

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 ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>BP AMERICA PROD. CO.</u> Telephone: <u>(505)-326-9200</u> e-mail address: _____		
Address: <u>200 ENERGY COURT, FARMINGTON, NM 87410</u>		
Facility or well name: <u>FLORANCE #21A</u> API #: <u>30-045- 22117</u> U/L or Qtr/Qtr <u>C</u> Sec <u>1</u> T <u>29N</u> R <u>9W</u>		
County: <u>SAN JUAN</u> Latitude <u>36.75797</u> Longitude <u>107.73318</u> NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐		
RCUD APR 5 07		
Pit Type: Drilling ☐ Production ☒ Disposal ☐ <u>DEHYDRATOR</u> Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ <u>STEEL TANK</u> Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ bbl	Below-grade tank Volume: _____ bbl Type of fluid: <u>N/A</u> Construction material: <u>N/A</u> Double-walled, with leak detection? Yes ☒ If not, explain why not: _____	OIL CONS. DIV. DIST. 3
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) <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) <u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) <u>0</u> (0 points)
Ranking Score (Total Points)		<u>0</u>

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	<u>PIT LOCATED APPROXIMATELY 156 FT. N88E FROM WELL HEAD.</u>
PIT EXCAVATION: WIDTH	<u>N/A ft. , LENGTH N/A ft. , DEPTH N/A ft. .</u>
PIT REMEDIATION: CLOSE AS IS:	☒ LANDFARM: ☐ COMPOST: ☐ STOCKPILE: ☐ OTHER ☐ (explain)
Cubic yards:	<u>N/A</u>
<u>BEDROCK BOTTOM.</u>	

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 alternative OCD-approved plan ☒.

Date: 05/8/06

PrintedName/Title Jeff Blagg - P.E. # 11607

Signature Jeff Blagg

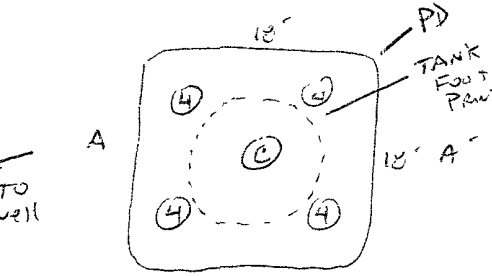
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: Deputy Oil & Gas Inspector,
District #3

Printed Name/Title

Signature Deputy Oil & Gas Inspector

Date: AUG 09 2007

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>80787</u> COCR NO. <u>15876</u>																																																										
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																																										
LOCATION: NAME: <u>FLORANCE</u> WELL #: <u>21 A</u> TYPE: <u>DEHY</u> QUAD/UNIT <u>C</u> SEC: <u>1</u> TWP <u>29N</u> RNG <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST <u>NM</u> QTR/FOOTAGE: <u>925 FNL x 2038 FWL NE1/4</u> CONTRACTOR: <u>L+R (MIKE)</u>		DATE STARTED <u>5-1-06</u> DATE FINISHED <u>5-1-06</u> ENVIRONMENTAL SPECIALIST <u>JCB</u>																																																										
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>0</u>																																																												
DISPOSAL FACILITY: <u>NA</u> REMEDIATION METHOD: <u>CLOSE AS IS</u>																																																												
LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF 078201</u> FORMATION: <u>MV</u>																																																												
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>156</u> FT. <u>N88E</u> FROM WELLHEAD DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u> NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM																																																												
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB READ. = <u>52.8</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME <u>0630</u> (am/pm) DATE <u>5-1-06</u>																																																										
SOIL TYPE SAND <u>(SILTY SAND)</u> SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK SANDSTONE @ 7'</u> SOIL COLOR: <u>DARK TAN</u> COHESION (ALL OTHERS): <u>(NON COHESIVE)</u> SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>(LOOSE)</u> FIRM / DENSE / VERY DENSE PLASTICITY (CLAYS) NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE DRY <u>(SLIGHTLY MOIST)</u> MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>(YES)</u> NO EXPLANATION - <u>Pit Base to 7' - lite green</u> HC ODOR DETECTED <u>(YES)</u> / NO EXPLANATION - <u>Moderate</u> SAMPLE TYPE GRAB / COMPOSITE - # OF PTS <u>18' x 18' x 4' ± Deep Pit w/ 95 BBL steel tank.</u> ADDITIONAL COMMENTS: <u>Use backhoe to pull tank & collect samples.</u> BEDROCK BOTTOM																																																												
FIELD 418.1 CALCULATIONS																																																												
SCALE	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																																																				
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PIT PERIMETER					PIT PROFILE																																																							
					<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">OVM READING</th> </tr> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @</td><td></td></tr> <tr><td>2 @</td><td></td></tr> <tr><td>3 @</td><td></td></tr> <tr><td>4 @</td><td></td></tr> <tr><td>5 @</td><td></td></tr> <tr><td>C @ 7'</td><td>101</td></tr> <tr><td>4-ft @ 7'</td><td>86</td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">LAB SAMPLES</th> </tr> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>C @ 7'</td><td>T/B/C/L</td><td>0940</td></tr> <tr><td>4-ft</td><td>"</td><td>1010</td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </tbody> </table> PASSED				OVM READING		SAMPLE ID	FIELD HEADSPACE (ppm)	1 @		2 @		3 @		4 @		5 @		C @ 7'	101	4-ft @ 7'	86											LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME	C @ 7'	T/B/C/L	0940	4-ft	"	1010												
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TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>5-1-06</u>																																																												

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

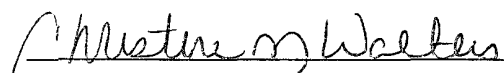
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 7'	Date Reported:	05-08-06
Laboratory Number:	37033	Date Sampled:	05-01-06
Chain of Custody No:	15876	Date Received:	05-04-06
Sample Matrix:	Soil	Date Extracted:	05-04-06
Preservative:	Cool	Date Analyzed:	05-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

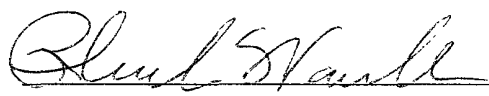
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.2	0.2
Diesel Range (C10 - C28)	1.4	0.1
Total Petroleum Hydrocarbons	1.6	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Florance 21A Dehy Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 7'	Date Reported:	05-08-06
Laboratory Number:	37033	Date Sampled:	05-01-06
Chain of Custody:	15876	Date Received:	05-04-06
Sample Matrix:	Soil	Date Analyzed:	05-05-06
Preservative:	Cool	Date Extracted:	05-04-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	21.8	1.7
Ethylbenzene	6.1	1.5
p,m-Xylene	97.0	2.2
o-Xylene	22.3	1.0
Total BTEX	147	

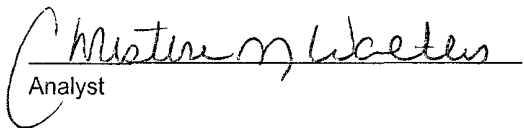
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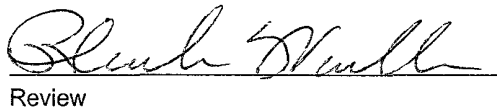
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Florance 21A Dehy Pit.


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Review

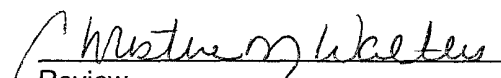
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 7'	Date Reported:	05-05-06
Lab ID#:	37033	Date Sampled:	05-01-06
Sample Matrix:	Soil	Date Received:	05-04-06
Preservative:	Cool	Date Analyzed:	05-05-06
Condition:	Cool and Intact	Chain of Custody:	15876

Parameter	Concentration (mg/Kg)
Total Chloride	380

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Florance 21A Dehy Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

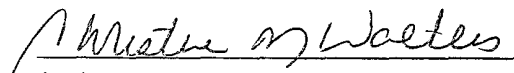
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	4 - Pt @ 7'	Date Reported:	05-08-06
Laboratory Number:	37034	Date Sampled:	05-01-06
Chain of Custody No:	15876	Date Received:	05-04-06
Sample Matrix:	Soil	Date Extracted:	05-04-06
Preservative:	Cool	Date Analyzed:	05-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.3	0.2
Diesel Range (C10 - C28)	2.3	0.1
Total Petroleum Hydrocarbons	2.6	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Florance 21A Dehy Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	4 - Pt @ 7'	Date Reported:	05-08-06
Laboratory Number:	37034	Date Sampled:	05-01-06
Chain of Custody:	15876	Date Received:	05-04-06
Sample Matrix:	Soil	Date Analyzed:	05-05-06
Preservative:	Cool	Date Extracted:	05-04-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	16.9	1.7
Ethylbenzene	2.2	1.5
p,m-Xylene	191	2.2
o-Xylene	47.6	1.0
Total BTEX	258	

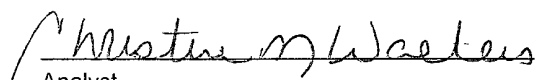
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Florance 21A Dehy Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	4-PT @ 7'	Date Reported:	05-05-06
Lab ID#:	37034	Date Sampled:	05-01-06
Sample Matrix:	Soil	Date Received:	05-04-06
Preservative:	Cool	Date Analyzed:	05-05-06
Condition:	Cool and Intact	Chain of Custody:	15876

Parameter	Concentration (mg/Kg)
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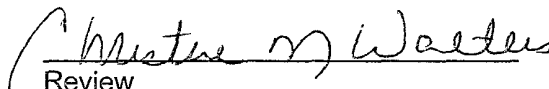
Total Chloride

400

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Florance 21A Dehy Pit.


Analyst


Review

15876

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-05-06 QA/QC	Date Reported:	05-08-06
Laboratory Number:	37025	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-05-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	1.1194E+003	1.1205E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.1622E+003	1.1645E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

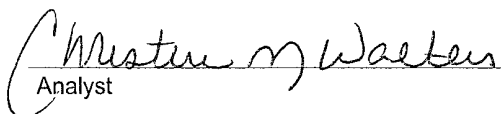
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.9	0.9	0.0%	0 - 30%
Diesel Range C10 - C28	400	397	0.6%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.9	250	251	99.9%	75 - 125%
Diesel Range C10 - C28	400	250	649	99.9%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 37025 - 37034.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-05-BTEX QA/QC	Date Reported:	05-08-06
Laboratory Number:	37025	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-05-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range	0 - 15%		
Benzene	5.2588E+007	5.2693E+007	0.2%	ND	0.2
Toluene	5.7852E+007	5.7967E+007	0.2%	ND	0.2
Ethylbenzene	3.2622E+007	3.2688E+007	0.2%	ND	0.2
p,m-Xylene	1.1273E+008	1.1296E+008	0.2%	ND	0.2
o-Xylene	5.1978E+007	5.2082E+007	0.2%	ND	0.1

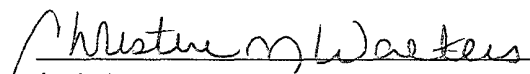
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	9.3	9.2	1.1%	0 - 30%	1.8
Toluene	7.3	7.3	0.0%	0 - 30%	1.7
Ethylbenzene	10.7	10.7	0.0%	0 - 30%	1.5
p,m-Xylene	15.8	15.6	1.3%	0 - 30%	2.2
o-Xylene	4.4	4.4	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	9.3	50.0	59.3	100.0%	39 - 150
Toluene	7.3	50.0	57.3	100.0%	46 - 148
Ethylbenzene	10.7	50.0	60.6	99.8%	32 - 160
p,m-Xylene	15.8	100	114	98.3%	46 - 148
o-Xylene	4.4	50.0	54.3	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 37025 - 37034.


Analyst


Review