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 V No ...

WFS CLOSURE Type of action: Registration of a pit or below	v-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 A #125 API #: 30-039-		<u>8</u> T <u>26N</u> R <u>6W</u>
County: RIO ARRIBA Latitude 36 30.	440 N Longitude 107 29.754 W	NAD: 1927 ☑ 1983 □
Surface Owner: Federal 🗹 State 🗌 Private 🔲 Indian 🔲		7771123
Pit	Below-grade tank	\$ \$ 'M
Type: Drilling Production Disposal	Volume: bbl Type of fluid: Construction Material:	FEB 2006
Workover L Emergency		plain, why not
Lined Unlined 🗹		DICT O
Liner Type: Synthetic Thickness mil Clay		
Pit Volume 18 bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal high	Less than 50 feet	(20 points)
water elevation of ground water.)	50 feet or more, but less than 100 feet 100 feet or more	(10 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>
source, or less than 1000 feet from an other water sources.)	NO	(0 points) <u>s</u>
Distance to surface water: (Horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet to 1,000 feet	(10 points) <u>0</u> (0 points)
	Greater than 1,000 feet	(o points)
	Ranking Score (TOTAL POINTS):	<u>0</u>
	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal	location: (check the
If this is a pit closure: (1)Attach a diagram of the facility showing the pit's rel onsite box if your are burying in place) onsite onsite If offsite, name action taken including remediation start date and end date. (4)Groundwater encountry	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility	location: (check the eneral description of remedial
onsite box if your are burying in place) onsite 🗹 offsite 🗌 If offsite, name	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility of facility No Yes If yes, show depth below gr	location: (check the eneral description of remedial
onsite box if your are burying in place) onsite offsite If offsite, name action taken including remediation start date and end date. (4)Groundwater encountries	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility ntered: No Yes If yes, show depth below grocations and excavations.	location: (check the eneral description of remedial
onsite 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 lo	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility ntered: No Yes If yes, show depth below grocations and excavations.	location: (check the eneral description of remedial ound surface ft.
onsite 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 lo	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility ntered: No Yes If yes, show depth below grocations and excavations.	location: (check the eneral description of remedial ound surface ft.
onsite 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 lo	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility (3)Attach a gentered: No Yes If yes, show depth below grocations and excavations.	location: (check the eneral description of remedial ound surface ft.
onsite 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 lo	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility ntered: No Yes If yes, show depth below grocations and excavations.	location: (check the eneral description of remedial ound surface ft.
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onsite 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 load distinguished the comments:	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility (3)Attach a gentered: No 🗹 Yes 🗌 If yes, show depth below grocations and excavations.	l location: (check the eneral description of remedial ound surface ft. Meter: 33435
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onsite 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 local data of the sample results. Additional Comments: I hereby certify that the information above is true and complete to the best of my keep tank has been/will be constructed or closed according to NMOCD guidelines.	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility	l location: (check the eneral description of remedial ound surface ft. Meter: 33435
onsite 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 load date. (4)Groundwater encour and attach sample results. (5)Attach soil sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date in the sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date in the sample results and a diagram of sample load date in the sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (5)Attach soil sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (5)Attach soil sample results and a diagram of sample load date. (5)Attach soil sample results and a diagram of sample load date. (6)Attach soil sample results and a diagram of sample results and a diagram of sample load date. (6)Attach soil sample results and a diagram of sam	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility	l location: (check the eneral description of remedial ound surface ft. Meter: 33435
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onsite 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 load date. (4)Groundwater encour and attach sample results. (5)Attach soil sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date in the sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date in the sample results and a diagram of sample load date in the sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (5)Attach soil sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (4)Groundwater encour and attach sample results and a diagram of sample load date. (5)Attach soil sample results and a diagram of sample load date. (5)Attach soil sample results and a diagram of sample load date. (6)Attach soil sample results and a diagram of sample results and a diagram of sample load date. (6)Attach soil sample results and a diagram of sam	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility	location: (check the eneral description of remedial ound surface ft. Meter: 33435 ed pit or below-grade D-approved plan
onsite 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 local distributional Comments: I hereby certify that the information above is true and complete to the best of my keep tank has been/will be constructed or closed according to NMOCD guidelines Date: 10/3/05 Printed Name/Title Mark Harvey for Williams Field Services Signor of this application/closure does not relie or otherwise endanger public health or the environment. Nor does it relieve the or	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility	location: (check the eneral description of remedial ound surface ft. Meter: 33435 ed pit or below-grade D-approved plan
onsite 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 local data and attach sample results. (5)Attach soil sample results and a diagram of sample local data and a diagram of sample loc	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal of facility	location: (check the eneral description of remedial ound surface ft. Meter: 33435 ed pit or below-grade D-approved plan

ADDENDUM TO OCD FORM C-144

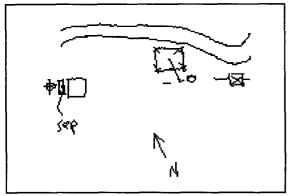
Operator: CAULKINS OIL CO

Well Name: BREECH A #125

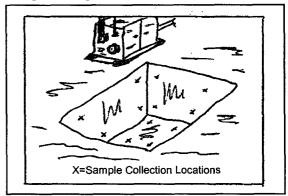
API 30-039-06616

Meter: 33435

Facility Diagram:



Sampling Diagram:



Pit Dimensions

Length 10 Ft.

Width 10 Ft.

Depth <u>1</u> Ft. **Location of Pit Center**

Latitude 36 30.440 N

Longitude 07 29.709 W

(NAD 1927)

Pit ID

334351

Pit Type

Other

Date Closure Started: 6/6/05

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 6/6/05

Bedrock Encountered?

Cubic Yards Excavated: 21

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:

132206JUN05

Sample ID **BTEX** Sample Head Benzene Date Space Total (mg/kg)

145

6/6/05

(mg/kg) (mg/kg)

78

TPH DRO

Purpose Location Depth

EX Confirm Walls

See Risk Analysis

132806JUN05 6/6/05 109 118.36 0.36 760 EX Confirm Flr See Risk Analysis

1200

0

151817MAY05 5/17/05 1902 52 550 Flr ASSESS 2.5



608179560

Lab Sample No:

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

Client Sample ID: 151817MAY05 Matrix: Soil

Project Sample Number: 6095256-009 Date Collected: 05/17/05 15:18 Date Received: 05/19/05 08:45

Client Sample ID: 15181/MAY05			matrix: Soil					Date Received: 05/19/05 08:4:			
Parameters	Results	Units	Report Limit	DF	Analy	zed	Ву	CAS No.	Qua1	RegLmt	
GC Semivolatiles			-								
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2									
Mineral Spirits	ND	mg/kg	14.	1.4	05/24/05	12:14	RMN1				
Jet Fuel	ND	mg/kg	14.	1.4	05/24/05	12:14	RMN1				
Kerosene	ND	mg/kg	14.	1.4	05/24/05	12:14	RMN1				
Diesel Fuel	ND	mg/kg	14.	1.4	05/24/05	12:14	RMN1	68334-30-5			
Fuel 0il	ND	mg/kg	14.	1.4	05/24/05	12:14	RMN1	68334-30-5			
Motor Oil	ND	mg/kg	14.	1.4	05/24/05	12:14	RMN1	•			
Total Petroleum Hydrocarbons	550	mg/kg	14.	1.4	05/24/05	12:14	RMN1		6		
n-Tetracosane (S)	138	*		1.0	05/24/05	12:14	RMN1	646-31-1			
p-Terphenyl (S)	115	*		1.0	05/24/05	12:14	RMN1	92-94-4			
Date Extracted	05/21/05				05/21/05						
Organics Prep											
Percent Moisture	Method: SM 2	2540G									
Percent Moisture	29.6	*		1.0	05/20/05		JMF1				
GC Volatiles											
Aromatic Volatile Organics	Prep/Method:	: EPA 5030 M	ledium Soil / E	PA 802	1						
Benzene	52000	ug/kg	14000	284	05/23/05	14:36	SHF	71-43-2			
Ethylbenzene	130000	ug/kg	14000	284	05/21/05	13:23	SHF	100-41-4			
Toluene	420000	ug/kg	14000	284	05/21/05	13:23	SHF	108-88-3			
Xylene (Total)	1300000	ug/kg	37000	284	05/21/05	13:23	SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	92	*		1.0	05/21/05	13:23	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: 6096223

Client Project ID: N. Mex Pit Program Spring 2005

Lab_Sample No: 608256277 —— Project_Sample Number: 6096223-011 — Date Collected: 06/06/05 13:22

Client Sample ID: 132206JUN05				Matrix: Soil			Date Received	1: 06/1	5/05 09:10
Parameters	Results	Units	Report Limit	_DF	Anal yzed	Ву	CAS No.	Qual	RegLmt
GC Semivolatiles									
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2		•					
Mineral Spirits	ND	mg/kg	11.	1.1	06/18/05 07:26	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1	06/18/05 07:26	RMN1			
Kerosene	ND	mg/kg	11.	1.1	06/18/05 07:26	RMN1			
Diesel Fuel	ND	mg/kg	11.	1.1	06/18/05 07:26	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	06/18/05 07:26	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	11.	1.1	06/18/05 07:26	RMN1			
Total Petroleum Hydrocarbons	1200	mg/kg	11.	1.1	06/18/05 07:26	RMN1		1	
n-Tetracosane (S)	101	* .		1.0	06/18/05 07:26	RMN1	646-31-1		
p-Terphenyl (S)	95	x		1.0	06/18/05 07:26	RMN1	92-94-4		
Date Extracted	06/15/05				06/15/05				
Organics Prep									
Percent Moisture	Method: SM 2	2540G							
Percent Moisture	10.6	*		1.0	06/16/05	CPR			
GC/MS Volatiles									
UST VOCs in Soil	Prep/Method:	: EPA 5030 M	Medium Soil / E	PA 8260	1				
Benzene	ND	ug/kg	280	5.6	06/20/05 18:49	JKL	71-43-2		•
Toluene	ND	ug/kg	280	5.6	06/20/05 18:49	JKL	108-88-3		
Ethylbenzene	ND	ug/kg	280	5.6	06/20/05 18:49	JKL	100-41-4		
Xylene (Total)	78000	ug/kg	840	5.6	06/20/05 18:49	JKL	1330-20-7		
Dibromofluoromethane (S)	108	*		1.0	06/20/05 18:49	JKL	1868-53-7		•
1,2-Dichloroethane-d4 (S)	109	*		1.0	06/20/05 18:49	JKL	17060-07-0		
Toluene-d8 (S)	146	*		1.0	06/20/05 18:49	JKL	2037-26-5	3	
4-Bromofluorobenzene (S)	141	*		1.0	06/20/05 18:49	JKL	460-00-4	3	

Date: 06/22/05

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REPORT OF LABORATORY ANALYSIS

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608256285

Lab Sample No:

Pace Analytical Services, Inc.

Date Collected: 06/06/05 13:28

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6096223

Client Project ID: N. Mex Pit Program Spring 2005

Project Sample Number: 6096223-012 10

Client Sample ID: 132806JUN05	•		, , , , , , , , , , , , , , , , , , ,	Matrix	: Soil		Ī	Date Received	i: 06/1	5/05 09:10
Parameters	Results	Units	Report Limit	_DF	Analy	zed	Ву	CAS No.	Qual	RegLmt
GC Semivolatiles										•
Total Extractable Hydrocarbons	Prep/Method:	: OA2 / OA2								
Mineral Spirits	ND	mg/kg	11.	1.1	06/18/05 (07:46	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1	06/18/05	07:46	RMN1			
Kerosene	ND	mg/kg	11.	1.1	06/18/05	07:46	RMN1	e e e e e e e e e e e e e e e e e e e		
Diesel Fuel	ND	mg/kg	11.	1.1	06/18/05	07:46	RMN1	68334-30-5		
Fuel 0il	ND	mg/kg	11.	1.1	06/18/05	07:46	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	11.	1.1	06/18/05	07:46	RMN1			
Total Petroleum Hydrocarbons	760	mg/kg	11.	1.1	06/18/05	07:46	RMN1		1	
n-Tetracosane (S)	111	*		1.0	06/18/05	07:46	RMN1	646-31-1		
p-Terphenyl (S)	103	X		1.0	06/18/05	07:46	RMN1	92-94-4		
Date Extracted	06/15/05				06/15/05					
Organics Prep										•
Percent Moisture	Method: SM 2	2540G								
Percent Moisture	9.7	*		1.0	06/16/05		CPR			
GC/MS Volatiles										
UST VOCs in Soil	Prep/Method	: EPA 5030 N	dedium Soil / E	PA 8260)					
Benzene	360	ug/kg	280		06/20/05	19:06	JKL	71-43-2		
Toluene	19000	ug/kg	280	5.5	06/20/05	19:06	JKL	108-88-3		
Ethylbenzene	11000	ug/kg	280	5.5	06/20/05	19:06	JKL	100-41-4		
Xylene (Total)	88000	ug/kg	830	5.5	06/20/05	19:06	JKL	1330-20-7		
Dibromofluoromethane (S)	103	X		1.0	06/20/05	19:06	JKL	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	*		1.0	06/20/05	19:06	JKL	17060-07-0		
Toluene-d8 (S)	134	X		1.0	06/20/05	19:06	JKL	2037-26-5	3	
4-Bromofluorobenzene (S)	127	. X		1.0	06/20/05	19:06	JKL	460-00-4	3	

Date: 06/22/05

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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.
- 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.