

District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Box 1980, Hobbs, NM  
District III  
P.O. Box 1980, Hobbs, NM

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

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

PIT REMEDIATION AND CLOSURE REPORT

30-045-26210

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

Address: 200 ENERGY COURT, FARMINGTON, NM 87401

Facility or Well Name: GRU #233E

Location: Unit or Qtr/Qtr Sec J Sec 27 T 28N R 12W 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: 64 Degrees    East    North     
   West    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) 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): 0

81214

Blow Pit

Date Remediation Started: \_\_\_\_\_

Date Completed: 5-20-03

Remediation Method: Excavation X  
(Check all appropriate sections) Landfarmed \_\_\_\_\_  
Other CLOSE AS IS.

Approx. cubic yards NA  
Insitu Bioremediation \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_  
(i.e. landfarmed onsite, name and location of offsite facility)

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

Groundwater Encountered: No X 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 8' (Test hole bottom)

Sample date 5-16-03 Sample time 1440

Sample Results

|                 |                    |                |             |
|-----------------|--------------------|----------------|-------------|
| Soil: Benzene   | (ppm) <u>ND</u>    | Water: Benzene | (ppb) _____ |
| Total BTEX      | (ppm) <u>3.420</u> | Toluene        | (ppb) _____ |
| Field Headspace | (ppm) <u>316</u>   | Ethylbenzene   | (ppb) _____ |
| TPH             | (ppm) <u>765</u>   | Total Xylenes  | (ppb) _____ |

Groundwater Sample: Yes \_\_\_\_\_ No X (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 5-20-03 PRINTED NAME Jeffrey C. Blagg

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                     |                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| CLIENT: <u>BP.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>BLAGG ENGINEERING, INC.</b><br><b>P.O. BOX 87, BLOOMFIELD, NM 87413</b><br><b>(505) 632-1199</b> | LOCATION NO: <u>81214</u><br>COCR NO: <u>10942</u>                                                    |
| <b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                     | PAGE No: <u>1</u> of <u>1</u>                                                                         |
| LOCATION: NAME: <u>GCU</u> WELL #: <u>233E</u> TYPE: <u>BLOW</u><br>QUAD/UNIT: <u>J</u> SEC: <u>27</u> TWP: <u>28N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u><br>QTR/FOOTAGE: <u>1850's / 1850'E</u> NW/SE CONTRACTOR: <u>FUNT (BEN)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                     | DATE STARTED: <u>5-16-03</u><br>DATE FINISHED: <u>5-16-03</u><br>ENVIRONMENTAL SPECIALIST: <u>JCB</u> |
| EXCAVATION APPROX. <u>12</u> FT. x <u>12</u> FT. x <u>3</u> FT. DEEP. CUBIC YARDAGE: <u>0</u><br>DISPOSAL FACILITY: <u>NA</u> REMEDIATION METHOD: <u>CLOSE AS IS</u><br>LAND USE: <u>NAPI - SURF. USE - NAVATO</u> LEASE: <u>AMNM078391C</u> FORMATION: <u>DK</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                     |                                                                                                       |
| FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>111</u> FT. <u>S64°W</u> FROM WELLHEAD.<br>DEPTH TO GROUNDWATER: <u>&gt;100</u> NEAREST WATER SOURCE: <u>&gt;1000</u> NEAREST SURFACE WATER: <u>&gt;1000</u><br>NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                     |                                                                                                       |
| SOIL AND EXCAVATION DESCRIPTION: <div style="float: right; border: 1px solid black; padding: 5px; margin-top: 10px;">           OVM CALIB. READ. = <u>129.7</u> ppm<br/>           OVM CALIB. GAS = <u>250</u> ppm RF = 0.52<br/>           TIME: <u>1230</u> am/pm DATE: <u>5-16-03</u> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                     |                                                                                                       |
| SOIL TYPE: <u>SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER</u><br>SOIL COLOR: <u>Light Gray 3'-8'</u><br>COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE<br>CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / FIRM / DENSE / VERY DENSE<br>PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC<br>DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD<br>MOISTURE: DRY / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED<br>DISCOLORATION/STAINING OBSERVED: <u>YES</u> NO EXPLANATION - <u>Light Gray</u><br>HC ODOR DETECTED: <u>YES</u> NO EXPLANATION - <u>Minor</u><br>SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS.<br>ADDITIONAL COMMENTS: <u>USE BACKHOE TO DIG TEST TRENCH &amp; SAMPLE.</u> |                                                                                                     |                                                                                                       |

SCALE

0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER

PIT PROFILE

OVM READING

| SAMPLE ID | FIELD HEADSPACE (ppm) |
|-----------|-----------------------|
| 1 @ 8'    | 144 298               |
| 2 @ 8'    | 235 316               |
| 3 @ 8'    | 256                   |
| 4 @       |                       |
| 5 @       |                       |

LAB SAMPLES

| SAMPLE ID   | ANALYSIS | TIME |
|-------------|----------|------|
| 2 @ 8'      | THP/BTEX | 1440 |
| BOTH PASSED |          |      |

TRAVEL NOTES: CALLOUT: 5/16/03 0930 ONSITE: 5/16/03 1400

revised: 09/04/02
bei1005C.skf

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

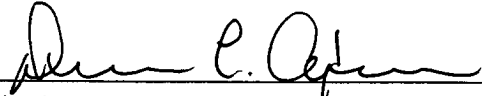
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | Blow #2 @ 8'    | Date Reported:      | 05-20-03  |
| Laboratory Number:   | 25684           | Date Sampled:       | 05-16-03  |
| Chain of Custody No: | 10942           | Date Received:      | 05-16-03  |
| Sample Matrix:       | Soil            | Date Extracted:     | 05-19-03  |
| Preservative:        | Cool            | Date Analyzed:      | 05-20-03  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

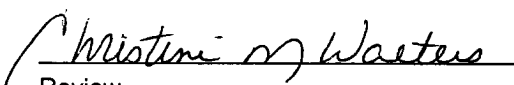
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 253                      | 0.2                      |
| Diesel Range (C10 - C28)     | 512                      | 0.1                      |
| Total Petroleum Hydrocarbons | 765                      | 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 233E.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | Blow #2 @ 8'  | Date Reported:      | 05-20-03  |
| Laboratory Number: | 25684         | Date Sampled:       | 05-16-03  |
| Chain of Custody:  | 10942         | Date Received:      | 05-16-03  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 05-20-03  |
| Preservative:      | Cool          | Date Extracted:     | 05-19-03  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 1.8                      |
| Toluene      | 416                      | 1.7                      |
| Ethylbenzene | 417                      | 1.5                      |
| p,m-Xylene   | 1,780                    | 2.2                      |
| o-Xylene     | 807                      | 1.0                      |
| Total BTEX   | 3,420                    |                          |

ND - Parameter not detected at the stated detection limit.

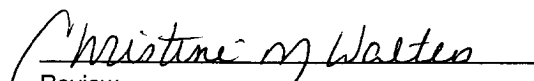
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 99 %             |
|                       | 1,4-difluorobenzene | 99 %             |
|                       | Bromochlorobenzene  | 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 233E.

  
Analyst

  
Review