District II
1301 W. Grand Avenue, Artesia, NM 88210
District III

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

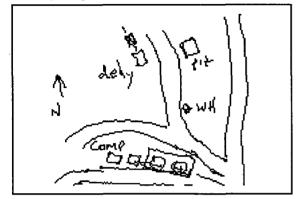
WFS CLOSUCE Type of action: Registration of a pit or below	r-grade tank Closure of a pit or below-grade tank	✓					
Operator: BP AMERICA PRODUCTION COMPANY Telephone:	e-mail address:						
Address: PO BOX 22048 TULSA, OK 74121							
Facility or well name: FLORANCE U #006 API #: 30-045-	09284 U/L or Qtr/Qtr <u>M</u> SEC	<u>23</u> T <u>30N</u> R <u>9W</u>					
County: SAN JUAN Latitude 36 47.	517 N Longitude 107 45.334 W	NAD: 1927 🗹 1983 🗌					
Surface Owner: Federal ✓ State ☐ Private ☐ Indian ☐							
Pit Type: Drilling □ Production ☑ Disposal □	Below-grade tank Volume: bbl Type of fluid:	10 JUST 1 2 3 7					
Workover Emergency	Construction Material:	100 mg					
_	Double-walled, with leak detection? Yes 📓 If not, ex	plain why not 8 2006					
Lined Unlined Liner Type: Synthetic Thickness mil Clay	7.47	OLCOVS DIV.					
Liner Type: Synthetic Thickness mil Clay	15. C	DIST. 8 ST					
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	(10 points) Q S					
	100 feet or more	(0 points)					
Wellhead protection area: (Less than 200 feet from a private domestic water	Yes	(20 points)					
source, or less than 1000 feet from all other water sources.)	No	(0 points) <u>0</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 Greater than 1,000 feet	(10 points) $\underline{0}$ (0 points)					
	D. I. C. GOTAL POLYTON	<u>0</u>					
Tekin in a mis alanyan (1) Attack a diagram of the Smilitra showing the mistage	Ranking Score (TOTAL POINTS): ationship to other equipment and tanks. (2) Indicate disposal						
If this is a pit closure: (1)Attach a diagram of the facility showing the pit's relationsite box if your are burying in place) onsite ✓ offsite ☐ If offsite, name	-	eneral description of remedial					
action taken including remediation start date and end date. (4)Groundwater encountered: No 🗹 Yes 🗌 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:	1	Meter: <u>34065</u>					
Bedvock							
I hereby certify that the information above is true and complete to the best of my k							
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 Normal Title No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
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 liablility 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:		FEB 0 2 2006					
Printed Name/Title OFUTY OR & GAS INSPECTOR, DIST. Signal	ature Cuy Luy	Date:					

ADDENDUM TO OCD FORM C-144

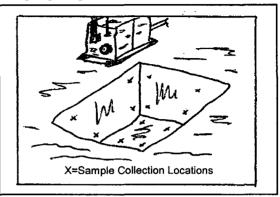
Operator: BP AMERICA PRODUCTION COMPANY

Well Name: FLORANCE U #006 Meter: 34065

Facility Diagram:



Sampling Diagram:



API 30-045-09284

Pit Dimensions

Length 15 Ft.

Width <u>15</u> Ft.

Depth 1.5 Ft.

Location of Pit Center

Latitude 36 47.543 N

Longitude <u>07 45.323 W</u>

(NAD 1927)

Pit ID

<u>340651</u>

Pit Type

Glycol Dehydrator

Date Closure Started: 3/24/05

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 3/24/05

Bedrock Encountered?

Cubic Yards Excavated: 33

Vertical Extent of Equipment Reached ? \Box

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	
101424MAR05	3/24/05	126	0	0	120	EX Confirm	Walls	4	See Risk Analysis
102024MAR05	3/24/05	104	435	30	210	EX Confirm	Flr	4	See Risk Analysis
112306MAR05	3/6/05		4650	790	190	ASSESS	Flr	2.5	



Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6092681

Client Project ID: NM Pits 02/18-03/04/2005

607961729 Lab Sample No:

Project Sample Number: 6092681-018

Date Collected: 03/06/05 11:23

Date Received: 03/10/05 09:00

Client Sample ID: 112306MAR05			Matrix: Soil					Date Received: 03/10/05 09:00			
Parameters	Results	Units	Report Limit	DF	Analy	yzed	Ву	CAS No.	Qua1	RegLmt	
GC Semivolatiles											
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2									
Mineral Spirits	ND	mg/kg	12.	1.2	03/17/05	15:26	RMN1				
Jet Fuel	ND	mg/kg	12.	1.2	03/17/05	15:26	RMN1				
Kerosene	ND	mg/kg	12.	1.2	03/17/05	15:26	RMN1				
Diesel Fuel	ND	mg/kg	12.	1.2	03/17/05	15:26	RMN1	68334-30-5			
Fuel 0il	ND	mg/kg	12.	1.2	03/17/05	15:26	RMN1	68334-30-5			
Motor 0il	ND	mg/kg	12.	1.2	03/17/05	15:26	RMN1				
Total Petroleum Hydrocarbons	190	mg/kg	12.	1.2	03/17/05	15:26	RMN1		1		
n-Tetracosane (S)	121	*		1.0	03/17/05	15:26	RMN1	646-31-1			
p-Terphenyl (S)	132	*		1.0	03/17/05	15:26	RMN1	92-94-4			
Date Extracted	03/11/05				03/11/05						
Organics Prep											
Percent Moisture	Method: SM 2	2540G						•			
Percent Moisture	16.8	*		1.0	03/11/05		ALJ1	,			
GC/MS Volatiles											
UST VOCs in Soil	Prep/Method:	EPA 5030 N	4edium Soil / E	PA 826	0						
Benzene	790000	ug/kg	6000	120	03/16/05	04:41	AEP	71-43-2			
Toluene	2000000	ug/kg	24000	478	03/16/05	11:53	AEP	108-88-3			
Ethylbenzene	160000	ug/kg	6000	120	03/16/05	04:41	AEP	100-41-4			
Xylene (Total)	1700000	ug/kg	18000	120	03/16/05	04:41	AEP	1330-20-7			
Dibromofluoromethane (S)	110	×		1.0	03/16/05	04:41	AEP	1868-53-7		•	
1,2-Dichloroethane-d4 (S)	120	*		1.0	03/16/05	04:41	AEP	17060-07-0			
Toluene-d8 (S)	117	*		1.0	03/16/05	04:41	AEP	2037-26-5			
4-Bromofluorobenzene (S)	100	x		1.0	03/16/05	04:41	AEP	460-00-4		•	

Date: 03/18/05

Page: 17 of 57

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.





Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6093428

1.0 04/04/05 20:07 AEP

1.0 04/04/05 20:07 AEP

2037-26-5

460-00-4

Client Project ID: N. Mex. Pit Program

Lab Sample No: 608027165 Project_Sample Number: 6093428-020 ____Date_Collected: 03/24/05 10:20

Date Received: 04/01/05 09:00 Client Sample ID: 102024MAR05 Matrix: Soil Units Report Limit DF Analyzed Ву CAS No. **Parameters** Results GC Semivolatiles Total Extractable Hydrocarbons Prep/Method: OA2 / OA2 1.1 04/05/05 18:07 RMN1 11. Mineral Spirits ND mg/kg Jet Fuel NĐ 11. 1.1 04/05/05 18:07 RMN1 mg/kg Kerosene ND mg/kg 11. 1.1 04/05/05 18:07 RMN1 Diesel Fuel 11. 1.1 04/05/05 18:07 RMN1 68334-30-5 ND mg/kg 1.1 04/05/05 18:07 RMN1 68334-30-5 Fuel Oil ND ma/ka 11. Motor 0il ND 11. 1.1 04/05/05 18:07 RMN1 mg/kg Total Petroleum Hydrocarbons 11. 1.1 04/05/05 18:07 RMN1 3 210 mg/kg 1.0 04/05/05 18:07 RMN1 646-31-1 n-Tetracosane (S) 104 z p-Terphenyl (S) 1.0 04/05/05 18:07 RMN1 92-94-4 102 ž Date Extracted 04/04/05 04/04/05 Organics Prep Percent Moisture Method: SM 2540G Percent Moisture 8.8 X 1.0 04/06/05 ALJ1 GC/MS Volatiles UST VOCs in Soil Prep/Method: EPA 5030 Medium Soil / EPA 8260 Benzene 30000 5200 104 04/04/05 20:07 AEP 71-43-2 ua/ka Toluene 5200 220000 ug/kg 104 04/04/05 20:07 AEP 108-88-3 Ethylbenzene 15000 5200 04/04/05 20:07 AEP 100-41-4 ug/kg Xylene (Total) 170000 1330-20-7 ug/kg 16000 104 04/04/05 20:07 AEP Dibromofluoromethane (S) 99 * 1.0 04/04/05 20:07 AEP 1868-53-7 1,2-Dichloroethane-d4 (S) 17060-07-0 99 × 1.0 04/04/05 20:07 AEP

Date: 04/08/05

Toluene-d8 (S)

4-Bromofluorobenzene (S)

93

100

ž

X

Page: 18 of 29

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.





Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa. KS 66219

Phone: 913,599,5665 Fax: 913,599,1759

Lab Project Number: 6093428

Client Project ID: N. Mex. Pit Program

Lab Sample No: 608027157 Project Sample Number: 6093428-019 Date Collected: 03/24/05 10:14
Client Sample ID: 101424MAR05 Matrix: Soil Date Received: 04/01/05 09:00

Client Sample ID: 101424MAR05 Matrix: Soil CAS No. Qual RegLmt Report Limit DF Anal yzed **Parameters** Results Units GC Semivolatiles Total Extractable Hydrocarbons Prep/Method: OA2 / OA2 Mineral Spirits ND 11. 1.1 04/06/05 18:11 RMN1 mg/kg 1.1 04/06/05 18:11 RMN1 11. Jet Fuel ND mg/kg Kerosene 11. 1.1 04/06/05 18:11 RMN1 ND mg/kg Diesel Fuel ND 11. 1.1 04/06/05 18:11 RMN1 68334-30-5 mg/kg Fuel Oil ND 11 1.1 04/06/05 18:11 RMN1 68334-30-5 mg/kg Motor Oil ND 11. 1.1 04/06/05 18:11 RMN1 mg/kg 1.1 04/06/05 18:11 RMN1 1 120 11. Total Petroleum Hydrocarbons mg/kg X 1.0 04/06/05 18:11 RMN1 646-31-1 n-Tetracosane (S) 115 1.0 04/06/05 18:11 RMN1 92-94-4 p-Terphenyl (S) 114 X Date Extracted 04/04/05 04/04/05 Organics Prep Percent Moisture Method: SM 2540G Percent Moisture 1.0 04/06/05 ALJ1 11.6 GC/MS Volatiles UST VOCs in Soil Prep/Method: EPA 5030 Medium Soil / EPA 8260 Benzene 56. 1.1 04/04/05 19:51 AEP 71-43-2 ND ug/kg Toluene ND 56. 1.1 04/04/05 19:51 AEP 108-88-3 ug/kg **Ethylbenzene** 56. 100-41-4 ND ug/kg 1.1 04/04/05 19:51 AEP Xvlene (Total) 170 1.1 04/04/05 19:51 AEP 1330-20-7 ND ug/kg Dibromofluoromethane (S) 98 1.0 04/04/05 19:51 AEP 1868-53-7 ž 1.2-Dichloroethane-d4 (S) 98 × 1.0 04/04/05 19:51 AEP 17060-07-0 Toluene-d8 (S) ሄ 2037-26-5 100 1.0 04/04/05 19:51 AEP 4-Bromofluorobenzene (S) 1.0 04/04/05 19:51 AEP 460-00-4 102 ž

Date: 04/08/05

Page: 17 of 29

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.





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.