

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 Production Company Telephone: (505)326-9200 e-mail address: _____
Address 200 Energy Ct, Farmington, NM 87401
Facility or well name: GCM # 246 API #: 30045 11688 U/L or Qtr/Qtr G Sec 3S T 28 N R 12 W
County: San Juan Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☒
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank	
Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: <u>MA</u> Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If no, explain why not: _____	
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)
	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)
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)
	1000 feet or more	(0 points)
Ranking Score (Total Points)		10

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 CROWN MESA FACIL. (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:

See Attached Documentation

RCVD JUN13'07
OIL CONS. DIV.
DIST. 3

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 11/01/2005

Printed Name/Title Jeffrey C. Blagg, Agent Signature Jeffrey C. 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 [Signature]

Date: AUG 10 2007

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81116</u> COCR NO: <u>10514</u>
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>GCU</u> WELL #: <u>246</u> TYPE: <u>BLOW</u> QUAD/UNIT: <u>G SEC: 35 TWP: 28N RNG: 12W PM: NM CNTY: SJ ST: NM</u> QTR/FOOTAGE: <u>1850N/1450E</u> SWINE CONTRACTOR: <u>FLINT (BEN)</u>		DATE STARTED <u>12-18-02</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>JCR</u>
EXCAVATION APPROX. <u>27</u> FT. x <u>24</u> FT. x <u>9</u> FT. DEEP. CUBIC YARDAGE: <u>200</u> DISPOSAL FACILITY: <u>BP CLOUGH MESA FACILITY</u> REMEDIATION METHOD: <u>EXCAVATION/LF</u> LAND USE: <u>NAPI FARM</u> <small>NAVAJO SURF. USE</small> LEASE: <u>NM078391C</u> FORMATION: <u>DK</u>		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>310</u> FT. <u>N56°E</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>10</u> NMOC D TPH CLOSURE STD: <u>1000</u> PPM		
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>132.0</u> ppm OVM CALIB. GAS = <u>250</u> ppm RF = 0.52 TIME: <u>0915</u> am/pm DATE: <u>12-20-02</u>
SOIL TYPE: SAND / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: <u>YELLOW TAN</u> COHESION (ALL OTHERS): NON COHESIVE / <u>SLIGHTLY COHESIVE</u> / 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: <u>DRY</u> / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES / <u>NO</u> EXPLANATION - _____ HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>MINOR ON SAMPLE (5) ONLY</u> SAMPLE TYPE: <u>GRAB</u> COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS: _____		

FIELD 418.1 CALCULATIONS							
SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE

0 10 FT

PIT PERIMETER

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 8	1.0
2 @ 8	16.0
3 @ 8	2.0
4 @ 8	3.4
5 @ 12	194

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
(5) @ 12	TPH/BTEX	0910
BOTH PASSED		

PIT PROFILE

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
 T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

TRAVEL NOTES:	CALLOUT: <u>20 DEC 02 0705</u>	ONSITE: <u>20 DEC 02 0830</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

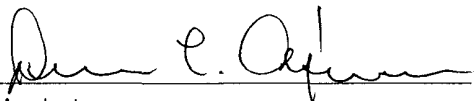
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5 @ 12'	Date Reported:	12-26-02
Laboratory Number:	24479	Date Sampled:	12-20-02
Chain of Custody No:	10514	Date Received:	12-20-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-24-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

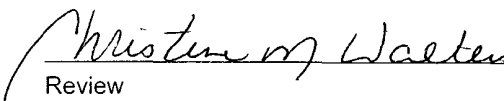
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.3	0.2
Diesel Range (C10 - C28)	131	0.1
Total Petroleum Hydrocarbons	135	0.2

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: **GCU 246 - Blow 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:	5 @ 12'	Date Reported:	12-26-02
Laboratory Number:	24479	Date Sampled:	12-20-02
Chain of Custody:	10514	Date Received:	12-20-02
Sample Matrix:	Soil	Date Analyzed:	12-24-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	19.8	1.7
Ethylbenzene	49.3	1.5
p,m-Xylene	462	2.2
o-Xylene	194	1.0
Total BTEX	725	

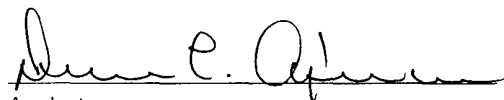
ND - Parameter not detected at the stated detection limit.

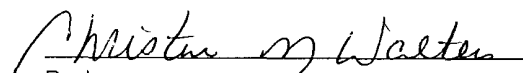
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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: GCU 246 - Blow Pit.


Analyst


Review

1000 Elm Street, El Paso, NM

SANTA FE OFFICE

bei 1202 wdd

Blow Pit Billb

Date Remediation Started: _____ Date Completed: 12-26-02

Remediation Method: Excavation X Approx. cubic yards 915 NA 200
 (Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
 Other CLOSE AS IS. ⁹¹⁵

Remediation Location: Onsite X Offsite X BP CROWN MESA FACILITY. ⁹¹⁵
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. Test hole advanced. No remediation necessary. ⁹¹⁵

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling: Sample location see Attached Documents
 (If multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 12' (Test hole bottom)

Sample date 12-20-02 Sample time 0910

Sample Results

Soll: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>0.725</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>194</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>35</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 12-26-02 PRINTED NAME Jeffrey C. Blagg

SIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

CHAIN OF CUSTODY RECORD

105

Client / Project Name BLAGG/BP			Project Location GCU 246-BLOW PIT		ANALYSIS / PARAMETERS									
Sampler: J.C. Blagg			Client No. 94034-010		No. of Containers TPH 8015 BTEX 8021	1	X	X					Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
(5) @ 12'	12/20/02	0910	24479	SOIL										
Relinquished by: (Signature) J.C. Blagg			Date 12/20/02	Time 1053	Received by: (Signature) [Signature]			Date 12-20-02	Time 1053					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615											Sample Receipt			
												Y	N	N/A
											Received Intact	<input checked="" type="checkbox"/>		
											Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>		

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:	12-24-TPH QA/QC	Date Reported:	12-26-02
Laboratory Number:	24479	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-24-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-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

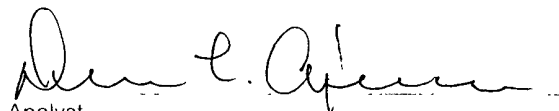
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	4.3	4.3	0.0%	0 - 30%
Diesel Range C10 - C28	131	131	0.0%	0 - 30%

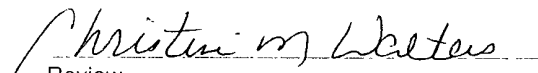
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	4.3	250	253	99.4%	75 - 125%
Diesel Range C10 - C28	131	250	380	99.8%	75 - 125%

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 24479 - 24483.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-24-BTEX QA/QC	Date Reported:	12-26-02
Laboratory Number:	24479	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-24-02
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	2.6914E-002	2.6995E-002	0.3%	ND	0.2
Toluene	3.3709E-002	3.3777E-002	0.2%	ND	0.2
Ethylbenzene	5.8262E-002	5.8438E-002	0.3%	ND	0.2
p,m-Xylene	7.1891E-002	7.2107E-002	0.3%	ND	0.2
o-Xylene	5.4522E-002	5.4631E-002	0.2%	ND	0.1

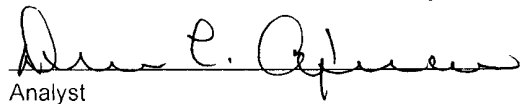
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	19.8	19.4	2.0%	0 - 30%	1.7
Ethylbenzene	49.3	48.3	2.0%	0 - 30%	1.5
p,m-Xylene	462	454	1.7%	0 - 30%	2.2
o-Xylene	194	191	1.7%	0 - 30%	1.0

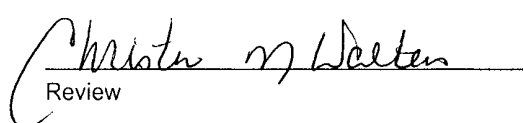
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	19.8	50.0	69.7	99.9%	46 - 148
Ethylbenzene	49.3	50.0	99.2	99.9%	32 - 160
p,m-Xylene	462	100	562	100.0%	46 - 148
o-Xylene	194	50.0	244	100.0%	46 - 148

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 24479 - 24483.


Analyst


Review