

DEC 17 1998

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

RECEIVED
JUL 6 1998

OIL CON. DIV.
DIST. 3

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: Apache Corporation Telephone: 505-325-0318
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401
Facility or Well Name: Apache # 125 #10
Location: Unit or Qtr/Qtr Sec P Sec 36 T 25 N R 4W County Rio Arriba
Pit Type: Separator: _____ Dehydrator _____ Other Blow Pit
Land Type: Jicarilla Tribal

Beginning Pit Dimensions: Length 24' Width 24' Depth 2'
Pit Location: Ending Pit Dimensions: Length 30' Width 30' Depth 5'
(Attach diagram)
Reference: Wellhead XXX Other _____
Footage from reference: 125'
Direction from reference: 240 Degrees _____ East _____ North
_____ West _____ South X

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) 0

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)
Yes (20 points) _____
No (0 points) 0

Distance To Surface Water:
(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)
Less than 200 feet (20 points) _____
200 feet to 1000 feet (10 points) _____
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS) 0

Date Remediation Started:

5/23/97

Date Completed:

5/19/98

Remediation Method:

(Check all appropriate sections)

Excavation

XXX

Approx. cubic yards

166

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 5', took PID readings.

Spread soil on location for remediation. Took soil samples. Hit Bedrock @ 5', sprayed pit with liquid fertilizer. Remediated soil to be put back in pit.

Groundwater Encountered:

No

XX

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

5'

8 to 10" into pit sidewalls 10" into pit bottom

Sample Date

5/27/97

Sample Time

2:00 P.M.

Sample results

Benzene

(ppm)

ND

Total BTEX

(ppm)

ND

Field Headspace

(ppm)

20.12

TPH

ND/sides

570/BTM

Groundwater Sample:

Yes

No

XX

(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

June 24, 1998

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>M W PETROLEUM</u> | | Telephone <u>505-325-0318</u> | |
| Address: <u>304 N. BEHREND, FARMINGTON, N.M. 84701</u> | | | |
| Facility or Well Name: <u>JAT 125 # 10</u> | | | |
| Location: | Unit or Qtr/Qtr | Sec | T 25N R 4W County <u>RIO ARRIBA</u> |
| Pit Type: | Separator: _____ | Dehydrator _____ | Other <u>BLOW PIT</u> |
| Land Type: <u>JIC. TRIBAL</u> | | | |
| Pit Location: (Attach diagram) | | | |
| Pit Dimensions: | Length <u>30'</u> | Width <u>30'</u> | Depth <u>5'</u> |
| Reference: | Wellhead <u>XXX</u> | Other _____ | |
| Footage from reference: | <u>125'</u> | | |
| Direction from reference: | <u>240</u> Degrees | East _____ | North _____ |
| | | West <u>XX</u> | South <u>X</u> |
| 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> |
| Distance to an Ephemeral Stream: | | | |
| (Downgradient dry wash greater than 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: | | | |
| (Downgradient lakes, playas and livestock or wildlife watering ponds) | Less than 100 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 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: 5/23/97 Date Completed: 5-19-98

Remediation Method: Excavation XXX Approx. cubic yards 166
(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 5', took PID readings. spread soil on

location for remediation. Took soil samples. HIT BEDROCK @ 5'

SPRAYED Pit Bottom with liquid Fertilizer 46-0-0

Groundwater Encountered: No XXX Yes _____ Depth _____
Remediated soil TO Be put Back in pit

Final Pit: Sample location 4 POINT COMPOSITE SAMPLE TAKEN 8 TO 10" INTO PIT

Closure Sampling: SIDEWALLS, GRAB SAMPLE TAKEN 10" INTO PIT BOTTOM CENTER.
(in multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 5' 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 5/27/97 Sample Time 2:00PM
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>20.12</u> | | Ethylbenzene | (ppb) | <u>NA</u> |
| | TPH | (ppm) | <u>ND\SIDES</u> | | Total Xylenes | (ppb) | <u>NA</u> |
| | | | <u>570\BTM</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 6-4-98 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: Ken C. Mamm DATE: 6-23-98

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 125 # 10

PIT COUNT 1

| |
|-------------------------------------|
| Jicarilla Apache Tribal EPO/OCD/BLM |
| Review and Approval |
| OCD-BLM |
| EPO Representative |
| Date of Review |

| Excavation | | | | | | | | |
|------------|------------|---------|----------------|-------|------------|-----------------|---------|--------|
| DIMENSIONS | | | START: 5/23/97 | | | FINISH: 5/27/97 | | |
| | W | L | D | | W | L | D | CU YDS |
| Pit 1 | 24' | 24' | 2' | Pit 1 | 30' | 30' | 5' | 166 |
| Pit 2 | | | | Pit 2 | | | | |
| Pit 3 | | | | Pit 3 | | | | |
| | Pit 1 @ 5' | Pit 2 @ | Pit 3 @ | | Pit 1 @ 5" | Pit 2 @ | Pit 3 @ | |
| P | Center | 80.3 | | P | Center | 80.3 | | |
| I | NW Corner | 1.2 | | I | NW Corner | 1.2 | | |
| D | NE Corner | 1 | | D | NE Corner | 1 | | |
| | SW Corner | 2.3 | | | SW Corner | 2.3 | | |
| | SE Corner | 15.8 | | | SE Corner | 15.8 | | |

NOTES:

5/23/97 START EXCAVATION ON PIT. HEAVY STAINING DOWN TO 3', LIGHT ODOR.

5/27/97 EXCAVATE PIT DOWN TO 5', NO STAINING OR ODOR.

HIT BEDROCK.

5/27/97 TOOK PID READINGS. (GOOD).

5/27/97 TOOK SOIL SAMPLES AND SENT TO ASSAIGAI LABS.

SOIL SAMPLING

| DATE: 5/27/97 | | Pit 1 @ 5' | Pit 2 @ | Pit 3 @ | ANALYSIS RESULTS | | | PER LAB | ASSAIGAI |
|---------------|-----------|------------|---------|---------|------------------|--------|-------|---------|----------|
| P | Center | 80.3 | | | PIT NO | TPH | BETEX | WITNESS | DATE |
| I | NW Corner | 1.2 | | | 1 | ND\570 | ND\ND | JEFF C. | 5/29/97 |
| D | NE Corner | 1 | | | 2 | | | | |
| | SW Corner | 2.3 | | | 3 | | | | |
| | SE Corner | 15.8 | | | | | | | |

RE-SAMPLE OR CELL(S) SAMPLE

| DATE: | | Pit 1 @ | Pit 2 @ | Pit 3 @ | ANALYSIS RESULTS | | | PER LAB | |
|-------|-----------|---------|---------|---------|------------------|-----|-------|---------|------|
| P | Center | | | | PIT NO | TPH | BETEX | WITNESS | DATE |
| I | NW Corner | | | | 1 | | | | |
| D | NE Corner | | | | 2 | | | | |
| | SW Corner | | | | 3 | | | | |
| | SE Corner | | | | | | | | |

RE-SAMPLE OR CELL(S) SAMPLE

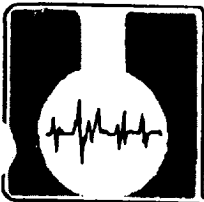
| DATE: | | Pit 1 @ | Pit 2 @ | Pit 3 @ | ANALYSIS RESULTS | | | PER LAB | |
|-------|-----------|---------|---------|---------|------------------|-----|-------|---------|------|
| P | Center | | | | PIT NO | TPH | BETEX | WITNESS | DATE |
| I | NW Corner | | | | 1 | | | | |
| D | NE Corner | | | | 2 | | | | |
| | SW Corner | | | | 3 | | | | |
| | SE Corner | | | | | | | | |



NOTES

4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT
SIDEWALL

1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER



**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

Report Generated:
June 2, 1997 15:31

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9705241
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 05/29/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9705241-01A
Sample ID: JAT 125 #10 PIT 1 SIDES

Collected: 05/27/97 14:00:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|------------------|--------|-------|--------|-----|--------------|-----------|
| BTEX/SW846 8020A | | | | | | |
| Benzene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |
| Toluene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |
| Ethylbenzene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |
| P-&m-Xylene | ND | mg/Kg | 0.0020 | 500 | 05/29/97 | SBTXME166 |
| O-Xylene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |

Lab ID: 9705241-01B
Sample ID: JAT 125 #10 PIT 1 SIDES

Collected: 05/27/97 14:00:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|----------------------------|--------|-------|-------|-----|--------------|----------|
| Diesel Range OG Soil/M8015 | | | | | | |
| Diesel Range OG in Soil | ND | mg/Kg | 50 | 1.0 | 05/29/97 | SDRO029 |

Lab ID: 9705241-02A
Sample ID: JAT 125 #10 PIT 1 BOTTOM

Collected: 05/24/97 14:15:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|------------------|--------|-------|--------|-----|--------------|-----------|
| BTEX/SW846 8020A | | | | | | |
| Benzene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |
| Toluene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |
| Ethylbenzene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |
| P-&m-Xylene | ND | mg/Kg | 0.0020 | 500 | 05/29/97 | SBTXME166 |
| O-Xylene | ND | mg/Kg | 0.0010 | 500 | 05/29/97 | SBTXME166 |



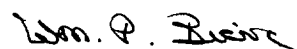
ID: 9705241-02B

Sample ID: JAT 125 #10 PIT 1 BOTTOM

Collected: 05/24/97 14:15:00

Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|---|--------|-------|-------|-----|--------------|----------|
| Diesel Range OG Soil/M8015 Diesel Range OG in Soil | 570 | mg/Kg | 50 | 1.0 | 05/29/97 | SDRO029 |



William P. Biava
President



Lab/job no.: 227 Date 5/29/57

Page 1 of 1

Project Manager / Contact ~~Jeff Cross~~

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature)

Contract / Purchase Order / Quote .

| AIL FRACTION NUMBER | Field Sample Number / Location | Date | Time | Sample Type | Type / Size of Container | Preservation | |
|---------------------------|-----------------------------------|---------|------|----------------|--------------------------|--------------|----------|
| | | | | | | Temp. | Chemical |
| 01A | JAT 125 #10 pit 30 pcs | 5-27-97 | 2:00 | 50:1 | 4029/ass | 4°C | ICE |
| 01B | " " " | | 2:02 | | | | |
| 02A | JAT 125 #10 pit 160 pcs | | 2:15 | | | | |
| 02B | " " " | | 2:15 | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | </ | |

| | | |
|---------------------------|--|---------|
| (illeguished by) | | Date |
| Signature <i>Jeff Lee</i> | | 5-28-97 |
| Printed <i>Jeff Lee</i> | | |
| Company <i>Apac Corp.</i> | | |
| Reason _____ | | |
| | | Time |
| | | 8:40 |

Received by: Elvin D. Carter
Signature Elvin D. Carter
Printed ELVIN D. CARTER
Company ALC-I
Reason _____

Relinquished by:

Signature _____

Printed _____

Company _____

Reason _____

| | |
|-------------|-------------|
| Date | 6/19/07 |
| Received by | Steven Dyer |
| Signature | Steven Dyer |
| Printed | Steven Dyer |
| Company | ABC |
| Reason | |
| Time | 8:00 PM |

Method of Shipment:

Shipment No. _____

Special instructions:

Comments: -

After analysis, samples are to be:

☐ Disposed of (additional information)

- ☐ Disposed of (additional fee)
 - ☐ Stored (30 days max)
 - ☐ Stored over 30 days (additional fee)
 - ☐ Returned to customer

[illegible]

MELOQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 553-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

WORKORDER COMMENTS

DATE : 06/02/97
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.

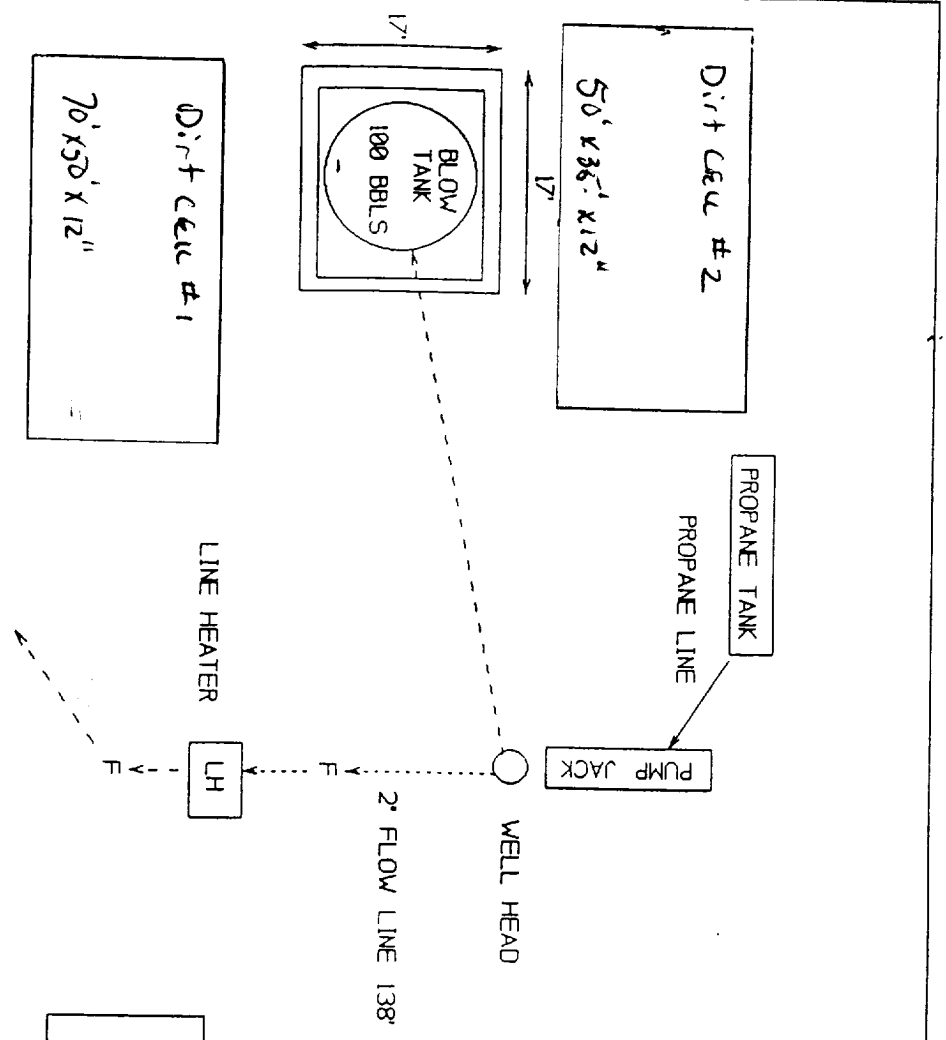
REPORT COMMENTS

NORTH

DRAINAGE

DRAINAGE

M W PETROLEUM
JICARILLA APACHE TRIBAL 125 NUMBER 10
SE/4 SE/4 (P)
SECTION 36, TOWNSHIP 25N, RANGE 4W
RIO ARRIBA COUNTY, NM



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>M W PETROLEUM</u> | | Telephone <u>505-325-0318</u> | |
| Address: <u>2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON, N. M. 87401-7947</u> | | | |
| Facility or Well Name: <u>JAT 125 # 10 CELL # 1</u> | | | |
| Location: Unit or Qtr/Qtr Sec <u>P</u> Sec <u>36</u> T <u>25 N</u> R <u>4 W</u> County <u>RIO ARRIBA</u> | | | |
| Land Type <u>JIC. TRIBAL</u> | | | |
| Date Remediation Started: <u>5/23/97</u> | | Date Completed: <u>5/19/98</u> | |
| Remediation Method: Landfarmed | | <u>XXX</u> | Approx. cubic yards <u>100</u> |
| Composted | | | |
| Other | | <u>Remediated soil to be put back in pit</u> | |
| Depth to Groundwater: (pts) <u>0</u> | | Final Closure Sampling Sampling Date: <u>5/19/98</u> Time: <u>10:10AM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>ND</u> Method <u>M8015</u> 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>6/4/98</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>use as backfill</u> | | | |
| SIGNED: <u>Kerr C Mammall</u> | | DATE: <u>6-23-98</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>M W PETROLEUM</u> | | Telephone <u>505-325-0318</u> | |
| Address: <u>2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON, N. M. 87401-7947</u> | | | |
| Facility or Well Name: <u>JAT 125 # 10 CELL # 2</u> | | | |
| Location: Unit or Qtr/Qtr Sec <u>P</u> Sec <u>36</u> T <u>25 N</u> R <u>4 W</u> County <u>RIO ARRIBA</u> | | | |
| Land Type <u>JIC. TRIBAL</u> | | | |
| Date Remediation Started: <u>5/23/97</u> | | Date Completed: <u>5/19/98</u> | |
| Remediation Method: Landfarmed <u>XXX</u> | | Approx. cubic yards <u>60</u> | |
| Composted <u> </u> | | | |
| Other <u>Remediated soil to be put back in pit</u> | | | |
| Depth to Groundwater: (pts) <u>0</u> | | Final Closure Sampling Sampling Date: <u>5/19/98</u> Time: <u>10:20AM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>ND</u> Method <u>M8015</u> 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>6/4/98</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 Marshall</u> | | DATE: <u>6-23-98</u> <u>use as backfill</u> | |

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE

JAT 125 # 10

* AMOUNT OF SOIL UNDERGOING REMEDIATION

166

Yds.

| | | | |
|--|----------------------------|------------------|-------------------|
| CELL No. <u>1</u> | SampDATE 5/19/98 | TPH ND | BTEX ND |
| DIMENSIONS(LxWxH) <u>70' X 50' X 12"</u> | | | |
| CELL LOCATION (dir. from well head) <u>NORTHWEST</u> | | | |
| * DATE BEGAN: <u>5/23/97</u> | | | |
| DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) | <u>5/19/98</u> | | |

| | | | |
|--|----------------------------|------------------|-------------------|
| CELL No. <u>2</u> | SampDATE 5/19/98 | TPH ND | BTEX ND |
| DIMENSIONS(LxWxH) <u>50' X 35' X 12"</u> | | | |
| CELL LOCATION (dir. from well head) <u>NORTHEAST</u> | | | |
| * DATE BEGAN: <u>5/23/97</u> | | | |
| DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) | <u>5/19/98</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)

5/30/97 TREAT SOIL WITH 46-0-0 FERTILIZER, WATER, PLOW AND TILL SOIL.

6/2/97 TILL SOIL.

7/15/97 TILL SOIL.

8/7/97 WATER, PLOW AND TILL SOIL.

9/9/97 TILL SOIL.

10/20/97 TREAT SOIL WITH 25LBS PHOSPHORUS, 48LBS LIME, WATER, PLOW AND TILL SOIL.

4/30/98 PLOW SOIL.

5/1/98 TILL SOIL. 5/10/98 TILL SOIL.

* FROM EXCAVATION REPORTS.

WELL NAME:

JAT 125 #10 cell #2

SAMPLE DATE:

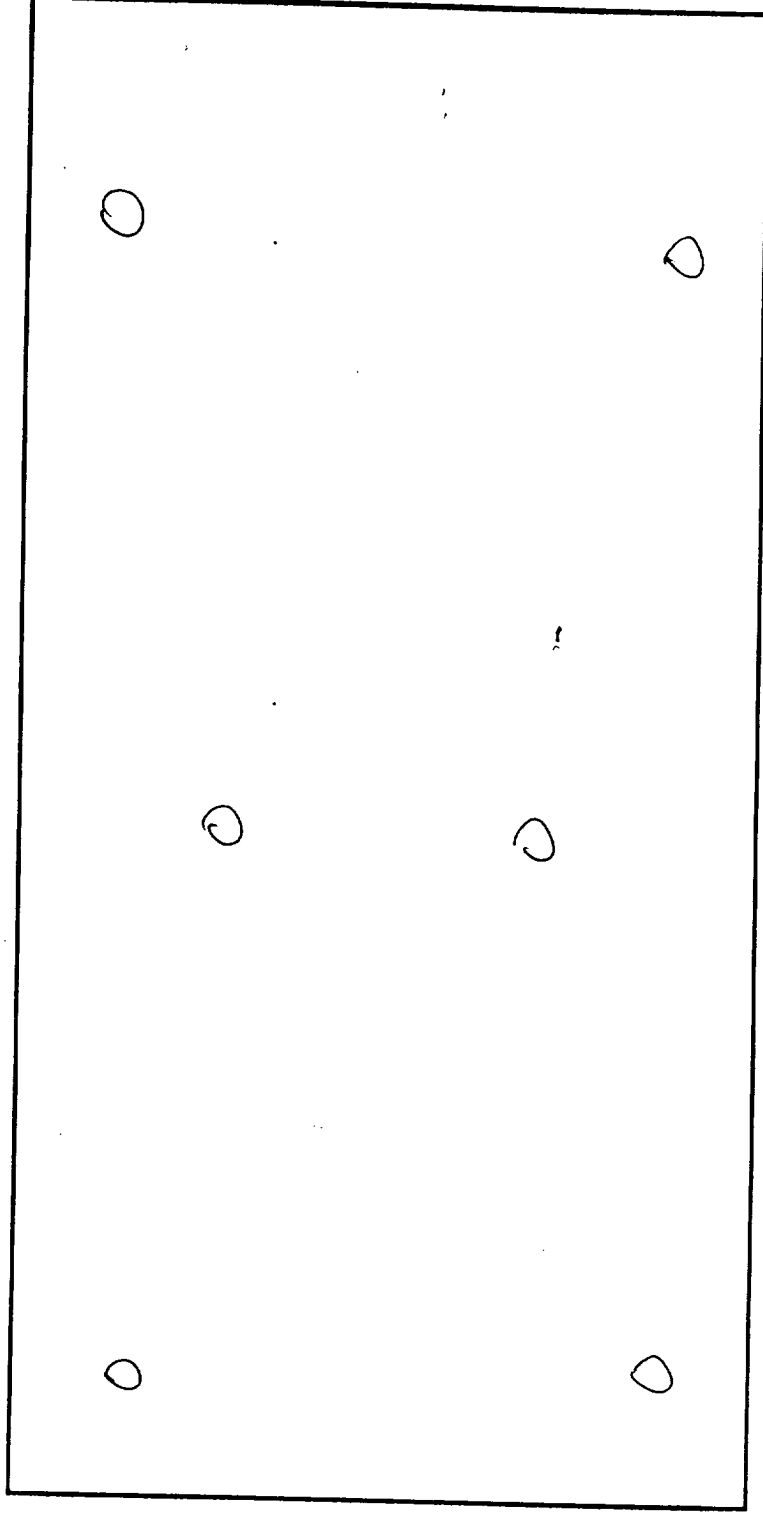
5-19-98

DIMENSIONS:

30' x 35' x 12"



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

6 point composite sample

WELL NAME:

SAT 125#10 Cell #1

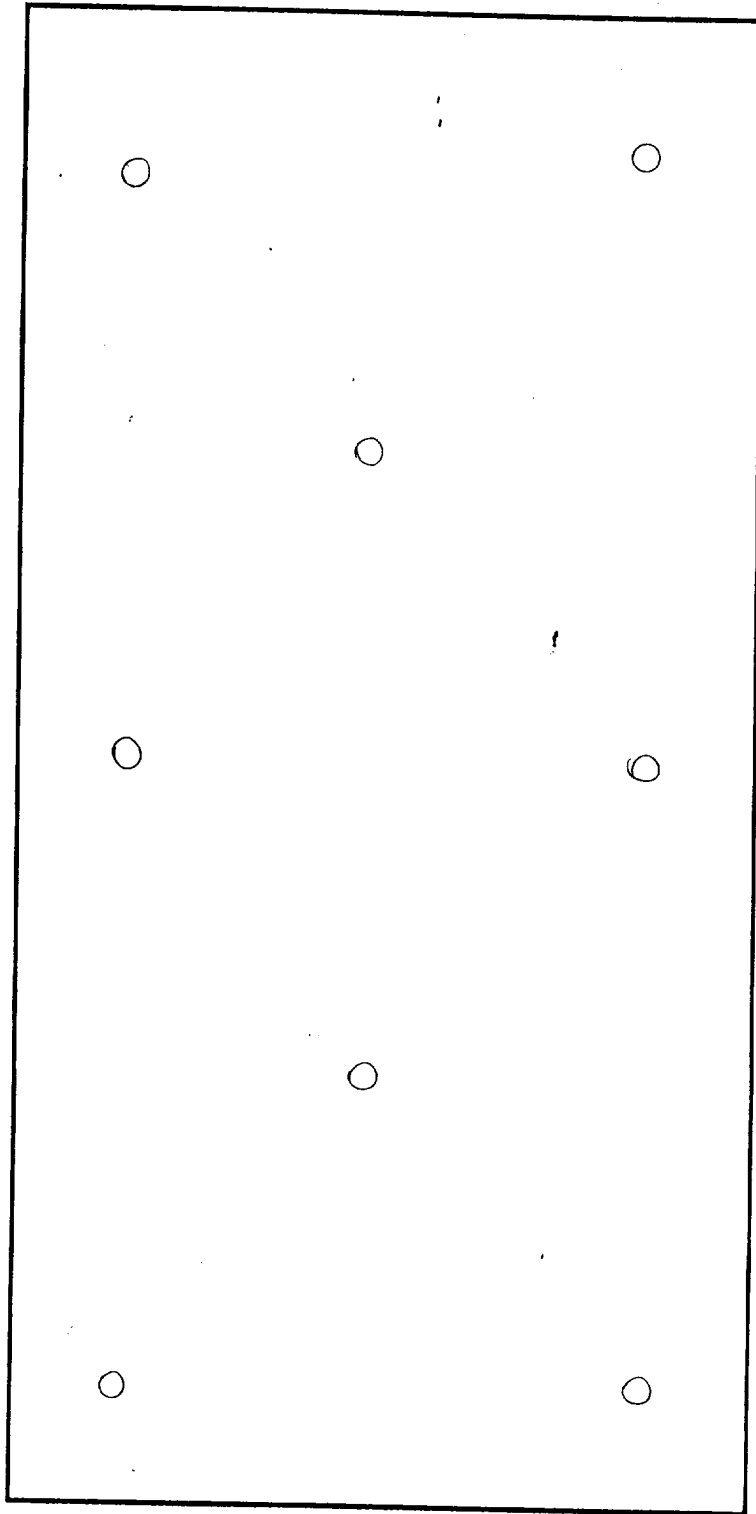
SAMPLE DATE:

70~~1~~000-12' 5-19-88

DIMENSIONS:

70' X 50' X 12"

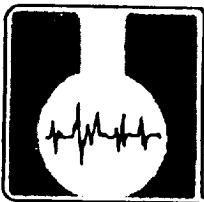
○ = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

8 point composite sample

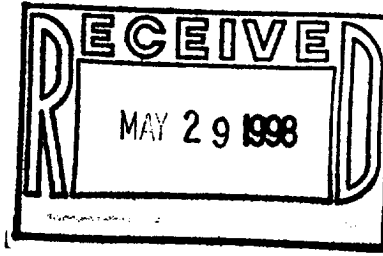


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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

APACHE CORPORATION
attn: JEFF CROSS
2855 SOUTHSIDE RIVER RD STE A
FARMINGTON, NM 87401-7947



* explanation of codes

| | |
|-----|----------------------------------|
| B | analyte detected in Method Blank |
| E | result is estimated |
| H | analyzed out of hold time |
| N | tentatively identified compound |
| S | subcontracted |
| 1-9 | see footnote |

Assaigai Analytical Laboratories, Inc.
Certificate of Analysis

Client: APACHE CORPORATION
Project: 9805202 JICARILLA

William P. Brava
William P. Brava, President of Assaigai Analytical Laboratories, Inc.

Client Sample ID: JAT 125 #10 CELL #1
Sample Matrix: SOIL
Sample Collected: 05/19/98 10:10:00

| Fraction | QC Group | CAS # | Result | Units | Dilution Factor | Detection Limit | * | Sequence | Run Date |
|--------------------------------|----------|----------|-----------------------|-------|-----------------|-----------------|-------|----------------|----------|
| SW846-8020 Volatiles | | | | | | | | | |
| 9805202-01A | X98285 | 71-43-2 | Benzene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-10 | 05/22/98 |
| | X98285 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-10 | |
| | X98285 | 95-47-6 | o-Xylene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-10 | |
| | X98285 | | p/m Xylenes | ND | mg / Kg | 50 | 0.01 | XG.1998.484-10 | |
| | X98285 | 108-88-3 | Toluene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-10 | |
| SW846-8015 Modified TPH | | | | | | | | | |
| 9805202-01B | X98286 | | Diesel Range Organics | ND | mg / Kg | 25 | 25 | XG.1998.488-15 | 05/23/98 |

Client Sample ID: JAT 125 #10 CELL #2
Sample Matrix: SOIL
Sample Collected: 05/19/98 10:20:00

| Fraction | QC Group | CAS # | Result | Units | Dilution Factor | Detection Limit | * | Sequence | Run Date |
|--------------------------------|----------|----------|-----------------------|-------|-----------------|-----------------|-------|----------------|----------|
| SW846-8020 Volatiles | | | | | | | | | |
| 9805202-02A | X98285 | 71-43-2 | Benzene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-11 | 05/22/98 |
| | X98285 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-11 | |
| | X98285 | 95-47-6 | o-Xylene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-11 | |
| | X98285 | | p/m Xylenes | ND | mg / Kg | 50 | 0.01 | XG.1998.484-11 | |
| | X98285 | 108-88-3 | Toluene | ND | mg / Kg | 50 | 0.005 | XG.1998.484-11 | |
| SW846-8015 Modified TPH | | | | | | | | | |
| 9805202-02B | X98286 | | Diesel Range Organics | ND | mg / Kg | 25 | 25 | XG.1998.488-16 | 05/23/98 |

