

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

RCVD OCT2506

OIL CONS. DIV.
DIST. B

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 Production Company Telephone: (505)326-9200 e-mail address: _____
Address: 200 Energy Ct, Farmington, NM 87401
Facility or well name: MUDGE C #1E API #: 3004524719 U/L or Qtr/Qtr D Sec 9 T 31N R 11W
County: San Juan Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☒
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☐ Production ☒ Disposal ☐
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.

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)

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	(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)
1000 feet or more	(0 points)

0

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:

See Attached Documentation

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.

Seal:

Printed Name/Title

DEPUTY OIL & GAS INSPECTOR, DIST. B

Signature

Brandon Powell

Date:

OCT 25 2006

3004524719

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80883</u> C.D.C. NO: <u>9406</u>
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FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: <u>MUDGE</u> C WELL #: <u>1E</u> PIT: <u>SEP/PROD.</u>	DATE STARTED: <u>8/6/01</u>
QUAD/UNIT: <u>D</u> SEC: <u>9</u> TWP: <u>31N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FDDTAGE: <u>815N/740W</u> NW/4W CONTRACTOR: <u>FLINT</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>31</u> FT. x <u>28</u> FT. x <u>8</u> FT. DEEP. CUBIC YARDAGE: <u>225</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>STOCKPILED</u>
LAND USE: <u>RANGE-BLM</u> LEASE: <u>SF 078096</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>110</u> FT. N74E 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>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ: 52.7 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 4:10 am/PM DATE: 8/1/01

CHECK ONE

- ☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK (SHALE)
SOIL COLOR: MED. GRAY TO BLACK BEDROCK @ PIT BOTTOM - LT. TO MED. GRAY
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 - BOTTOM 3-4' OF EXCAVATION PERIMETER EXCEPT WEST SIDE - ALL
HC ODOR DETECTED: YES / NO EXPLANATION - IN DISCLOSED SOIL
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. _____
ADDITIONAL COMMENTS: BEDROCK SANDSTONE BET. 3'-7' BELOW GRADE (B.G.) SOFT TO DENSE, FRAGILE
SHALE @ BOTTOM HARD, FRAGILE.

FIELD 418.1 CALCULATIONS

SCALE

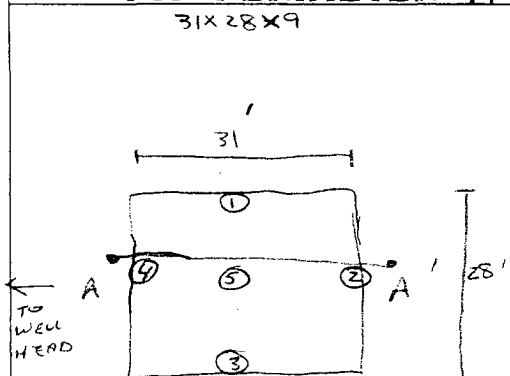


0 FT

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

PIT PERIMETER

31x28x9



OVM RESULTS

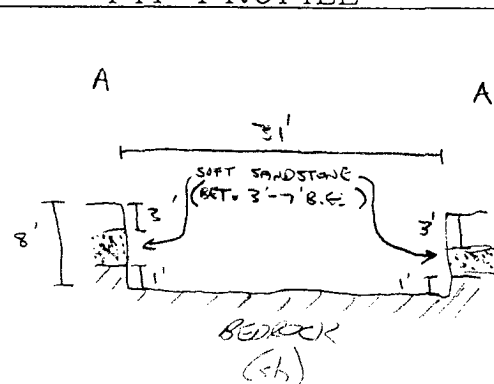
SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	0.0
2 @ 4'	0.0
3 @ 4'	220.9
4 @ 4'	401
5 @ 8'	420

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 @ 8'	TPH (8015)	1420
"	GREX (8021)	"

(BOTH PASSED)

PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: 8/3/01 8/6/01

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

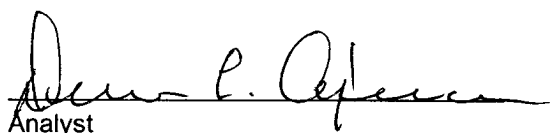
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5 @ 8'	Date Reported:	08-09-01
Laboratory Number:	20564	Date Sampled:	08-06-01
Chain of Custody No:	9406	Date Received:	08-07-01
Sample Matrix:	Soil	Date Extracted:	08-08-01
Preservative:	Cool	Date Analyzed:	08-09-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

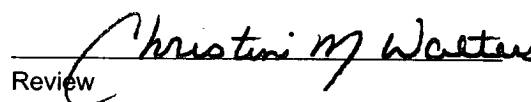
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	123	0.2
Diesel Range (C10 - C28)	9.5	0.1
Total Petroleum Hydrocarbons	133	0.2

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 C #1E Separator / Production Tank Pit Grab Sample.**


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 @ 8'	Date Reported:	08-09-01
Laboratory Number:	20564	Date Sampled:	08-06-01
Chain of Custody:	9406	Date Received:	08-07-01
Sample Matrix:	Soil	Date Analyzed:	08-09-01
Preservative:	Cool	Date Extracted:	08-08-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	49.8	1.8
Toluene	60.2	1.7
Ethylbenzene	216	1.5
p,m-Xylene	683	2.2
o-Xylene	757	1.0
Total BTEX	1,770	

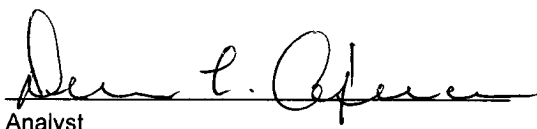
ND - Parameter not detected at the stated detection limit.

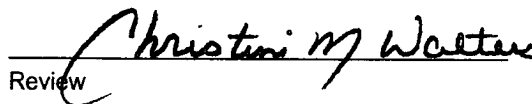
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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 C #1E Separator / Production Tank Pit Grab Sample.


Analyst


Review

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>30883</u> C.O.C. NO: <u>10878</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>MUDGE C</u> WELL #: <u>1E</u> PITS: <u>SEP/PROD.</u> QUAD/UNIT: <u>D</u> SEC: <u>9</u> TWP: <u>31N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>ST</u> STNM QTR/FOOTAGE: <u>NW/4</u> CONTRACTOR:	DATE STARTED: <u>5/27/03</u> DATE FINISHED:
ENVIRONMENTAL SPECIALIST: <u>NV</u>	

SOIL REMEDIATION: REMEDIATION SYSTEM: <u>STOCKPILE</u> LAND USE: <u>RANGE - BLM</u>	APPROX. CUBIC YARDAGE: <u>225</u> LIFT DEPTH (ft): <u>N/A</u>
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FIELD NOTES & REMARKS:	NMCD RANKING SCORE: <u>0</u> NMCD TPH CLOSURE STD: <u>5000</u> PPM DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
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SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____

SOIL COLOR: VERY PALE ORANGE TO BLACK

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 CLOSED

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION: OK. GRAY TO BLACK IN SAMPLE PTS. ①, ②, & ⑤

HC ODR DETECTED: YES / NO EXPLANATION: SAMPLE PTS. ①, ②, & ⑤ + QUM SAMPLE.

SAMPLING DEPTHS (LANDFARMS): N/A (INCHES)

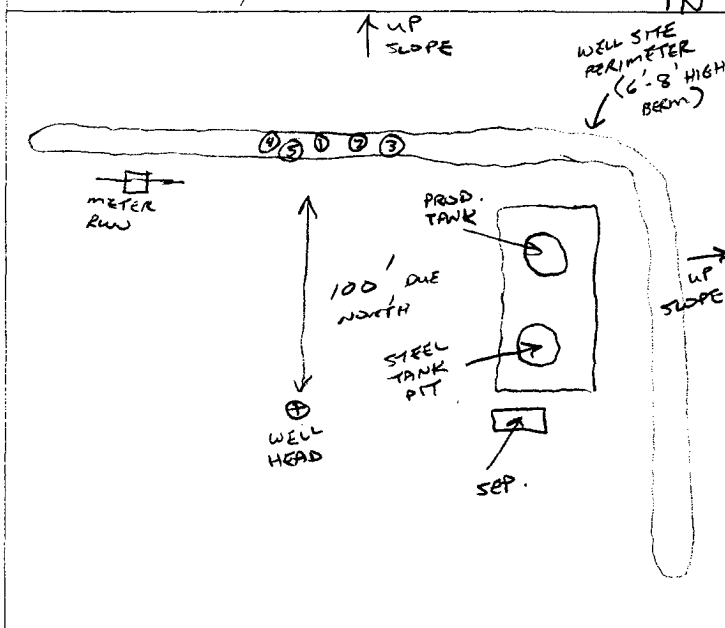
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 5

ADDITIONAL COMMENTS: UNCERTAIN HOW MUCH OF ORIGINAL STOCKPILE (BY RECOLLECTION) - WHERE SAMPLE PTS. ARE LOCATED WAS SPREAD OUT OVER WELL SITE PERIMETER BERM (SEE SKETCH).

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



DVM CALIB. READ. <u>53.8</u> ppm
DVM CALIB. GAS = 100 ppm; RF = 0.52
TIME: <u>10:10</u> AM/PM DATE: <u>5/27/03</u>

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS (ppm)
SP-1	129.5	SP-1	TPH (80158)	1205	62.1
		"	BENZ.	"	0.041
		"	TOT. BTEX	"	1.000

SCALE



0 FT

TRAVEL NOTES: CALLOUT: <u>N/A</u>	ONSITE: <u>5/27/03</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

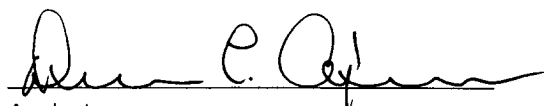
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	SP - 1	Date Reported:	05-29-03
Laboratory Number:	25746	Date Sampled:	05-27-03
Chain of Custody No:	10878	Date Received:	05-27-03
Sample Matrix:	Soil	Date Extracted:	05-28-03
Preservative:	Cool	Date Analyzed:	05-28-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

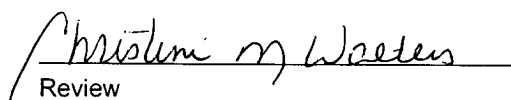
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	31.3	0.2
Diesel Range (C10 - C28)	30.8	0.1
Total Petroleum Hydrocarbons	62.1	0.2

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 C #1E Stockpile 5 Pt. Composite.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	SP - 1	Date Reported:	05-28-03
Laboratory Number:	25746	Date Sampled:	05-27-03
Chain of Custody:	10878	Date Received:	05-27-03
Sample Matrix:	Soil	Date Analyzed:	05-28-03
Preservative:	Cool	Date Extracted:	05-28-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	41.0	1.8
Toluene	182	1.7
Ethylbenzene	128	1.5
p,m-Xylene	407	2.2
o-Xylene	244	1.0
Total BTEX	1,000	

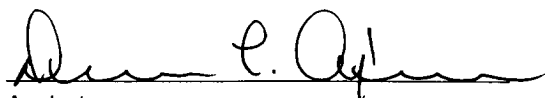
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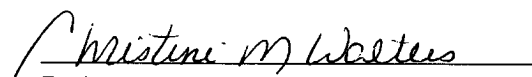
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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 C #1E Stockpile 5 Pt. Composite.


Analyst


Review