

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

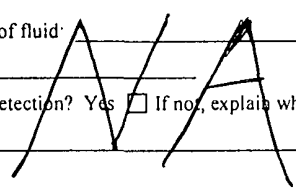
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 ☒

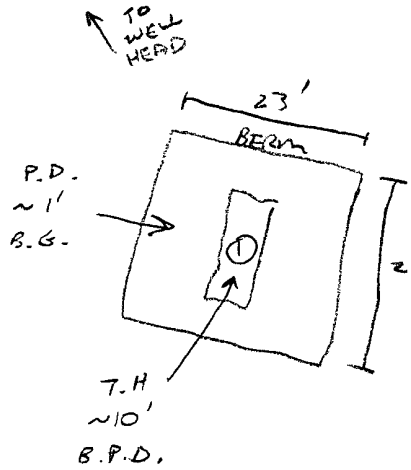
Operator <u>BP America Production Company</u> Telephone: <u>(505)326-9200</u> e-mail address: _____		
Address <u>200 Energy Ct, Farmington, NM 87401</u>		
Facility or well name: <u>GEU # 244E</u> API #: <u>30045 26291</u> U/L or Qtr/Qtr <u>M</u> Sec <u>36</u> T <u>28</u> R <u>12</u> W		
County <u>San Juan</u> 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 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 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	RCVD JUN13'07
See Attached Documentation	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 <u>11/01/2005</u>	
Printed Name/Title <u>Jeffrey C. Blagg, Agent</u>	Signature <u>Jeffrey C. Blagg</u>
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 <u>Deputy Oil & Gas Inspector,</u>	Signature <u>[Signature]</u>
<u>District #3</u>	Date: <u>AUG 10 2007</u>

CLIENT <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>81230</u> COCR NO: <u>10884</u>																																																																					
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																																																					
LOCATION: NAME: <u>GCU</u> WELL#: <u>244E</u> TYPE: <u>BLOW</u> QUAD/UNIT: <u>M</u> SEC: <u>36</u> TWP: <u>28N</u> RNG: <u>RW</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>900'S/800'W</u> SW/SW CONTRACTOR: <u>FLINT (BEN)</u>		DATE STARTED <u>6/4/03</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																																																																					
EXCAVATION APPROX. <u>21</u> FT. x <u>20</u> FT. x <u>10</u> FT. DEEP. CUBIC YARDAGE: <u>150</u>																																																																							
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																																																																							
LAND USE: <u>RANGE - NAPI</u> LEASE: <u>NAVATO</u> FORMATION: <u>DK</u>																																																																							
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>111</u> FT. <u>S26E</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>53.8</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>8:12</u> am/pm DATE <u>6/3/03</u>																																																																					
SOIL TYPE <u>SAND</u> SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR <u>DK. YELL. ORANGE</u> LT. GRAY (TEST HOLE BOTTOM) <u>BLACK</u> (JUST BELOW PIT DEPRESSION) COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> <u>FIRM</u> 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 / <u>SLIGHTLY MOIST</u> / MOIST / <u>WET</u> / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION: <u>BLACK TO LT. GRAY (2'-11' BELOW GRADE)</u> HC ODOR DETECTED <u>YES</u> / NO EXPLANATION: <u>EXCAVATED SOIL & OVM SAMPLE</u> SAMPLE TYPE <u>GRAB</u> / COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS <u>SOIL WET JUST BELOW PIT DEPRESSION BET. 2'-5' BELOW GRADE (BLACK)</u> <u>NEED TO ESTABLISH VERTICAL EXTENT.</u>																																																																							
SCALE  0 FT FIELD 418.1 CALCULATIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> PIT PERIMETER  OVM READING <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 11'</td><td>809</td></tr> <tr><td>2 @</td><td> </td></tr> <tr><td>3 @</td><td> </td></tr> <tr><td>4 @</td><td> </td></tr> <tr><td>5 @</td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> LAB SAMPLES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>1 @ 11'</td><td>TPH (80156)</td><td>1442</td></tr> <tr><td>"</td><td>BTEX (80202)</td><td>"</td></tr> <tr><td colspan="3" style="text-align: center;">TPH - FAILED</td></tr> <tr><td colspan="3" style="text-align: center;">BTEX - PASSED</td></tr> </tbody> </table> PIT PROFILE NOT APPLICABLE			SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC (ppm)																									SAMPLE ID	FIELD HEADSPACE (ppm)	1 @ 11'	809	2 @		3 @		4 @		5 @												SAMPLE ID	ANALYSIS	TIME	1 @ 11'	TPH (80156)	1442	"	BTEX (80202)	"	TPH - FAILED			BTEX - PASSED		
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TRAVEL NOTES: CALLOUT: <u>6/4/03 - MORN.</u> ONSITE: <u>6/4/03 - AFTER.</u>																																																																							

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

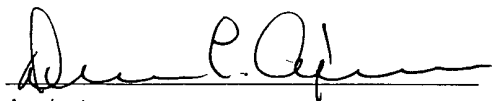
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 11'	Date Reported:	06-05-03
Laboratory Number:	25809	Date Sampled:	06-04-03
Chain of Custody No:	10884	Date Received:	06-05-03
Sample Matrix:	Soil	Date Extracted:	06-05-03
Preservative:	Cool	Date Analyzed:	06-05-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

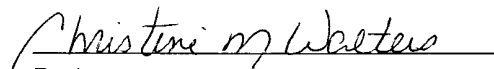
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,640	0.2
Diesel Range (C10 - C28)	2,240	0.1
Total Petroleum Hydrocarbons	3,880	0.2

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 #244E Blow 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 @ 11'	Date Reported:	06-05-03
Laboratory Number:	25809	Date Sampled:	06-04-03
Chain of Custody:	10884	Date Received:	06-05-03
Sample Matrix:	Soil	Date Analyzed:	06-05-03
Preservative:	Cool	Date Extracted:	06-05-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	74.7	1.8
Toluene	1,570	1.7
Ethylbenzene	734	1.5
p,m-Xylene	1,670	2.2
o-Xylene	907	1.0
Total BTEX	4,960	

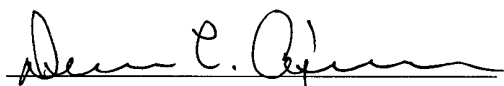
ND - Parameter not detected at the stated detection limit.

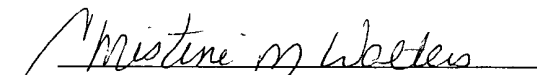
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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: GCU #244E Blow Pit Grab Sample.


Analyst


Review

BLAGG ENGINEERING, Inc.

P.O. BOX 87

BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

BP AMERICA PRODUCTION CO.

LOCATION NAME:

GCU # 244E BLOW PIT UNIT M, SEC. 36, T28N, R12W

CONTRACTOR:

BLAGG ENGINEERING, INC. / ENVIROTECH, INC.

EQUIPMENT USED:

MOBILE DRILL RIG (CME 75)

BORING LOCATION:

111 FEET, S26E FROM WELL HEAD.

BORING #..... BH1

MW #..... NA

PAGE #..... 1

DATE STARTED 03/12/07

DATE FINISHED 03/12/07

OPERATOR..... DP

PREPARED BY NJV

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	VENT SCHEMATIC	OVM READING (ppm)	FIELD CLASSIFICATION AND REMARKS
					GROUND SURFACE
					TOP OF CASING APPROX. 5.00 FEET ABOVE GRADE.
2					
4					
6					
8					
10			TOS 9.50 ft		DARK YELLOWISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 11.0 FT. BELOW GRADE).
12					
14					
16					
18					
20					MODERATE BROWN TO MEDIUM DARK GRAY SAND (INTERMIXED), NON COHESIVE, SLIGHTLY MOIST, FIRM, STRONG APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (11.0 - 22.0 FT. BELOW GRADE).
22				265	BH1 @ 20-22 FT. TIME: 0945 BLOW COUNT = 26 PER 2 FEET COLLECTED WITH SPLIT SPOON SAMPLER.
24			TD 24.50 ft		PALE YELLOWISH TO MODERATE BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (22.0 - 25.0 FT. BELOW GRADE).
26				8.6	BH1 @ 25-27 FT TIME: 1000 BLOW COUNT = 18 PER 2 FEET COLLECTED WITH SPLIT SPOON SAMPLER. TPH = 210 ppm, BENZENE = ND, TOTAL BTEX = ND, CHLORIDE = 89 ppm.
28					
30					
32					
34					
36					
38					
40					

NOTES:

-  - SAND.
- OVM** - Organic Vapor Meter or Photo-ionization Detector (PID).
- TPH** - Total Petroleum Hydrocarbons EPA Method 8015B.
- BTEX** - Benzene, Toluene, Ethylbenzene, & total Xylenes.
- ND** - Not detected at the Reporting Limit.
- ppm** - Parts per million (unit value).
- TOS** - Top of screen of monitor well.
- TD** - Total depth/bottom extent of monitor well.

OVM CALIBRATION = 51.4 ppm
with 100 ppm Isobutylene gas &
response factor set @ 0.52,
DATE - 03/12/07, TIME - 1005.

Passive vent consist of 2 inch PVC piping - casing from 5.00 ft. above grade to 9.50 ft. below grade, 0.010 slotted screen between 9.50 to 24.50 ft. below grade, sand packed annular to 8.0 ft. below grade, bentonite grout between 5.0 to 8.0 ft. below grade, fill dirt from 0.0 to 3.0 ft. below grade, bentonite grout to grade. Installed wind turbine to top of casing.

DRAWING: GCU 244E BH1.SKf DATE 03/27/07 DWN BY NJV

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Mar-07

CLIENT: Blagg Engineering
Lab Order: 0703200
Project: GCU #244E
Lab ID: 0703200-01

Client Sample ID: BH1 @ 25'-27' Blow Pit
Collection Date: 3/12/2007 10:00:00 AM
Date Received: 3/15/2007
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	210	10		mg/Kg	1	3/22/2007 7:56:09 AM
Surr: DNOP	115	61.7-135		%REC	1	3/22/2007 7:56:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/16/2007 1:53:20 PM
Surr: BFB	106	84-138		%REC	1	3/16/2007 1:53:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	3/16/2007 1:53:20 PM
Toluene	ND	0.050		mg/Kg	1	3/16/2007 1:53:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/16/2007 1:53:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/16/2007 1:53:20 PM
Surr: 4-Bromofluorobenzene	86.4	68.2-109		%REC	1	3/16/2007 1:53:20 PM
EPA METHOD 9056A: ANIONS						Analyst: TES
Chloride	89	3.0		mg/Kg	10	3/23/2007 2:02:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:

BP

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

LOCATION NO: B1230

C.O.C. NO: 13888

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: GCN WELL #: 244E PITS: BLOW
QUAD/UNIT: M SEC: 36 TWP: 28N RNG: 12W PM: NM CNTY: ST ST: NM
QTR/FOOTAGE: SW/50 CONTRACTOR: _____

DATE STARTED: 7/20/05
DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: NV

SOIL REMEDIATION:REMEDIALATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: _____

LAND USE: RANGE

LIFT DEPTH (ft): _____

150

FIELD NOTES & REMARKS:DEPTH TO GROUNDWATER: NV 2100'
2100'NEAREST SURFACE WATER: 21,000'NEAREST WATER SOURCE: 21,000'NMOCD RANKING SCORE: 10NMOCD TPH CLOSURE STD. 1,000

PPM

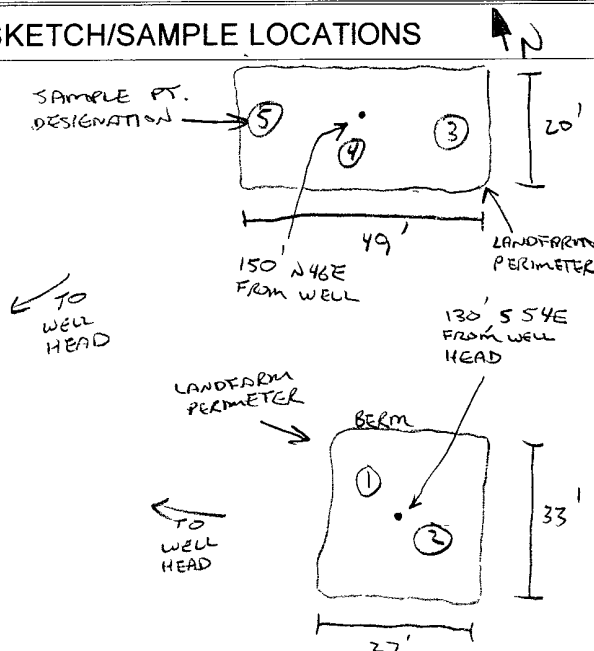
SOIL TYPE: SAND SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____SOIL COLOR: VERY PALE ORANGE TO DK. YEL. BROWNCOHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE FIRM / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - OK. YEL. BROWN STAINING ISOLATED PATCHES IN SOUTH LF UNITHC ODOR DETECTED: YES / NO EXPLANATION - SLIGHTLY IN SAMPLE PTS. ① & ② (OK. YEL. BROWN STAINING)SAMPLING DEPTHS (LANDFARMS): 6 - 18 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5

ADDITIONAL COMMENTS: _____

CLOSED**SKETCH/SAMPLE LOCATIONS**SAMPLE PT.
DESIGNATION

OVM CALIB READ. = 53.4 ppm
OVM CALIB GAS = 100 ppm RF = 0.52
TIME: 7:10 @/pm DATE: 7/20/05

OVM RESULTS**LAB SAMPLES**

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (80158)	1155	8.8

P.C. - 6/4/03

SCALE

0 FT

TRAVEL NOTES: CALLOUT: N/AONSITE: 7/20/05

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

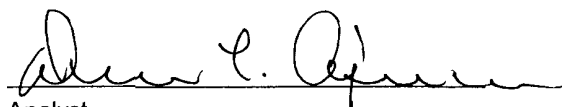
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	07-25-05
Laboratory Number:	33793	Date Sampled:	07-20-05
Chain of Custody No:	13888	Date Received:	07-20-05
Sample Matrix:	Soil	Date Extracted:	07-22-05
Preservative:	Cool	Date Analyzed:	07-25-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

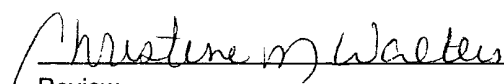
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	8.8	0.1
Total Petroleum Hydrocarbons	8.8	0.2

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 #244E Landfarm 5 Pt. Composite Sample.**


Analyst


Review

District I
P.O. Box 1988, Hobbs, NM
District II
Lawyer DD, Artesia, NM
District III
1000 Rio Bravo Rd., Aztec, NM

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

B1230

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMERICA PRODUCTION CO. Telephone: (505) 326-9200

Address: 200 ENERGY COURT, FARMINGTON, NM 87401

Facility or Well Name: Geu #244E

Location: Unit or Qtr/Qtr Sec m Sec 36 T28N R12W County San Juan

Pit Type: Separator Dehydrator Other Blow

Land Type: BLM X, State , Fee , Other

Pit Location:
(Attach diagram)

Pit dimensions: length NA, width NA, depth NA

Reference: wellhead X, other

Footage from reference: 111'

Direction from reference: 26 Degrees East of North
 West of South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points)

10 nv
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 perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points)

0

RANKING SCORE (TOTAL POINTS):

10 nv
0

Blow Pit

Date Remediation Started: _____

Date Completed: 6-5-03

Remediation Method:
(Check all appropriate sections)

Excavation ☒ KAG

Approx. cubic yards NA 150

Landfarmed ☐

Insitu Bioremediation KAG

Other CLOSE AS IS ⁹¹⁵

Remediation Location:
(i.e. landfarmed onsite,
name and location of
offsite facility)

Onsite ☒ Offsite _____

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

VERTICAL EXTENT TO BE ESTABLISHED.

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit
Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location see Attached Documents

Sample depth 11' (Test hole bottom)

Sample date 6-4-03 Sample time 1442

Sample Results

Soil: Benzene	(ppm) <u>0.0747</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>4.960</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>809</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>3880</u>	Total Xylenes	(ppb) _____

Groundwater Sample: Yes _____ No ☒ (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 6-5-03 PRINTED NAME Jeffrey C. Blagg

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

CHAIN OF CUSTODY RECORD

10884

Client / Project Name BLAGG / BP			Project Location GCN # 244E		ANALYSIS / PARAMETERS								
Sampler: NJV			Client No. 94031-010		No. of Containers	TPH (30158)	BTEX (30218)					Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL GRAB SAMPLE	
① C 11'	6/4/03	1442	25809	SOIL	1	✓	✓					BLOW PIT	
Relinquished by: (Signature) <i>[Signature]</i>			Date 6/5/03	Time 0713	Received by: (Signature) <i>[Signature]</i>			Date 6/5/03	Time 0713				
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:	06-05-TPH QA/QC	Date Reported:	06-05-03
Laboratory Number:	25807	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-05-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	04-29-03	2.6312E-002	2.6286E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	2.5849E-002	2.5823E-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	2,660	2,650	0.4%	0 - 30%
Diesel Range C10 - C28	4.4	4.4	0.0%	0 - 30%

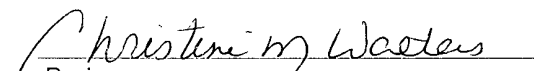
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	2,660	250	2,900	99.6%	75 - 125%
Diesel Range C10 - C28	4.4	250	254	99.8%	75 - 125%

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 25807 - 25811.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	06-05-BTEX QA/QC	Date Reported:	06-05-03
Laboratory Number:	25807	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-05-03
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	3.7241E-002	3.7353E-002	0.3%	ND	0.2
Toluene	4.4375E-002	4.4464E-002	0.2%	ND	0.2
Ethylbenzene	7.5434E-002	7.5661E-002	0.3%	ND	0.2
p,m-Xylene	6.7602E-002	6.7806E-002	0.3%	ND	0.2
o-Xylene	5.7973E-002	5.8089E-002	0.2%	ND	0.1

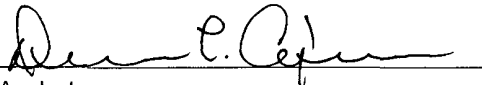
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	206	205	0.5%	0 - 30%	1.8
Toluene	1,110	1,090	1.8%	0 - 30%	1.7
Ethylbenzene	1,040	1,020	1.9%	0 - 30%	1.5
p,m-Xylene	709	710	0.2%	0 - 30%	2.2
o-Xylene	1,300	1,290	0.8%	0 - 30%	1.0

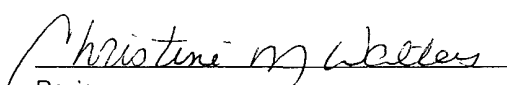
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	206	50.0	255	99.8%	39 - 150
Toluene	1,110	50.0	1,150	99.1%	46 - 148
Ethylbenzene	1,040	50.0	1,080	99.1%	32 - 160
p,m-Xylene	709	100	807	99.8%	46 - 148
o-Xylene	1,300	50.0	1,340	99.3%	46 - 148

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 25807 - 25809.


Analyst


Review

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4900
www.hallenvironmental.com

me: 6CU # 244E

Project #:

Project Manager: *NV*

Sample Temperature: 25

Number/Volume	Test value			HEAL No.
	HgCl ₂	HNO ₃	As ₂ O ₃	
1-400			✓	0703200

1-402.

>

—

Received By: (Signature) *[Signature]* 3/15/07 9:12
Received By: (Signature)

Remarks:

ON TPH - REPORT GOR & DOR
RANGES ONLY.

ANALYSIS REQUEST

Parameter	Unit	Result	Pass/Fail
BTEX + MTBE + TMBs (80218)	mg/L	0.05	Pass
BTEX + MTBE + TPH (Gasoline Only)	mg/L	0.10	Pass
TPH Method 8015B (Gas/Diesel)	mg/L	0.15	Pass
TPH (Method 418.1)	mg/L	0.10	Pass
EDB (Method 504.1)	mg/L	0.05	Pass
EDC (Method 8021)	mg/L	0.05	Pass
8310 (PNA or PAH)	mg/L	0.05	Pass
RCRA 8 Metals	mg/L	0.05	Pass
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	mg/L	0.05	Pass
8081 Pesticides / PCB's (8082)	mg/L	0.05	Pass
8260B (VOA)	mg/L	0.05	Pass
8270 (Semi-VOA)	mg/L	0.05	Pass
CHLORIDE	mg/L	0.05	Pass
Air Bubbles or Headspace (Y or N)			

QA/QC SUMMARY REPORT

Client: Blagg Engineering

Project: GCU #244E

Work Order: 0703200

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW9056A

Sample ID: MB-12570 MBLK Batch ID: 12570 Analysis Date: 3/23/2007 12:17:32 PM

Chloride ND mg/Kg 0.30

Sample ID: LCS-12570 LCS Batch ID: 12570 Analysis Date: 3/23/2007 12:34:57 PM

Chloride 15.97 mg/Kg 0.30 106 90 110

Method: SW8015

Sample ID: MB-12523 MBLK Batch ID: 12523 Analysis Date: 3/20/2007 11:22:34 AM

Diesel Range Organics (DRO) ND mg/Kg 10

Sample ID: LCS-12523 LCS Batch ID: 12523 Analysis Date: 3/21/2007 2:51:53 AM

Diesel Range Organics (DRO) 47.52 mg/Kg 10 95.0 64.6 116

Sample ID: LCSD-12523 LCSD Batch ID: 12523 Analysis Date: 3/21/2007 3:25:57 AM

Diesel Range Organics (DRO) 49.37 mg/Kg 10 98.7 64.6 116 3.82 17.4

Method: SW8015

Sample ID: MB-12520 MBLK Batch ID: 12520 Analysis Date: 3/16/2007 11:53:01 AM

Gasoline Range Organics (GRO) ND mg/Kg 5.0

Sample ID: LCS-12520 LCS Batch ID: 12520 Analysis Date: 3/16/2007 12:23:08 PM

Gasoline Range Organics (GRO) 24.88 mg/Kg 5.0 86.8 69.5 120

Method: SW8021

Sample ID: MB-12520 MBLK Batch ID: 12520 Analysis Date: 3/16/2007 11:53:01 AM

Benzene ND mg/Kg 0.050

Toluene ND mg/Kg 0.050

Ethylbenzene ND mg/Kg 0.050

Xylenes, Total ND mg/Kg 0.10

Sample ID: LCS-12520 LCS Batch ID: 12520 Analysis Date: 3/16/2007 12:23:08 PM

Benzene 0.3058 mg/Kg 0.050 109 62.7 114

Toluene 2.158 mg/Kg 0.050 108 68.2 121

Ethylbenzene 0.4251 mg/Kg 0.050 106 71.4 115

Xylenes, Total 2.460 mg/Kg 0.10 107 65 135

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

3/15/2007

Work Order Number 0703200

Received by TLS

Checklist completed by

Janye Sh
Signature

MARCH 15, 07
Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	

Container/Temp Blank temperature?

15°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN OF CUSTODY RECORD

13888

Client / Project Name BLAGE/BP			Project Location LANDFARMS GCN LEASE		ANALYSIS / PARAMETERS									
Sampler: NTV			Client No. 94034-010		No. of Containers TPH (2015B)							Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL 5 FT. COMPOSITE SAMPLES		
LF-1	7/20/05	0700	33791	SOIL	1	✓						GCN #85		
LF-1	7/20/05	1050	33792	SOIL	1	✓						GCN # 244		
LF-1	7/20/05	1155	33793	SOIL	1	✓						GCN # 244E		
LF-1	7/20/05	1250	33794	SOIL	1	✓						GCN # 204E		
LF-1	7/20/05	1325	33795	SOIL	1	✓						GCN # 192		
Relinquished by: (Signature) <i>[Signature]</i>			Date 7/20/05	Time 1410	Received by: (Signature) <i>[Signature]</i>						Date 7/26/05	Time 1410		
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:	07-25-05 QA/QC	Date Reported:	07-25-05
Laboratory Number:	33779	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-25-05
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	I Cal RF	O Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	02-04-05	1.0002E+003	1.0012E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	9.9951E+002	1.0015E+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

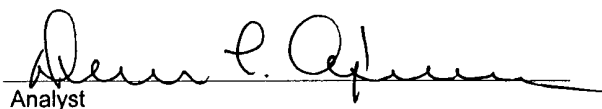
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	383	376	1.6%	0 - 30%
Diesel Range C10 - C28	1,820	1,820	0.0%	0 - 30%

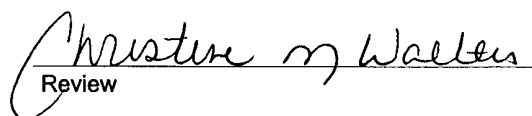
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	383	250	632	99.8%	75 - 125%
Diesel Range C10 - C28	1,820	250	2,060	99.5%	75 - 125%

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 33779 - 33782, 33791 - 33795, 33802.


Analyst


Review