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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

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: MUDGE B #10R API #: 30-045- 10921 U/L or Qtr/Qtr G Sec 9 T 31N R 11W
County: SAN JUAN Latitude 36.91489 Longitude 107.99126 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

RCVD APR5'07
OIL CONS. DIV.
DIST. 3

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: N/A
Construction material:
Double-walled, with leak detection? Yes ☐ If not, 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 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	0
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)	0
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) (0 points)	10
	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 your 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 78 FT. S60E FROM WELL HEAD.
PIT EXCAVATION: WIDTH 33 ft., LENGTH 27 ft., DEPTH 21 ft. .
PIT REMEDIATION: CLOSE AS IS: ☐, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☒ EXCAVATE
Cubic yards: 690

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: 02/15/06

PrintedName/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 03 2007

30-045-10921 36.91489 x 107.77166 VHL

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: B1757
COCR NO: 15550

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: MUDGE B WELL #: 10R TYPE: BLOW
QUAD/UNIT: G SEC: 9 TWP: 31N RNG: 11W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1795 FNL x 1470 FEL SWNE CONTRACTOR: HDI (LYNELL)

DATE STARTED: 2-14-06
DATE FINISHED: 2-14-06
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. 33 FT. x 27 FT. x 21± FT. DEEP. CUBIC YARDAGE: 690
DISPOSAL FACILITY: BP CROUCH MESA LF REMEDIATION METHOD: EXCAVATE
LAND USE: RANGE - BLM LEASE: SF-078096 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 78 FT. S60E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: <1000
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

OVM CALIB. READ = 53.8 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 1200 am/pm DATE 2-14-06

SOIL AND EXCAVATION DESCRIPTION:

0'-12' 12'-21'

SOIL TYPE SAND / (SILTY SAND) / SILT / (SILTY CLAY) / CLAY / GRAVEL / OTHER
SOIL COLOR V. Lite Gray / White
COHESION (ALL OTHERS): NON COHESIVE / (SLIGHTLY COHESIVE) / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): (LOOSE / 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 / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: (YES) NO EXPLANATION - DARK Gray in Removed soils, Lite Gray Sidewalls 12'-15'
HC ODOR DETECTED: (YES) NO EXPLANATION - Minor in Composite Sample
SAMPLE TYPE GRAB / (COMPOSITE) # OF PTS. 5
ADDITIONAL COMMENTS: 12'x12'x3' Deep Earthen Pit. Used Backhoe to Remove Impacted Soils

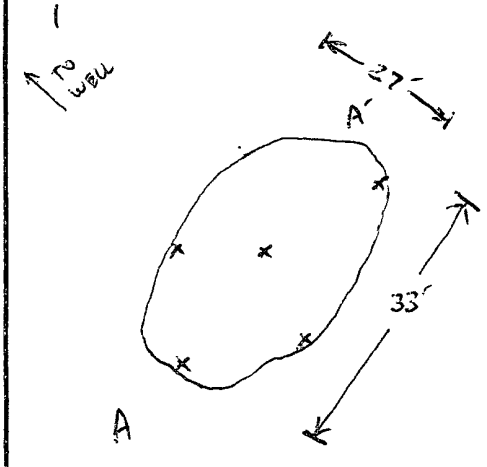
CLOSED

FIELD 418.1 CALCULATIONS

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

SCALE 0 FT

PIT PERIMETER



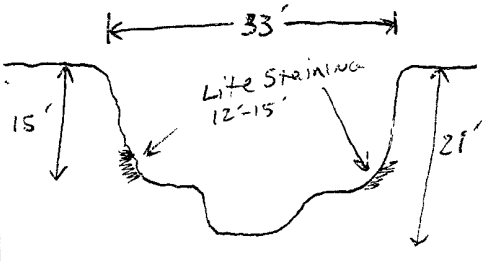
OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
5-POINT Composite	93

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5-POINT	TPH	1145
	BTEX	
	Cl-	
	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: ONSITE: 2/9-10, 14/2006

revised: 09/04/02 bei1005C skf

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	Date Reported:	02-15-06
Laboratory Number:	36229	Date Sampled:	02-14-06
Chain of Custody No:	15550	Date Received:	02-14-06
Sample Matrix:	Soil	Date Extracted:	02-14-06
Preservative:	Cool	Date Analyzed:	02-15-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**6.7**	**0.2**
Diesel Range (C10 - C28)	**2.9**	**0.1**
Total Petroleum Hydrocarbons	**9.6**	**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: **Mudge B 10R Blow Pit.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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	Date Reported:	02-15-06
Laboratory Number:	36229	Date Sampled:	02-14-06
Chain of Custody:	15550	Date Received:	02-14-06
Sample Matrix:	Soil	Date Analyzed:	02-15- 06
Preservative:	Cool	Date Extracted:	02-14-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**1,160**	**1.7**
Ethylbenzene	**363**	**1.5**
p,m-Xylene	**2,460**	**2.2**
o-Xylene	**1,110**	**1.0**
Total BTEX	**5,090**	

ND - Parameter not detected at the stated detection limit.

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: **Mudge B 10R Blow Pit.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite	Date Reported:	02-15-06
Lab ID#:	36229	Date Sampled:	02-14-06
Sample Matrix:	Soil	Date Received:	02-14-06
Preservative:	Cool	Date Analyzed:	02-15-06
Condition:	Cool and Intact	Chain of Custody:	15550

Parameter	Concentration (mg/Kg)
Total Chloride	**2.8**

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

Comments: **Mudge B 10R Blow Pit.**

Analyst

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15550

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/BP	MUDGE B 10R	
Sampler: J. C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Cl⁻				Remarks
5-Point Composite	2-14-06	1145	36229	Soil	1	X	X	X				Blow Pit

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	2/14/06	1441	Mary Bruce	2/14/06	1441
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	✓		
Cool - Ice/Blue Ice	✓		

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:	02-15-06 QA/QC	Date Reported:	02-15-06
Laboratory Number:	36224	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-15-06
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	1.0019E+003	1.0029E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	1.0075E+003	1.0095E+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	**13.0**	**13.1**	**0.8%**	**0 - 30%**
Diesel Range C10 - C28	**20.8**	**20.6**	**1.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**13.0**	**250**	**263**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**20.8**	**250**	**270**	**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 36224 - 36225, 36228 - 36231.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-15-BTEX QA/QC	Date Reported:	02-15-06
Laboratory Number:	36224	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-15-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.4473E+007	2.4522E+007	0.2%	ND	0.2
Toluene	8 4649E+006	8 4818E+006	0.2%	ND	0.2
Ethylbenzene	1.1093E+007	1.1115E+007	0.2%	ND	0.2
p,m-Xylene	2 8891E+007	2.8949E+007	0.2%	ND	0.2
o-Xylene	1.1900E+007	1 1924E+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	157	156	0.1%	0 - 30%	1.7
Ethylbenzene	177	176	0.5%	0 - 30%	1.5
p,m-Xylene	1,300	1,290	0.8%	0 - 30%	2.2
o-Xylene	678	677	0.1%	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	157	50.0	206	99.8%	46 - 148
Ethylbenzene	177	50.0	226	99.6%	32 - 160
p,m-Xylene	1,300	100	1,390	99.3%	46 - 148
o-Xylene	678	50.0	727	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 36224 - 36225, 36228 - 36231.**

Analyst

Review

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