

District  
1000 Rio Brazos Rd  
AZ 87401

*Henny & Fritz*  
**DEPUTY OIL & GAS INSPECTOR**

State of New Mexico  
Energy, 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

**APR 10 1998**

## PIT REMEDIATION AND CLOSURE REPORT

*Approved*

|                                                                          |                        |                                |                        |
|--------------------------------------------------------------------------|------------------------|--------------------------------|------------------------|
| Operator: <u>Apache Corporation</u>                                      |                        | Telephone: <u>505-325-0318</u> |                        |
| Address: <u>2855 Southside River Road, Suite A, Farmington, NM 87401</u> |                        |                                |                        |
| Facility or Well Name: <u>Apache # 12</u>                                |                        |                                |                        |
| Location: Unit or Qtr/Qtr Sec                                            |                        | <u>C</u>                       | <u>Sec 13</u>          |
|                                                                          |                        | <u>T 24 N</u>                  | <u>R 4W</u>            |
|                                                                          |                        | County                         | <u>Rio Arriba</u>      |
| Pit Type: Separator: _____                                               |                        | Dehydrator: _____              | Other: <u>Blow Pit</u> |
| Land Type: <u>Jicarilla Tribal</u>                                       |                        |                                |                        |
| <br>                                                                     |                        |                                |                        |
| Beginning Pit Dimensions:                                                |                        | Length <u>15'</u>              | Width <u>15'</u>       |
|                                                                          |                        | Depth <u>0'</u>                |                        |
| Pit Location:<br>(Attach diagram)                                        | Ending Pit Dimensions: | Length <u>15'</u>              | Width <u>15'</u>       |
|                                                                          |                        | Depth <u>10'</u>               |                        |
| Reference:                                                               |                        | Wellhead <u>X</u>              | Other: _____           |
| Footage from reference:                                                  |                        | <u>160'</u>                    |                        |
| Direction from reference:                                                |                        | <u>22</u> Degrees              | <u>X</u> East          |
|                                                                          |                        |                                | North of South         |
|                                                                          |                        |                                | <u>XX</u>              |
| Depth To Groundwater:                                                    |                        | Less than 50 feet              | (20 points) _____      |
| (vertical distance from                                                  |                        | 50 feet to 99 feet             | (10 points) _____      |
| contaminants to seasonal                                                 |                        | Greater than 100 feet          | ( 0 points) <u>0</u>   |
| high water elevation of                                                  |                        |                                |                        |
| groundwater)                                                             |                        |                                |                        |
| Wellhead Protection Area:                                                |                        | Yes                            | (20 points) _____      |
| (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)                                  |                        |                                |                        |
| Distance To Surface Water:                                               |                        | Less than 200 feet             | (20 points) _____      |
| (Horizontal distance to perennial                                        |                        | 200 feet to 1000 feet          | (10 points) _____      |
| 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>               |

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

Date Remediation Started: 9/6/95 Date Completed: 6/19/97

Remediation Method: (Check all appropriate sections)  
Excavatio XXX Approx. cubic yards 85  
Landfarmed XX Insitu Bioremediation  
Other

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

General Description of Remedial Action: Excavate pit to 10', took PID readings.

Spread soil on location for remediation. Took soil samples.

Groundwater Encountered: No X Yes Depth

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center

Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)  
Sample depth 8 to 10" into pit sidewalls 10" into pit bottom

Sample Date 9/7/95 Sample Time 11:00 A.M.

Sample results  
Benzene (ppm) ND

Total BTEX (ppm) 0.05

Field Headspace (ppm) 65.46

TPH 58

Groundwater Sample: Yes No X (If yes attach sample results)

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

DATE November 5, 1997 PRINTED NAME Jeff Cross

SIGNATURE Jeff Cross AND TITLE Project Manager

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

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

**PIT REMEDIATION AND CLOSURE REPORT**

|                                                                     |                 |                               |                   |
|---------------------------------------------------------------------|-----------------|-------------------------------|-------------------|
| Operator: <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 # 12</u>                           |                 |                               |                   |
| Location:                                                           | Unit or Qtr/Qtr | Sec                           | County            |
|                                                                     | <u>C</u>        | <u>SEC 13</u>                 | <u>T 24N R 4W</u> |
| Pit Type: Separator: _____ Dehydrator: _____ Other: <u>BLOW PIT</u> |                 |                               |                   |
| Land Type: <u>JIC. TRIBAL</u>                                       |                 |                               |                   |

|                                   |                           |                     |                  |                  |
|-----------------------------------|---------------------------|---------------------|------------------|------------------|
| Pit Location:<br>(Attach diagram) | Pit Dimensions:           | Length <u>15'</u>   | Width <u>15'</u> | Depth <u>10'</u> |
|                                   | Reference:                | Wellhead <u>XXX</u> | Other _____      |                  |
|                                   | Footage from reference:   | <u>160'</u>         |                  |                  |
|                                   | Direction from reference: | <u>22</u> Degrees   | <u>X</u> East    | North <u>XX</u>  |
|                                   |                           |                     | West             | South _____      |

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

Date Remediation Started: 9/6/95 Date Completed: 6/19/97

Remediation Method: Excavation XXX Approx. cubic yards 83  
(Check all appropriate sections) Landfarmed XX Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

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

General Description of Remedial Action: Excavate pit to 10', took PID readings. spread soil on location for remediation. Took soil samples.

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

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center.

**Closure Sampling:**

(in multiple samples, attach sample results

and diagram of sample locations and depths)

Sample depth 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 9/7/95 Sample Time 11:00AM  
Sample results

|       |                 |       |              |        |               |       |           |
|-------|-----------------|-------|--------------|--------|---------------|-------|-----------|
| Soil: | Benzene         | (ppm) | <u>ND</u>    | Water: | Benzene       | (ppb) | <u>NA</u> |
|       | Total BTEX      | (ppm) | <u>0.05</u>  |        | Toluene       | (ppb) | <u>NA</u> |
|       | Field Headspace | (ppm) | <u>65.46</u> |        | Ethylbenzene  | (ppb) | <u>NA</u> |
|       | TPH             | (ppm) | <u>58</u>    |        | Total Xylenes | (ppb) | <u>NA</u> |

Groundwater Sample: Yes \_\_\_\_\_ No XXX (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 8-22-97 PRINTED NAME JEFF CROSS

SIGNATURE Jeff Cross AND TITLE PROJECT MANAGER

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

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

SIGNED: Kenneth M. ... DATE: 9-2-97

Spread and Seeded  
Area



APACHE

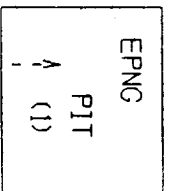
APACHE NUMBER 12

SECTION 13, TOWNSHIP 24N, RANGE 4W

RIO ARriba COUNTY, NM

DRAINAGE

NORTH



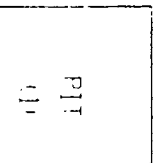
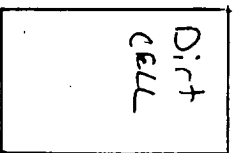
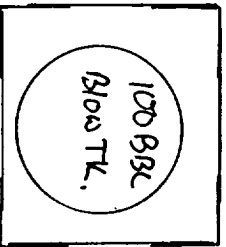
EPNG LINE CRIPW



4" BY 40 FEET EPNG METER RUN

METER #87215

WELL HEAD



# APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO  
REVIEW AND APPROVAL

LOCATION: APACHE 12

E

PIT COUNT: 1

EPO REPRESENTATIVE K.C.

DATE OF REVIEW: 10/30/95

| DIMENSIONS     |           | EXCAVATION   |        |        |                |           |            |         |        |
|----------------|-----------|--------------|--------|--------|----------------|-----------|------------|---------|--------|
|                |           | START        |        | FINISH |                |           |            |         |        |
|                | W'        | L'           | D'     |        | W'             | L'        | D'         | CU.YDS. |        |
| PIT 1          | 15'       | 15'          | 0'     | PIT 1  | 15'            | 15'       | 10'        | 83.0    |        |
| PIT 2          |           |              |        | PIT 2  |                |           |            |         |        |
| PIT 3          |           |              |        | PIT 3  |                |           |            |         |        |
| DATE: 09/06/95 |           | PIT 1@ 04'   | PIT 2@ | PIT 3@ | DATE: 09/07/95 |           | PIT 1@ 10' | PIT 2@  | PIT 3@ |
| P.<br>I.<br>D. | CENTER    | Inst.Failure |        |        | P.<br>I.<br>D. | CENTER    | 26.9       |         |        |
|                | NW CORNER | "            |        |        |                | NW CORNER | 80.1       |         |        |
|                | NE CORNER | "            |        |        |                | NE CORNER | 17.3       |         |        |
|                | SW CORNER | "            |        |        |                | SW CORNER | 98.0       |         |        |
|                | SE CORNER | "            |        |        |                | SE CORNER | 105.0      |         |        |

## NOTES:

09/06/95 Excavate to 4' P.I.D. failure. No odor.

09/07/95 Continue excavation. Odor @ 5' to 9.5'. Spread soil for remediation.

## SOIL SAMPLING

| DATE: 09/07/95 |           | PIT 1@ 10' | PIT 2@ | PIT 3@ | ANALYSIS RESULTS |      | PER LAB: |      | ASSAIGAI |
|----------------|-----------|------------|--------|--------|------------------|------|----------|------|----------|
|                |           |            |        |        | TPH              | BTEX | WITNESS  | DATE |          |
| P.             | CENTER    | 26.9       |        |        | PIT NO.          |      |          |      |          |
| I.             | NW CORNER | 80.1       |        |        | 1                | 58.0 | 0.05     | IF&S | 09/07/96 |
| D.             | NE CORNER | 17.3       |        |        |                  |      |          |      |          |
|                | SW CORNER | 98.0       |        |        |                  |      |          |      |          |
|                | SE CORNER | 105.0      |        |        |                  |      |          |      |          |

## RE-SAMPLE OR CELL(S) SAMPLE

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

## RE-SAMPLE OR CELL(S) SAMPLE

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



[illegible]

SEP 25 1995

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b ID: 9509064-05A  
Sample ID: AP# 24

Collected: 09/01/95 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 | 5.0 | 09/12/95  | SMSVOA316 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/12/95  | SMSVOA316 |
| Ethylbenzene     | ND     | mg/Kg | 0.0010 | 5.0 | 09/12/95  | SMSVOA316 |
| P-&m-Xylene      | ND     | mg/Kg | 0.0020 | 5.0 | 09/12/95  | SMSVOA316 |
| O-Xylene         | ND     | mg/Kg | 0.0010 | 5.0 | 09/12/95  | SMSVOA316 |

Lab ID: 9509064-05B  
Sample ID: AP# 24

Collected: 09/01/95 15:30:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCS DIESEL/CAL DHS 8015M |          |       |       |     |           |          |
| Diesel                   | ND       | mg/Kg | 5.0   | 10  | 09/14/95  | SLFTD042 |
| HCS DSL XT/CAL DHS 8015M | 09/11/95 | N/A   |       |     |           |          |

Lab ID: 9509064-06A  
Sample ID: AP# 111

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

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA318 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA318 |
| Ethylbenzene     | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA318 |
| P-&m-Xylene      | ND     | mg/Kg | 0.0020 | 5.0 | 09/15/95  | SMSVOA318 |
| O-Xylene         | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA318 |

Lab ID: 9509064-06B  
Sample ID: AP# 111

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

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCS DIESEL/CAL DHS 8015M |          |       |       |     |           |          |
| Diesel                   | ND       | mg/Kg | 5.0   | 100 | 09/15/95  | SLFTD042 |
| HCS DSL XT/CAL DHS 8015M | 09/11/95 | N/A   |       |     |           |          |

Lab ID: 9509064-07A  
Sample ID: AP# 12

Collected: 09/07/95 11:00:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A |        |       |        |     |           |           |
| Benzene          | ND     | mg/Kg | 0.0010 | 10  | 09/15/95  | SMSVOA318 |
| Toluene          | ND     | mg/Kg | 0.0010 | 10  | 09/15/95  | SMSVOA318 |

SEP 25 1995

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Lab ID: 9509064-07A  
Sample ID: AP# 12

Collected: 09/07/95 11:00:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A | ND     | mg/Kg | 0.0010 | 10  | 09/15/95  | SMSVOA318 |
| Ethylbenzene     | ND     | mg/Kg | 0.0020 | 10  | 09/15/95  | SMSVOA318 |
| P-&m-Xylene      | 0.048  | mg/Kg | 0.0010 | 10  | 09/15/95  | SMSVOA318 |
| O-Xylene         |        |       |        |     |           |           |

Lab ID: 9509064-07B  
Sample ID: AP# 12

Collected: 09/07/95 11:00:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCs DIESEL/CAL DHS 8015M | 58       | mg/Kg | 5.0   | 10  | 09/14/95  | SLFTD042 |
| Diesel                   | 09/11/95 | N/A   |       |     |           |          |
| HCs DSL XT/CAL DHS 8015M |          |       |       |     |           |          |

Lab ID: 9509064-08A  
Sample ID: AP# 25

Collected: 09/07/95 09:00:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|-----------|-----------|
| BTEX/SW846 8020A | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA317 |
| Benzene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA317 |
| Toluene          | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA317 |
| Ethylbenzene     | ND     | mg/Kg | 0.0020 | 5.0 | 09/15/95  | SMSVOA317 |
| P-&m-Xylene      | ND     | mg/Kg | 0.0010 | 5.0 | 09/15/95  | SMSVOA317 |
| O-Xylene         |        |       |        |     |           |           |

Lab ID: 9509064-08B  
Sample ID: AP# 25

Collected: 09/07/95 09:00:00  
Matrix: SOIL

| TEST / METHOD            | RESULT   | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|--------------------------|----------|-------|-------|-----|-----------|----------|
| HCs DIESEL/CAL DHS 8015M | 23       | mg/Kg | 5.0   | 2.0 | 09/18/95  | SLFTD043 |
| Diesel                   | 09/11/95 | N/A   |       |     |           |          |
| HCs DSL XT/CAL DHS 8015M |          |       |       |     |           |          |

James A. Seely  
Operations Manager



**SANTALAL  
CHEMICAL  
LABORATORIES**

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

**MELQUIADES ALANIS**  
**6411 LOCAL UNO**  
**CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320**

Telephone No. (505) 325-0318

Fax No. (505) 325-6328

3  
Samplers: (Signature) James M. Cook

Contract / Purchase Order / Quote

| ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED | Field Sample Number / Location | Date   | Time  | Sample Type | Type / Size of Container | Preservation Temp. | Preservation Chemical |
|--------------------------------------------------|--------------------------------|--------|-------|-------------|--------------------------|--------------------|-----------------------|
| 19D                                              | AP# 42                         | 8/7/95 | 11:00 | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19B                                              | AP# 12                         | 9/7/95 | 11:00 | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19A                                              | AP# 25                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19C                                              | AP# 35                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19E                                              | AP# 45                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19F                                              | AP# 55                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19G                                              | AP# 65                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19H                                              | AP# 75                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19I                                              | AP# 85                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19J                                              | AP# 95                         | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19K                                              | AP# 105                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19L                                              | AP# 115                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19M                                              | AP# 125                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19N                                              | AP# 135                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19O                                              | AP# 145                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19P                                              | AP# 155                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19Q                                              | AP# 165                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19R                                              | AP# 175                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19S                                              | AP# 185                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19T                                              | AP# 195                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19U                                              | AP# 205                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19V                                              | AP# 215                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19W                                              | AP# 225                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19X                                              | AP# 235                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19Y                                              | AP# 245                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |
| 19Z                                              | AP# 255                        | 9/7/95 | 9:00  | Soil        | Glass 4oz                | 50°                | TCE                   |

|                                                                                                                                                  |                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Relinquished by:<br>Signature <u>[Signature]</u><br>Printed <u>EVERETT</u><br>Company <u>AAC</u><br>Reason <u>Call me 7/1</u>                    | Received by:<br>Signature <u>[Signature]</u><br>Printed <u>EVERETT</u><br>Company <u>AAC</u><br>Reason <u>pick up Henry</u> |
| Relinquished by:<br>Signature <u>[Signature]</u><br>Printed <u>Jeremy Anderson</u><br>Company <u>Indian Fire Safety</u><br>Reason <u>Testing</u> | Date <u>9/8/05</u><br>Time <u>3:25 PM</u>                                                                                   |

Relinquished by: Edna J. Chance  
Signature: Edna J. Chance  
Printed: Edna J. Chance  
Company: AMC  
Reason: Relocating to Astoria

|      |                                                                                                                                      |      |       |
|------|--------------------------------------------------------------------------------------------------------------------------------------|------|-------|
| Date | 08 Aug 95                                                                                                                            | Time | 17:30 |
|      | Received by: <u>[Signature]</u><br>Signature <u>[Signature]</u><br>Printed <u>SETH P. ADAM</u><br>Company <u>AAL</u><br>Reason _____ |      |       |

|                       |  |
|-----------------------|--|
| Method of shipment:   |  |
| Shipment No.          |  |
| Special instructions: |  |
| Comments:             |  |

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

**COURIER**

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 # 12</u>                                                                                                            |                                                                                                                                                                                                                          |
| Location: Unit or Qtr/Qtr Sec <u>C</u> Sec <u>13</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>                                               |                                                                                                                                                                                                                          |
| Land Type <u>JIC. TRIBAL</u>                                                                                                                         |                                                                                                                                                                                                                          |
| Date Remediation Started: <u>9/6/95</u> Date Completed: <u>6/19/97</u>                                                                               |                                                                                                                                                                                                                          |
| Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>83</u>                                                                              |                                                                                                                                                                                                                          |
| Composted _____                                                                                                                                      |                                                                                                                                                                                                                          |
| Other _____                                                                                                                                          |                                                                                                                                                                                                                          |
| Depth to Groundwater: (pts) <u>0</u>                                                                                                                 | <b>Final Closure Sampling</b><br>Sampling Date: <u>6/19/97</u> Time: <u>12:00PM</u><br>Sample Results:<br>Field Headspace (ppm) <u>0.1</u><br>TPH (ppm) <u>ND</u> Method <u>M8015</u><br>Other BTEX \ SW846 , 8020A (ND) |
| 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>                                                                                                            |                                                                                                                                                                                                                          |
| <b>RANKING SCORE (TOTAL POINTS)</b> <u>0</u>                                                                                                         |                                                                                                                                                                                                                          |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF                                              |                                                                                                                                                                                                                          |
| DATE: <u>8-22-97</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 _____ (REASON) _____                                                                                                       |                                                                                                                                                                                                                          |
| SIGNED: <u>Kate C. Marshall</u>                                                                                                                      | DATE: <u>9-2-97</u>                                                                                                                                                                                                      |

# APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE

APACHE # 12

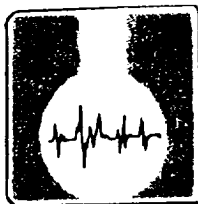
\* AMOUNT OF SOIL UNDERGOING REMEDIATION

83

Yds.

|                                                                               |                            |                  |                   |
|-------------------------------------------------------------------------------|----------------------------|------------------|-------------------|
| CELL No. <u>#1</u>                                                            | SampDATE<br><u>6/19/97</u> | TPH<br><u>ND</u> | BTEX<br><u>ND</u> |
| DIMENSIONS(LxWxH) <u>53' L X 30' W X 18" H</u>                                |                            |                  |                   |
| CELL LOCATION (dir. from well head) <u>EAST</u>                               |                            |                  |                   |
| * DATE BEGAN: <u>9/6/95</u>                                                   |                            |                  |                   |
| DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/19/97</u> |                            |                  |                   |
| CELL No. _____                                                                | 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) _____          |                            |                  |                   |
| CELL No. _____                                                                | 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)                                |                            |                  |                   |
| 6/10/97 TREAT WITH 46-0-0 FERTILIZER, WATER AND TILL SOIL.                    |                            |                  |                   |
| 6/13/97 WATER AND TILL SOIL.                                                  |                            |                  |                   |
|                                                                               |                            |                  |                   |
|                                                                               |                            |                  |                   |
|                                                                               |                            |                  |                   |
|                                                                               |                            |                  |                   |
|                                                                               |                            |                  |                   |
|                                                                               |                            |                  |                   |

From excavation reports.



**ASSAIGAI  
ANALYTICAL  
LABORATORIES, INC.**

JUL 21 1997

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

Report Generated:  
June 30, 1997 15:40

**CERTIFICATE OF ANALYSIS  
RESULTS BY SAMPLE**

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

WORKORDER # : 9706222  
WORK ID : JICARILLA PIT CLOSURES  
CLIENT CODE : APA01  
DATE RECEIVED : 06/23/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706222-01A  
Sample ID: APACHE #12 CELL

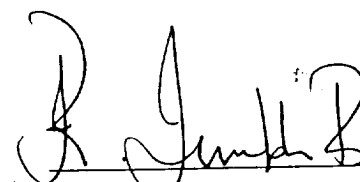
Collected: 06/19/97 12:00:00  
Matrix: SOIL

| TEST / METHOD    | RESULT | UNITS | LIMIT  | D_F | DATE<br>ANAL | BATCH_ID  |
|------------------|--------|-------|--------|-----|--------------|-----------|
| STEX/SW846 8020A | ND     | mg/kg | 0.0050 | 100 | 06/24/97     | SBTXME172 |
| Benzene          | ND     | mg/kg | 0.0050 | 100 | 06/24/97     | SBTXME172 |
| Toluene          | ND     | mg/kg | 0.0050 | 100 | 06/24/97     | SBTXME172 |
| Ethylbenzene     | ND     | mg/kg | 0.010  | 100 | 06/24/97     | SBTXME172 |
| P-&m-Xylene      | ND     | mg/kg | 0.0050 | 100 | 06/24/97     | SBTXME172 |
| O-Xylene         | ND     | mg/kg |        |     |              |           |

Lab ID: 9706222-01B  
Sample ID: APACHE #12 CELL

Collected: 06/19/97 12:00:00  
Matrix: SOIL

| TEST / METHOD              | RESULT | UNITS | LIMIT | D_F | DATE<br>ANAL | BATCH_ID |
|----------------------------|--------|-------|-------|-----|--------------|----------|
| Diesel Range OG Soil/M8015 | ND     | mg/Kg | 50    | 25  | 06/28/97     | SDRO037  |
| Diesel Range OG in Soil    |        |       |       |     |              |          |

*for*   
William P. Biava  
President



## WORKORDER COMMENTS

DATE : 06/30/97  
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.

---

### REPORT COMMENTS

---

)  
)

Client Apache Corporation Project Manager / Contact Jeff Cross

Address 304 N. Behrend  
Telephone No. (505) 774-6643

City/State/Zip Farmington, NM 87401 Fax No. (505) 774-6624

Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature) [Signature]

Contract / Purchase Order / Quote

[illegible]

|                         |                         |                 |               |
|-------------------------|-------------------------|-----------------|---------------|
| Relinquished by:        | Received by:            | Date<br>6-23-97 | Time<br>15:30 |
| Signature<br>Jeff Cunn  | Signature<br>Scott Ross |                 |               |
| Printed<br>Jeff Cunn    | Printed<br>Scott Ross   |                 |               |
| Company<br>Apache Corp. | Company<br>AAAC         |                 |               |
| Reason                  | Reason                  |                 |               |

|                                                                                |                                            |
|--------------------------------------------------------------------------------|--------------------------------------------|
| Method of Shipment: _____<br>Shipment No. _____<br>Special Instructions: _____ | Comments: _____<br>_____<br>_____<br>_____ |
|--------------------------------------------------------------------------------|--------------------------------------------|

LABORATORY

WELL NAME:

Apache #12

SAMPLE DATE:

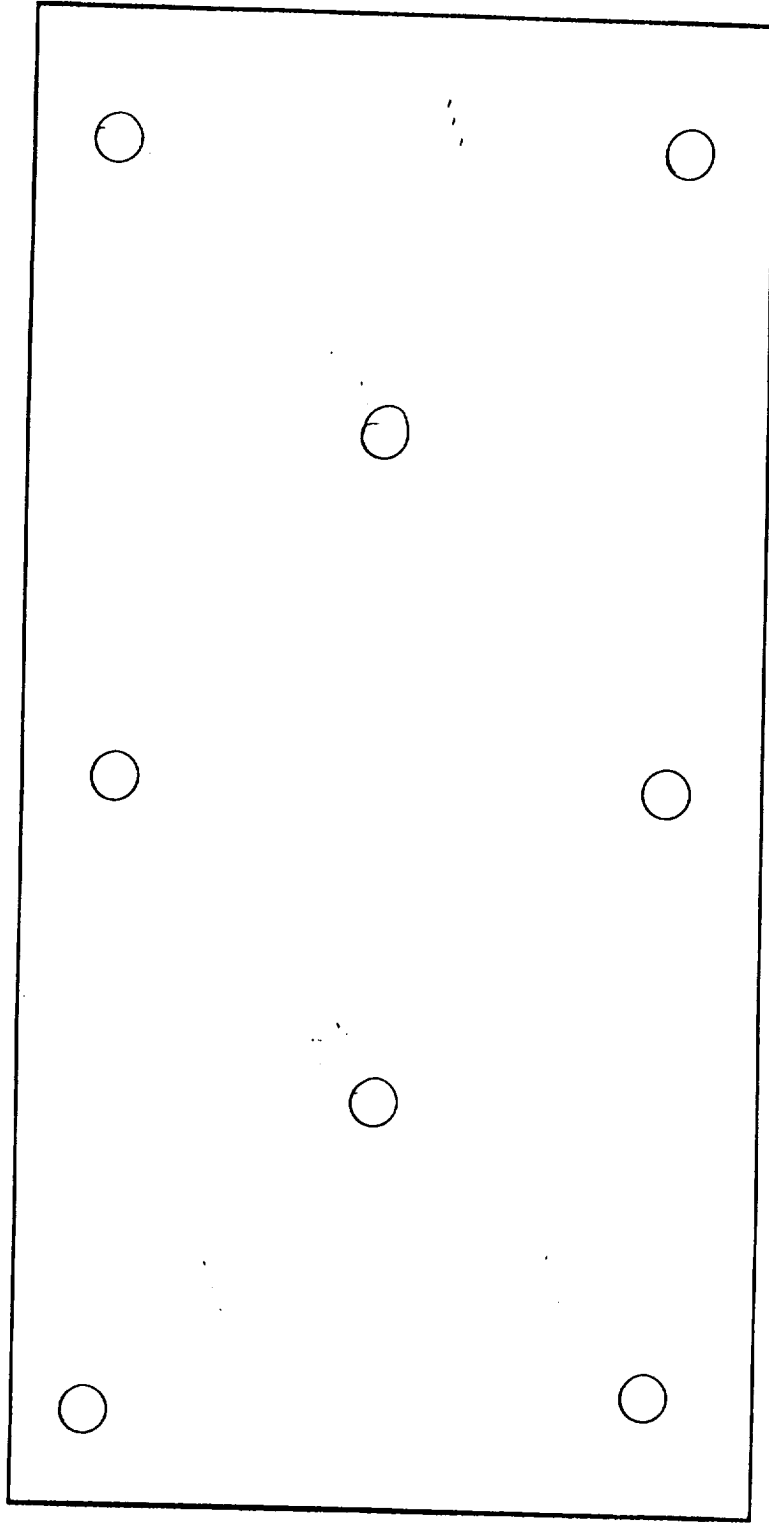
6-19-97

DIMENSIONS:

53'2" x 30'6" x 18" H



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

8 point composite sample  
PFO composite 0.1 ppm.