

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: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address: _____
Address: 200 ENERGY COURT, FARMINGTON, NM 87410
Facility or well name: BARNES B #3 API #: 30-045- 11258 U/L or Qtr/Qtr H Sec 27 T 32N R 11W
County: SAN JUAN Latitude 36.95868 Longitude 107.97231 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

RCOD APR 30 2007

Pit

Type: Drilling ☐ Production ☐ Disposal ☒ BLOW

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type: Synthetic ☐ Thickness _____ mil Clay ☐

Pit Volume _____ bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____

Construction material: _____

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

(20 points)

50 feet or more, but less than 100 feet

(10 points)

0

100 feet or more

(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

(20 points)

No

(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

(20 points)

200 feet or more, but less than 1000 feet

(10 points)

0

1000 feet or more

(0 points)

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 you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility BP CROUCH MESA LF. (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 PIT LOCATED APPROXIMATELY 180 FT. S76W FROM WELL HEAD.

PIT EXCAVATION: WIDTH 18 ft., LENGTH 18 ft., DEPTH 12 ft.

PIT REMEDIATION: CLOSE AS IS: ☐, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☒ EXCAVATE

Cubic yards: 120

BEDROCK BOTTOM

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: 03/15/06

Printed Name/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.


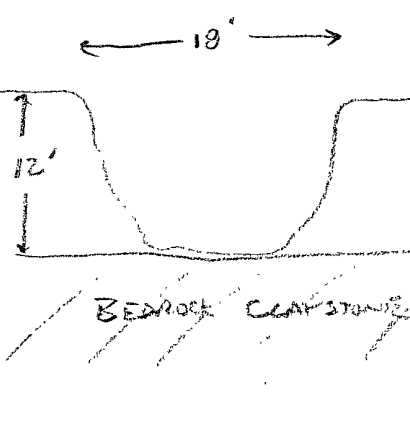
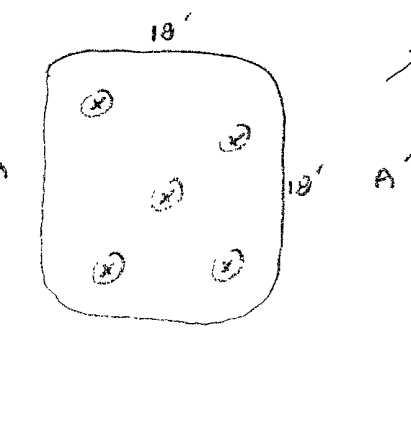
Printed Name/Title

Deputy Oil & Gas Inspector
District #3

Signature Bob Dill

Date.

AUG 09 2007

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81220</u> COCR NO: <u>15669</u>																																																																																								
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																																																																								
LOCATION: NAME: <u>BARNES B</u> WELL #: <u>3</u> TYPE: <u>BLOW</u> QUAD/UNIT: <u>H SEC: 27 TWP: 32N RNG: 11W PM: NM CNTY: ST ST: NM</u> QTR/FOOTAGE: <u>1542 FNL x 1165 FEL SE/PE</u> CONTRACTOR: <u>PXS (TRENNE)</u>		DATE STARTED: <u>3-13-06</u> DATE FINISHED: <u>3-14-06</u>																																																																																								
EXCAVATION APPROX. <u>18</u> FT. x <u>18</u> FT. x <u>12</u> FT. DEEP. CUBIC YARDAGE: <u>120 ±</u> DISPOSAL FACILITY: <u>BP CROUCH MESA L.F.</u> REMEDIATION METHOD: <u>EXCAVATE</u> LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF 078039</u> FORMATION: <u>MV</u>		ENVIRONMENTAL SPECIALIST: <u>JCB</u>																																																																																								
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>180</u> FT. <u>S 76 W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u> NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																																																																										
SOIL AND EXCAVATION DESCRIPTION: <div style="float: right; border: 1px solid black; padding: 5px; margin-top: 10px;"> OVM CALIB. READ = <u>53.8</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>0700</u> am/pm DATE: <u>3/14/06</u> </div>																																																																																										
SOIL TYPE: SAND / <u>SILTY SAND</u> / SILT / <u>SILTY CLAY</u> / CLAY / GRAVEL / OTHER <u>BEDROCK CLAYSTONE @ 12'</u> SOIL COLOR: <u>DARK BROWN</u> COHESION (ALL OTHERS): NON COHESIVE / <u>SLIGHTLY COHESIVE</u> / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE / <u>FIRM</u> / DENSE / VERY DENSE PLASTICITY (CLAYS): NON PLASTIC / <u>SLIGHTLY PLASTIC</u> / 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>GRAY STAIN IN EXCAVATED SOILS</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>MINOR</u> SAMPLE TYPE GRAB / <u>COMPOSITE</u> # OF PTS. <u>5</u> ADDITIONAL COMMENTS: <u>15' x 15' x 3' ± deep unlined pit. USE BACKHOE TO REMOVE IMPACTED SOILS TO Bedrock @ 12'.</u> <u>BEDROCK BOTTOM</u>																																																																																										
FIELD 418.1 CALCULATIONS																																																																																										
SCALE  0 FT ↑ N	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																																																																																	PIT PROFILE 
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P.D = PIT DEPRESSION, B.G. = BELOW GRADE; B = BELOW T.H = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																																																																																										
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>3/13-14/06</u>																																																																																										

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

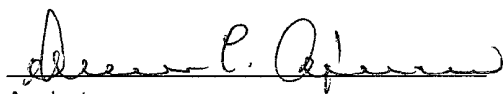
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 12'	Date Reported:	03-15-06
Laboratory Number:	36447	Date Sampled:	03-14-06
Chain of Custody No:	15669	Date Received:	03-14-06
Sample Matrix:	Soil	Date Extracted:	03-14-06
Preservative:	Cool	Date Analyzed:	03-15-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

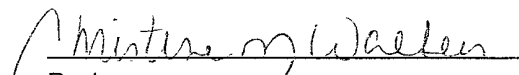
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Barnes B 3.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 12'	Date Reported:	03-15-06
Laboratory Number:	36447	Date Sampled:	03-14-06
Chain of Custody:	15669	Date Received:	03-14-06
Sample Matrix:	Soil	Date Analyzed:	03-15-06
Preservative:	Cool	Date Extracted:	03-14-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.5	1.8
Toluene	14.4	1.7
Ethylbenzene	11.5	1.5
p,m-Xylene	66.6	2.2
o-Xylene	11.3	1.0
Total BTEX	106	


ND - Parameter not detected at the stated detection limit.

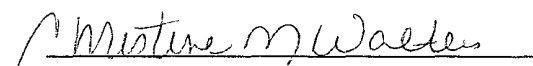
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Barnes B 3.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 12'	Date Reported:	03-15-06
Lab ID#:	36447	Date Sampled:	03-14-06
Sample Matrix:	Soil	Date Received:	03-14-06
Preservative:	Cool	Date Analyzed:	03-15-06
Condition:	Cool and Intact	Chain of Custody:	15669

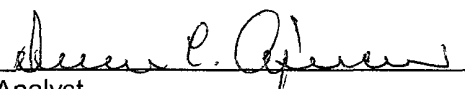
Parameter	Concentration (mg/Kg)
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Total Chloride

2.6

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

Comments: Barnes B 3.


Analyst


Review

15669

san juan reproduction 578-129

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:	03-15-06 QA/QC	Date Reported:	03-15-06
Laboratory Number:	36447	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-15-06
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	9.9552E+002	9.9651E+002	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	9.8954E+002	9.9152E+002	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

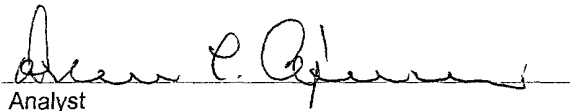
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

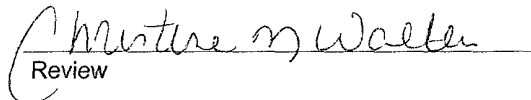
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 36447 - 36452.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-15-BTex QA/QC	Date Reported:	03-15-06
Laboratory Number:	36447	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-15-06
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	6.3274E+007	6.3401E+007	0.2%	ND	0.2
Toluene	7.5435E+007	7.5586E+007	0.2%	ND	0.2
Ethylbenzene	6.1434E+007	6.1557E+007	0.2%	ND	0.2
p,m-Xylene	1.4308E+008	1.4337E+008	0.2%	ND	0.2
o-Xylene	6.9321E+007	6.9460E+007	0.2%	ND	0.1

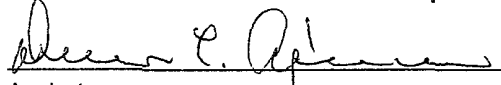
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	2.5	2.5	0.0%	0 - 30%	1.8
Toluene	14.4	14.3	0.7%	0 - 30%	1.7
Ethylbenzene	11.5	11.4	0.9%	0 - 30%	1.5
p,m-Xylene	66.6	66.5	0.2%	0 - 30%	2.2
o-Xylene	11.3	11.2	0.9%	0 - 30%	1.0

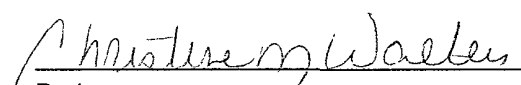
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2.5	50.0	52.4	99.8%	39 - 150
Toluene	14.4	50.0	64.3	99.8%	46 - 148
Ethylbenzene	11.5	50.0	61.4	99.8%	32 - 160
p,m-Xylene	66.6	100	166	99.9%	46 - 148
o-Xylene	11.3	50.0	61.2	99.8%	46 - 148

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 36447 - 36448, 36452.


Analyst


Review