

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: RIDDLE, W. H. #1A API #: 30-045- 22199 U/L or Qtr/Qtr D Sec 24 T 30N R 10W
County: SAN JUAN Latitude 36.80229 Longitude 107.84204 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☐ Production ☐ Disposal ☒ ABANDON III

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type: Synthetic ☐ Thickness _____ mil Clay ☐

Pit Volume _____ bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____

Construction material: N/A

Double-walled, with leak detection? Yes ☐ If not, explain why not. _____

RCVD APR5'07

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)	0
	50 feet or more, but less than 100 feet	(10 points)	
	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)	0
	No	(0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	0
	200 feet or more, but less than 1000 feet	(10 points)	
	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 _____. (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 144 FT. N75W FROM WELL HEAD.

PIT EXCAVATION: WIDTH N/A ft., LENGTH N/A ft., DEPTH N/A ft.

PIT REMEDIATION: CLOSE AS IS: ☒ LANDFARM: ☐ COMPOST: ☐ STOCKPILE: ☐ OTHER ☐ (explain)

Cubic yards: N/A

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: 02/13/06

Printed Name/Title Jeff Blagg - P.E. # 11607

Signature _____

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


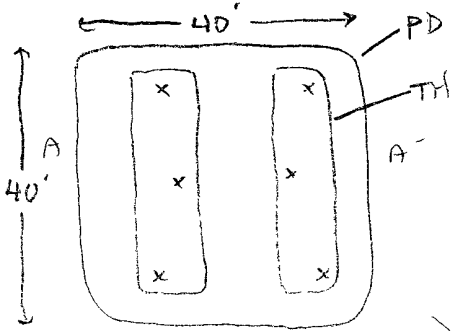
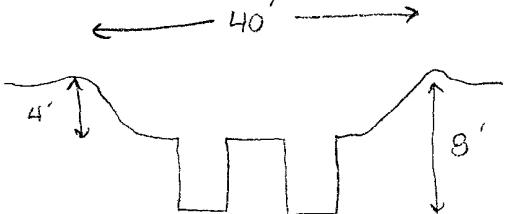
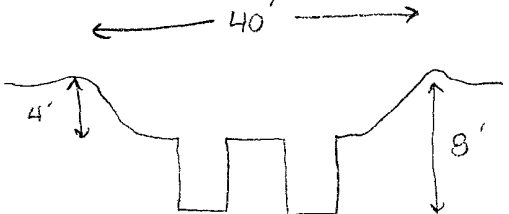
Signature _____

Date: _____

AUG 02 2007

30-045-22199

36.80229 x 107.84204

CLIENT <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO. <u>81745</u> COCR NO. <u>14610</u>																																
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No. <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>RIDDLE, W.H.</u> WELL #: <u>1A</u> TYPE: <u>ABANDON III</u> QUAD/UNIT <u>D</u> SEC: <u>24</u> TWP: <u>30N</u> RING: <u>10W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>925 FNL x 790 FUL</u> ^{NW1/4} CONTRACTOR: <u>PXS (TRENNE)</u>		DATE STARTED: <u>2-10-06</u> DATE FINISHED: <u>2-10-06</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 078200</u> FORMATION: <u>MV</u>																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>144</u> FT <u>NTSW</u> FROM WELLHEAD																																		
DEPTH TO GROUNDWATER <u>>100</u> NEAREST WATER SOURCE: <u>>100</u> NEAREST SURFACE WATER <u>>100</u>																																		
NMOCD RANKING SCORE <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																		
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB READ = <u>53.3</u> ppm OVM CALIB GAS = <u>100</u> ppm RF = 0.52 TIME: <u>0900</u> am/pm DATE: <u>2-10-06</u>																																
SOIL TYPE SAND / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER 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 / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE-GLAYS & SILTS) SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE <u>DRY</u> / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES / <u>NO</u> EXPLANATION - HC ODOR DETECTED YES / <u>NO</u> EXPLANATION - SAMPLE TYPE GRAB / <u>COMPOSITE</u> # OF PTS. <u>6</u> ADDITIONAL COMMENTS: <u>40'x40'x4' Deep Abandon Earth Pit with Vegetation</u> <u>Growing throughout Pit. Use Backhoe to trench across pit & sample.</u> <u>No evidence of contamination.</u>																																		
FIELD 418.1 CALCULATIONS																																		
<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> </tbody> </table>			SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																								
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P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW TH = TEST HOLE, ~ = APPROX., T.B. = TANK BOTTOM																																		
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>2-10-06</u>																																		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

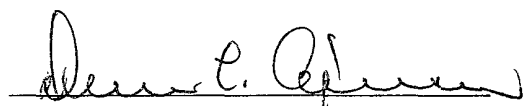
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	6-Point Composite @ 8'	Date Reported:	02-13-06
Laboratory Number:	36213	Date Sampled:	02-10-06
Chain of Custody No:	14610	Date Received:	02-10-06
Sample Matrix:	Soil	Date Extracted:	02-11-06
Preservative:	Cool	Date Analyzed:	02-13-06
Condition:	Cool 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:  S.H. Riddle 1A Abandon Pit III.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	6-Point Composite @ 8'	Date Reported:	02-13-06
Laboratory Number:	36213	Date Sampled:	02-10-06
Chain of Custody:	14610	Date Received:	02-10-06
Sample Matrix:	Soil	Date Analyzed:	02-13-06
Preservative:	Cool	Date Extracted:	02-11-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	9.8	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	66.9	2.2
o-Xylene	28.8	1.0
Total BTEX	106	

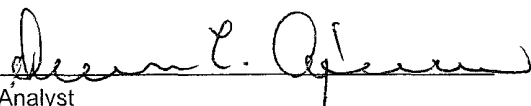
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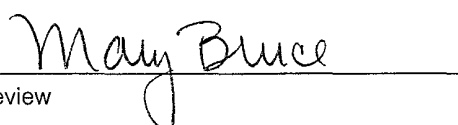
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: W.H. Riddle 1A Abandon Pit III.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	6-Point Composite @ 8'	Date Reported:	02-13-06
Lab ID#:	36213	Date Sampled:	02-10-06
Sample Matrix:	Soil	Date Received:	02-10-06
Preservative:	Cool	Date Analyzed:	02-13-06
Condition:	Cool and Intact	Chain of Custody:	14610

Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride

39.6

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

Comments: W. H. riddle 1A Abandon Pit III.

Mary Bruce
Analyst

Devin C. O'Brien
Review

15344

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:	01-10-06 QA/QC	Date Reported:	01-10-06
Laboratory Number:	35666	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-10-06
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	9.9780E+002	9.9879E+002	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	9.9724E+002	9.9924E+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

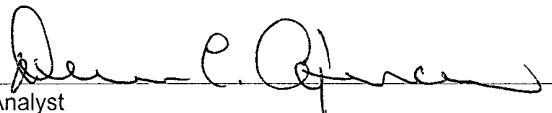
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

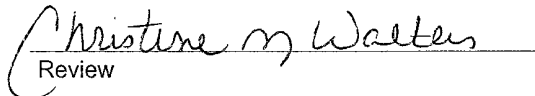
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 35666 - 35671.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-10-BTEX QA/QC	Date Reported:	01-10-06
Laboratory Number:	35670	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-10-06
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	2.0644E+007	2.0685E+007	0.2%	ND	0.2
Toluene	4.9509E+007	4.9608E+007	0.2%	ND	0.2
Ethylbenzene	3.8484E+007	3.8561E+007	0.2%	ND	0.2
p,m-Xylene	8.1873E+007	8.2037E+007	0.2%	ND	0.2
o-Xylene	3.8509E+007	3.8586E+007	0.2%	ND	0.1

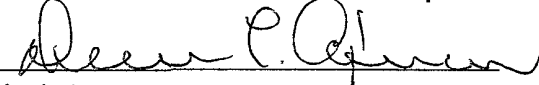
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	11.6	11.5	0.9%	0 - 30%	1.7
Ethylbenzene	2.3	2.2	4.3%	0 - 30%	1.5
p,m-Xylene	9.7	9.6	1.0%	0 - 30%	2.2
o-Xylene	3.3	3.2	3.0%	0 - 30%	1.0

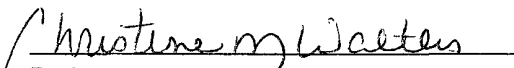
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	11.6	50.0	61.6	100.0%	46 - 148
Ethylbenzene	2.3	50.0	52.2	99.8%	32 - 160
p,m-Xylene	9.7	100	109	99.7%	46 - 148
o-Xylene	3.3	50.0	53.2	99.8%	46 - 148

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 35670 - 35671.


Analyst


Review

14610

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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:	02-13-06 QA/QC	Date Reported:	02-13-06
Laboratory Number:	36207	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-13-06
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	9.9900E+002	1.0000E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	9.9800E+002	1.0000E+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

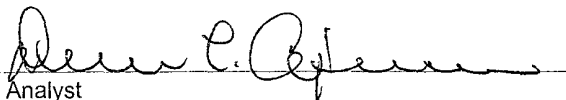
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

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 36207 - 36211, 36213 - 36214.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-13-BTEX QA/QC	Date Reported:	02-13-06
Laboratory Number:	36207	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-13-06
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	6.7185E+006	6.7320E+006	0.2%	ND	0.2
Toluene	1.3558E+007	1.3585E+007	0.2%	ND	0.2
Ethylbenzene	9.9331E+006	9.9530E+006	0.2%	ND	0.2
p,m-Xylene	2.5138E+007	2.5189E+007	0.2%	ND	0.2
o-Xylene	1.3133E+007	1.3159E+007	0.2%	ND	0.1

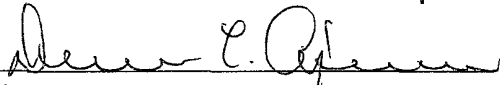
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	50.0	100.0%	32 - 160
p,m-Xylene	ND	100	100	99.5%	46 - 148
o-Xylene	ND	50.0	49.9	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 36207 - 36211, 36213 - 36214.


Analyst


Review