

DEC 17 1998

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

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

RECEIVED
JUL 8 1999

Approved
PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
FILE 3

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 # 125 #7</u>		
Location: Unit or Qtr/Qtr Sec	<u>H</u>	<u>Sec 35</u>	<u>T 25 N R 4W</u> County <u>Rio Arriba</u>
Pit Type: Separator:	<u>Dehydrator</u>	Other	<u>Blow Pit</u>
Land Type:	<u>Jicarilla Tribal</u>		

Beginning Pit Dimensions:	Length	<u>20'</u>	Width	<u>10'</u>	Depth	<u>3'</u>
Pit Location: Ending Pit Dimensions:	Length	<u>42'</u>	Width	<u>30'</u>	Depth	<u>9'</u>
(Attach diagram)	Reference:	Wellhead	<u>XXX</u>	Other		
	Footage from reference:	<u>100'</u>				
	Direction from reference:	<u>350</u>	Degrees	<u>X</u>	East of West	North South <u>XX</u>

Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	<u> </u>
	50 feet to 99 feet	(10 points)	<u> </u>
	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)	<u> </u>
	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)	<u> </u>
	200 feet to 1000 feet	(10 points)	<u> </u>
	Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS)	<u>0</u>
-------------------------------------	----------

Date Remediation Started:

6/30/97

Date Completed:

7/3/97

Remediation Method:

(Check all appropriate sections)

Excavation

XXX

Approx. cubic yards

420

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 9', took PID readings.

Spread soil on location for remediation. Took soil samples. Hit Bedrock @9' Sprayed pit with liquid fertilizer. Soil cell #1 & #2 to be put back in pit cell #3, spread dn location, contour pit

Groundwater Encountered:

No

XX

Yes

Depth

Final Pit:

Sample location

4 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 9'

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

Sample Date

7/3/97

Sample Time

3:40 P.M.

Sample results

Benzene

(ppm)

ND

Total BTEX

(ppm)

ND

Field Headspace

(ppm)

46.02

TPH

2500\side
3100\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

AND TITLE

Project Manager

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

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 # 7</u>			
Location:	Unit or Qtr/Qtr	Sec	County
	<u>H</u>	<u>SEC 35</u>	<u>T 25N R 4W</u>
Pit Type: Separator: _____ Dehydrator: _____ Other: <u>BLOW PIT</u>			
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)			
Pit Dimensions:	Length	Width	Depth
	<u>42'</u>	<u>30'</u>	<u>9'</u>
Reference:	Wellhead	Other	
	<u>XXX</u>	_____	
Footage from reference: <u>100'</u>			
Direction from reference: <u>350</u> Degrees _____ East _____ North <u>XX</u>			
_____ X _____ West _____ South _____			
Depth To Groundwater:			
(vertical distance from	Less than 50 feet	(20 points)	_____
contaminants to seasonal	50 feet to 99 feet	(10 points)	_____
high water elevation of	Greater than 100 feet	(0 points)	<u>0</u>
groundwater)			
Distance to an Ephemeral Stream:			
(Downgradient dry wash greater than	Less than 100 feet	(10 points)	_____
ten feet in width	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond:			
(Downgradient lakes, playas and	Less than 100 feet	(10 points)	_____
livestock or wildlife watering ponds)	Greater than 100 feet	(0 points)	<u>0</u>
Wellhead Protection Area:			
(Less than 200 feet from a private	Yes	(20 points)	_____
domestic water source, or less than	No	(0 points)	<u>0</u>
1000 feet from all other water sources)			
Distance To Surface Water:			
(Horizontal distance to perennial	Less than 100 feet	(20 points)	_____
lakes, ponds, rivers, streams, creeks,	100 feet to 1000 feet	(10 points)	_____
irrigation canals and ditches)	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

Date Remediation Started: <u>6/30/97</u>		Date Completed: <u>7.3-97</u>	
Remediation Method: (Check all appropriate sections)	Excavation <u>XXX</u>	Approx. cubic yards	<u>420</u>
	Landfarmed <u>XX</u>	Insitu Bioremediation	
	Other		
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>	Offsite
General Description of Remedial Action: <u>Excavate pit to 9', took PID readings. spread soil on location for remediation. Took soil samples. HIT BEDROCK @ 9'</u>			
<u>SPRAYED PIT WITH LIQUID FERTILIZER. Soil Cell 1:2 to be put back in pit Cell 3 spread on Conting pit Location.</u>			
Groundwater Encountered:		No <u>XXX</u>	Yes _____ Depth _____
Final Pit:	Sample location <u>4 POINT COMPOSITE SAMPLE TAKEN 8 TO 10" INTO PIT</u>		
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)	<u>SIDEWALLS, GRAB SAMPLE TAKEN 10" INTO PIT BOTTOM CENTER.</u>		
Sample depth	<u>9' 8" to 10" into pit side walls, 10" into pit bottom.</u>		
Sample Date	<u>7/3/97</u>	Sample Time	<u>3:40 AM</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>46.02</u>	Ethylbenzene (ppb) <u>NA</u>
	TPH (ppm)	<u>2500\SIDE 3100\BTM</u>	Total Xylenes (ppb) <u>NA</u>
Groundwater Sample:		Yes _____	No <u>XXX</u> (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	<u>6.8.98</u>	PRINTED NAME	<u>JEFF CROSS</u>
SIGNATURE	<u>Jeff Cross</u>	AND TITLE	<u>PROJECT MANAGER</u>
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED:	YES <u>X</u>	NO _____	(REASON) _____
SIGNED:	<u>Keith Mamm</u>		DATE: <u>6-23-98</u>

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 125 # 7

PIT COUNT 1

Jicarilla Apache Tribal EPO/OCD/BLM

Review and Approval

OCD—BLM

EPO Representative

Date of Review

Excavation								
DIMENSIONS			START: 6/30/97			FINISH: 7/3/97		
	W	L	D		W	L	D	CU YDS
Pit 1	10'	20'	3'	Pit 1	30'	42'	9'	420
Pit 2				Pit 2				
Pit 3				Pit 3				
	Pit 1 @ 7'	Pit 2 @	Pit 3 @		Pit 1 @ 9'	Pit 2 @	Pit 3 @	
P	Center	225		P	Center	136		
I	NW Corner	175		I	NW Corner	54.2		
D	NE Corner	145		D	NE Corner	30.7		
	SW Corner	80			SW Corner	2.8		
	SE Corner	98			SE Corner	6.4		

NOTES:

6/30/97 START EXCAVATION ON PIT , EXCAVATE DOWN TO 5' . HEAVY STAINING AND ODOR.

7/1/97 EXCAVATE DOWN TO 7', LIGHT STAINING, LIGHT ODOR. TOOK PID READINGS (HIGH)

7/2/97 EXCAVATE DOWN TO 9', NO ODOR . HIT BEDROCK

7/3/97 EXCAVATE PIT SIDES. TOOK PID READINGS (GOOD) BOTTOM A LITTLE HIGH.

7/3/97 TOOK SOIL SAMPLES AND SENT TO ASSAIGAI LABS.

SOIL SAMPLING

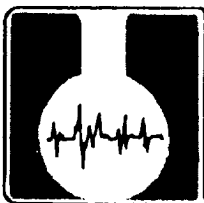
DATE:	7/3/97	Pit 1 @ 9'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P	Center	136			PIT	TPH	BETEX	WITNESS	DATE
I	NW Corner	54.2			NO	SIDE\BTM	SIDE\BTM		
D	NE Corner	30.7			1	2500\3100	ND\ND	JEFF C.	7/7/97
	SW Corner	2.8			2				
	SE Corner	6.4			3				

RE-SAMPLE OR CELL(S) SAMPLE

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

RE-SAMPLE OR CELL(S) SAMPLE

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



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

AUG 4 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:
July 11, 1997 14:26

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9707032
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 07/04/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9707032-01A
Sample ID: JAT 125 #7 SIDES

Collected: 07/03/97 15:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
Toluene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
Ethylbenzene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
P-&m-Xylene	ND	mg/kg	0.010	100	07/07/97	SBTXME175
O-Xylene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175

Lab ID: 9707032-01B
Sample ID: JAT 125 #7 SIDES

Collected: 07/03/97 15:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	2500	mg/Kg	50	25	07/08/97	SDRO040

Lab ID: 9707032-02A
Sample ID: JAT 125 #7 BOTTOM

Collected: 07/03/97 15:45:00
Matrix: SOIL

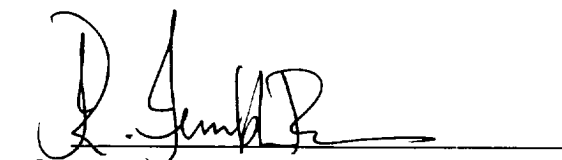
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	500	07/09/97	SBTXME176
Toluene	ND	mg/kg	0.0050	500	07/09/97	SBTXME176
Ethylbenzene	ND	mg/kg	0.0050	500	07/09/97	SBTXME176
P-&m-Xylene	ND	mg/kg	0.010	500	07/09/97	SBTXME176
O-Xylene	ND	mg/kg	0.0050	500	07/09/97	SBTXME176



ID: 9707032-02B
Sample ID: JAT 125 #7 BOTTOM

Collected: 07/03/97 15:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	3100	mg/Kg	50	25	07/08/97	SDRO040


for William P. Biava
President

WORKORDER COMMENTS

DATE : 07/11/97
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

ASSAIGAI
ANALYTICAL
LABORATORIES

ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

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

MELQUIADES ALANIS

6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation Project Manager / Contact Jeff Cross

Address 304 N. Behrend

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

Project Name / Number	JICARILLA PIT CLOSURES	Samplers: (Signature)
		<i>John M. ...</i>

Contract / Purchase Order / Quote

[illegible]

Method of Shipment:

Shipment No. _____

Special Instructions:

Comments:

Received by:	Relinquished by:
Signature <u>Don. P. Bland</u>	Signature _____
Printed <u>Don. P. Bland</u>	Printed _____
Company <u>SAIBAICA</u>	Company _____
Reason <u>Delivery</u>	Reason _____

Date	7-7-97
Time	9 AM

Received by: Carla Rubio
Signature: _____
Printed: _____
Company: AAL
Reason: _____

After analysis, samples are to be:

☐ Disposed of (additional fee)☐ Stored (30 days max)☐ Stored over 30 days (additional fee)

Returned to customer

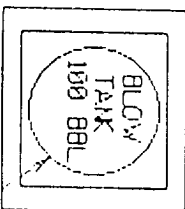
LABORATORY

NORTH

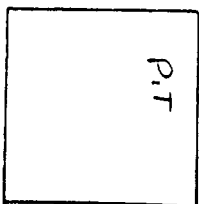
CRAINAGE

M W PETROLEUM
JICARILLA APACHE TRIBAL 125 WBL 7
SE/4 NE/4 QM JICARILLA CONTRACT 125
SECTION 35. TOWNSHIP 25N RANGE 4W
RIO ARriba COUNTY, NM

Dirt Faem
Cell #2
50' x 50' x 12"



P.T



Dirt Faem
Cell #1
140' x 50' x 12"

Heavy.

Dirt Faem
Cell #3
60' x 40' x 12"

○
WELLHEAD

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 # 7 CELL # 1</u>	
Location: Unit or Qtr/Qtr Sec <u>SE/NE</u> Sec <u>35</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>6-30-97</u> Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>259</u>	
Composted _____	
Other <u>Soil To Be put Back in Pit</u>	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>5/21/98</u> Time: <u>1:20PM</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>6/8/98</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 _____ (REASON) <u>use as Backfill</u>	
SIGNED: <u>Ken C. Mammill</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 # 7 CELL # 2</u>	
Location: Unit or Qtr/Qtr Sec <u>SE1NE</u> Sec <u>35</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>6-30-97</u> Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>92</u>	
Composted _____	
Other <u>Soil To Be put Back in pit</u>	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>5/21/98</u> Time: <u>1:30PM</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>6/8/98</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 _____ (REASON) <u>Use as Backfill</u>	
SIGNED: <u>Kevin C. Mamm</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 # 7 CELL # 3</u>	
Location: Unit or Qtr/Qtr Sec <u>SE1NE</u> Sec <u>35</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>6-30-97</u> Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>88</u>	
Composted _____	
Other <u>Soil To Be spread on location</u>	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>5/21/98</u> Time: <u>1:40PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>660</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>6/8/98</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 _____ (REASON) <u>Not for use as Backfill</u>	
SIGNED: <u>Ken C. Mann</u> DATE: <u>6-23-98</u>	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE

JAT 125 # 7

* AMOUNT OF SOIL UNDERGOING REMEDIATION

420

Yds.

CELL No. <u>1</u>	SampDATE 5/21/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>140' X 50' X 12"</u>			
CELL LOCATION (dir. from well head) <u>WEST</u>			
* DATE BEGAN: <u>6/30/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/21/98</u>			
CELL No. <u>2</u>	SampDATE 5/21/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>50' X 50' X 12"</u>			
CELL LOCATION (dir. from well head) <u>NORTH WEST</u>			
* DATE BEGAN: <u>6/30/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/21/98</u>			
CELL No. <u>3</u>	SampDATE 5/21/98	TPH 660	BTEX ND
DIMENSIONS(LxWxH) <u>60' X 40' X 12"</u>			
CELL LOCATION (dir. from well head) <u>SOUTHWEST</u>			
* DATE BEGAN: <u>6/30/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/21/98</u>			
REMEDATION RECORD: (Date, Treatment, Tilling)			
7/2/97 TREAT ALL CELLS WITH 46-0-0 FERTILIZER,WATER,PLOW AND TILL SOIL.			
7/15/97 PLOW AND TILL SOIL.			
8/7/97 WATER,PLOW AND TILL SOIL.			
9/8/97 TILL SOIL			
10/20/97 TREAT CELL # 1 WITH 20LBS PHOSPHORUS, 38LBS LIME,WATER,PLOW AND TILL ALL CELLS.			
5/6/98 PLOW SOIL. 5/7/98 TILL SOIL.			
5/12/98 PLOW SOIL. 5/13/98 TILL SOIL.			
5/20/98 PLOW AND TILL SOIL.			

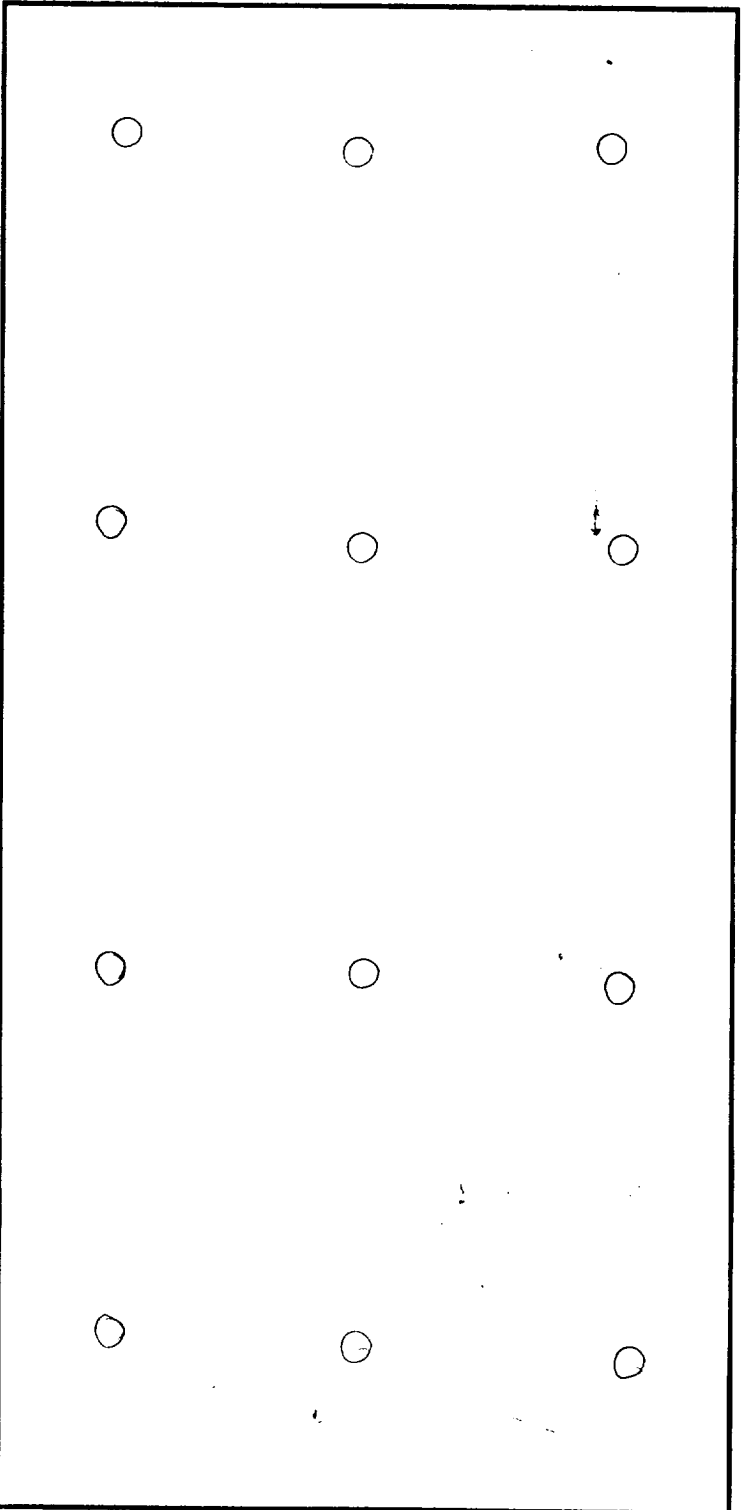
* FROM EXCAVATION REPORTS.

SAT 125 #7 coll d1

5-21-98

140' x 50' x 12

= SAMPLE AREA



ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

12 point composite sample

[illegible]

WELL NAME:

IAT 125-47 cell #2

SAMPLE DATE:

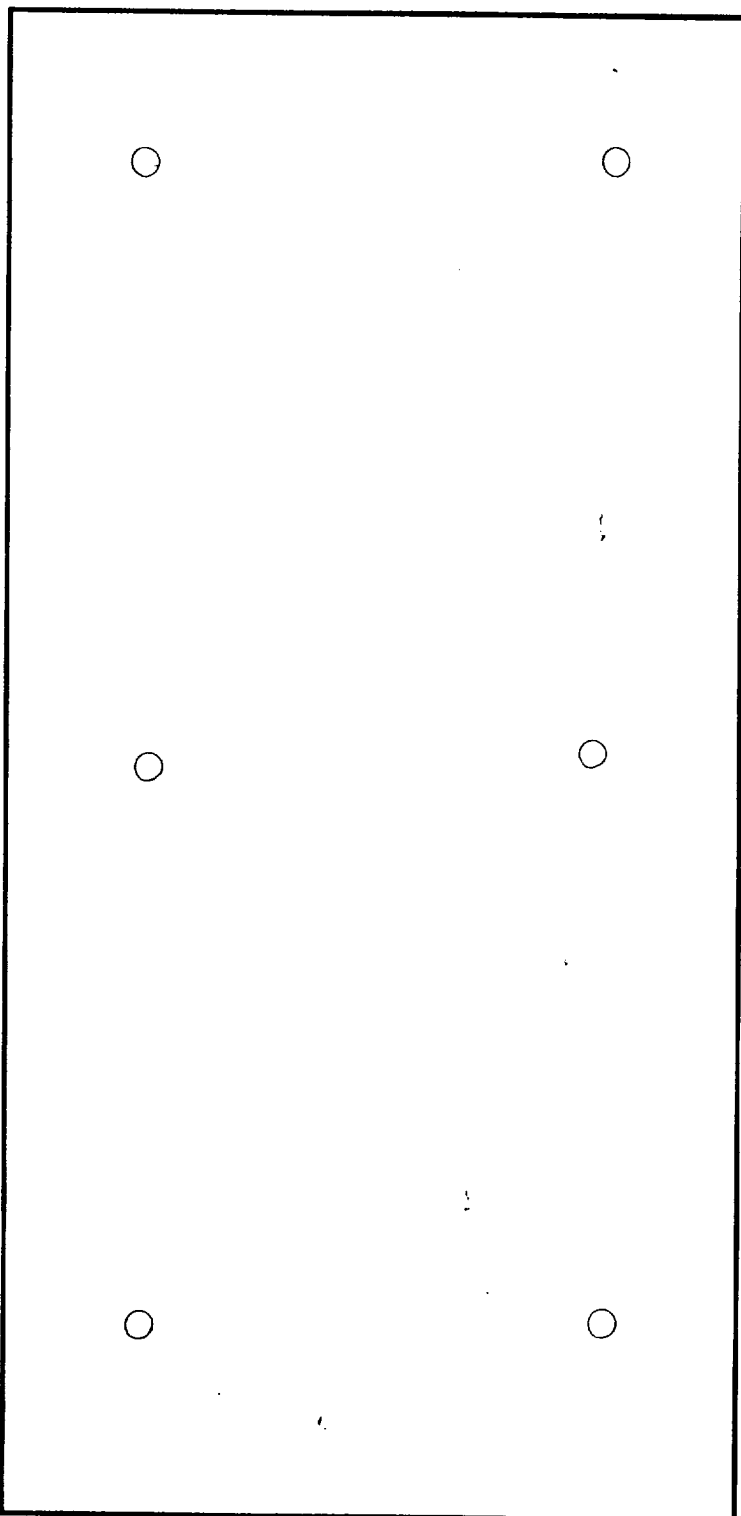
5-21-98

DIMENSIONS:

50' X 50' X 12"



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

6 point composite sample

WELL NAME:

JAT 125 #7 Cell #3

SAMPLE DATE:

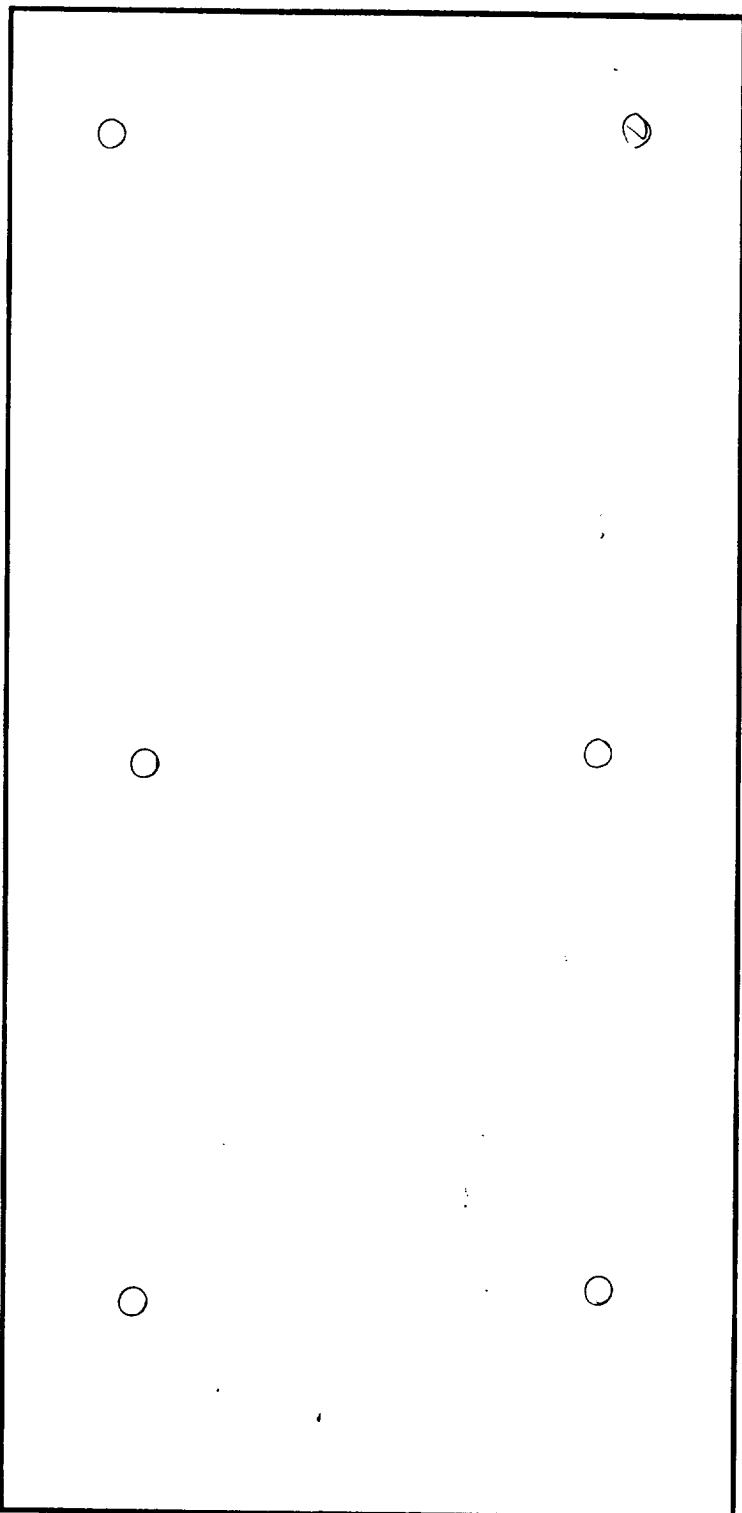
5-21-98

DIMENSIONS:

60' x 40' x 12''



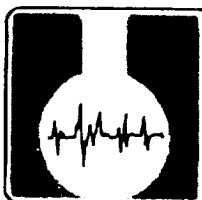
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

6 point composite sample

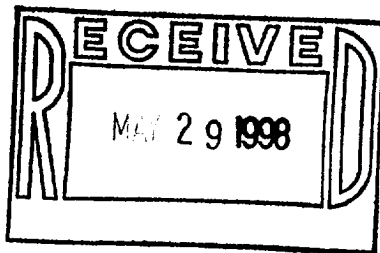


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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: 9805205 JICARILLA

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

Client Sample ID: JAT 125 #7 CELL #1
Sample Matrix: SOIL
Sample Collected: 05/21/98 13:20:00

<u>Fraction</u>	<u>QC Group</u>	<u>CAS #</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	*	<u>Sequence</u>	<u>Run Date</u>
SW846-8020 Volatiles									
9805205-01A	X98285	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG. 1998.484-15	05/22/98
	X98285	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG. 1998.484-15	
	X98285	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG. 1998.484-15	
	X98285		p/m Xylenes	ND	mg / Kg	50	0.01	XG. 1998.484-15	
	X98285	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG. 1998.484-15	
SW846-8015 Modified TPH									
9805205-01B	X98286		Diesel Range Organics	ND	mg / Kg	25	25	XG. 1998.488-20	05/23/98

Client Sample ID: JAT 125 #7 CELL #2
Sample Matrix: SOIL
Sample Collected: 05/21/98 13:30:00

<u>Fraction</u>	<u>QC Group</u>	<u>CAS #</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	*	<u>Sequence</u>	<u>Run Date</u>
SW846-8020 Volatiles									
9805205-02A	X98285	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG. 1998.484-16	05/23/98
	X98285	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG. 1998.484-16	
	X98285	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG. 1998.484-16	
	X98285		p/m Xylenes	ND	mg / Kg	50	0.01	XG. 1998.484-16	
	X98285	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG. 1998.484-16	
SW846-8015 Modified TPH									
9805205-02B	X98286		Diesel Range Organics	ND	mg / Kg	25	25	XG. 1998.490-4	05/26/98



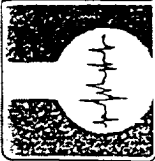
Assalgai Analytical Laboratories, Inc.
Certificate of Analysis

Client: **APACHE CORPORATION**
 Project: **9805205 JICARILLA**

Client Sample ID	JAT 125 #7 CELL #3	Sample Matrix	SOIL	Sample Collected	05/21/98 13:40:00
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<u>Fraction</u>	<u>QC Group</u>	<u>CAS #</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>*</u>	<u>Sequence</u>	<u>Run Date</u>
SW846-8020 Volatiles									
9805205-03A	X98285	71-43-2	Benzene	ND	mg / Kg	50	0.005		05/23/98
	X98285	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		
	X98285	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		
	X98285		p/m Xylenes	ND	mg / Kg	50	0.01		
	X98285	108-88-3	Toluene	ND	mg / Kg	50	0.005		
SW846-8015 Modified TPH									
9805205-03B	X98286		Diesel Range Organics	660	mg / Kg	25	25		05/23/98

*** Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. ***



ASSAIGAI
ANALYTICAL
LABORATORIES, INC.

Chain of Custody Record

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

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

Client Apache Corporation Project Manager / Contact Jeff Cross
Address 2855 Southside River RD, Ste. A Telephone No. (505) 774-6643
City / State / Zip Farmington, NM 87401-7947 Fax No. (505) 774-6624
Project Name / Number Jeff Cross
Contract / Purchase Order / Quote _____

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Method	Chemical
JAT 125 #7 cell #1	5-21-98	1:20	soil	4 oz glass	Ice	
JAT 125 #7 cell #2	5-21-98	1:30		4 oz glass		
JAT 125 #7 cell #3	5-21-98	1:40				

Analysis Required	Remarks
BTX	
DRO	
TKN	

Relinquished by: Signature <u>Jeff Cross</u> Printed <u>Jeff Cross</u> Company <u>Apache Corp</u> Reason _____	Date <u>5-22-98</u> Time <u>1:00</u>	Received by: Signature <u>Scott Pratt</u> Printed <u>Scott Pratt</u> Company <u>AAL</u> Reason _____	Relinquished by: Signature <u>Scott Pratt</u> Printed <u>Scott Pratt</u> Company <u>AAL</u> Reason _____	Date <u>22 May 98</u> Time <u>15:30</u>	Received by: Signature <u>Cindy Holand</u> Printed <u>Cindy Holand</u> Company <u>AAL</u> Reason _____
Method of Shipment: _____		Comments: _____		After analysis, samples are to be:	
Shipment No. _____		Special Instructions: _____		<input type="checkbox"/> Disposed of (additional fee)	
				<input type="checkbox"/> Stored (30 days max)	
				<input type="checkbox"/> Stored over 30 days (additional fee)	
				<input type="checkbox"/> Returned to customer	

LABORATORY