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 LS #24** API #: **30-045- 11187** U/L or Qtr/Qtr **A** Sec **33** T **32N** R **11W**
County: **SAN JUAN** Latitude **36.94635** Longitude **107.98855** NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

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

Pit	**Below-grade tank**		
Type: Drilling ☐ Production ☒ Disposal ☐ SEPARATOR Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ STEEL TANK Liner type: Synthetic ☐ Thickness _____mil Clay ☐ Pit Volume _____bbl	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_____. (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 **93** FT. **N87E** 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
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: **09/1/06**

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

30-045-11187 36.94655 x 107.98855 NAD27

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

CLIENT: BP

LOCATION NO: B1793
COCR NO: 1379

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: MUDGE LS WELL #: 24 TYPE: SEP
QUAD/UNIT A SEC: 33 TWP: 32N RNG: 11W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 790 FNL x 790 FEL NE/NE CONTRACTOR: L+L

DATE STARTED: 8-25-06
DATE FINISHED: 8-25-06
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: 0

DISPOSAL FACILITY: NA REMEDIATION METHOD: CLOSE AS IS

LAND USE: RANGE - BLM LEASE: SF-078051 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 93 FT. N87E 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 = 53.9 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 1015 (am)/pm DATE 8/25

SOIL AND EXCAVATION DESCRIPTION:

0'-7'

SOIL TYPE. SAND / (SILTY SAND / SILT / SILTY CLAY) / CLAY / GRAVEL / (OTHER) CLAYSTONE @ 7'
SOIL COLOR. LIGHT TAN
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 - MINOR @ 6'-8'
HC ODOR DETECTED: (YES) / NO EXPLANATION - MINOR @ 6'-8'
SAMPLE TYPE (GRAB) / COMPOSITE - # OF PTS. —
ADDITIONAL COMMENTS. 6'x6'x6' DEEP WOOD LINED CELLAR W/ 21 BBL STEEL TANK, USE BACKHOE TO PULL TANK & REACH INTO CELLAR FOR SAMPLE

CLOSED

BEDROCK BOTTOM

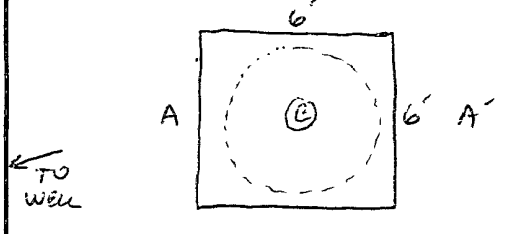
FIELD 418.1 CALCULATIONS

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

SCALE
0 FT

N

PIT PERIMETER



OVM READING

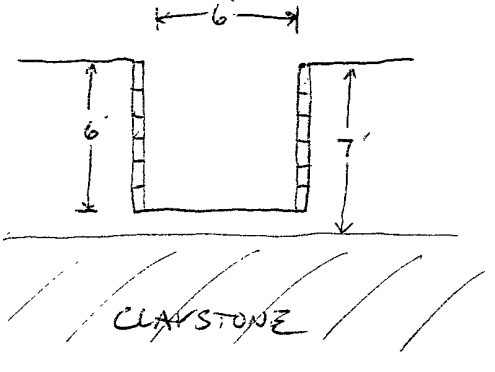
SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
C @ 9'	3.6

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
C @ 9'	T/B/CL	1005
	PASSED	

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

PIT PROFILE



TRAVEL NOTES. CALLOUT: ONSITE: 8/25/06

revised. 09/04/02

bel1005C.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:	C @ 9'	Date Reported:	08-28-06
Laboratory Number:	38295	Date Sampled:	08-25-06
Chain of Custody No:	1379	Date Received:	08-25-06
Sample Matrix:	Soil	Date Extracted:	08-25-06
Preservative:	Cool	Date Analyzed:	08-28-06
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: **Mudge LS 24 Sep Pit**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 9'	Date Reported:	08-28-06
Laboratory Number:	38295	Date Sampled:	08-25-06
Chain of Custody:	1379	Date Received:	08-25-06
Sample Matrix:	Soil	Date Analyzed:	08-28-06
Preservative:	Cool	Date Extracted:	08-25-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**24.5**	**1.7**
Ethylbenzene	**4.4**	**1.5**
p,m-Xylene	**14.7**	**2.2**
o-Xylene	**2.7**	**1.0**
Total BTEX	**46.3**	

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 LS 24 Sep Pit**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 9'	Date Reported:	08-28-06
Lab ID#:	38295	Date Sampled:	08-25-06
Sample Matrix:	Soil	Date Received:	08-25-06
Preservative:	Cool	Date Analyzed:	08-28-06
Condition:	Cool and Intact	Chain of Custody:	1379

Parameter	Concentration (mg/Kg)
Total Chloride	**68.0**

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

Comments: **Mudge LS 24 Sep Pit**

Christine M Walters
Analyst

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CHAIN OF CUSTODY RECORD

1379

Client / Project Name	Project Location
BLAGG/BP	MUDGE LS 24

Sampler:	Client No.
J. C. Blagg	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Cl⁻				Remarks
C @ 9'	8/25/00	1005	38295	Soil	1	X	X	X				SEP PIT

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	8/25/00	1300	[signature]	8/25/00	1300
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:	08-28-TPH QA/QC	Date Reported:	08-28-06
Laboratory Number:	38287	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-28-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	08-28-06	1.5131E-002	1.5116E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	08-28-06	1.5356E-002	1.5340E-002	**0.10%**	**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 38287 - 38288, 38291, 38294 - 38297.**

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:	08-28-BTEX QA/QC	Date Reported:	08-28-06
Laboratory Number:	38287	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative.	N/A	Date Analyzed:	08-28-06
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	5.5347E+007	5.5458E+007	0.2%	ND	0.2
Toluene	9.6029E+007	9 6222E+007	0.2%	ND	0.2
Ethylbenzene	4 2697E+007	4 2783E+007	0.2%	ND	0.2
p,m-Xylene	1 6909E+008	1.6942E+008	0.2%	ND	0.2
o-Xylene	9 3380E+007	9.3567E+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	11.8	11.7	0.8%	0 - 30%	1.7
Ethylbenzene	18.6	18.4	1.1%	0 - 30%	1.5
p,m-Xylene	56.6	56.4	0.4%	0 - 30%	2.2
o-Xylene	13.1	13.0	0.8%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100.0%	39 - 150
Toluene	11.8	50.0	61.7	99.8%	46 - 148
Ethylbenzene	18.6	50.0	68.5	99.9%	32 - 160
p,m-Xylene	56.6	100	156	99.9%	46 - 148
o-Xylene	13.1	50.0	63.0	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 38287 - 38288, 38291, 38295 - 38297**

Analyst

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