

*Benny L. Frost*  
DEPUTY OIL & GAS INSPECTOR

AUG 24 1999

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

CAGIS

SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

*Approved*

Operator: CONOCO, INC. Telephone: (505) 324-5884  
Address: 3315 Bloomfield Hwy., Farmington, NM 87401  
Facility or Well Name: APACHE #6  
Location: Unit or Qtr/Qtr Sec M Sec 17 T 26N R 3W County RIO ARRIBA  
Pit Type: Separator      Dehydrator      Other COMPRESSOR  
Land Type: RANGE

Pit Location: Pit dimensions: length 34', width 54', depth 12'  
(Attach diagram) Reference: wellhead X, other       
Footage from reference: 38'  
Direction from reference: 33 Degrees      East of North X  
X West of South     

|                                                                                                                                                           |                                                                                                          |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|
| <b>Depth To Groundwater:</b><br>(Vertical distance from<br>contaminants to seasonal<br>high water elevation of<br>groundwater)                            | Less than 50 feet (20 points)<br>50 feet to 99 feet (10 points)<br>Greater than 100 feet (0 points)      | <u>0</u> |
| <b>Distance to an Ephemeral Stream</b><br>(Downgradient dry wash greater than<br>ten feet in width)                                                       | Less than 100 feet (10 points)<br>Greater than 100 feet (0 points)                                       | <u>0</u> |
| <b>Distance to Nearest Lake, Playa, or Watering Pond</b><br>(Downgradient lakes, playas and<br>livestock or wildlife watering ponds)                      | Less than 100 feet (10 points)<br>Greater than 100 feet (0 points)                                       | <u>0</u> |
| <b>Wellhead Protection Area:</b><br>(Less than 200 feet from a private<br>domestic water source, or: less than<br>1000 feet from all other water sources) | Yes (20 points)<br>No (0 points)                                                                         | <u>0</u> |
| <b>Distance To Surface Water:</b><br>(Horizontal distance to perennial<br>lakes, ponds, rivers, streams, creeks,<br>irrigation canals and ditches)        | Less than 100 feet (20 points)<br>100 feet to 1000 feet (10 points)<br>Greater than 1000 feet (0 points) | <u>0</u> |

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 9/2/98

Remediation Method: Excavation ☒ Approx. cubic yards 750  
 (check all appropriate sections) Landfarmed ☒  
 Insitu Bioremediation \_\_\_\_\_  
 Other \_\_\_\_\_

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

General Description of Remedial Action: Excavation

Groundwater Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents  
 Closure Sampling: \_\_\_\_\_  
 (if multiple samples, attach sample results and diagram of sample locations and depths)  
 Sample depth 15'  
 Sample date 8/28/98 Sample time 0930

Sample Results

|                 |       |               |                |       |       |
|-----------------|-------|---------------|----------------|-------|-------|
| Soil: Benzene   | (ppm) | <u>0.376</u>  | Water: Benzene | (ppb) | _____ |
| Total BTEX      | (ppm) | <u>10.380</u> | Toluene        | (ppb) | _____ |
| Field Headspace | (ppm) | <u>564</u>    | Ethylbenzene   | (ppb) | _____ |
| TPH             | (ppm) | <u>2,560</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 9/2/98 PRINTED NAME Jeffrey C. Blagg, P.E. #11607  
 SIGNATURE Jeffrey C. Blagg AND TITLE President

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO \_\_\_\_\_ (REASON) \_\_\_\_\_

SIGNED: Ken C. Mandle DATE: 10-1-98

| CLIENT: <u>CONOCO</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BLAGG ENGINEERING, INC.<br>P.O. BOX 87, BLOOMFIELD, NM 87413<br>(505) 632-1199                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LOCATION NO: <u>CA616</u><br>C.O.C. NO: <u>6193</u>                                         |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------|-------------|----------|------------|-----------|----------|-------------|-----------|-----|---------|-----|--|--|--|--|--|--|--|--|--|--|------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| FIELD REPORT: CLOSURE VERIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PAGE No: <u>1</u> of <u>1</u>                                                               |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| LOCATION: NAME: <u>APACHE</u> WELL #: <u>6</u> PIT: <u>COMPL.</u><br>QUAD/UNIT: <u>M SEC 17 TWP 26N RNG 3W PM NM CNTY RA ST NM</u><br>QTR/FOOTAGE: <u>990' ASL / 800' FUL</u> CONTRACTOR: <u>JVC</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DATE STARTED: <u>8/28/98</u><br>DATE FINISHED: _____<br>ENVIRONMENTAL SPECIALIST: <u>NU</u> |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| EXCAVATION APPROX. <u>34</u> FT. x <u>54</u> FT. x <u>12</u> FT. DEEP. CUBIC YARDAGE: <u>750</u><br>DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u><br>LAND USE: <u>RANGE</u> LEASE: <u>CONTRACT # 98</u> FORMATION: <u>DK</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>38</u> FT. <u>N33W</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>NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM<br>SOIL AND EXCAVATION DESCRIPTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| OK. YELL. ORANGE TO BROWN SILTY SAND, NON COHESIVE SLIGHTLY MOIST TO MOIST, FIRM, STAINING POSSIBLE IN SOUTHEAST CORNER, ONLY NO APPARENT HC ODOR DETECTED w/in EXCAVATION, STRONG HC ODOR DETECTED w/in PIT BOTTOM DUM SAMPLE ONLY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 20%;"> <p style="text-align: center;">CLOSED</p> <p>SCALE</p> <p>0 FT</p> </div> <div style="width: 60%;"> <p style="text-align: center;">FIELD 418.1 CALCULATIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</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%;"> <p style="text-align: center;">CHECK ONE:</p> <p><input checked="" type="checkbox"/> PIT ABANDONED</p> <p><input type="checkbox"/> STEEL TANK INSTALLED</p> <p><input type="checkbox"/> FIBERGLASS TANK INSTALLED</p> </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             | TIME                      | SAMPLE I.D. | LAB No:  | WEIGHT (g) | mL. FREON | DILUTION | READING     | CALC. ppm |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SAMPLE I.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LAB No:                                                                                     | WEIGHT (g)                | mL. FREON   | DILUTION | READING    | CALC. ppm |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| <p style="text-align: center;">PIT PERIMETER</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p style="text-align: center;">OVM RESULTS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 8'</td><td>0.0</td></tr> <tr><td>2 @ 7'</td><td>0.0</td></tr> <tr><td>3 @ 8'</td><td>0.0</td></tr> <tr><td>4 @ 6'</td><td>0.0</td></tr> <tr><td>5 @ 15'</td><td>564</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> | SAMPLE ID                                                                                   | FIELD HEADSPACE PID (ppm) | 1 @ 8'      | 0.0      | 2 @ 7'     | 0.0       | 3 @ 8'   | 0.0         | 4 @ 6'    | 0.0 | 5 @ 15' | 564 |  |  |  |  |  |  |  |  |  |  | <p style="text-align: center;">PIT PROFILE</p> |  |  |  |  |  |  |  |  |  |  |
| SAMPLE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FIELD HEADSPACE PID (ppm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| 1 @ 8'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| 2 @ 7'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| 3 @ 8'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| 4 @ 6'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| 5 @ 15'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 564                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
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| <p style="text-align: center;">LAB SAMPLES</p> <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>5 @ 15'</td> <td>TPH/STEX</td> <td>0930</td> </tr> <tr> <td colspan="3" style="text-align: center;">BOTH PASSED</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             | SAMPLE ID                 | ANALYSIS    | TIME     | 5 @ 15'    | TPH/STEX  | 0930     | BOTH PASSED |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| SAMPLE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TIME                                                                                        |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| 5 @ 15'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TPH/STEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0930                                                                                        |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
| BOTH PASSED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |
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| TRAVEL NOTES: CALLOUT: <u>8/25/98 - MORN.</u> ONSITE: <u>8/28/98 - MORN.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |                           |             |          |            |           |          |             |           |     |         |     |  |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |  |

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

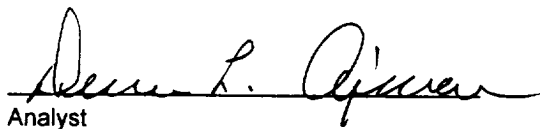
|                      |                 |                     |          |
|----------------------|-----------------|---------------------|----------|
| Client:              | Blagg / CONOCO  | Project #:          | 04034-10 |
| Sample ID:           | 5 @ 15'         | Date Reported:      | 09-02-98 |
| Laboratory Number:   | D880            | Date Sampled:       | 08-28-98 |
| Chain of Custody No: | 6193            | Date Received:      | 08-31-98 |
| Sample Matrix:       | Soil            | Date Extracted:     | 08-31-98 |
| Preservative:        | Cool            | Date Analyzed:      | 09-01-98 |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 482                      | 0.2                      |
| Diesel Range (C10 - C28)     | 2,080                    | 0.1                      |
| Total Petroleum Hydrocarbons | 2,560                    | 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: Apache # 6 Compressor Pit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                |                     |          |
|--------------------|----------------|---------------------|----------|
| Client:            | Blagg / CONOCO | Project #:          | 04034-10 |
| Sample ID:         | 5 @ 15'        | Date Reported:      | 09-01-98 |
| Laboratory Number: | D880           | Date Sampled:       | 08-28-98 |
| Chain of Custody:  | 6193           | Date Received:      | 08-31-98 |
| Sample Matrix:     | Soil           | Date Analyzed:      | 09-01-98 |
| Preservative:      | Cool           | Date Extracted:     | 08-31-98 |
| Condition:         | Cool & Intact  | Analysis Requested: | BTEX     |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 376                      | 8.8                      |
| Toluene      | 2,580                    | 8.4                      |
| Ethylbenzene | 1,170                    | 7.6                      |
| p,m-Xylene   | 5,950                    | 10.8                     |
| o-Xylene     | 303                      | 5.2                      |
| Total BTEX   | 10,380                   |                          |

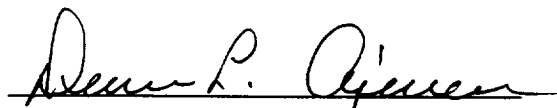
ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter          | Percent Recovery |
|-----------------------|--------------------|------------------|
|                       | Trifluorotoluene   | 99 %             |
|                       | Bromofluorobenzene | 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: Apache # 6 Compressor Pit..

  
Analyst

  
Review

## 6193

[illegible]

# 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:         | 09-01-TPH QA/QC    | Date Reported:      | 09-02-98 |
| Laboratory Number: | D875               | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 09-01-98 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 04-28-98   | 3.5389E-002 | 3.5353E-002 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 04-28-98   | 5.6888E-002 | 5.6860E-002 | 0.05%        | 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             |

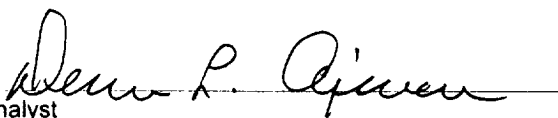
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | 605    | 600       | 0.8%         | 0 - 30%       |
| Diesel Range C10 - C28  | 738    | 732       | 0.8%         | 0 - 30%       |

| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | 605    | 250         | 853          | 100%       | 75 - 125%     |
| Diesel Range C10 - C28  | 738    | 250         | 986          | 100%       | 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 D875 - D880.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 09-01-BTEX QA/QC | Date Reported: | 09-01-98 |
| Laboratory Number: | D875             | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil             | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 09-01-98 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and<br>Detection Limits (ug/L) | I-Cal RF    | C-Cal RF             | %Diff. | Blank<br>Conc. | Detect<br>Limit |
|--------------------------------------------|-------------|----------------------|--------|----------------|-----------------|
|                                            |             | Accept Range 0 - 15% |        |                |                 |
| Benzene                                    | 4.5253E-003 | 4.5344E-003          | 0.2%   | ND             | 0.2             |
| Toluene                                    | 3.7550E-003 | 3.7663E-003          | 0.3%   | ND             | 0.2             |
| Ethylbenzene                               | 2.0718E-003 | 2.0839E-003          | 0.6%   | ND             | 0.2             |
| p,m-Xylene                                 | 2.0890E-003 | 2.1037E-003          | 0.7%   | ND             | 0.2             |
| o-Xylene                                   | 1.6391E-003 | 1.6457E-003          | 0.4%   | ND             | 0.1             |

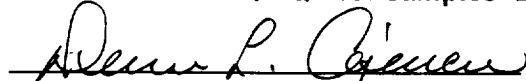
| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | 81.4   | 82.4      | 1.2%   | 0 - 30%      | 8.8           |
| Toluene                 | 873    | 879       | 0.7%   | 0 - 30%      | 8.4           |
| Ethylbenzene            | 359    | 362       | 0.8%   | 0 - 30%      | 7.6           |
| p,m-Xylene              | 4,850  | 4,890     | 1.6%   | 0 - 30%      | 10.8          |
| o-Xylene                | 655    | 665       | 1.4%   | 0 - 30%      | 5.2           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 81.4   | 50.0          | 131           | 100%       | 39 - 150     |
| Toluene             | 873    | 50.0          | 922           | 100%       | 46 - 148     |
| Ethylbenzene        | 359    | 50.0          | 409           | 100%       | 32 - 160     |
| p,m-Xylene          | 4,850  | 100           | 4,850         | 100%       | 46 - 148     |
| o-Xylene            | 655    | 50.0          | 705           | 100%       | 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 D875 - D880.

  
Analyst

  
Review



CAG16

**JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528**

SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

**PIT REMEDIATION AND CLOSURE REPORT**

**Operator:** CONOCO, INC. **Telephone:** (505) 324-5884

**Address:** 3315 Bloomfield Hwy., Farmington, NM 87401

**Facility or Well Name:** APACHE # 6

**Location:** Unit or Qtr/Qtr Sec M Sec 17 T26N R3W County RIO ARriba

**Pit Type:** Separator      Dehydrator      Other PRODUCTION TANK

**Land Type:** RANGE

**Pit Location:** Pit dimensions: length 14', width 17', depth 8'  
(Attach diagram)

Reference: wellhead X, other     

Footage from reference: 96'

Direction from reference: 6 Degrees      East of North X  
X West South     

|                                                                                                                                                           |                                                                       |                                           |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------|----------|
| <b>Depth To Groundwater:</b><br>(Vertical distance from<br>contaminants to seasonal<br>high water elevation of<br>groundwater)                            | Less than 50 feet<br>50 feet to 99 feet<br>Greater than 100 feet      | (20 points)<br>(10 points)<br>( 0 points) | <u>0</u> |
| <b>Distance to an Ephemeral Stream</b><br>(Downgradient dry wash greater than<br>ten feet in width)                                                       | Less than 100 feet<br>Greater than 100 feet                           | (10 points)<br>( 0 points)                | <u>0</u> |
| <b>Distance to Nearest Lake, Playa, or Watering Pond</b><br>(Downgradient lakes, playas and<br>livestock or wildlife watering ponds)                      | Less than 100 feet<br>Greater than 100 feet                           | (10 points)<br>( 0 points)                | <u>0</u> |
| <b>Wellhead Protection Area:</b><br>(Less than 200 feet from a private<br>domestic water source, or: less than<br>1000 feet from all other water sources) | Yes<br>No                                                             | (20 points)<br>( 0 points)                | <u>0</u> |
| <b>Distance To SurfaceWater:</b><br>(Horizontal distance to perennial<br>lakes, ponds, rivers, streams, creeks,<br>irrigation canals and ditches)         | Less than 100 feet<br>100 feet to 1000 feet<br>Greater than 1000 feet | (20 points)<br>(10 points)<br>( 0 points) | <u>0</u> |

**RANKING SCORE (TOTAL POINTS):** 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 8/28/98Remediation Method: Excavation ☒Approx. cubic yards 60(check all appropriate  
conditions)Landfarmed ☒

Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_(i.e. landfarmed onsite,  
name and location of  
offsite facility)General Description of Remedial Action: ExcavationGroundwater Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit:

Sample location see Attached Documents

Closure Sampling:

(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)Sample depth 9'Sample date 8/28/98 Sample time 0745

Sample Results

Soil: Benzene (ppm) \_\_\_\_\_ Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_ Toluene (ppb) \_\_\_\_\_

Field Headspace (ppm) 0.0 Ethylbenzene (ppb) \_\_\_\_\_TPH (ppm) ND 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 BELIEFDATE 8/28/98 PRINTED NAME Jeffrey C. Blagg, P.E. #11607SIGNATURE Jeffrey C. Blagg AND TITLE PresidentAFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE  
TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.APPROVED: YES ☒ NO \_\_\_\_\_ (REASON) \_\_\_\_\_SIGNED: Keith C. Marshall DATE: 10-1-98

LOCATION NO: CA616

C.O.C. NO:

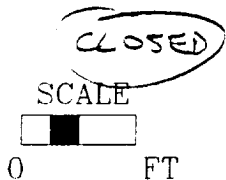
PAGE No: 1 of 1

DATE STARTED: 8/28/98  
DATE FINISHED: \_\_\_\_\_  
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 14 FT. x 17 FT. x 8 FT. DEEP. CUBIC YARDAGE: 60  
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFILL  
LAND USE: RANGE LEASE: CONTRACT #98 FORMATION: OK

|                                    |                                        |                                                                   |                                               |
|------------------------------------|----------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|
| FIELD NOTES & REMARKS:             |                                        | PIT LOCATED APPROXIMATELY <u>96</u> FT. <u>N6W</u> FROM WELLHEAD. |                                               |
| DEPTH TO GROUNDWATER: <u>2100'</u> | NEAREST WATER SOURCE: <u>21000'</u>    | NEAREST SURFACE WATER: <u>21000'</u>                              | CHECK ONE:                                    |
| NMOCD RANKING SCORE: <u>0</u>      | NMOCD TPH CLOSURE STD: <u>5000</u> PPM | <input checked="" type="checkbox"/> PIT ABANDONED                 | <input type="checkbox"/> STEEL TANK INSTALLED |
| SOIL AND EXCAVATION DESCRIPTION:   |                                        |                                                                   |                                               |

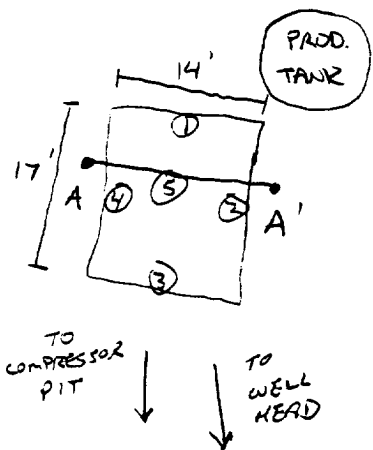
mostly dusky red silty sand to silty clay, non cohesive to slightly plastic, slightly moist, firm to stiff, no apparent staining observed, no apparent HC odor w/in excavation or in any of the OUM samples



FIELD 418.1 CALCULATIONS

| TIME | SAMPLE I.D. | LAB No:  | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|------|-------------|----------|------------|-----------|----------|---------|-----------|
| 0745 | ⑤ @ 9'      | TPH-2021 | 5          | 20        | 1:1      | 4       | ND        |
|      |             |          |            |           |          |         |           |
|      |             |          |            |           |          |         |           |

PIT PERIMETER  $\uparrow$  OVM RESULTS



OVM  
RESULTS



| SAMPLE<br>ID | FIELD HEADSPACE<br>PID (ppm) |      |
|--------------|------------------------------|------|
| 1 e 4'       | 0.0                          |      |
| 2 e 5'       | 0.0                          |      |
| 3 e 4'       | 0.0                          |      |
| 4 e 4'       | 0.6                          |      |
| 5 c 9'       | 0.0                          |      |
|              |                              |      |
|              |                              |      |
|              |                              |      |
|              |                              |      |
|              |                              |      |
| LAB SAMPLES  |                              |      |
| SAMPLE<br>ID | ANALYSIS                     | TIME |
|              |                              |      |
|              |                              |      |
|              |                              |      |
|              |                              |      |
|              |                              |      |

TRAVEL NOTES: CALLOUT: 8/25/98 - morn. ONSITE: 8/28/98 - morn.

# BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

## FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

|                    |            |                |          |
|--------------------|------------|----------------|----------|
| Client:            | Conoco     | Project #:     |          |
| Sample ID:         | 5 @ 9'     | Date Analyzed: | 08-28-98 |
| Project Location:  | Apache # 6 | Date Reported: | 08-28-98 |
| Laboratory Number: | TPH-2021   | Sample Matrix: | Soil     |

| Parameter                                   | Result, mg/kg | Detection Limit, mg/kg |
|---------------------------------------------|---------------|------------------------|
| -----                                       | -----         | -----                  |
| Total Recoverable<br>Petroleum Hydrocarbons | ND            | 20                     |

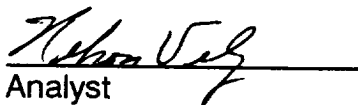
ND = Not Detectable at stated detection limits.

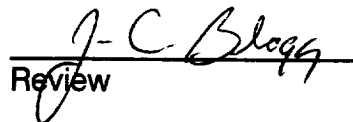
| QA/QC: | QA/QC Sample<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>*Diff. |
|--------|---------------------------|------------------------|-------------|
|        | -----                     | -----                  | -----       |
|        | 228                       | 244                    | 6.78        |

\* Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Production Tank Pit - CA616

  
Analyst

  
Review

# BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413  
Phone: (505)632-1199 Fax: (505)632-3903

## Field TPH-Worksheet

Max Characters: \*\*\*\*\*

Client: Conoco  
Sample ID: 5 @ 9'  
Project Location: Apache # 6  
Laboratory Number: TPH-2021

Project #:  
Date Analyzed: 08-28-98  
Date Reported: 08-28-98  
Sample Matrix: Soil

Sample Weight: 5.00 grams  
Volume Freon: 20.00 mL  
Dilution Factor: 1 (unitless)  
TPH Reading: 4 mg/kg

TPH Result: 16.0 mg/kg  
Reported TPH Result: 16 mg/kg  
Actual Detection Limit: 20.0 mg/kg  
Reported Detection Limit: 20 mg/kg

| QA/QC: | Original<br>TPH mg/kg | Duplicate<br>TPH mg/kg | %<br>Diff. |
|--------|-----------------------|------------------------|------------|
|        | -----                 | -----                  | -----      |
|        | 228                   | 244                    | 6.78       |

Comments: \*\*\*\*\*Max Characters\*\*\*\*\*

Comments: Production Tank Pit - CA616

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

CA616

SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

**ON-SITE SOIL REMEDIATION REPORT**

Operator: Conoco, Inc. Telephone: (505) 324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: APACHE #6

Location: Unit or Qtr/Qtr Sec M Sec 17 T26N R3W County RIO ARRIBA

Land Type: RANGE

Date Remediation Started: 8/28/98

Date Completed: 4/15/99

Remediation Method: Landfarmed ☒

Approx. cubic yards 410

Composted ☐

Other (APPROX. 400 C.Y. DISPOSED TO APACHE #7)

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa,  
or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

RANKING SCORE (TOTAL POINTS): 0

**Final Closure Sampling:**

Sampling Date: 4/13/99 Time: 1305

**Sample Results:**

Field Headspace (ppm) 0.0

TPH (ppm) 405 Method 8015

Other \_\_\_\_\_

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 4/15/99 PRINTED NAME Jeffrey C. Blagg, P.E. #11607

SIGNATURE Jeffrey C. Blagg AND TITLE President

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON) \_\_\_\_\_

SIGNED: Ken C. Marshall DATE: 6-3-99

|                       |                                                                                |                                                      |
|-----------------------|--------------------------------------------------------------------------------|------------------------------------------------------|
| CLIENT: <u>CONOCO</u> | BLAGG ENGINEERING, INC.<br>P.O. BOX 87, BLOOMFIELD, NM 87413<br>(505) 632-1199 | LOCATION NO: <u>CA 616</u><br>C.O.C. NO: <u>6642</u> |
|-----------------------|--------------------------------------------------------------------------------|------------------------------------------------------|

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

|                                                                   |                                             |                                     |                              |
|-------------------------------------------------------------------|---------------------------------------------|-------------------------------------|------------------------------|
| LOCATION NAME: <u>APACHE</u>                                      | WELL #: <u>6</u>                            | PITS: <u>COMPR., PROD.</u>          | DATE STARTED: <u>4/13/99</u> |
| QUAD/UNIT: <u>M</u> SEC: <u>17</u> TWP: <u>26N</u> RNG: <u>3W</u> | PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> | DATE FINISHED: _____                |                              |
| STRAK FOOTAGE: <u>SW14</u> <u>SW14</u>                            | CONTRACTOR: <u>JVC</u>                      | ENVIRONMENTAL SPECIALIST: <u>NV</u> |                              |

### REMEDIATION:

 REMEDIATION SYSTEM: LANDFARM

 APPROX. CUBIC YARDAGE: 410

 LAND USE: RANGE

 LIFT DEPTH (ft): 2-3

### FIELD NOTES & REMARKS:

 DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

 NMDC FARMING SCORE: 0 NMDC TPH CLOSURE STD: 5000 PPM 8/28/98

SOIL COLOR RANGE FROM DR. YELL. ORANGE TO DUSKY RED SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST TO MOIST FIRM. SAMPLING DEPTHS RANGE FROM 12-30 INCHES, NO APPARENT STRAINING OBSERVED. 'MED.' GRAY TO BLACK DISCOLORATION OBSERVED IN ALL SAMPLING PTS. EXCEPT ⑤, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

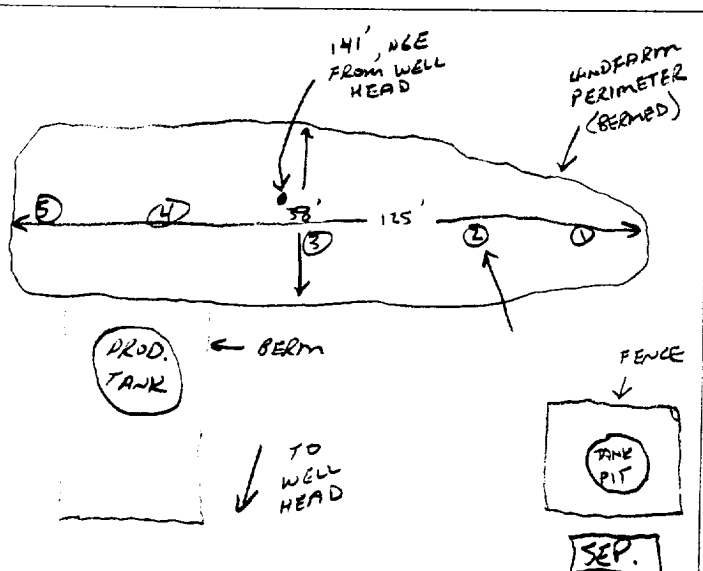
CLOSED

APPROX. 400 C.Y.  
DISPOSED TO APACHE #7

### FIELD 418.1 CALCULATIONS

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

### SKETCH/SAMPLE LOCATIONS



### OVM RESULTS

### LAB SAMPLES

| SAMPLE ID | FIELD HEADSPACE PID (ppm) | SAMPLE ID | ANALYSIS   | TIME | RESULTS |
|-----------|---------------------------|-----------|------------|------|---------|
| LF-1      | 0.0                       | LF-1      | TPH (8015) | 1305 | 405     |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |

### SCALE



### TRAVEL NOTES:

 CALLOUT: NA

 ONSITE: 4/13/99

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

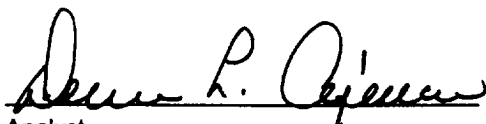
|                      |                 |                     |          |
|----------------------|-----------------|---------------------|----------|
| Client:              | Blagg / CONOCO  | Project #:          | 403410   |
| Sample ID:           | LF - 1          | Date Reported:      | 04-15-99 |
| Laboratory Number:   | F021            | Date Sampled:       | 04-13-99 |
| Chain of Custody No: | 6642            | Date Received:      | 04-13-99 |
| Sample Matrix:       | Soil            | Date Extracted:     | 04-14-99 |
| Preservative:        | Cool            | Date Analyzed:      | 04-15-99 |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 2.2                      | 0.2                      |
| Diesel Range (C10 - C28)     | 403                      | 0.1                      |
| Total Petroleum Hydrocarbons | 405                      | 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: Apache #6 Landfarm. 5 Pt. Composite.

  
Analyst

  
Review



## 6642

[illegible]

# 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:         | 04-15-TPH QA/QC    | Date Reported:      | 04-15-99 |
| Laboratory Number: | F017               | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 04-15-99 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | Sample   | Lab Result  | Reference   | % Recovery | Accept. Range |
|-------------------------|----------|-------------|-------------|------------|---------------|
| Gasoline Range C5 - C10 | 03-15-99 | 7.6679E-002 | 7.6541E-002 | 0.18%      | 0 - 15%       |
| Diesel Range C10 - C28  | 03-15-99 | 7.2197E-002 | 7.2081E-002 | 0.16%      | 0 - 15%       |

| Blank Conc. (mg/L)           | Lab Result | 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/L)  | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | 0.7    | 0.7       | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%       |

| Spike Conc. (mg/L)      | Sample | Lab Result | % Recovery | Accept. Range |           |
|-------------------------|--------|------------|------------|---------------|-----------|
| Gasoline Range C5 - C10 | 0.7    | 250        | 250        | 100%          | 75 - 125% |
| Diesel Range C10 - C28  | ND     | 250        | 250        | 100%          | 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 F017 - F022.

  
Analyst

  
Review

CA361

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

**ON-SITE SOIL REMEDIATION REPORT**

Operator: Conoco, Inc. Telephone: (505) 324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: APACHE # 7

Location: Unit or Qtr/Qtr Sec D Sec 20 T 26N R 3W County RIO ARIZONA

Land Type: RANGE

Date Remediation Started: 8/28/98

Date Completed: 4/15/99

Remediation Method: Landfarmed ☒

Approx. cubic yards 400

Composted ☐

Other SOIL DISPOSED FROM APACHE #6 (M-19-26-3)

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa,  
or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

RANKING SCORE (TOTAL POINTS): 0

**Final Closure Sampling:**

Sampling Date: 4/13/99 Time: 1210

**Sample Results:**

Field Headspace (ppm) 41.5

TPH (ppm) 1,140 Method 8015

Other \_\_\_\_\_

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 4/15/99 PRINTED NAME Jeffrey C. Blagg, P.E. #11607

SIGNATURE Jeffrey C. Blagg AND TITLE President

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON) \_\_\_\_\_

SIGNED: Ken C. Mando DATE: 6-3-99

|                      |                                                                                |                                                      |
|----------------------|--------------------------------------------------------------------------------|------------------------------------------------------|
| CLIENT <u>CONOCO</u> | BLAGG ENGINEERING, INC.<br>P.O. BOX 87, BLOOMFIELD, NM 87413<br>(505) 632-1199 | LOCATION NO: <u>CA 361</u><br>C.O.C. NO: <u>6641</u> |
|----------------------|--------------------------------------------------------------------------------|------------------------------------------------------|

# FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION (APACHE #6)

|                                 |                        |                                     |                             |
|---------------------------------|------------------------|-------------------------------------|-----------------------------|
| LOCATION NAME: <u>APACHE</u>    | WELL #: <u>7</u>       | PITS: <u>COMPR. PROD.</u>           | DATE STARTED: <u>4/1/99</u> |
| QUAD: <u>UNIT 0</u>             | SEC: <u>20</u>         | TWP: <u>26N</u>                     | RNG: <u>3W</u>              |
| PM: <u>NM</u>                   | CNTY: <u>RA</u>        | ST: <u>NM</u>                       | DATE FINISHED: _____        |
| STR: <u>FOOTAGE NW1/4 NW1/4</u> | CONTRACTOR: <u>JUC</u> | ENVIRONMENTAL SPECIALIST: <u>NV</u> |                             |

## SOIL REMEDIATION:

REMEDIALATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 400  
LAND USE: RANGE LIFT DEPTH (ft): 1.5-2

## FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOC BANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM 8/28/98

SOIL DISPOSED FROM APACHE #6

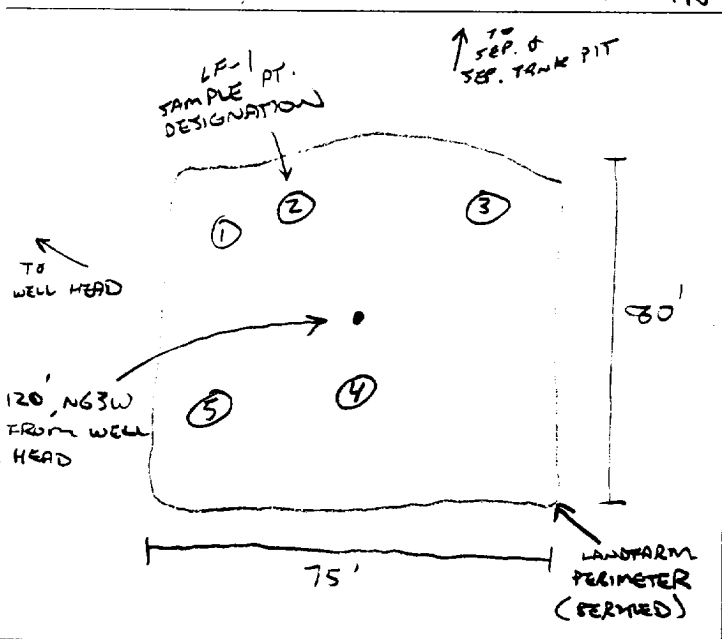
SOIL CONSISTED OF BK. YELL. BROWN SAND TO SATY SAND, NON COHESIVE SLIGHTLY MOIST, FIRM, SAMPLING DEPTHS RANGE FROM 8 - 18 INCHES, MED. GRAY DISCOLORATION OBSERVED C SAMPLE PTS. ③, ④, & ⑤, NO APPARENT STAINING OBSERVED, COLLECTED 3 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

## FIELD 418.1 CALCULATIONS

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

## SKETCH/SAMPLE LOCATIONS



## OVM RESULTS

## LAB SAMPLES

| SAMPLE ID | FIELD HEADSPACE PID (ppm) | SAMPLE ID | ANALYSIS   | TIME | RESULTS |
|-----------|---------------------------|-----------|------------|------|---------|
| LF-1      | 41.5                      | LF-1      | TPH (8015) | 1210 | 1,140   |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |

## SCALE



## TRAVEL NOTES:

CALLOUT: NA

ONSITE: 4/1/99

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

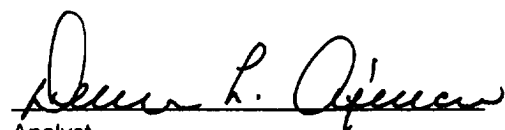
|                      |                 |                     |          |
|----------------------|-----------------|---------------------|----------|
| Client:              | Blagg / CONOCO  | Project #:          | 403410   |
| Sample ID:           | LF - 1          | Date Reported:      | 04-15-99 |
| Laboratory Number:   | F020            | Date Sampled:       | 04-13-99 |
| Chain of Custody No: | 6641            | Date Received:      | 04-13-99 |
| Sample Matrix:       | Soil            | Date Extracted:     | 04-14-99 |
| Preservative:        | Cool            | Date Analyzed:      | 04-15-99 |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH |

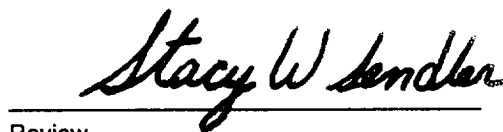
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 21.2                     | 0.2                      |
| Diesel Range (C10 - C28)     | 1,120                    | 0.1                      |
| Total Petroleum Hydrocarbons | 1,140                    | 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: Apache #7 Landfarm. 5 Pt. Composite.

  
Analyst

  
Review

6641

[illegible]

# 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:         | 04-15-TPH QA/QC    | Date Reported:      | 04-15-99 |
| Laboratory Number: | F017               | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 04-15-99 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | Sample   | Lab Result  | Acceptance Limit | Difference | Accept Range |
|-------------------------|----------|-------------|------------------|------------|--------------|
| Gasoline Range C5 - C10 | 03-15-99 | 7.6679E-002 | 7.6541E-002      | 0.18%      | 0 - 15%      |
| Diesel Range C10 - C28  | 03-15-99 | 7.2197E-002 | 7.2081E-002      | 0.16%      | 0 - 15%      |

| Blank Conc. (mg/kg)          | Acceptance Limit |
|------------------------------|------------------|
| Gasoline Range C5 - C10      | ND               |
| Diesel Range C10 - C28       | ND               |
| Total Petroleum Hydrocarbons | ND               |

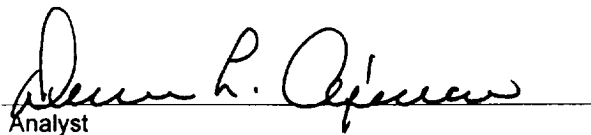
| Duplicate Conc. (mg/kg) | Sample | Lab Result | Difference | Accept Range |
|-------------------------|--------|------------|------------|--------------|
| Gasoline Range C5 - C10 | 0.7    | 0.7        | 0.0%       | 0 - 30%      |
| Diesel Range C10 - C28  | ND     | ND         | 0.0%       | 0 - 30%      |

| Spike Conc. (mg/kg)     | Sample | Lab Result | Recovery | Accept Range |
|-------------------------|--------|------------|----------|--------------|
| Gasoline Range C5 - C10 | 0.7    | 250        | 100%     | 75 - 125%    |
| Diesel Range C10 - C28  | ND     | 250        | 100%     | 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 F017 - F022.

  
Analyst

  
Review