

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

*Don J. S. Foyat*  
*Approved*  
*2/26/97*

**PIT REMEDIATION AND CLOSURE REPORT**

CA360

Operator: Conoco, Inc. Telephone: (505) 324-5894  
Address: 3315 Bloomfield Hwy. Farmington, NM 87401  
Facility or Well Name: JICARILLA D20  
Location: Unit or Qtr/Qtr Sec N Sec 31 T 26N R 3W County RIO ARRIBA  
Pit Type: Separator ☒ Dehydrator ☐ Other PRODUCTION TANK COMBO  
Land Type: RANGE

Pit Location: (Attach diagram) Pit dimensions: length 34', width 26', depth 6'  
Reference: wellhead ☒, other ☐  
Footage from reference: 87'  
Direction from reference: 30 Degrees ☐ East of ☒ West North ☐ South ☒

Depth To Groundwater:  
(Vertical distance from  
contaminants to seasonal  
high water elevation of  
groundwater)

RECEIVED  
OCT 29 1996

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

Distance to an Ephemeral Stream  
(Dry Wash greater than  
ten feet in width)

OIL CON. DIV.  
DIST. 3

Less than 100 feet (10 points)  
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond  
(Dry Wash greater than  
ten feet in width)

Less than 100 feet (10 points)  
Greater than 100 feet (0 points) 0

Wellhead Protection Area:  
(Less than 200 feet from a private  
domestic water source, or: less than  
1000 feet from all other water sources)

Yes (20 points)  
No (0 points) 0

Distance To Surface Water:  
(Horizontal distance to perennial  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches)

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

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 4/24/96  
Remediation Method: Excavation ☒ Approx. cubic yards 175  
(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 . ENTIRE EXCAVATION AREA  
CONSIST OF BEDROCK

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

Final Pit: Sample location SEE CLOSURE VERIFICATION - FIELD REPORT  
Closure Sampling: ATTACHED.  
(if multiple samples, attach sample results and diagram of sample locations and depths)  
Sample depth 6'  
Sample date 4/24/96 Sample time 1040

## Sample Results

|                 |       |             |                |       |       |
|-----------------|-------|-------------|----------------|-------|-------|
| Soil: Benzene   | (ppm) | _____       | Water: Benzene | (ppb) | _____ |
| Total BTEX      | (ppm) | _____       | Toluene        | (ppb) | _____ |
| Field Headspace | (ppm) | <u>29.3</u> | Ethylbenzene   | (ppb) | _____ |
| TPH             | (ppm) | _____       | 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 APRIL 24, 1996 PRINTED NAME JEFFREY C. BLACK  
SIGNATURE Jeffrey C. Black AND TITLE P.E. # 11607

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: Jeffrey C. Black DATE: 4/25/96

|                       |  |   |
|-----------------------|--|---|
| CLIENT: <u>CONOCO</u> | BLAGG ENGINEERING, INC.<br>P.O. BOX 87, BLOOMFIELD, NM 87413<br>(505) 632-1199 | LOCATION NO: <u>CA360</u><br>C.D.C. NO: _____ |
|-----------------------|--|---|

|                                    |                             |   |
|------------------------------------|-----------------------------|---|
| FIELD REPORT: CLOSURE VERIFICATION |                             | PAGE No: <u>1</u> of <u>1</u>   |
| LOCATION: NAME: <u>JICARILLA</u>   | WELL #: <u>D 20</u>         | PIT: <u>SEP/PROD.</u>   |
| QUAD/UNIT: <u>N</u>                | SEC: <u>31</u>              | TWP: <u>26N</u> RING: <u>3W</u> PM: <u>NN</u> CNTY: <u>RA</u> ST: <u>NM</u> |
| QTR/FOOTAGE: <u>SE 1/4 SW 1/4</u>  | CONTRACTOR: <u>P+S/ACME</u> |   |
|                                    |                             | DATE STARTED: <u>4/24/96</u><br>DATE FINISHED: _____                        |
|                                    |                             | ENVIRONMENTAL SPECIALIST: <u>NV</u>   |

EXCAVATION APPROX. 34 FT. x 26 FT. x 6 FT. DEEP. CUBIC YARDAGE: 175

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED

LAND USE: RANGE LEASE: CONTRACT #100 FORMATION: \_\_\_\_\_

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 87 FT. S30W FROM WELLHEAD.

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

NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

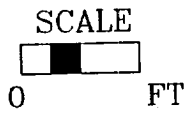
ENTIRE EXCAVATION IN BEDROCK (SHALE - SIDEWALLS, SANDSTONE - BOTTOM),  
MOD. BROWN TO LT. GRAY (BOTTOM) IN COLOR, SLIGHT HC ODOR IN  
EAST SIDEWALL OVM SAMPLE ONLY.

NO TPH ANALYSIS CONDUCTED DUE TO EXCAVATION BEING ENTIRELY  
BEDROCK.

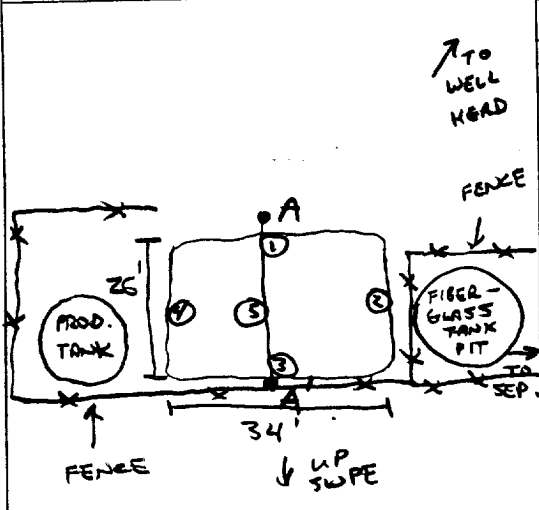
ENTIRE EXCAVATION  
IN BEDROCK

FIELD 418.1 CALCULATIONS

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



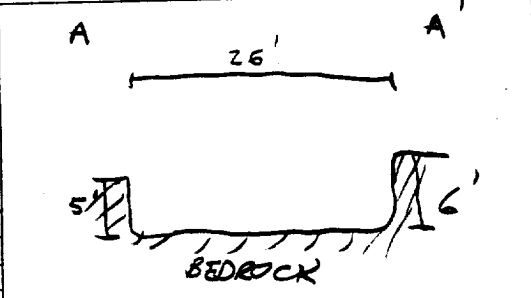
PIT PERIMETER



OVM RESULTS

| SAMPLE ID      | FIELD HEADSPACE PID (ppm) |
|----------------|---------------------------|
| 1 @ 3'         | 0.0                       |
| 2 @ 3'         | 87.0                      |
| 3 @ 3'         | 2.0                       |
| 4 @ 3'         | 28.8                      |
| 5 @ 6'         | 29.3                      |
| COLLECTED 1040 |                           |

PIT PROFILE



LAB SAMPLES

| SAMPLE ID | ANALYSIS | TIME |
|-----------|----------|------|
|           |          |      |
|           |          |      |
|           |          |      |
|           |          |      |

TRAVEL NOTES: CALLOUT: 4/23/96 ONSITE: 4/24/96

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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:** JICARILLA 020  
**Location:** Unit or Qtr/Qtr Sec N Sec 31 T 26N R 3W County RIO ARRIBA  
**Land Type:** RANGE

**Date Remediation Started:** 4/23/96 **Date Completed:** \_\_\_\_\_  
**Remediation Method:** Landfarmed X Approx. cubic yards 175  
Composted \_\_\_\_\_  
Other \_\_\_\_\_

|  |   |
|--|---|
| <p><b>Depth To Groundwater:</b> (pts.) <u>0</u><br/><b>Distance to an Ephemeral Stream</b> (pts.) <u>0</u><br/><b>Distance to Nearest Lake, Playa, or Watering Pond</b> (pts.) <u>0</u><br/><b>Wellhead Protection Area:</b> (pts.) <u>0</u><br/><b>Distance To Surface Water:</b> (pts.) <u>0</u><br/><b>RANKING SCORE (TOTAL POINTS):</b> <u>0</u></p> | <p style="text-align: center;"><b>Final Closure Sampling:</b></p> <p><b>Sampling Date:</b> <u>6/5/96</u> <b>Time:</b> <u>1300</u></p> <p><b>Sample Results:</b></p> <p>Field Headspace (ppm) <u>6.0</u><br/>TPH (ppm) <u>1.7</u> Method <u>8015</u><br/>Other _____</p> |
|--|---|

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

**DATE** 6-6-96 **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 X NO \_\_\_\_\_ (REASON) \_\_\_\_\_

**SIGNED:** K. C. Mammola **DATE:** 6-6-96

|                       |  |   |
|-----------------------|--|---|
| CLIENT: <u>CONOCO</u> | BLAGG ENGINEERING, INC.<br>P.O. BOX 87, BLOOMFIELD, NM 87413<br>(505) 632-1199 | LOCATION NO: <u>CA360</u><br>C.D.C. NO: <u>4729</u> |
|-----------------------|--|---|

# FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

|                                  |                                 |                                     |                             |
|----------------------------------|---------------------------------|-------------------------------------|-----------------------------|
| LOCATION: NAME: <u>JICARILLA</u> | WELL #: <u>020</u>              | PITS: <u>SEP/PROD</u>               | DATE STARTED: <u>6/5/96</u> |
| QUAD/UNIT: <u>N</u>              | SEC: <u>31</u>                  | TWP: <u>26N</u>                     | RNG: <u>3W</u>              |
| PM: <u>NM</u>                    | CNTY: <u>RA</u>                 | ST: <u>NM</u>                       | DATE FINISHED: _____        |
| QTR/FOOTAGE: <u>SE/4 SW/4</u>    | CONTRACTOR: <u>P&amp;S/ACME</u> | ENVIRONMENTAL SPECIALIST: <u>NV</u> |                             |

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMED

APPROX. CUBIC YARDAGE: 175

LAND USE: RANGE

LIFT DEPTH (ft): 0.5-2.0'

## FIELD NOTES & REMARKS:

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

NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

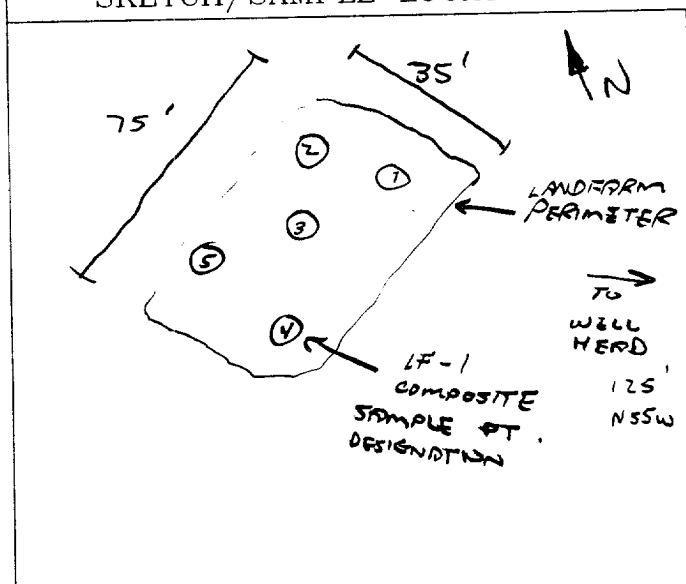
5 FT. COMPOSITE SAMPLE COLLECTED, SOIL MOSTLY DRY TO SLIGHTLY MOIST SAMPLE PTS. COLLECTED @ VARIOUS DEPTHS RANGING FROM 0.5 - 1.5' BELOW LANDFARM SURFACE. NO HC ODOR DETECTED IN OVM SAMPLE, NO PHYSICAL EVIDENCE OF ANY GROSS STAINED AREAS ON LANDFARM SURFACE OR WITHIN INDIVIDUAL SAMPLE POINTS.

**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      | 6.0                       | LF-1      | TPH (8015) | 1300 | 1.7     |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |
|           |                           |           |            |      |         |

## SCALE



## TRAVEL NOTES:

CALLOUT: 6/5/96 MORN. ONSITE: 6/5/96 AFTER.

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

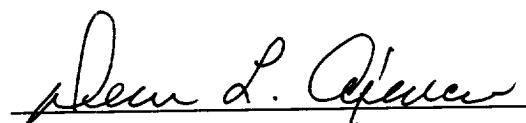
|                      |                 |                     |          |
|----------------------|-----------------|---------------------|----------|
| Client:              | Blagg / Conoco  | Project #:          | 04034    |
| Sample ID:           | LF - 1          | Date Reported:      | 06-06-96 |
| Laboratory Number:   | A200            | Date Sampled:       | 06-05-96 |
| Chain of Custody No: | 4729            | Date Received:      | 06-06-96 |
| Sample Matrix:       | Soil            | Date Extracted:     | 06-06-96 |
| Preservative:        | Cool            | Date Analyzed:      | 06-06-96 |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | 1.7                      | 0.1                      |
| Total Petroleum Hydrocarbons | 1.7                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla D20 Landfarm. 5 pt. Composite Sample.

  
Analyst

  
Review

San Juan Puerto Rico Form 579-81