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

WFS CLOSURE Type of action: Registration of a pit or below	-grade tank Closure of a pit or below-grade tank	✓						
Operator: BP AMERICA PRODUCTION COMPANY Telephone: e-mail address:								
Address: PO BOX 22048 TULSA, OK 74121								
Facility or well name: FLORANCE I #038A API #: 30-045-	$\frac{21860}{\text{U/L or Qtr/Qtr}} \qquad \frac{\text{F}}{\text{SEC}}$	<u>14</u> T <u>30N</u> R <u>8W</u>						
Surface Owner: Federal ✓ State □ Private □ Indian □								
Pit Type: Drilling Production								
Construction Material:								
Double-walled, with leak detection? Yes If not, explain why not.								
Lined Unlined 🗹	l'à	SON SON S						
Liner Type: Synthetic Thickness mil Clay	<i>\\</i>	E DIST. S						
Pit Volume 120 bbl								
Depth to ground water (vertical distance from bottom of pit to seasonal high	Less than 50 feet	(20 points)// 01 C/ 1/1						
water elevation of ground water.)	50 feet or more, but less than 100 feet 100 feet or more	(10 points) <u>0</u> (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) Q								
Distance to surface water: (Horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) Less than 200 feet (20 points) (10 points) O								
Greater than 1,000 feet (0 points)								
	Ranking Score (TOTAL POINTS):	0						
If this is a pit closure: (1)Attach a diagram of the facility showing the pit's relative for the facility showing the facility showing the pit's relative for the facility showing the facility	I ationship to other equipment and tanks. (2) Indicate disposal	l 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 Ves If yes, show depth below ground surfaceft.								
and attach sample results. (5)Attach soil sample results and a diagram of sample locations and excavations.								
Additional Comments: Meter: 34414								
1								
Outside VA								
UM 15100								
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:								
Printed Name/Title Mark Harvey for Williams Field Services Sign	gnature							
Your certification and NMOCD approval of this application/closure does not relie or otherwise endanger public health or the environment. Nor does it relieve the or regulations.								
Approval:		ምስ ላ ባ ሳለለ						
Printed Name/Title Sign	ature Derry Kert	FEB 0 2 200 Date:						
Sign - Sign		Date.						

ADDENDUM TO OCD FORM C-144

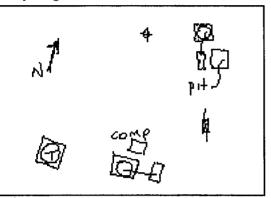
Operator: BP AMERICA PRODUCTION COMPANY

Well Name: FLORANCE I #038A

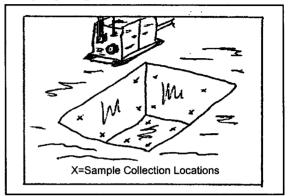
API 30-045-21860

Meter: 34414

Facility Diagram:



Sampling Diagram:



Pit Dimensions

15 Ft. Length

Width 15 Ft.

3 Ft. Depth

Location of Pit Center

Latitude 36 48.791 N

Longitude <u>07 38.733 W</u>

(NAD 1927)

Pit ID

344141

Pit Type

Glycol Dehydrator

Date Closure Started: 3/14/05

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 3/14/05

Bedrock Encountered?

Cubic Yards Excavated: 58

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

Benzene (mg/kg)

TPH DRO (mg/kg)

530

Purpose

Location

Depth

		110714MAR05	3/14/05	139	653.4	7.
--	--	-------------	---------	-----	-------	----

(mg/kg)

EX Confirm

Walls

7

See Risk Analysis

111714MAR05 3/14/05 209 554 2100 EX Confirm Flr See Risk Analysis



Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6093056

Client Project ID: N. Mexico Pits Winter 2005

-Lab-Sample-No:- ---607993912

Project Sample-Number: 6093056-009

Date Collected: 03/14/05 11:07

Date Received: 03/22/05 09:05

Client Sample ID: 110714MAR05				Matrix	c: Soil	•	١	Date Received	1: 03/2	2/05 09:0
Parameters	Results	Units	Report Limit	_DF	Analyz	ed _	<u>Зу</u>	CAS No.	Qua1	RegLmt
GC Semivolatiles									,	
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2								
Mineral Spirits	ND	mg/kg	13.	1.3	03/25/05 0	1:28 RI	MN1			
Jet Fuel	ND	mg/kg	13.	1.3	03/25/05 0	1:28 RI	MN1			
Kerosene	ND	mg/kg	13.	1.3	03/25/05 0	1:28 RI	MN1			
Diesel Fuel	ND	mg/kg	13.	1.3	03/25/05 0	1:28 R	MN1	68334-30-5		
Fuel Oil	ND	mg/kg	13.	1.3	03/25/05 0	1:28 RI	MN1	68334-30-5		
Motor 0il	ND	mg/kg	13.	1.3	03/25/05 0	1:28 RI	MN1	٠		
Total Petroleum Hydrocarbons	530	mg/kg	13.	1.3	03/25/05 0	1:28 RI	MN1	4	7	
n-Tetracosane (S)	108	*		1.0	03/25/05 0	1:28 R	MN1	646-31-1	,	
p-Terphenyl (S)	118	X		1.0	03/25/05 0	1:28 R	MN1	92-94-4		
Date Extracted	03/24/05				03/24/05					
Organics Prep										
Percent Moisture	Method: SM 2	2540G								,
Percent Moisture	23.2	*		1.0	03/24/05	C	PR			
GC/MS Volatiles										
UST VOCs in Soil	Prep/Method:	: EPA 5030 M	ledium Soil / E	PA 826	0					
Benzene	7400	ug/kg	6100	122	03/24/05 1	1:15 A	ΕP	71-43-2		
Toluene	170000	ug/kg	6100	122	03/24/05 1	1:15 A	ΕP	108-88-3		
Ethylbenzene	16000	ug/kg	6100	122	03/24/05 1	1:15 A	ΕP	100-41-4		
Xylene (Total)	460000	ug/kg	18000	122	03/24/05 1	1:15 A	ΕP	1330-20-7		
Dibromofluoromethane (S)	103	*		1.0	03/24/05 1	1:15 A	ΕP	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	*	•	1.0	03/24/05 1	1:15 A	EP	17060-07-0		
Toluene-d8 (S)	102	*		1.0	03/24/05 1	1:15 A	ΕP	2037-26-5		
4-Bromofluorobenzene (S)	99	*		1.0	03/24/05 1	1:15 A	ΕP	460-00-4		

Date: 03/29/05

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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: 6093056

Client Project ID: N. Mexico Pits Winter 2005

Date Collected: 03/14/05 11:17 Project Sample Number: 6093056-010 Lab Sample No: 607993920

Client Sample ID: 111714MAR05				Matrix	c: Soil		Date Receive	d: 03/2	2/05 09:0
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.	1.1	03/25/05 01:	48 RMN1			
Jet Fuel	ND	mg/kg	12.	1.1	03/25/05 01:	48 RMN1	:		
Kerosene	ND	mg/kg	12.	1.1	03/25/05 01:	48 RMN1	•		
Diesel Fuel	ND	mg/kg	12.	1.1	03/25/05 01:	48 RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	12.	1.1	03/25/05 01:	48 RMN1	68334-30-5		
Motor 0il	ND	mg/kg	12.	1.1	03/25/05 01:	48 RMN1	•		
Total Petroleum Hydrocarbons	2100	mg/kg	12.	1.1	03/25/05 01:	48 RMN1	L	7	
n-Tetracosane (S)	123	x		1.0	03/25/05 01:	48 RMN1	646-31-1		
p-Terphenyl (S)	124	x		1.0	03/25/05 01:	48 RMN1	92-94-4		
Date Extracted	03/24/05				03/24/05				
Organics Prep									
Percent Moisture	Method: SM 2	2540G							
Percent Moisture	13.5	*		1.0	03/24/05	CPR			
GC/MS Volatiles									
UST VOCs in Soil	Prep/Method:	: EPA 5030 M	ledium Soil / E	PA 826	0				
Benzene	ND	ug/kg	5200	104	03/24/05 11	31 AEP	71-43-2		
Toluene	68000	ug/kg	5200	104	03/24/05 11	31 AEP	108-88-3		
Ethylbenzene	16000	ug/kg	5200	104	03/24/05 11	31 AEP	100-41-4		
Xylene (Total)	470000	ug/kg	16000	104	03/24/05 11	31 AEP	1330-20-7		
Dibromofluoromethane (S)	103	×		1.0	03/24/05 11	31 AEP	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	X		1.0	03/24/05 11	31 AEP	17060-07-0		
Toluene-d8 (S)	101	X		1.0	03/24/05 11	31 AEP	2037-26-5		
4-Bromofluorobenzene (S)	104	*		1.0	03/24/05 11	31 AEP	460-00-4		

Date: 03/29/05

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REPORT OF LABORATORY ANALYSIS

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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:

- 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.