Width 10 Ft.

Depth 2 Ft.

**Location of Pit Center**

Latitude 36.47698

Longitude -107.44966

(NAD 1927)

**Pit ID**

333211

**Pit Type**

Glycol Dehydrator

**Date Closure Started:** 8/17/04

**Date Closure Completed:** 8/17/04

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

**Bedrock Encountered ?** ☒

**Cubic Yards Excavated:** 48

**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
090217AUG04	8/17/04		31.5	0	2300	EX Confirm	Walls	5
090917AUG04	8/17/04		185.8	1.8	2300	EX Confirm	Flr	9
193021MAY04	5/21/04		437	24	16000	ASSESS	Flr	3.5

See Risk Analysis

Lab Project Number: 6082900  
Client Project ID: NM PITS

Lab Sample No: 607145703      Project Sample Number: 6082900-013      Date Collected: 05/21/04 19:30  
Client Sample ID: 193021MAY04      Matrix: Soil      Date Received: 05/26/04 09:25

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	130	12.6	06/09/04 16:10	DCKI			
Jet Fuel	ND	mg/kg	130	12.6	06/09/04 16:10	DCKI			
Kerosene	ND	mg/kg	130	12.6	06/09/04 16:10	DCKI			
Diesel Fuel	ND	mg/kg	130	12.6	06/09/04 16:10	DCKI	68334-30-5		
Fuel Oil	ND	mg/kg	130	12.6	06/09/04 16:10	DCKI	68334-30-5		
Motor Oil	ND	mg/kg	130	12.6	06/09/04 16:10	DCKI			
Total Petroleum Hydrocarbons	16000	mg/kg	130	12.6	06/09/04 16:10	DCKI		9	
n-Tetracosane (S)	0	%		1.0	06/09/04 16:10	DCKI	646-31-1	6	
p-Terphenyl (S)	0	%		1.0	06/09/04 16:10	DCKI	92-94-4	6	
Date Extracted	06/01/04				06/01/04				

#### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	21.3	%		1.0	05/27/04	DPB			

#### GC Volatiles

Aromatic Volatile Organics Prep/Method: EPA 5030 Medium Soil / EPA 8021

Benzene	24000	ug/kg	16000	313	05/28/04 23:04	ARF	71-43-2		
Ethylbenzene	25000	ug/kg	16000	313	05/28/04 23:04	ARF	100-41-4		
Toluene	98000	ug/kg	16000	313	05/28/04 23:04	ARF	108-88-3		
Xylene (Total)	290000	ug/kg	39000	313	05/28/04 23:04	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	94	%		1.0	05/28/04 23:04	ARF	98-08-8		

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6086140  
Client Project ID: NM Pits

Lab Sample No: 607420288      Project Sample Number: 6086140-032      Date Collected: 08/17/04 09:09  
Client Sample ID: 090917AUG04      Matrix: Soil      Date Received: 08/26/04 08:55

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	11.		1.1 08/30/04 15:30 RMN1				
Jet Fuel	ND	mg/kg	11.		1.1 08/30/04 15:30 RMN1				
Kerosene	ND	mg/kg	11.		1.1 08/30/04 15:30 RMN1				
Diesel Fuel	ND	mg/kg	11.		1.1 08/30/04 15:30 RMN1		68334-30-5		
Fuel Oil	ND	mg/kg	11.		1.1 08/30/04 15:30 RMN1		68334-30-5		
Motor Oil	ND	mg/kg	11.		1.1 08/30/04 15:30 RMN1				
Total Petroleum Hydrocarbons	2300	mg/kg	11.		1.1 08/30/04 15:30 RMN1			1	
n-Tetracosane (S)	211	%			1.0 08/30/04 15:30 RMN1		646-31-1	3	
p-Terphenyl (S)	95	%			1.0 08/30/04 15:30 RMN1		92-94-4		
Date Extracted	08/27/04				08/27/04				

### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	9.1	%			1.0 08/27/04		DPB		

### GC Volatiles

Aromatic Volatile Organics	Prep/Method: EPA 5030 Medium Soil / EPA 8021								
Benzene	1800	ug/kg	1100		21.9 08/30/04 12:49 ARF		71-43-2		
Ethylbenzene	13000	ug/kg	1100		21.9 08/30/04 12:49 ARF		100-41-4		
Toluene	11000	ug/kg	1100		21.9 08/30/04 12:49 ARF		108-88-3		
Xylene (Total)	160000	ug/kg	2800		21.9 08/30/04 12:49 ARF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%			1.0 08/30/04 12:49 ARF		98-08-8		

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Lab Project Number: 6086140  
Client Project ID: NM Pits

Lab Sample No: 607420270      Project Sample Number: 6086140-031      Date Collected: 08/17/04 09:02  
Client Sample ID: 090217AUG04      Matrix: Soil      Date Received: 08/26/04 08:55

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	12.	1.2	08/30/04 15:13	RMN1			
Jet Fuel	ND	mg/kg	12.	1.2	08/30/04 15:13	RMN1			
Kerosene	ND	mg/kg	12.	1.2	08/30/04 15:13	RMN1			
Diesel Fuel	ND	mg/kg	12.	1.2	08/30/04 15:13	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	12.	1.2	08/30/04 15:13	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	12.	1.2	08/30/04 15:13	RMN1			
Total Petroleum Hydrocarbons	2300	mg/kg	12.	1.2	08/30/04 15:13	RMN1		1	
n-Tetracosane (S)	223	%		1.0	08/30/04 15:13	RMN1	646-31-1	3	
p-Terphenyl (S)	95	%		1.0	08/30/04 15:13	RMN1	92-94-4		
Date Extracted	08/27/04				08/27/04				

#### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	15.6	%		1.0	08/27/04	DPB			

#### GC Volatiles

Aromatic Volatile Organics Prep/Method: EPA 5030 Medium Soil / EPA 8021

Benzene	ND	ug/kg	240	4.7	08/30/04 12:19	ARF	71-43-2		
Ethylbenzene	1100	ug/kg	240	4.7	08/30/04 12:19	ARF	100-41-4		
Toluene	3400	ug/kg	240	4.7	08/30/04 12:19	ARF	108-88-3		
Xylene (Total)	27000	ug/kg	610	4.7	08/30/04 12:19	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	93	%		1.0	08/30/04 12:19	ARF	98-08-8		

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