

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: <u>BP AMERICA PROD. CO.</u> Telephone: <u>(505)-326-9200</u> e-mail address: _____   |   |  |
| Address: <u>200 ENERGY COURT, FARMINGTON, NM 87410</u>   |   |  |
| Facility or well name: <u>HEATON LS #14</u> API #: <u>30-045- 10351</u> U/L or Qtr/Qtr <u>G</u> Sec <u>29</u> T <u>31N</u> R <u>11W</u>  |   |  |
| County: <u>SAN JUAN</u> Latitude <u>36.87317</u> Longitude <u>108.01028</u> NAD: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>  |   |  |
| <b>Pit</b><br>Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input checked="" type="checkbox"/> <u>BLOW</u><br>Workover <input type="checkbox"/> Emergency <input type="checkbox"/><br>Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/><br>Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/><br>Pit Volume _____ bbl | <b>Below-grade tank</b><br>Volume: _____ bbl Type of fluid: _____<br>Construction material: <u>N/A</u><br>Double-walled, with leak detection? Yes <input type="checkbox"/> 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<br>50 feet or more, but less than 100 feet<br>100 feet or more  | (20 points)<br>(10 points) <u>0</u><br>( 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<br>No   | (20 points)<br>( 0 points) <u>0</u>                |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)  | Less than 200 feet<br>200 feet or more, but less than 1000 feet<br>1000 feet or more  | (20 points)<br>(10 points) <u>0</u><br>( 0 points) |
| <b>Ranking Score (Total Points)</b>  |   | <u>0</u>   |

**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 BP CROUCH MESA LF. (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: <u>PIT LOCATED APPROXIMATELY 45 FT. S50W FROM WELL HEAD.</u>  |
| <u>PIT EXCAVATION: WIDTH 20 ft., LENGTH 16 ft., DEPTH 15 ft.</u>   |
| <u>PIT REMEDIATION: CLOSE AS IS: <input type="checkbox"/> LANDFARM: <input checked="" type="checkbox"/> COMPOST: <input type="checkbox"/> STOCKPILE: <input type="checkbox"/> OTHER <input type="checkbox"/> (explain)</u> |
| Cubic yards: <u>175</u>  |

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: 07/07/05

Printed Name/Title Jeff Blagg - P.E. # 11607

Signature [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, DIST. 3

Signature [Signature]

Date: FEB 28 2006

|                   |   |  |
|-------------------|---|--|
| 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>B1559</u><br>COCR NO: <u>13887</u> |
|-------------------|---|--|

|   |  |                               |
|---|--|-------------------------------|
| <b>FIELD REPORT: PIT CLOSURE VERIFICATION</b> |  | PAGE No: <u>1</u> of <u>1</u> |
|---|--|-------------------------------|

|  |  |
|--|--|
| LOCATION: NAME: <u>HEATON LS</u> WELL #: <u>14</u> TYPE: <u>BLOW</u><br>QUAD/UNIT: <u>G SEC: 29 TWP: 31N RNG: 11W PM: NM CNTY: SJ ST: NM</u><br>QTR/FOOTAGE: <u>1550'N/1500'E</u> SWNE CONTRACTOR: <u>R+S (ROBERT)</u> | DATE STARTED: <u>7-5-05</u><br>DATE FINISHED: _____<br>ENVIRONMENTAL SPECIALIST: <u>NV JCB</u> |
|--|--|


  

|  |  |
|--|--|
| EXCAVATION APPROX. <u>20</u> FT. x <u>16</u> FT. x <u>15</u> FT. DEEP. CUBIC YARDAGE: <u>175</u><br>DISPOSAL FACILITY: <u>BP CLOUGH MESA FACILITY</u> REMEDIATION METHOD: <u>LANDFARM</u><br>LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF-078097</u> FORMATION: <u>DK</u> |  |
|--|--|

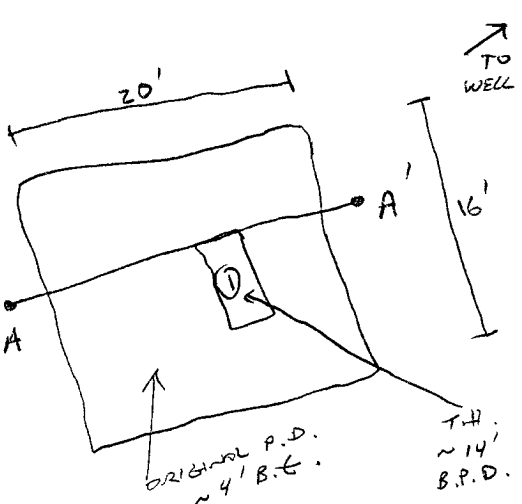
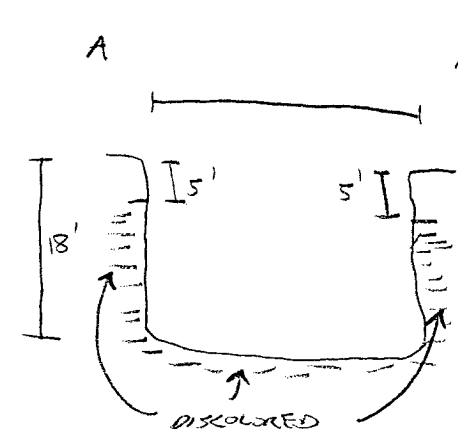
  

|                        |   |
|------------------------|---|
| FIELD NOTES & REMARKS: | PIT LOCATED APPROXIMATELY <u>45</u> FT. <u>S 50 W</u> FROM WELLHEAD.<br>DEPTH TO GROUNDWATER: <u>&gt;100</u> NEAREST WATER SOURCE: <u>&gt;1000</u> NEAREST SURFACE WATER: <u>&gt;1000</u><br>NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM <u>NV 54.0</u><br><b>SOIL AND EXCAVATION DESCRIPTION:</b><br>SOIL TYPE: <u>(SAND)</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>9:50 AM</u><br>SOIL COLOR: <u>DR. YELL. ORANGE TO DR. GRAY</u><br>COHESION (ALL OTHERS): <u>(NON COHESIVE)</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE<br>CONSISTENCY (NON COHESIVE SOILS): <u>(LOOSE)</u> / <u>(FIRM)</u> / 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> / <u>(MOIST)</u> / WET / SATURATED / SUPER SATURATED<br>DISCOLORATION/STAINING OBSERVED: <u>(YES)</u> / NO EXPLANATION: <u>EXCAVATED SOIL &amp; ALL SIDEWALLS.</u><br>HC ODOR DETECTED: <u>(YES)</u> / NO EXPLANATION: <u>DISCOLORED SOIL &amp; OVM SAMPLE.</u><br>SAMPLE TYPE: <u>(GRAB)</u> / COMPOSITE - # OF PTS. _____<br>ADDITIONAL COMMENTS: <u>18' x 18' x 4' Deep Earthen Pit.</u> |
|------------------------|---|

| SCALE<br><br>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> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | SAMP. TIME | SAMP. ID   | LAB NO.  | WEIGHT (g) | mL FREON | DILUTION    | READING | CALC. (ppm) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SAMP. TIME   | SAMP. ID   | LAB NO.    | WEIGHT (g) | mL FREON | DILUTION   | READING  | CALC. (ppm) |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |            |            |          |            |          |             |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |            |            |          |            |          |             |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |            |            |          |            |          |             |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| PIT PERIMETER  | OVM READING  | PIT PROFILE |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|--|--|-------------|-----------------------|---------|-------|-----|--|-----|--|-----|--|-----|--|--|--|--|--|--|--|--|--|--|--|-----------|----------|------|---------|-------------|------|---|--------------|---|--|--|--|--|--|--|--|--|--|--|
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| SAMPLE ID  | FIELD HEADSPACE (ppm)  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| 1 @ 18'  | 4,066  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| 2 @  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| 3 @  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| 4 @  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| 5 @  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| SAMPLE ID  | ANALYSIS   | TIME        |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| 1 @ 18'  | TPH (20158)  | 1220        |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
| "  | STEX (20218)   | "           |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |
|  |  |             |                       |         |       |     |  |     |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |           |          |      |         |             |      |   |              |   |  |  |  |  |  |  |  |  |  |  |

|   |   |
|---|---|
| P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW<br>T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM | TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>7-10-05</u> |
|---|---|

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

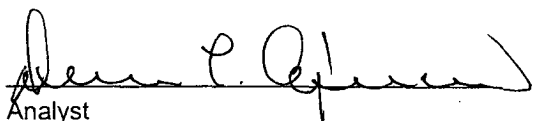
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 1 @ 18'         | Date Reported:      | 07-07-05  |
| Laboratory Number:   | 33560           | Date Sampled:       | 07-05-05  |
| Chain of Custody No: | 13887           | Date Received:      | 07-06-05  |
| Sample Matrix:       | Soil            | Date Extracted:     | 07-06-05  |
| Preservative:        | Cool            | Date Analyzed:      | 07-07-05  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

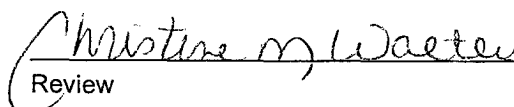
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 1,140                    | 0.2                      |
| Diesel Range (C10 - C28)     | 307                      | 0.1                      |
| Total Petroleum Hydrocarbons | 1,450                    | 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: **Heaton LS #14 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 @ 18'       | Date Reported:      | 07-07-05  |
| Laboratory Number: | 33560         | Date Sampled:       | 07-05-05  |
| Chain of Custody:  | 13887         | Date Received:      | 07-06-05  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 07-07-05  |
| Preservative:      | Cool          | Date Extracted:     | 07-06-05  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 414                      | 2.1                      |
| Toluene      | 10,220                   | 1.8                      |
| Ethylbenzene | 2,850                    | 1.7                      |
| p,m-Xylene   | 16,440                   | 1.5                      |
| o-Xylene     | 4,320                    | 2.2                      |
| Total BTEX   | 34,240                   |                          |

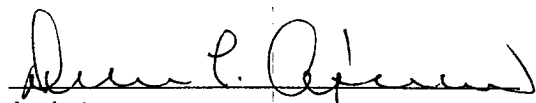
ND - Parameter not detected at the stated detection limit.

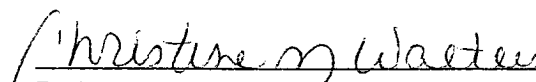
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 99.0 %           |
|                       | 1,4-difluorobenzene | 99.0 %           |
|                       | Bromochlorobenzene  | 99.0 %           |

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: Heaton LS #14 Blow Pit Grab Sample.

  
Analyst

  
Review

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office

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Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

|  |  |  |
|--|--|--|
| Operator: <u>BP AMERICA PROD. CO.</u> Telephone: <u>(505)-326-9200</u> e-mail address: _____   |  |  |
| Address: <u>200 ENERGY COURT, FARMINGTON, NM 87410</u>   |  |  |
| Facility or well name: <u>HEATON LS #14</u> API #: <u>30-045- 10351</u> U/L or Qtr/Qtr <u>G</u> Sec <u>29</u> T <u>31N</u> R <u>11W</u>  |  |  |
| County: <u>SAN JUAN</u> Latitude <u>36.87317</u> Longitude <u>108.01028</u> NAD: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>  |  |  |
| <b>Pit</b><br>Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input checked="" type="checkbox"/> <u>DEHYDRATOR</u><br>Workover <input type="checkbox"/> Emergency <input type="checkbox"/><br>Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/><br>Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/><br>Pit Volume _____ bbl | <b>Below-grade tank</b><br>Volume: _____ bbl Type of fluid: <u>N/A</u><br>Construction material: <u>N/A</u><br>Double-walled, with leak detection? Yes <input type="checkbox"/> 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<br>50 feet or more, but less than 100 feet<br>100 feet or more   | (20 points)<br>(10 points) <u>0</u><br>( 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<br>No  | (20 points)<br>( 0 points) <u>0</u>                |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)  | Less than 200 feet<br>200 feet or more, but less than 1000 feet<br>1000 feet or more   | (20 points)<br>(10 points) <u>0</u><br>( 0 points) |
| <b>Ranking Score (Total Points)</b>  |  | <u>0</u>   |

**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 BP CROUCH MESA LF. (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: <u>PIT LOCATED APPROXIMATELY 60 FT. N71E FROM WELL HEAD.</u>  |
| <u>PIT EXCAVATION: WIDTH 18 ft., LENGTH 15 ft., DEPTH 16 ft.</u>   |
| <u>PIT REMEDIATION: CLOSE AS IS: <input type="checkbox"/>, LANDFARM: <input checked="" type="checkbox"/>, COMPOST: <input type="checkbox"/>, STOCKPILE: <input type="checkbox"/>, OTHER <input type="checkbox"/> (explain)</u> |
| Cubic yards: <u>160</u>  |

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: 07/07/05

Printed Name/Title Jeff Blagg - P.E. # 11607

Signature Jeff Blagg


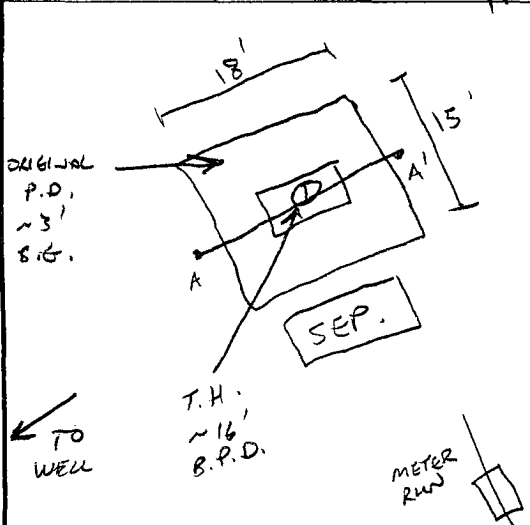
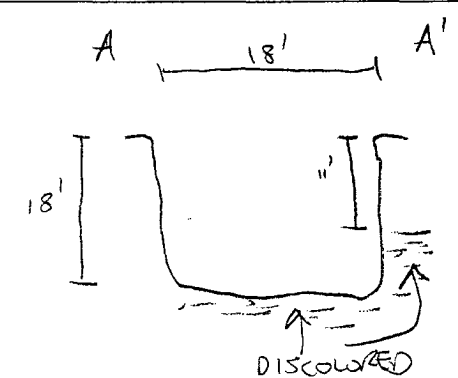
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: DEPUTY OIL & GAS INSPECTOR, DIST. 40

Printed Name/Title

Signature [Signature]

Date: FEB 28 2006

| 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>B1559</u><br>COCR NO: <u>13887</u>  |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
|--|---|---|------------|----------|----------|------------|-------------|----------|---------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|-----------------------|---------|------|-----|--|-----|--|-----|--|-----|--|-----------|----------|------|---------|----------|------|---------------|--|--|
| <b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>  |   | PAGE No: <u>1</u> of <u>   </u>   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| LOCATION: NAME: <u>HEATON LS</u> WELL#: <u>14</u> TYPE: <u>SEP DENY</u><br>QUAD/UNIT: <u>G SEC: 29 TWP: 31N RING: 11W PM: NM CNTY: SBT ST: NM</u><br>QTR/FOOTAGE: <u>1550'N/1500'E</u> SWINE CONTRACTOR: <u>P+S (ROBERT)</u>   |   | DATE STARTED: <u>7-3-05</u><br>DATE FINISHED: <u>7-1-05</u><br>ENVIRONMENTAL SPECIALIST: <u>NV FEB</u>  |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| EXCAVATION APPROX. <u>13</u> FT. x <u>15</u> FT. x <u>16</u> FT. DEEP. CUBIC YARDAGE: <u>160</u>   |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| DISPOSAL FACILITY: <u>BP CROUCH MESA FACILITY</u> REMEDIATION METHOD: <u>LANDFARM</u>  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF-078097</u> FORMATION: <u>DK</u>  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>60</u> FT. <u>N71E</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 <u>54.0</u> <sup>uv</sup>   |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| SOIL AND EXCAVATION DESCRIPTION:<br>SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER<br>SOIL COLOR: <u>DR. YELL. ORANGE TO BLACK</u><br>COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE<br>CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / <u>FIRM</u> / DENSE / VERY DENSE<br>PLASTICITY (CLAYS): <u>NON PLASTIC</u> / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC<br>DENSITY (COHESIVE CLAYS & SILTS): <u>SOFT</u> / FIRM / STIFF / VERY STIFF / HARD<br>MOISTURE: <u>DRY</u> / <u>SLIGHTLY MOIST</u> / <u>MOIST</u> / WET / SATURATED / SUPER SATURATED<br>DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION: <u>EXCAVATED SOIL &amp; LOWER PORTION OF EAST SIDEWALL</u><br>HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION: <u>DISCOURDED SOIL &amp; OVM SAMPLE</u><br>SAMPLE TYPE: <u>GRAB</u> COMPOSITE - # OF PTS. <u>   </u><br>ADDITIONAL COMMENTS: <u>10' x 10' x 3' Deep Earthen Pit</u>   |   | OVM CALIB. READ. = <u>52.9</u> ppm<br>OVM CALIB. GAS = <u>100</u> ppm RF = 0.52<br>TIME: <u>0915</u> (am/pm) DATE: <u>7-1-05</u><br><u>9:45</u> <sup>uv</sup> <u>7/5/05</u> <sup>uv</sup> |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">           SCALE<br/> <br/>           0 FT         </div> <div style="width: 60%; text-align: center;"> <b>FIELD 418.1 CALCULATIONS</b> <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> </div> <div style="width: 20%; text-align: center;"> <b>PIT PERIMETER</b><br/>  </div> <div style="width: 20%; text-align: center;"> <b>PIT PROFILE</b><br/>  </div> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <b>OVM READING</b> <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 @ 19'</td><td>3166</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> </tbody> </table> </div> <div style="width: 30%;"> <b>LAB SAMPLES</b> <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 @ 19'</td><td>TAT/BTEX</td><td>1226</td></tr> <tr><td colspan="3" style="text-align: center;"><b>PASSED</b></td></tr> </tbody> </table> </div> </div> </div> |   |   | SAMP. TIME | SAMP. ID | LAB NO.  | WEIGHT (g) | mL FREON    | DILUTION | READING | CALC. (ppm) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SAMPLE ID | FIELD HEADSPACE (ppm) | 1 @ 19' | 3166 | 2 @ |  | 3 @ |  | 4 @ |  | 5 @ |  | SAMPLE ID | ANALYSIS | TIME | 1 @ 19' | TAT/BTEX | 1226 | <b>PASSED</b> |  |  |
| SAMP. TIME   | SAMP. ID  | LAB NO.   | WEIGHT (g) | mL FREON | DILUTION | READING    | CALC. (ppm) |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
|  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
|  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
|  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| SAMPLE ID  | FIELD HEADSPACE (ppm)   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| 1 @ 19'  | 3166  |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| 2 @  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| 3 @  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| 4 @  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| 5 @  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| SAMPLE ID  | ANALYSIS  | TIME  |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| 1 @ 19'  | TAT/BTEX  | 1226  |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| <b>PASSED</b>  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |
| TRAVEL NOTES: CALLOUT: <u>   </u> ONSITE: <u>7-1-05</u>  |   |   |            |          |          |            |             |          |         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |                       |         |      |     |  |     |  |     |  |     |  |           |          |      |         |          |      |               |  |  |

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

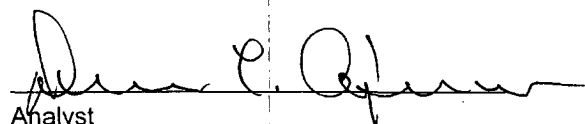
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 1 @ 19'         | Date Reported:      | 07-07-05  |
| Laboratory Number:   | 33561           | Date Sampled:       | 07-05-05  |
| Chain of Custody No: | 13887           | Date Received:      | 07-06-05  |
| Sample Matrix:       | Soil            | Date Extracted:     | 07-06-05  |
| Preservative:        | Cool            | Date Analyzed:      | 07-07-05  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

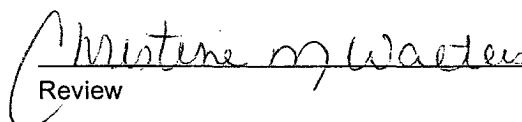
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 2,760                    | 0.2                      |
| Diesel Range (C10 - C28)     | 612                      | 0.1                      |
| Total Petroleum Hydrocarbons | 3,370                    | 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: **Heaton LS #14 Dehydrator 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 @ 19'       | Date Reported:      | 07-07-05  |
| Laboratory Number: | 33561         | Date Sampled:       | 07-05-05  |
| Chain of Custody:  | 13887         | Date Received:      | 07-06-05  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 07-07-05  |
| Preservative:      | Cool          | Date Extracted:     | 07-06-05  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 2,070                    | 2.1                      |
| Toluene      | 11,040                   | 1.8                      |
| Ethylbenzene | 4,000                    | 1.7                      |
| p,m-Xylene   | 19,320                   | 1.5                      |
| o-Xylene     | 6,080                    | 2.2                      |
| Total BTEX   | 42,510                   |                          |

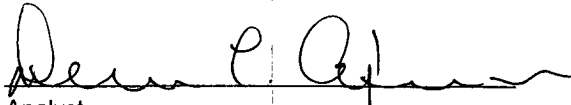
ND - Parameter not detected at the stated detection limit.

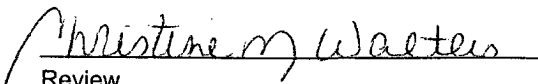
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

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: Heaton LS #14 Dehydrator Pit Grab Sample.

  
Analyst

  
Review