

**Deputy Oil & Gas Inspector**

APR 10 1998

State of New Mexico  
Geology, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
2040 S. PACHECO  
Santa Fe, New Mexico 87505

Submit 1 copy to  
Appropriate District  
and 1 copy to  
Santa Fe Office

## PIT REMEDIATION AND CLOSURE REPORT

*Approved*

Operator: Apache Corporation Telephone: 505-325-0318

Address: 2855 Southside River Road, Suite A, Farmington, NM 87401

Facility or Well Name: Apache # 138

Location: Unit or Qtr/Qtr Sec G Sec 12 T 24 N R 4W County Rio Arriba

Pit Type: Separator: \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other TANK DRAIN (Blow Pit)

Land Type: Jicarilla Tribal

**Beginning Dimensions**

Pit Location: SW Pit Dimensions: Length 18' 30' Width 18' 28' Depth 4' 10'

(Attach diagram)

Reference: Wellhead X Other \_\_\_\_\_

Footage from reference: 75'

Direction from reference: 55 Degrees XX East North X  
of West South \_\_\_\_\_

**Depth To Groundwater:**

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

|                       |             |          |
|-----------------------|-------------|----------|
| Less than 50 feet     | (20 points) | _____    |
| 50 feet to 99 feet    | (10 points) | _____    |
| Greater than 100 feet | (0 points)  | <u>0</u> |

**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)  | <u>0</u> |

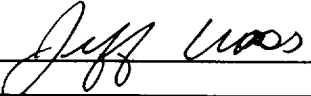
**Distance To Surface Water:**

(Horizontal distance to perennial  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches)

|                        |             |          |
|------------------------|-------------|----------|
| Less than 200 feet     | (20 points) | _____    |
| 200 feet to 1000 feet  | (10 points) | _____    |
| Greater than 1000 feet | (0 points)  | <u>0</u> |

RANKING SCORE (TOTAL POINTS) 0

**RECEIVED**  
DEC 10 1997  
OIL CON. DIV.  
DIST. 3

|                                                                                                                     |  |                                                                                            |                        |                              |                                         |
|---------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------------|
| <b>Date Remediation Started:</b>                                                                                    |  | <u>8/21/95</u>                                                                             | <b>Date Completed:</b> |                              | <u>8/18/97</u>                          |
| <b>Remediation Method:</b><br>(Check all appropriate sections)                                                      |  | <b>Excavatio</b>                                                                           | <u>XXX</u>             | <b>Approx. cubic yards</b>   | <u>312</u>                              |
|                                                                                                                     |  | <b>Landfarmed</b>                                                                          | <u>XX</u>              | <b>Insitu Bioremediation</b> |                                         |
|                                                                                                                     |  | <b>Other</b>                                                                               |                        |                              |                                         |
| <b>Remediation Location:</b><br>(i.e. landfarmed onsite, name and location of offsite facility)                     |  | <b>Onsite</b>                                                                              | <u>XX</u>              | <b>Offsite</b>               |                                         |
| <b>General Description of Remedial Action:</b>                                                                      |  |                                                                                            |                        |                              |                                         |
| <u>Excavate pit to 10', took PID readings.</u>                                                                      |  |                                                                                            |                        |                              |                                         |
| <u>Spread soil on location for remediation. Took soil samples.</u>                                                  |  |                                                                                            |                        |                              |                                         |
|                                                                                                                     |  |                                                                                            |                        |                              |                                         |
|                                                                                                                     |  |                                                                                            |                        |                              |                                         |
|                                                                                                                     |  |                                                                                            |                        |                              |                                         |
| <b>Groundwater Encountered:</b>                                                                                     |  |                                                                                            |                        |                              |                                         |
|                                                                                                                     |  | <b>No</b>                                                                                  | <u>X</u>               | <b>Yes</b>                   | <u>          </u>                       |
|                                                                                                                     |  |                                                                                            |                        | <b>Depth</b>                 | <u>          </u>                       |
| <b>Final Pit:</b>                                                                                                   |  |                                                                                            |                        |                              |                                         |
| <b>Sample location</b>                                                                                              |  | <u>5 point composite taken from pit sidewalls and pit bottom center</u>                    |                        |                              |                                         |
| <b>Closure Sampling:</b><br>(in multiple samples, attach sample results and diagram of sample locations and depths) |  |                                                                                            |                        |                              |                                         |
| <b>Sample depth</b>                                                                                                 |  | <u>8 to 10" into pit sidewalls 10" into pit bottom</u>                                     |                        |                              |                                         |
| <b>Sample Date</b>                                                                                                  |  | <u>9/15/97</u>                                                                             | <b>Sample Time</b>     |                              | <u>3:31 P.M.</u>                        |
| <b>Sample results</b>                                                                                               |  |                                                                                            |                        |                              |                                         |
| Benzene                                                                                                             |  | (ppm)                                                                                      | <u>ND</u>              |                              |                                         |
| Total BTEX                                                                                                          |  | (ppm)                                                                                      | <u>ND</u>              |                              |                                         |
| Field Headspace                                                                                                     |  | (ppm)                                                                                      | <u>1.16</u>            |                              |                                         |
| TPH                                                                                                                 |  |                                                                                            | <u>510</u>             |                              |                                         |
| <b>Groundwater Sample:</b>                                                                                          |  |                                                                                            |                        |                              |                                         |
|                                                                                                                     |  | <b>Yes</b>                                                                                 | <u>          </u>      | <b>No</b>                    | <u>X</u> (If yes attach sample results) |
| <b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.</b>     |  |                                                                                            |                        |                              |                                         |
| <b>DATE</b>                                                                                                         |  | <u>November 5, 1997</u>                                                                    | <b>PRINTED NAME</b>    |                              | <u>Jeff Cross</u>                       |
| <b>SIGNATURE</b>                                                                                                    |  | <u></u> | <b>AND TITLE</b>       |                              | <u>Project Manager</u>                  |

**Submit 1 copy to  
Natural Resource Dept.  
and Oil & Gas Administration**

|                                                           |                           |                                               |               |                              |             |                          |
|-----------------------------------------------------------|---------------------------|-----------------------------------------------|---------------|------------------------------|-------------|--------------------------|
| Operator:                                                 |                           | <u>APACHE CORPORATION</u>                     |               | Telephone                    |             | <u>505-325-0318</u>      |
| Address:                                                  |                           | <u>304 N. BEHREND, FARMINGTON, N.M. 84701</u> |               |                              |             |                          |
| Facility or Well Name:                                    |                           | <u>APACHE # 138</u>                           |               |                              |             |                          |
| Location:                                                 | Unit or Qtr/Qtr Sec       | <u>G</u>                                      | <u>SEC 12</u> | <u>T 24N</u>                 | R <u>4W</u> | County <u>RIO ARRIBA</u> |
| Pit Type:                                                 | Separator:                | <u>Dehydrator</u>                             | Other         | <u>TANK DRAIN (BLOW PIT)</u> |             |                          |
| Land Type:                                                |                           | <u>JIC. TRIBAL</u>                            |               |                              |             |                          |
| Pit Location:<br>(Attach diagram)                         |                           | Pit Dimensions:                               | Length        | <u>30'</u>                   | Width       | <u>28'</u>               |
|                                                           |                           |                                               | Depth         | <u>10'</u>                   |             |                          |
|                                                           | Reference:                | Wellhead                                      | <u>XXX</u>    | Other                        |             |                          |
|                                                           | Footage from reference:   | <u>75'</u>                                    |               |                              |             |                          |
|                                                           | Direction from reference: | <u>55</u>                                     | Degrees       | <u>XX</u>                    | East        | North <u>X</u>           |
|                                                           |                           |                                               |               |                              | West        | South                    |
| <b>Depth To Groundwater:</b>                              |                           | Less than 50 feet                             |               | (20 points)                  |             | <u>          </u>        |
| (vertical distance from                                   |                           | 50 feet to 99 feet                            |               | (10 points)                  |             | <u>          </u>        |
| contaminants to seasonal                                  |                           | Greater than 100 feet                         |               | ( 0 points)                  |             | <u>    0    </u>         |
| high water elevation of                                   |                           |                                               |               |                              |             |                          |
| groundwater)                                              |                           |                                               |               |                              |             |                          |
| <b>Distance to an Ephemeral Stream:</b>                   |                           | Less than 100 feet                            |               | (10 points)                  |             | <u>          </u>        |
| (Downgradient dry wash greater than                       |                           | Greater than 100 feet                         |               | ( 0 points)                  |             | <u>    0    </u>         |
| ten feet in width                                         |                           |                                               |               |                              |             |                          |
| <b>Distance to Nearest Lake, Playa, or Watering Pond:</b> |                           | Less than 100 feet                            |               | (10 points)                  |             | <u>          </u>        |
| (Downgradient lakes, playas and                           |                           | Greater than 100 feet                         |               | ( 0 points)                  |             | <u>    0    </u>         |
| livestock or wildlife watering ponds)                     |                           |                                               |               |                              |             |                          |
| <b>Wellhead Protection Area:</b>                          |                           | Yes                                           |               | (20 points)                  |             | <u>          </u>        |
| (Less than 200 feet from a private                        |                           | No                                            |               | ( 0 points)                  |             | <u>    0    </u>         |
| domestic water source, or less than                       |                           |                                               |               |                              |             |                          |
| 1000 feet from all other water sources)                   |                           |                                               |               |                              |             |                          |
| <b>Distance To Surface Water:</b>                         |                           | Less than 100 feet                            |               | (20 points)                  |             | <u>          </u>        |
| (Horizontal distance to perennial                         |                           | 100 feet to 1000 feet                         |               | (10 points)                  |             | <u>          </u>        |
| lakes, ponds, rivers, streams, creeks,                    |                           | Greater than 1000 feet                        |               | ( 0 points)                  |             | <u>    0    </u>         |
| irrigation canals and ditches)                            |                           |                                               |               |                              |             |                          |
| RANKING SCORE (TOTAL POINTS)                              |                           |                                               |               |                              |             | <u>    0    </u>         |

|                                                                                                                                                           |                 |                                                                                          |             |                                              |               |                        |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------|-------------|----------------------------------------------|---------------|------------------------|-----------|
| <b>Date Remediation Started:</b>                                                                                                                          |                 | <u>8/21/95</u>                                                                           |             | <b>Date Completed:</b>                       |               | <u>8/18/97</u>         |           |
| <b>Remediation Method:</b><br>(Check all appropriate sections)                                                                                            |                 | Excavation <u>XXX</u>                                                                    |             | Approx. cubic yards                          |               | <u>312</u>             |           |
|                                                                                                                                                           |                 | Landfarmed <u>XX</u>                                                                     |             | Insitu Bioremediation                        |               |                        |           |
|                                                                                                                                                           |                 | Other _____                                                                              |             |                                              |               |                        |           |
| <b>Remediation Location:</b><br>(i.e. landfarmed onsite, name and location of offsite facility)                                                           |                 | Onsite <u>XX</u>                                                                         |             | Offsite _____                                |               |                        |           |
| <b>General Description of Remedial Action:</b> <u>Excavate pit to 10', took PID readings. spread soil on location for remediation. Took soil samples.</u> |                 |                                                                                          |             |                                              |               |                        |           |
| <b>Groundwater Encountered:</b>                                                                                                                           |                 | No <u>XXX</u>                                                                            |             | Yes _____                                    |               | Depth _____            |           |
| <b>Final Pit:</b>                                                                                                                                         |                 | Sample location <u>5 point composite taken from pit sidewalls and pit bottom center.</u> |             |                                              |               |                        |           |
| <b>Closure Sampling:</b><br>(in multiple samples, attach sample results and diagram of sample locations and depths)                                       |                 | Sample depth <u>8" to 10" into pit side walls, 10" into pit bottom.</u>                  |             |                                              |               |                        |           |
| Sample Date                                                                                                                                               |                 | <u>9/15/95</u>                                                                           |             | Sample Time                                  |               | <u>3:31PM</u>          |           |
| Sample results                                                                                                                                            |                 |                                                                                          |             |                                              |               |                        |           |
| Soil:                                                                                                                                                     | Benzene         | (ppm)                                                                                    | <u>ND</u>   | Water:                                       | Benzene       | (ppb)                  | <u>NA</u> |
|                                                                                                                                                           | Total BTEX      | (ppm)                                                                                    | <u>ND</u>   |                                              | Toluene       | (ppb)                  | <u>NA</u> |
|                                                                                                                                                           | Field Headspace | (ppm)                                                                                    | <u>1.16</u> |                                              | Ethylbenzene  | (ppb)                  | <u>NA</u> |
|                                                                                                                                                           | TPH             | (ppm)                                                                                    | <u>510</u>  |                                              | Total Xylenes | (ppb)                  | <u>NA</u> |
| <b>Groundwater Sample:</b>                                                                                                                                |                 | Yes _____                                                                                |             | No <u>XXX</u> (If yes attach sample results) |               |                        |           |
| <b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.</b>                                           |                 |                                                                                          |             |                                              |               |                        |           |
| <b>DATE</b>                                                                                                                                               |                 | <u>8-26-97</u>                                                                           |             | <b>PRINTED NAME</b>                          |               | <u>JEFF CROSS</u>      |           |
| <b>SIGNATURE</b>                                                                                                                                          |                 | <u>Jeff Cross</u>                                                                        |             | <b>AND TITLE</b>                             |               | <u>PROJECT MANAGER</u> |           |
| <b>AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.</b>            |                 |                                                                                          |             |                                              |               |                        |           |
| <b>APPROVED:</b>                                                                                                                                          |                 | YES <u>X</u>                                                                             |             | NO _____ (REASON) _____                      |               |                        |           |
| <b>SIGNED:</b>                                                                                                                                            |                 | <u>Ken C. Marshall</u>                                                                   |             | <b>DATE:</b>                                 |               | <u>9-2-97</u>          |           |

NORTH

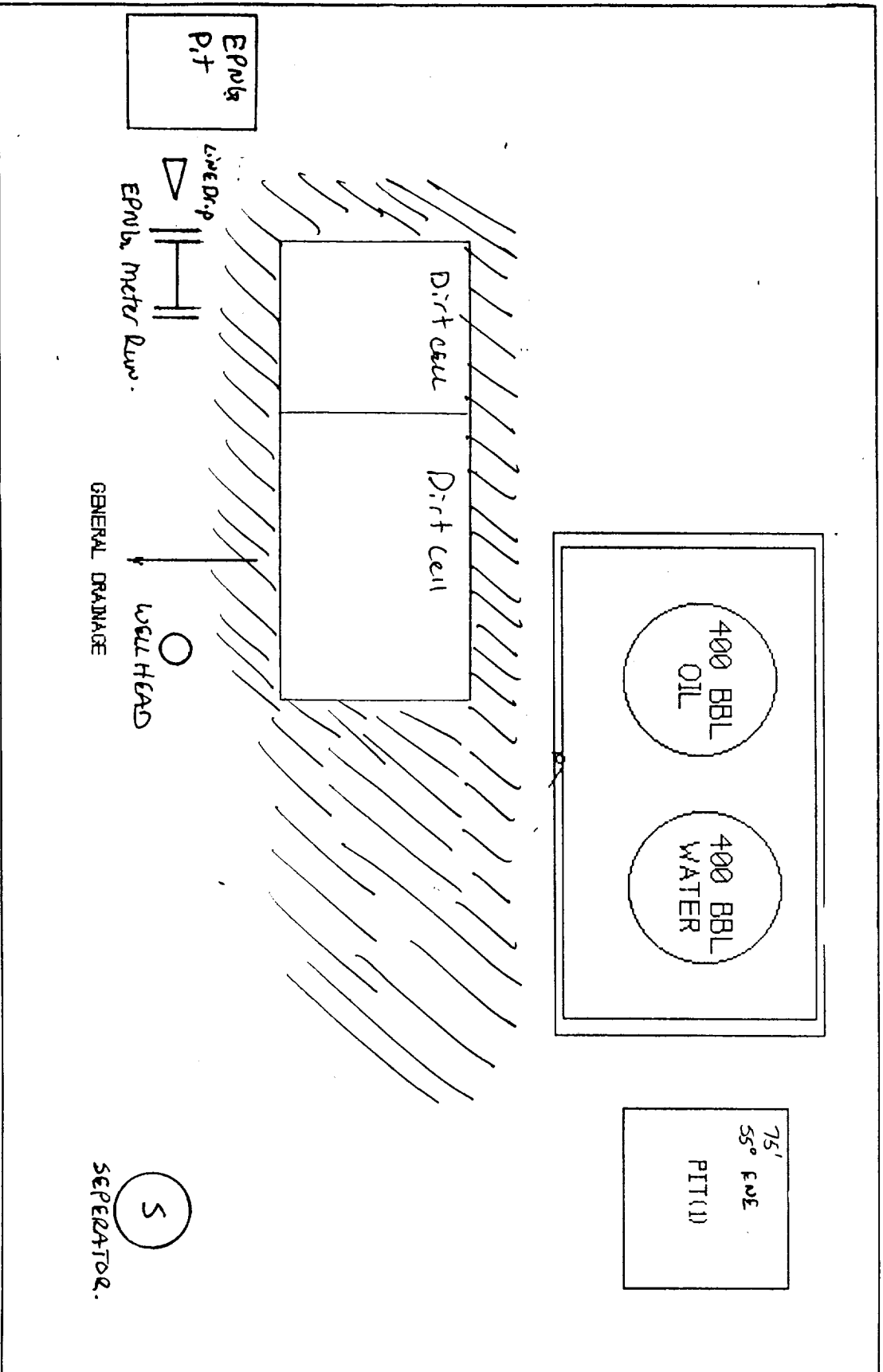
//// = spread AREA

APACHE

APACHE NUMBER 138 Lease # JAT 126  
SW/4 NE/4 (G)

SECTION 12, TOWNSHIP 24N, RANGE 4W  
RIO ARriba COUNTY, NM

Revised 6/1/97 MG



# APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 138  
PIT COUNT: 1

|                                                    |          |
|----------------------------------------------------|----------|
| JICARILLA APACHE TRIBAL EPO<br>REVIEW AND APPROVAL |          |
| EPO REPRESENTATIVE                                 | K.C.     |
| DATE OF REVIEW:                                    | 10/30/95 |

|                |           |            |        | EXCAVATION |                |           |            |         |        |
|----------------|-----------|------------|--------|------------|----------------|-----------|------------|---------|--------|
| DIMENSIONS     |           | START      |        | FINISH     |                |           |            |         |        |
|                | W'        | L'         | D'     |            | W'             | L'        | D'         | CU.YDS. |        |
| PIT 1          | 18'       | 18'        | 4'     | PIT 1      | 28'            | 30'       | 10         | 312.0   |        |
| PIT 2          |           |            |        | PIT 2      |                |           |            |         |        |
| PIT 3          |           |            |        | PIT 3      |                |           |            |         |        |
| DATE: 08/21/95 |           | PIT 1@ 08' | PIT 2@ | PIT 3@     | DATE: 09/15/95 |           | PIT 1@ 10' | PIT 2@  | PIT 3@ |
| P.<br>I.<br>D. | CENTER    | 982.0      |        |            | P.<br>I.<br>D. | CENTER    | 2.1        |         |        |
|                | NW CORNER | 756.0      |        |            |                | NW CORNER | 1.2        |         |        |
|                | NE CORNER | 795.0      |        |            |                | NE CORNER | 0.8        |         |        |
|                | SW CORNER | 1025.0     |        |            |                | SW CORNER | 0.9        |         |        |
|                | SE CORNER | 1184.0     |        |            |                | SE CORNER | 0.8        |         |        |

## NOTES:

08/21/95 Excavate to 10' staining w/light odor to 8'.

\*High TPH & BTEX levels from 08/21 sampling @ 8'.

## SOIL SAMPLING

| DATE: 08/21/95 |           | PIT 1@ 08' | PIT 2@ | PIT 3@ | ANALYSIS RESULTS |         |       | PER LAB: | ASSAIGAI |
|----------------|-----------|------------|--------|--------|------------------|---------|-------|----------|----------|
| P.<br>I.<br>D. | CENTER    | 982.0      |        |        | PIT NO.          | TPH     | BTEX  | WITNESS  | DATE     |
|                | NW CORNER | 756.0      |        |        | 1                | 13000.0 | 201.0 | IF&S     | 08/21/95 |
|                | NE CORNER | 795.0      |        |        |                  |         |       |          |          |
|                | SW CORNER | 1025.0     |        |        |                  |         |       |          |          |
|                | SE CORNER | 1184.0     |        |        |                  |         |       |          |          |

## RE-SAMPLE OR CELL(S) SAMPLE

| DATE: 09/15/95 |           | PIT 1@ 10' | PIT 2@ | PIT 3@ | ANALYSIS RESULTS |       |      | PER LAB: | ASSAIGAI |
|----------------|-----------|------------|--------|--------|------------------|-------|------|----------|----------|
| P.<br>I.<br>D. | CENTER    | 2.1        |        |        | PIT NO.          | TPH   | BTEX | WITNESS  | DATE     |
|                | NW CORNER | 1.2        |        |        | 1                | 510.0 | ND   | JDT      | 09/15/95 |
|                | NE CORNER | 0.8        |        |        |                  |       |      |          |          |
|                | SW CORNER | 0.9        |        |        |                  |       |      |          |          |
|                | SE CORNER | 0.8        |        |        |                  |       |      |          |          |

## RE-SAMPLE OR CELL(S) SAMPLE

| DATE:          |           | PIT 1@ | PIT 2@ | PIT 3@ | ANALYSIS RESULTS |     |      | PER LAB: |      |
|----------------|-----------|--------|--------|--------|------------------|-----|------|----------|------|
| P.<br>I.<br>D. | CENTER    |        |        |        | PIT NO.          | TPH | BTEX | WITNESS  | DATE |
|                | NW CORNER |        |        |        |                  |     |      |          |      |
|                | NE CORNER |        |        |        |                  |     |      |          |      |
|                | SW CORNER |        |        |        |                  |     |      |          |      |
|                | SE CORNER |        |        |        |                  |     |      |          |      |

## TPH & BTEX ANALYSIS

**Notes:**

| PID READINGS |         |                  |             |               | Site Number: 138                                                            | Notes: |
|--------------|---------|------------------|-------------|---------------|-----------------------------------------------------------------------------|--------|
| Date         | Pit No. | Interval (Depth) | Location    | Reading (ppm) |                                                                             |        |
| 8/21/95      | 1       | 8'               | Center      | 982           | Starting Depth: 4'. Dug down to 8', took readings along w/composite sample. |        |
| 8/21/95      | 1       | 8'               | N.W. Corner | 756           |                                                                             |        |
| 8/21/95      | 1       | 8'               | N.E. Corner | 795           |                                                                             |        |
| 8/21/95      | 1       | 8'               | S.E. Corner | 1025          |                                                                             |        |
| 8/21/95      | 1       | 8'               | S.W. Corner | 1184          |                                                                             |        |
|              |         |                  |             |               |                                                                             |        |
| 09/15/95     | 1       | 10'              | Center      | 2.1           | PID Readings of samples before sending to lab.                              |        |
| 09/15/95     | 1       | 10'              | N.W. Corner | 1.2           |                                                                             |        |
| 09/15/95     | 1       | 10'              | N.E. Corner | 0.8           |                                                                             |        |
| 09/15/95     | 1       | 10'              | S.E. Corner | 0.9           |                                                                             |        |
| 09/15/95     | 1       | 10'              | S.W. Corner | 0.8           |                                                                             |        |
|              |         |                  |             |               |                                                                             |        |
|              |         |                  |             |               |                                                                             |        |
|              |         |                  |             |               |                                                                             |        |
|              |         |                  |             |               |                                                                             |        |
|              |         |                  |             |               |                                                                             |        |

Lab ID: 9509143-14A  
Sample ID: AP# 116

Collected: 09/15/95 14:46:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| Ethylbenzene     | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| P-&m-Xylene      | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| O-Xylene         | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |

Lab ID: 9509143-14B  
Sample ID: AP# 116

Collected: 09/15/95 14:46:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCs DIESEL/CAL DHS 8015M |          |       |       |     |           |          |
| Diesel                   | 220      | mg/Kg | 5.0   | 20  | 09/26/95  | SLFTD45  |
| HCs DSL XT/CAL DHS 8015M | 09/20/95 | N/A   |       |     |           |          |

Lab ID: 9509143-15A  
Sample ID: AP# 118

Collected: 09/15/95 15:03:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 500 | 09/26/95  | SBTXME078 |
| Toluene          | ND     | mg/Kg | 0.0010 | 500 | 09/26/95  | SBTXME078 |
| Ethylbenzene     | 0.81   | mg/Kg | 0.0010 | 500 | 09/26/95  | SBTXME078 |
| P-&m-Xylene      | 4.7    | mg/Kg | 0.0010 | 500 | 09/26/95  | SBTXME078 |
| O-Xylene         | 1.2    | mg/Kg | 0.0010 | 500 | 09/26/95  | SBTXME078 |

Lab ID: 9509143-15B  
Sample ID: AP# 118

Collected: 09/15/95 15:03:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCs DIESEL/CAL DHS 8015M |          |       |       |     |           |          |
| Diesel                   | 450      | mg/Kg | 5.0   | 20  | 09/26/95  | SLFTD45  |
| HCs DSL XT/CAL DHS 8015M | 09/20/95 | N/A   |       |     |           |          |

Lab ID: 9509143-16A  
Sample ID: AP# 138

Collected: 09/15/95 15:31:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |

Lab ID: 9509143-16A  
Sample ID: AP# 138

Collected: 09/15/95 15:31:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Ethylbenzene     | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| P-&m-Xylene      | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| O-Xylene         | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |

Lab ID: 9509143-16B  
Sample ID: AP# 138

Collected: 09/15/95 15:31:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCs DIESEL/CAL DHS 8015M |          |       |       |     |           |          |
| Diesel                   | 510      | mg/Kg | 5.0   | 20  | 09/26/95  | SLFTD45  |
| HCs DSL XT/CAL DHS 8015M | 09/20/95 | N/A   |       |     |           |          |

Lab ID: 9509143-17A  
Sample ID: AP# 119

Collected: 09/15/95 15:50:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| Ethylbenzene     | 0.0079 | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| P-&m-Xylene      | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |
| O-Xylene         | ND     | mg/Kg | 0.0010 | 5.0 | 09/22/95  | SBTXME076 |

Lab ID: 9509143-17B  
Sample ID: AP# 119

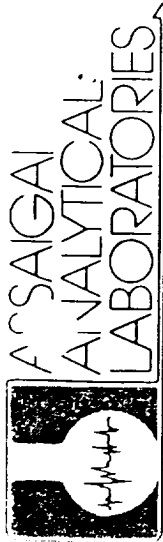
Collected: 09/15/95 15:50:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCs DIESEL/CAL DHS 8015M |          |       |       |     |           |          |
| Diesel                   | 640      | mg/Kg | 5.0   | 20  | 09/26/95  | SLFTD45  |
| HCs DSL XT/CAL DHS 8015M | 09/20/95 | N/A   |       |     |           |          |

Lab ID: 9509143-18A  
Sample ID: AP# 151H

Collected: 09/15/95 16:05:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/25/95  | SBTXME077 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/25/95  | SBTXME077 |
| Ethylbenzene     | ND     | mg/Kg | 0.0010 | 5.0 | 09/25/95  | SBTXME077 |
| P-&m-Xylene      | ND     | mg/Kg | 0.0010 | 5.0 | 09/25/95  | SBTXME077 |



# Chain of Custody Record

Lab job no.: 91113 Date: 7 of 7  
Page 3 of 7

Client Apache Corp.

Address 304 N. Behrend

City/State/Zip Farmington, NM 87401

Project Name / Number Pit Remediation 75017

Contract / Purchase Order / Quote \_\_\_\_\_

Project Manager / Contact John Taylor

Telephone No. (505) 325-0318

Fax No. (505) 325-0325

Samplers: (Signature) [Signature]

7300 JEFFERSON, N.E.  
ALBUQUERQUE, NEW MEXICO 87110  
(505) 345-8964

3332 WEDGEWOOD  
EL PASO, TEXAS 79925  
(915) 593-6000

MELQUIADES ALANIS  
6411 LOCAL UNO  
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

| AAL<br>FRACTION<br>NUMBER | Field<br>Sample Number / Location | Date | Time | Sample<br>Type | Type / Size of Container | Preservation |          | No. of Containers | Analysis Required | Remarks |
|---------------------------|-----------------------------------|------|------|----------------|--------------------------|--------------|----------|-------------------|-------------------|---------|
|                           |                                   |      |      |                |                          | Temp.        | Chemical |                   |                   |         |
| 131                       | AP# 106                           | 9/15 | 2:35 | 201            | Glass                    | 80           | Ice      | 1                 |                   |         |
| 132                       | AP# 106                           |      | 2:35 |                |                          |              |          | 1                 |                   |         |
| 141                       | AP# 116                           |      | 2:46 |                |                          |              |          | 1                 |                   |         |
| 143                       | AP# 116                           |      | 2:46 |                |                          |              |          | 1                 |                   |         |
| 151                       | AP# 118                           |      | 3:03 |                |                          |              |          | 1                 |                   |         |
| 153                       | AP# 118                           |      | 3:03 |                |                          |              |          | 1                 |                   |         |
| 161                       | AP# 138                           |      | 3:31 |                |                          |              |          | 1                 |                   |         |
| 166                       | AP# 138                           |      | 3:31 |                |                          |              |          | 1                 |                   |         |
| 171                       | AP# 119                           |      | 3:50 |                |                          |              |          | 1                 |                   |         |
| 178                       | AP# 119                           |      | 3:50 |                |                          |              |          | 1                 |                   |         |
| 181                       | AP# 151H                          |      | 4:05 |                |                          |              |          | 1                 |                   |         |
| 183                       | AP# 151H                          |      | 4:05 |                |                          |              |          | 1                 |                   |         |

| Received by:                    |                | Relinquished by:                |                | After analysis, samples are to be:                            |  |
|---------------------------------|----------------|---------------------------------|----------------|---------------------------------------------------------------|--|
| Signature                       | Date           | Signature                       | Date           | <input type="checkbox"/> Disposed of (additional fee)         |  |
| Printed                         | Time           | Printed                         | Time           | <input type="checkbox"/> Stored (30 days max)                 |  |
| Company                         |                | Company                         |                | <input type="checkbox"/> Stored over 30 days (additional fee) |  |
| Reason                          |                | Reason                          |                | <input type="checkbox"/> Returned to customer                 |  |
| <u>[Signature]</u>              | <u>9/15/05</u> | <u>[Signature]</u>              | <u>9/15/05</u> |                                                               |  |
| <u>Seeth Dudenhosflae</u>       | <u>7:50 PM</u> | <u>Seeth Dudenhosflae</u>       | <u>7:50 PM</u> |                                                               |  |
| <u>Indian Fire &amp; Safety</u> |                | <u>Indian Fire &amp; Safety</u> |                |                                                               |  |
| <u>Testing</u>                  |                | <u>Testing</u>                  |                |                                                               |  |

COURIER

## PARTIAL REPORT

Page: 3

Lab ID: 9508243-05A  
Sample ID: PIT #152-D

Collected: 08/21/95 11:30:00  
Matrix: SOIL

| TEST / METHOD                                        | RESULT   | UNITS | LIMIT | D_F | DATE<br>ANAL | BATCH_ID |
|------------------------------------------------------|----------|-------|-------|-----|--------------|----------|
| HCs DIESEL/CAL DHS 8015M<br>HCs DSL XT/CAL DHS 8015M | 08/30/95 | N/A   |       |     |              |          |

Lab ID: 9508243-05B  
Sample ID: PIT #152-D

Collected: 08/21/95 11:30:00  
Matrix: SOIL

| TEST / METHOD                                                                     | RESULT                                        | UNITS                                     | LIMIT                                          | D_F                                  | DATE<br>ANAL                                             | BATCH_ID                                                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------|--------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|
| BTEX/SW846 8020A<br>Benzene<br>Toluene<br>Ethylbenzene<br>P-&m-Xylene<br>O-Xylene | ND<br>ND<br>ND<br>30<br>76<br><del>3176</del> | mg/Kg<br>mg/Kg<br>mg/Kg<br>mg/Kg<br>mg/Kg | 0.0010<br>0.0010<br>0.0010<br>0.0020<br>0.0010 | 5000<br>5000<br>5000<br>5000<br>5000 | 08/31/95<br>08/31/95<br>08/31/95<br>08/31/95<br>08/31/95 | SBTXME072<br>SBTXME072<br>SBTXME072<br>SBTXME072<br>SBTXME072 |

Lab ID: 9508243-06A  
Sample ID: PIT #138

Collected: 08/21/95 15:30:00  
Matrix: SOIL

| TEST / METHOD                                        | RESULT   | UNITS | LIMIT | D_F | DATE<br>ANAL | BATCH_ID |
|------------------------------------------------------|----------|-------|-------|-----|--------------|----------|
| HCs DIESEL/CAL DHS 8015M<br>HCs DSL XT/CAL DHS 8015M | 08/30/95 | N/A   |       |     |              |          |

Lab ID: 9508243-06B  
Sample ID: PIT #138-S

Collected: 08/21/95 15:30:00  
Matrix: SOIL

| TEST / METHOD                                                                     | RESULT                             | UNITS                                     | LIMIT                                          | D_F                                       | DATE<br>ANAL                                             | BATCH_ID                                                      |
|-----------------------------------------------------------------------------------|------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|
| BTEX/SW846 8020A<br>Benzene<br>Toluene<br>Ethylbenzene<br>P-&m-Xylene<br>O-Xylene | ND<br>44<br>14<br>120<br>23<br>201 | mg/Kg<br>mg/Kg<br>mg/Kg<br>mg/Kg<br>mg/Kg | 0.0010<br>0.0010<br>0.0010<br>0.0020<br>0.0010 | 10000<br>10000<br>10000<br>10000<br>10000 | 09/01/95<br>09/01/95<br>09/01/95<br>09/01/95<br>09/01/95 | SBTXME072<br>SBTXME072<br>SBTXME072<br>SBTXME072<br>SBTXME072 |

Lab ID: 9508243-07A  
Sample ID: PIT #118

Collected: 08/22/95 13:15:00  
Matrix: SOIL

| TEST / METHOD                                        | RESULT   | UNITS | LIMIT | D_F | DATE<br>ANAL | BATCH_ID |
|------------------------------------------------------|----------|-------|-------|-----|--------------|----------|
| HCs DIESEL/CAL DHS 8015M<br>HCs DSL XT/CAL DHS 8015M | 08/30/95 | N/A   |       |     |              |          |

Lab ID: 9508243-04B  
Sample ID: PIT #151-D

Collected: 08/24/95 15:00:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F   | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-------|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |       |           |           |
| Ethylbenzene     | ND     | mg/Kg | 0.0010 | 10000 | 09/01/95  | SBTXME072 |
| P- & m-Xylene    | 76     | mg/Kg | 0.0020 | 10000 | 09/01/95  | SBTXME072 |
| O-Xylene         | 15     | mg/Kg | 0.0010 | 10000 | 09/01/95  | SBTXME072 |

Lab ID: 9508243-05A  
Sample ID: PIT #152-D

Collected: 08/21/95 11:30:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID  |
|--------------------------|----------|-------|-------|-----|-----------|-----------|
| HCs DIESEL/CAL DHS 8015M |          |       |       |     |           |           |
| Diesel                   | 1900     | mg/Kg | 10    | 50  | 09/07/95  | SLFTD-041 |
| HCs DSL XT/CAL DHS 8015M | 08/30/95 | N/A   |       |     |           |           |

Lab ID: 9508243-05B  
Sample ID: PIT #152-D

Collected: 08/21/95 11:30:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F  | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|------|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |      |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 5000 | 08/31/95  | SBTXME072 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5000 | 08/31/95  | SBTXME072 |
| Ethylbenzene     | ND     | mg/Kg | 0.0010 | 5000 | 08/31/95  | SBTXME072 |
| P- & m-Xylene    | 30     | mg/Kg | 0.0020 | 5000 | 08/31/95  | SBTXME072 |
| O-Xylene         | 7.6    | mg/Kg | 0.0010 | 5000 | 08/31/95  | SBTXME072 |

Lab ID: 9508243-06A  
Sample ID: PIT #138

Collected: 08/21/95 15:30:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID  |
|--------------------------|----------|-------|-------|-----|-----------|-----------|
| HCs DIESEL/CAL DHS 8015M |          |       |       |     |           |           |
| Diesel                   | 13000E   | mg/Kg | 10    | 100 | 09/07/95  | SLFTD-041 |
| HCs DSL XT/CAL DHS 8015M | 08/30/95 | N/A   |       |     |           |           |

Lab ID: 9508243-06B  
Sample ID: PIT #138-S

Collected: 08/21/95 15:30:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F   | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-------|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |       |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 10000 | 09/01/95  | SBTXME072 |
| Toluene          | 44     | mg/Kg | 0.0010 | 10000 | 09/01/95  | SBTXME072 |
| Ethylbenzene     | 14     | mg/Kg | 0.0010 | 10000 | 09/01/95  | SBTXME072 |
| P- & m-Xylene    | 120    | mg/Kg | 0.0020 | 10000 | 09/01/95  | SBTXME072 |

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: <u>APACHE CORPORATION</u>                                                                                                                  |          | Telephone <u>505-325-0318</u>                                                                                                                                                                                               |                                     |
| Address: <u>304 N. BEHREND, FARMINGTON, N.M. 87401</u>                                                                                               |          |                                                                                                                                                                                                                             |                                     |
| Facility or Well Name: <u>APACHE # 138</u>                                                                                                           |          | CELL # <u>1</u>                                                                                                                                                                                                             |                                     |
| Location: Unit or Qtr/Qtr Sec                                                                                                                        | <u>G</u> | Sec12                                                                                                                                                                                                                       | T 24N R 4W County <u>RIO ARRIBA</u> |
| Land Type <u>JIC. TRIBAL</u>                                                                                                                         |          |                                                                                                                                                                                                                             |                                     |
| Date Remediation Started: <u>8/21/95</u>                                                                                                             |          | Date Completed: <u>7/31/97</u>                                                                                                                                                                                              |                                     |
| Remediation Method: Landfarmed                                                                                                                       |          | <u>XXX</u>                                                                                                                                                                                                                  | Approx. cubic yards <u>59</u>       |
| Composted                                                                                                                                            |          |                                                                                                                                                                                                                             |                                     |
| Other                                                                                                                                                |          |                                                                                                                                                                                                                             |                                     |
| Depth to Groundwater: (pts) <u>0</u>                                                                                                                 |          | <b>Final Closure Sampling</b><br>Sampling Date: <u>7/31/97</u> Time: <u>8:30AM</u><br>Sample Results:<br>Field Headspace (ppm) <u>0</u><br>TPH (ppm) <u>ND</u> Method <u>M8015</u><br>Other <u>BTEX \ SW846, 8020A (ND)</u> |                                     |
| Distance to an Ephemeral Stream: (pts) <u>0</u>                                                                                                      |          |                                                                                                                                                                                                                             |                                     |
| Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>                                                                                    |          |                                                                                                                                                                                                                             |                                     |
| Wellhead Protection Area: (pts) <u>0</u>                                                                                                             |          |                                                                                                                                                                                                                             |                                     |
| Distance To Surface Water: (pts) <u>0</u>                                                                                                            |          |                                                                                                                                                                                                                             |                                     |
| RANKING SCORE (TOTAL POINTS) <u>0</u>                                                                                                                |          |                                                                                                                                                                                                                             |                                     |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF                                              |          |                                                                                                                                                                                                                             |                                     |
| DATE: <u>8-26-97</u>                                                                                                                                 |          | PRINTED NAME <u>JEFF CROSS</u>                                                                                                                                                                                              |                                     |
| SIGNATURE <u>Jeff Cross</u>                                                                                                                          |          | TITLE <u>PROJECT MANAGER</u>                                                                                                                                                                                                |                                     |
| AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. |          |                                                                                                                                                                                                                             |                                     |
| APPROVED: YES <u>X</u> NO <u>      </u> (REASON) <u>      </u>                                                                                       |          |                                                                                                                                                                                                                             |                                     |
| SIGNED: <u>Kevin M. Marshall</u>                                                                                                                     |          | DATE: <u>9-2-97</u>                                                                                                                                                                                                         |                                     |

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: <u>APACHE CORPORATION</u>                                                                                                                  |              | Telephone <u>505-325-0318</u>                                                                                                                                                                                                    |                                     |
| Address: <u>304 N. BEHREND, FARMINGTON, N.M. 87401</u>                                                                                               |              |                                                                                                                                                                                                                                  |                                     |
| Facility or Well Name: <u>APACHE #138</u>                                                                                                            |              | <u>CELL #2</u>                                                                                                                                                                                                                   |                                     |
| Location: Unit or Qtr/Qtr                                                                                                                            | Sec <u>G</u> | Sec12                                                                                                                                                                                                                            | T 24N R 4W County <u>RIO ARRIBA</u> |
| Land Type <u>JIC. TRIBAL</u>                                                                                                                         |              |                                                                                                                                                                                                                                  |                                     |
| Date Remediation Started: <u>8/21/95</u>                                                                                                             |              | Date Completed: <u>8-18-97</u>                                                                                                                                                                                                   |                                     |
| Remediation Method: Landfarmed                                                                                                                       |              | <u>XXX</u>                                                                                                                                                                                                                       | Approx. cubic yards <u>253</u>      |
| Composted                                                                                                                                            |              |                                                                                                                                                                                                                                  |                                     |
| Other                                                                                                                                                |              |                                                                                                                                                                                                                                  |                                     |
| Depth to Groundwater: (pts) <u>0</u>                                                                                                                 |              | <b>Final Closure Sampling</b><br>Sampling Date: <u>8/18/97</u> Time: <u>10:25am</u><br>Sample Results:<br>Field Headspace (ppm) <u>1.3</u><br>TPH (ppm) <u>1800</u> Method <u>M8015</u><br>Other <u>BTEX \ SW846, 8020A (ND)</u> |                                     |
| Distance to an Ephemeral Stream: (pts) <u>0</u>                                                                                                      |              |                                                                                                                                                                                                                                  |                                     |
| Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>                                                                                    |              |                                                                                                                                                                                                                                  |                                     |
| Wellhead Protection Area: (pts) <u>0</u>                                                                                                             |              |                                                                                                                                                                                                                                  |                                     |
| Distance To Surface Water: (pts) <u>0</u>                                                                                                            |              |                                                                                                                                                                                                                                  |                                     |
| RANKING SCORE (TOTAL POINTS) <u>0</u>                                                                                                                |              |                                                                                                                                                                                                                                  |                                     |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF                                              |              |                                                                                                                                                                                                                                  |                                     |
| DATE: <u>8-26-97</u>                                                                                                                                 |              | PRINTED NAME <u>JEFF CROSS</u>                                                                                                                                                                                                   |                                     |
| SIGNATURE <u>Jeff Cross</u>                                                                                                                          |              | TITLE <u>PROJECT MANAGER</u>                                                                                                                                                                                                     |                                     |
| AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. |              |                                                                                                                                                                                                                                  |                                     |
| APPROVED: YES <u>X</u> NO <u>      </u> (REASON) <u>      </u>                                                                                       |              |                                                                                                                                                                                                                                  |                                     |
| SIGNED: <u>Keith C. Marshall</u>                                                                                                                     |              | DATE: <u>9-2-97</u>                                                                                                                                                                                                              |                                     |

# APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 138

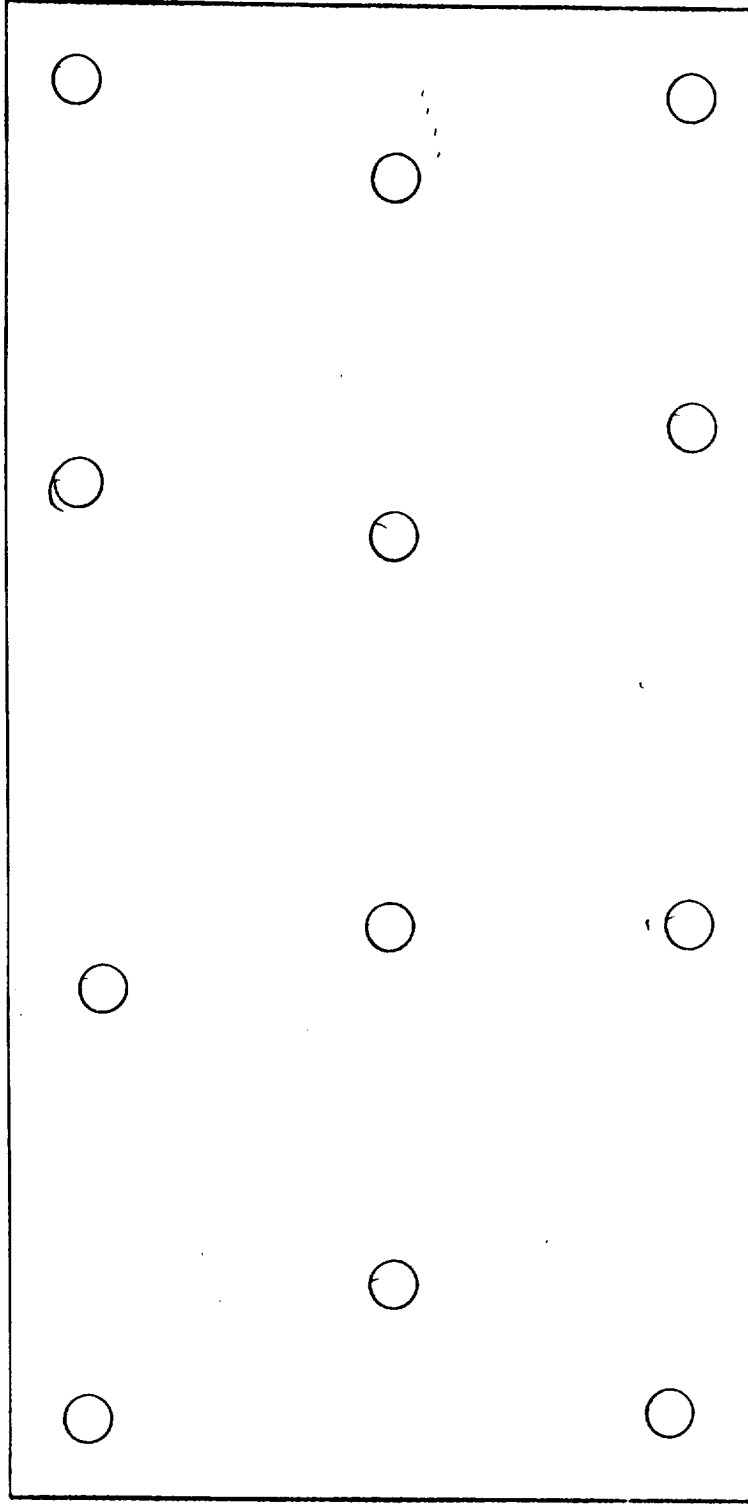
\* AMOUNT OF SOIL UNDERGOING REMEDIATION 312 Yds.

|                                                                               |                            |                    |                   |
|-------------------------------------------------------------------------------|----------------------------|--------------------|-------------------|
| CELL No. <u>1</u>                                                             | SampDATE<br><u>7/31/97</u> | TPH<br><u>ND</u>   | BTEX<br><u>ND</u> |
| DIMENSIONS(LxWxH) <u>40' L X 40' W X 12" H</u>                                |                            |                    |                   |
| CELL LOCATION (dir. from well head) <u>NORTH</u>                              |                            |                    |                   |
| * DATE BEGAN: <u>8/21/95</u>                                                  |                            |                    |                   |
| DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>7/31/97</u> |                            |                    |                   |
| CELL No. <u>2</u>                                                             | SampDATE<br><u>8/18/97</u> | TPH<br><u>1800</u> | BTEX<br><u>ND</u> |
| DIMENSIONS(LxWxH) <u>170' L X 40' W X 12" H</u>                               |                            |                    |                   |
| CELL LOCATION (dir. from well head) <u>NORTH</u>                              |                            |                    |                   |
| * DATE BEGAN: <u>8/21/95</u>                                                  |                            |                    |                   |
| DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8-18-97</u> |                            |                    |                   |
| CELL No. <u>3</u>                                                             | SampDATE                   | TPH                | BTEX              |
| DIMENSIONS(LxWxH)                                                             |                            |                    |                   |
| CELL LOCATION (dir. from well head)                                           |                            |                    |                   |
| * DATE BEGAN:                                                                 |                            |                    |                   |
| DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm)                |                            |                    |                   |
| REMEDIATION RECORD: (Date, Treatment, Tilling)                                |                            |                    |                   |
| 7/17/97 WATER AND TILL CELLS.                                                 |                            |                    |                   |
| 7/18/97 TILL CELLS.                                                           |                            |                    |                   |
| 7/31/97 SAMPLE CELL # 1 (RESULTS BELOW CLOSURE LIMITS.)                       |                            |                    |                   |
| 8/4/97 TERAT CELL # 2 WITH 40 LBS OF PHOSPHORUS,100 LBS 46-0-0 FERT.          |                            |                    |                   |
| 8/18/97 TOOK SOIL SAMPLE OF CELL # 2.                                         |                            |                    |                   |
|                                                                               |                            |                    |                   |
|                                                                               |                            |                    |                   |
|                                                                               |                            |                    |                   |

From excavation reports.

WELL NAME: Apache #138 Cell #1  
SAMPLE DATE: 7-31-97  
DIMENSIONS: 40' L X 40' W X 12" H

○ = SAMPLE AREA



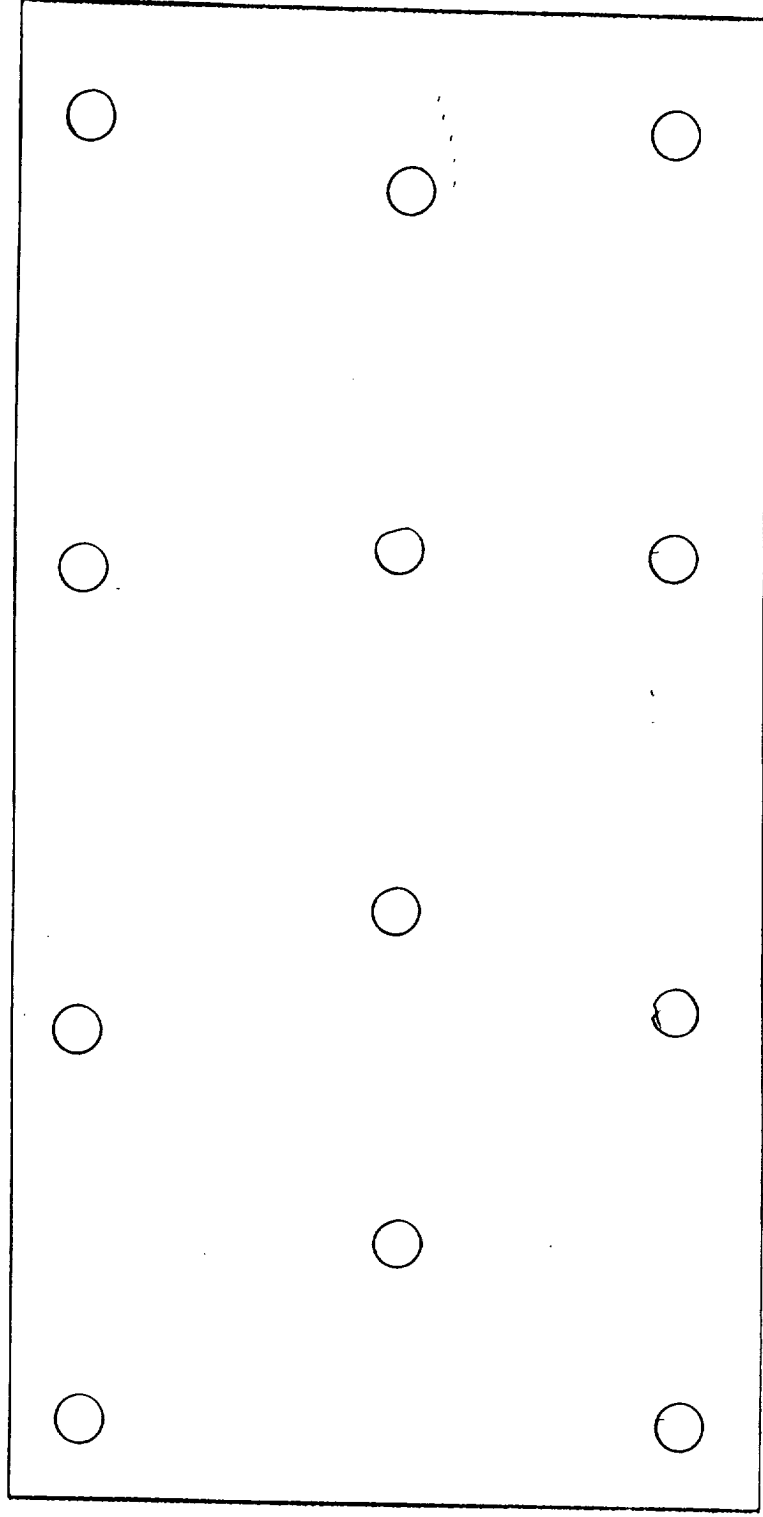
NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL  
12 point composite sample  
P10 composite Reading 0.0 ppm.

WELL NAME: Apache 138 Cell #2

SAMPLE DATE: 8-18-97

DIMENSIONS: 170' L x 40' W x 12" H

○ = SAMPLE AREA

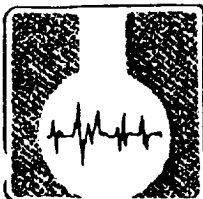


NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

12 point composite sample

P.D. Composite Reading: 1.3 ppm.



**ASSAIGAI  
ANALYTICAL  
LABORATORIES, INC.**

7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

AUG 13 1997

Report Generated:

August 8, 1997 13:10

**CERTIFICATE OF ANALYSIS  
RESULTS BY SAMPLE**

SENT APACHE CORPORATION  
TO: 304 N. BEHREND  
FARMINGTON, NM 87401

WORKORDER # : 9708016  
WORK ID : JICARILLA PIT CLOSURES  
CLIENT CODE : APA01  
DATE RECEIVED : 08/01/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708016-01A  
Sample ID: A138 CELL #1

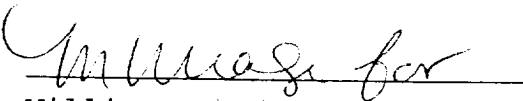
Collected: 07/31/97 08:30:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE<br>ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|--------------|-----------|
| BTEX/SW846 8020A |        |       |        |     |              |           |
| Benzene          | ND     | mg/kg | 0.0050 | 100 | 08/04/97     | SBTXME181 |
| Toluene          | ND     | mg/kg | 0.0050 | 100 | 08/04/97     | SBTXME181 |
| Ethylbenzene     | ND     | mg/kg | 0.0050 | 100 | 08/04/97     | SBTXME181 |
| P-&m-Xylene      | ND     | mg/kg | 0.010  | 100 | 08/04/97     | SBTXME181 |
| O-Xylene         | ND     | mg/kg | 0.0050 | 100 | 08/04/97     | SBTXME181 |

Lab ID: 9708016-01B  
Sample ID: A138 CELL #1

Collected: 07/31/97 08:30:00  
Matrix: SOIL

| TEST / METHOD              | RESULT | UNITS | LIMIT | D_F | DATE<br>ANAL | BATCH_ID |
|----------------------------|--------|-------|-------|-----|--------------|----------|
| Diesel Range OG Soil/M8015 |        |       |       |     |              |          |
| Diesel Range OG in Soil    | ND     | mg/Kg | 25    | 25  | 08/05/97     | SDRO45   |

  
William P. Biava  
President



## ***WORKORDER COMMENTS***

DATE : 08/08/97  
WORKORDER:

### ***DEFINITIONS/DATA QUALIFIERS***

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

- ND = Analyte "not detected" in analysis at the sample specific detection limit.
- D\_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D\_F) to obtain the sample specific Detection Limit.

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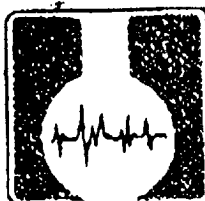
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### ***REPORT COMMENTS***

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**ASSAIGAI  
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LABORATORIES, INC.**

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Report Generated:  
August 25, 1997 12:20

**CERTIFICATE OF ANALYSIS  
RESULTS BY SAMPLE**

SENT APACHE CORPORATION  
TO: 304 N. BEHREND  
FARMINGTON, NM 87401

WORKORDER # : 9708191  
WORK ID : JICARILLA PIT CLOSURES  
CLIENT CODE : APA01  
DATE RECEIVED : 08/20/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708191-01A  
Sample ID: A 138 CELL 2

Collected: 08/18/97 10:25:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE<br>ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|--------------|-----------|
| BTEX/SW846 8020A |        |       |        |     |              |           |
| Benzene          | ND     | mg/kg | 0.0050 | 100 | 08/21/97     | SBTXME186 |
| Toluene          | ND     | mg/kg | 0.0050 | 100 | 08/21/97     | SBTXME186 |
| Ethylbenzene     | ND     | mg/kg | 0.0050 | 100 | 08/21/97     | SBTXME186 |
| P-&m-Xylene      | ND     | mg/kg | 0.010  | 100 | 08/21/97     | SBTXME186 |
| O-Xylene         | ND     | mg/kg | 0.0050 | 100 | 08/21/97     | SBTXME186 |

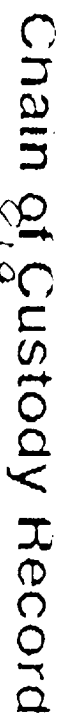
Lab ID: 9708191-01B  
Sample ID: A 138 CELL 2

Collected: 08/18/97 10:25:00  
Matrix: SOIL

| TEST / METHOD              | RESULT | UNITS | LIMIT | D_F | DATE<br>ANAL | BATCH_ID |
|----------------------------|--------|-------|-------|-----|--------------|----------|
| Diesel Range OG Soil/MS015 |        |       |       |     |              |          |
| Diesel Range OG in Soil    | 1800   | mg/Kg | 25    | 25  | 08/22/97     | SDRO047  |

  
William P. Biava  
President





1218

Date - 8-20-57

Page 4 of 5

19051 N. BIG SPRING  
MIDLAND, TEXAS 79701  
(915) 570-1116

Project Manager / Contact - Jeff Gross

Telephone No. (505) 774-5543

Fax No. (505) 774-6624

Samplers: (Signature) John H. H. H.

Contract / Purchase Order / Quore

| M.T.<br>Fraction<br>Number | Field<br>Sample Number / Location | Date    | Time  | Sample<br>Type | Type / Size of Container | Preservation |          |
|----------------------------|-----------------------------------|---------|-------|----------------|--------------------------|--------------|----------|
|                            |                                   |         |       |                |                          | Temp.        | Chemical |
| IA                         | H 138 C&H 2                       | 9/14/97 | 10:15 | Soil           | 4oz glass                | Ice          | X        |
| IB                         | " "                               | /       | /     | /              | /                        | /            | X        |

Received by \_\_\_\_\_  
Signature \_\_\_\_\_  
Printed \_\_\_\_\_  
Company \_\_\_\_\_  
Reason \_\_\_\_\_

Relinquished by: Scott Kern  
Signature  
Printed: SCOTT P KERN  
Company: RAE  
Reason: \_\_\_\_\_

|         |           |              |                |
|---------|-----------|--------------|----------------|
| Date    | 20 Aug 97 | Processed by | Carla R. R. R. |
| Time    | 16:10     | Signature    |                |
| Printed |           | AAL          |                |
| Company |           |              |                |
| Branch  |           |              |                |

After analysis, samples are to be

Disposed of (additional fee)

Stores (30 days max)

Stored over 30 days (additional fee)

☐ Returned to customer:

## Comments

Method of Shipment \_\_\_\_\_

Freight Memo. \_\_\_\_\_

### Special instructions

LABORATORY