

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: GCW # 221 API #: 3004511649 U/L or Qtr/Qtr 6 Sec 31 T 29 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: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____	RCVD NOV 17 '06 OIL CONS. DIV.
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)	DIST. 3 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.

roval:

**DEPUTY OIL & GAS INSPECTOR, DIST. #1**

Printed Name/Title \_\_\_\_\_

Signature [Signature]

Date: NOV 17 2006

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80150</u> C.O.C. NO: <u>10092</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>GCU</u> WELL #: <u>221</u> TYPE: <u>SEP.</u> QUAD/UNIT: <u>G</u> SEC: <u>31</u> TWP: <u>29N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>2445'N/1690'E</u> SWINE CONTRACTOR: <u>FUNT (BEN)</u>	DATE STARTED: <u>8/26/02</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NU</u>
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EXCAVATION APPROX. <u>25</u> FT. x <u>15</u> FT. x <u>7</u> FT. DEEP. CUBIC YARDAGE: <u>100</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE-BLM</u> LEASE: <u>NM 078391C</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>168</u> FT. <u>SITE</u> FROM WELLHEAD
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>
NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM

SOIL AND EXCAVATION DESCRIPTION: SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u> SOIL COLOR: <u>LT. GRAY TO BLACK</u> BEDROCK: <u>LT. GRAY</u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / FIRM / DENSE / VERY DENSE PLASTICITY (CLAYS): <u>NON PLASTIC</u> / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): <u>SOFT</u> / FIRM / STIFF / VERY STIFF / HARD MOISTURE: <u>DRY</u> / SLIGHTLY MOIST / MOIST / WET / <u>SATURATED</u> / <u>SUPER SATURATED</u> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">CLOSED</span> DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - <u>ENTIRE PIT AREA</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>ENTIRE PIT EXCAVATION</u> SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. <u>1</u> ADDITIONAL COMMENTS: <u>COLLECTED SAMPLE FROM BEDROCK SURFACE. BEDROCK - HARD, FRIABLE.</u> <div style="border: 1px solid black; padding: 2px; display: inline-block;">BEDROCK BOTTOM</div>	OVM CALIB. READ: <u>52.8</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = <u>0.52</u> TIME: <u>8:57</u> am/pm DATE: <u>8/26/02</u>
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FIELD 418.1 CALCULATIONS							
SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

0 FT

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 7'	571
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
1 @ 7'	TPH (8015B)	0930
"	BTEX (8021B)	"

BOTH PASSES

PIT PROFILE

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

TRAVEL NOTES: CALLOUT: 8/26/02-MORN. ONSITE: 8/26/02-MORN.

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

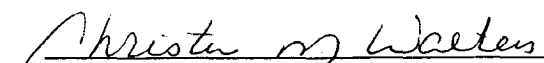
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 7'	Date Reported:	08-29-02
Laboratory Number:	23647	Date Sampled:	08-26-02
Chain of Custody No:	10092	Date Received:	08-26-02
Sample Matrix:	Soil	Date Extracted:	08-26-02
Preservative:	Cool	Date Analyzed:	08-28-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

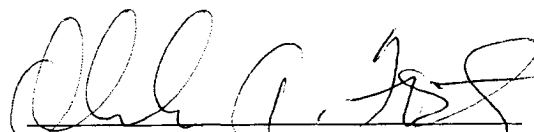
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.0	0.2
Diesel Range (C10 - C28)	3.3	0.1
Total Petroleum Hydrocarbons	7.3	0.2

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 #221 Separator 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:	1 @ 7'	Date Reported:	08-29-02
Laboratory Number:	23647	Date Sampled:	08-26-02
Chain of Custody:	10092	Date Received:	08-26-02
Sample Matrix:	Soil	Date Analyzed:	08-28-02
Preservative:	Cool	Date Extracted:	08-26-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	134	1.8
Toluene	728	1.7
Ethylbenzene	519	1.5
p,m-Xylene	1,580	2.2
o-Xylene	850	1.0
Total BTEX	3,810	

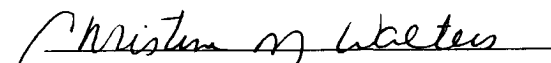
ND - Parameter not detected at the stated detection limit.

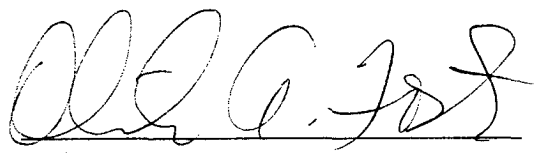
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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 #221 Separator Pit Grab Sample.

  
Analyst

  
Review

CLIENT: BPBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: 81050C.O.C. NO: 11644

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: GCH WELL #: ZZ(-) PITS: SEP.  
QUAD/UNIT: G SEC: 31 TWP: 29N RNG: 12W PM: NM CNTY: ST ST: NM  
QTR/FOOTAGE: 3WNE CONTRACTOR: FLINT (BEN)DATE STARTED 1/13/04  
DATE FINISHED: \_\_\_\_\_ENVIRONMENTAL  
SPECIALIST: NV

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 60LAND USE: RANGELIFT DEPTH (ft): 2-3

## FIELD NOTES &amp; REMARKS:

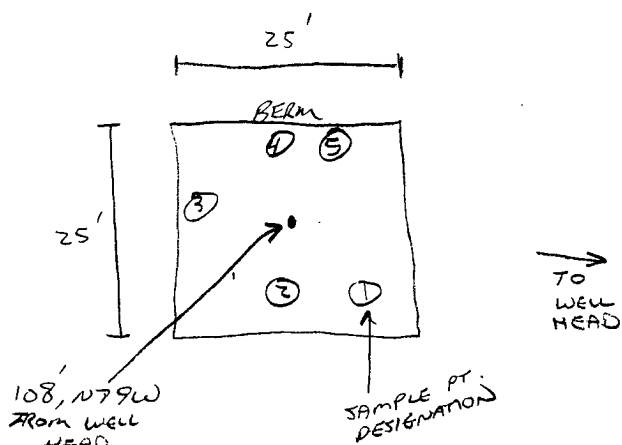
NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 ppmDEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'SOIL TYPE: (SAND) / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER \_\_\_\_\_SOIL COLOR: MOD. BROWN TO DK. GRAYCOHESION (ALL OTHERS): (NON COHESIVE) / (SLIGHTLY COHESIVE) / COHESIVE / HIGHLY COHESIVECONSISTENCY (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 / HARDMOISTURE: DRY / SLIGHTLY MOIST / (MOIST) / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - ALL SAMPLE PTS.HC ODOR DETECTED: (YES) / NO EXPLANATION - ALL SAMPLE PTS.SAMPLING DEPTHS (LANDFARMS): 12-24 (INCHES)SAMPLE TYPE: GRAB / (COMPOSITE) - # OF PTS: 5

ADDITIONAL COMMENTS: \_\_\_\_\_

## FIELD 418.1 CALCULATIONS

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

## SKETCH/SAMPLE LOCATIONS

OVM CALIB. READ. 53.0 ppm  
OVM CALIB. GAS = 100 ppm; RF = 0.52  
TIME: 12:30 am/pm DATE: 1/6/04

## OVM RESULTS

## LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS ppm
LF-1	194.2	LF-1	TPH (80158)	0840	113
		"	BENZENE	"	0.0037
		"	TOT. BTX	"	1.660

P.C. - 8/26/02

## SCALE

0 1 FT

TRAVEL NOTES: CALLOUT: N/AONSITE: 1/13/04

# 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:	LF-1	Date Reported:	01-15-04
Laboratory Number:	27530	Date Sampled:	01-13-04
Chain of Custody No:	11644	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-14-04
Preservative:	Cool	Date Analyzed:	01-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

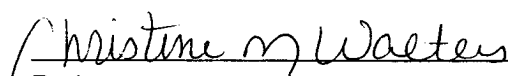
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	112	0.2
Diesel Range (C10 - C28)	0.8	0.1
Total Petroleum Hydrocarbons	113	0.2

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 #221 Landfarm 5 Pt. Composite 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:	LF - 1	Date Reported:	01-15-04
Laboratory Number:	27530	Date Sampled:	01-13-04
Chain of Custody:	11644	Date Received:	01-14-04
Sample Matrix:	Soil	Date Analyzed:	01-15-04
Preservative:	Cool	Date Extracted:	01-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3.7	1.8
Toluene	179	1.7
Ethylbenzene	272	1.5
p,m-Xylene	820	2.2
o-Xylene	387	1.0
<b>Total BTEX</b>	<b>1,660</b>	

ND - Parameter not detected at the stated detection limit.

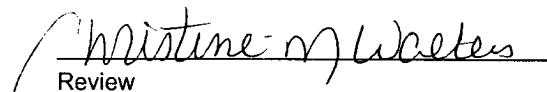
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

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 #221 Landfarm 5 Pt. Composite Sample.

  
Analyst

  
Review