

District III

1000 Rio Arriba Rd

Aztec, NM

State of New Mexico

Energy, Minerals and Natural Resources Department

DEPUTY OIL & GAS INSPECTOR

JAN 27 1999

OIL CONSERVATION DIVISION

2040 S. PACHECO

Santa Fe, New Mexico 87505

Submit 1 copy to
Appropriate District

and 1 copy to

Santa Fe Office

RECEIVED
AUG 24 1998

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
DIST. 3Operator: Apache Corporation Telephone: 505-325-0318Address: 2855 Southside River Road, Suite A, Farmington, NM 87401Facility or Well Name: JAT # 125 #2Location: Unit or Qtr/Qtr Sec C Sec 35 T 25 N R 4W County Rio ArribaPit Type: Separator: _____ Dehydrator _____ Other Blow PitLand Type: Jicarilla TribalBeginning Pit Dimensions: Length 10' Width 10' Depth 4'Pit Location: Ending Pit Dimensions: Length 12' Width 12' Depth 6'
(Attach diagram)Reference: Wellhead XXX Other _____Footage from reference: 120'Direction from reference: 234 Degrees _____ East _____ North _____
_____ XX _____ West _____ South X

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)			

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 200 feet	(20 points)	_____
lakes, ponds, rivers, streams, creeks,	200 feet to 1000 feet	(10 points)	_____
irrigation canals and ditches)	Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS) 0

Date Remediation Started: 7/3/97 Date Completed: 7/3/97

Remediation Method:
(Check all appropriate sections)

Excavation	<u>XXX</u>	Approx. cubic yards	<u>50</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: Excavate pit to 6', took PID readings.

Spread soil on location for remediation. Took soil samples. Hit Bedrock @ 6', sprayed pit with liquid fertilizer. Cell #1 to be spread on location, Cell #2 to be put back in pit.

Groundwater Encountered: No XX Yes Depth

Final Pit: Sample location 4 point composite sample taken 8 to 10 " into pit sidewalls,

Closure Sampling:
(in multiple samples, attach sample results and diagram of sample locations and depths)

grab sample taken 10" into pit bottom center.

Sample depth 6' 8 to 10" into pit sidewalls 10" into pit bottom

Sample Date 7/3/97 Sample Time 2:40 PM
Sample results

Benzene (ppm) ND

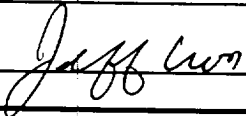
Total BTEX (ppm) ND

Field Headspace (ppm) 160.94

TPH ND\Sides
19000\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	<u>August 10, 1998</u>	PRINTED NAME	<u>Jeff Cross</u>
SIGNATURE	<u></u>	AND TITLE	<u>Project Manager</u>



Well Name:	JAT 125 #2
Well Site Location:	Unit C, Sec 35, T25N, R4W
Pit Type:	Blow Pit
Producing Formation:	Lindrith Gallup/Dakota West
Pit Category:	Non-Vulnerable
Horizontal Distance to Surface Water:	Greater than -- 1000 Ft
Vicinity Groundwater Depth:	Greater than -- 100 Ft

RISK ASSESSMENT

Pit remediation activities were terminated when Backhoe encountered sandstone bedrock at 6 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 6 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
2. Daily discharge into the earthen pit has been terminated. Prior discharge into the pit is believed to be under one barrel per day.
3. Test results of pit sides showed total BTEX and TPH to be non-detected.
4. Pit bottom test results showed total BTEX to be non-detected with a TPH of 19,000 PPM.

Based upon the information given, we conclude that the surface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of a permeable barrier as to subdue impact to groundwater below it. Apache Corporation requests pit closure approval on this location.

CHOCARILLA 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 # 2</u>																												
Location:	Unit or Qtr/Qtr Sec	<u>C</u>	<u>SEC 35 T 25N R 4W</u> County <u>RIO ARRIBA</u>																									
Pit Type:	Separator: <u> </u>	Dehydrator: <u> </u>	Other: <u>BLOW PIT</u>																									
Land Type: <u>JIC. TRIBAL</u>																												
<table border="0" style="width: 100%;"> <tr> <td>Pit Location:</td> <td>Pit Dimensions:</td> <td>Length <u>12'</u></td> <td>Width <u>12'</u></td> <td>Depth <u>6'</u></td> </tr> <tr> <td>(Attach diagram)</td> <td>Reference:</td> <td>Wellhead <u>XXX</u></td> <td>Other <u> </u></td> <td></td> </tr> <tr> <td></td> <td>Footage from reference:</td> <td><u>120'</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Direction from reference:</td> <td><u>234</u> Degrees</td> <td><u> </u> East</td> <td>North</td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>XX</u> West</td> <td>of South <u>X</u></td> </tr> </table>				Pit Location:	Pit Dimensions:	Length <u>12'</u>	Width <u>12'</u>	Depth <u>6'</u>	(Attach diagram)	Reference:	Wellhead <u>XXX</u>	Other <u> </u>			Footage from reference:	<u>120'</u>				Direction from reference:	<u>234</u> Degrees	<u> </u> East	North				<u>XX</u> West	of South <u>X</u>
Pit Location:	Pit Dimensions:	Length <u>12'</u>	Width <u>12'</u>	Depth <u>6'</u>																								
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(vertical distance from		50 feet to 99 feet	(10 points) <u> </u>																									
contaminants to seasonal		Greater than 100 feet	(0 points) <u>0</u>																									
high water elevation of																												
groundwater)																												
Distance to an Ephemeral Stream:		Less than 100 feet	(10 points) <u> </u>																									
(Downgradient dry wash greater than		Greater than 100 feet	(0 points) <u>0</u>																									
ten feet in width																												
Distance to Nearest Lake, Playa, or Watering Pond:		Less than 100 feet	(10 points) <u> </u>																									
(Downgradient lakes, playas and		Greater than 100 feet	(0 points) <u>0</u>																									
livestock or wildlife watering ponds)																												
Wellhead Protection Area:		Yes	(20 points) <u> </u>																									
(Less than 200 feet from a private		No	(0 points) <u>0</u>																									
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Distance To Surface Water:		Less than 100 feet	(20 points) <u> </u>																									
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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>																									

Date Remediation Started:		<u>7/3/97</u>		Date Completed:		<u>7-3-97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>450 50</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 6', took PID readings. spread soil on location for remediation. Took soil samples. HIT BEDROCK @ 6'</u>							
<u>SPRAYED PIT WITH LIQUID FERTILIZER. Cell #1 to be spread on location #2 to be put in pit</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>6'</u>		<u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>7/3/97</u>		Sample Time		<u>2:40PM</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>160.94</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND\SIDES</u>		Total Xylenes	(ppb)	<u>NA</u>
			<u>19000\BTM</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>6-15-98</u>		PRINTED NAME		JEFF CROSS			
SIGNATURE <u>Jeff Cross</u>		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 <u>X</u>		NO _____		(REASON) <u>RA Attached</u>	
SIGNED: <u>Jeff Cross</u>		DATE:		<u>7-29-98</u>			

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 125 # 2

PIT COUNT 1

Jicarilla Apache Tribal EPO/OCD/BLM

Review and Approval

OCD-BLM

EPO Representative

Date of Review

Excavation								
DIMENSIONS			START: 7/3/97			FINISH: 7/3/97		
	W	L	D		W	L	D	CU YDS
Pit 1	10'	10'	4'	Pit 1	12'	12'	6'	50
Pit 2				Pit 2				
Pit 3				Pit 3				
	Pit 1 @ 6'	Pit 2 @	Pit 3 @		Pit 1 @ 6'	Pit 2 @	Pit 3 @	
P	Center	701		P	Center	701		
I	NW Corner	53		I	NW Corner	53		
D	NE Corner	2.4		D	NE Corner	2.4		
	SW Corner	46.6			SW Corner	46.6		
	SE Corner	1.7			SE Corner	1.7		

NOTES:

7/3/97 START EXCAVATION ON PIT , HIT BED ROCK AT 6' (2' BELOW PIT BOTTOM)

TOOK PID READINGS , PIT SIDES GOOD , PIT BOTTOM HIGH. LIGHT STAINING ON BOTTOM , WITH LIGHT ODOR.

7/3/97 TOOK SOIL SAMPLES AND SENT TO ASSAIGAI LAB. SIDES PASSED , BOTTOM FAILED.

HIT BEDROCK

SOIL SAMPLING

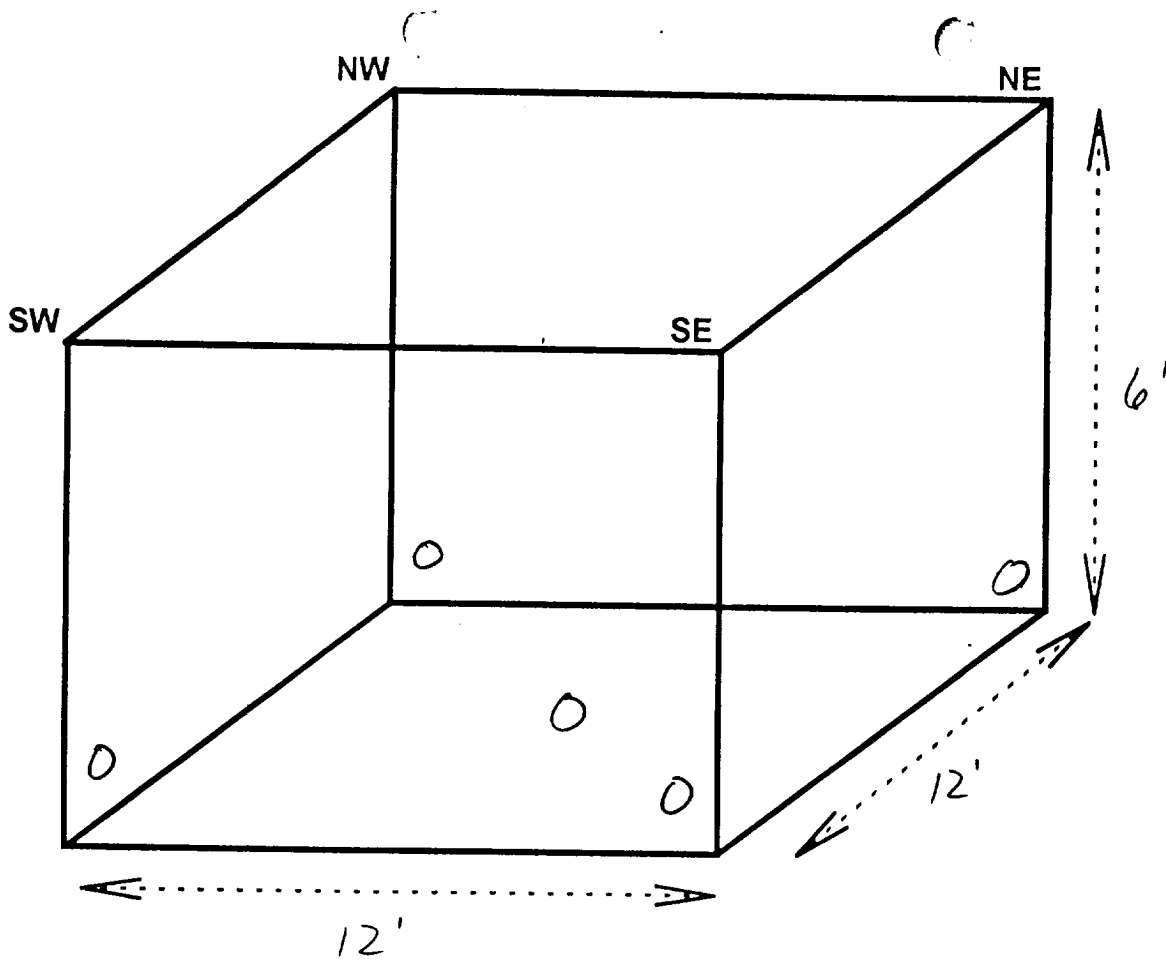
DATE: 7/3/97		Pit 1 @ 6'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P	Center	701			PIT NO	TPH	BETEX	WITNESS	DATE
I	NW Corner	53				SIDE\BTM	SIDE\BTM		
D	NE Corner	2.4			1	ND\19000	ND\ND	JEFF C.	7/7/97
	SW Corner	46.6			2				
	SE Corner	1.7			3				

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								
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 NO	TPH	BETEX	WITNESS	DATE
I	NW Corner								
D	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

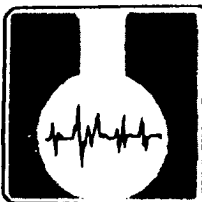


○ = SAMPLE AREA

WELL NAME JAT 125 # 2

SAMPLE DATE 7-3-97

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

AUG 14 1997

Report Generated:
July 11, 1997 14:31

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9707033
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 07/04/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9707033-01A
Sample ID: JAT 125 #2 SIDES

Collected: 07/03/97 14:40:00
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: 9707033-01B
Sample ID: JAT 125 #2 SIDES

Collected: 07/03/97 14:40:00
Matrix: SOIL

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

Lab ID: 9707033-02A
Sample ID: JAT 125 #2 BOTTOM

Collected: 07/03/97 14:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	10000	07/09/97	SBTXME176
Toluene	ND	mg/kg	0.0050	10000	07/09/97	SBTXME176
Ethylbenzene	ND	mg/kg	0.0050	10000	07/09/97	SBTXME176
P-&m-Xylene	ND	mg/kg	0.010	10000	07/09/97	SBTXME176
O-Xylene	ND	mg/kg	0.0050	10000	07/09/97	SBTXME176



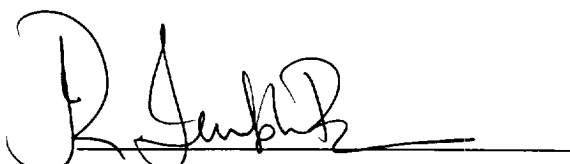
Lab ID: 9707033-02B

Sample ID: JAT 125 #2 BOTTOM

Collected: 07/03/97 14:45:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	19000	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



7033

Lab job no.: 1003 Date: 2/4/11

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

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

MELQUIADES ALANIS


64111 LOCAL UNO

CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation Project Manager / Contact Jeff Cross

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

City/State/Zip Farmington, NM 87401

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

Contract / Purchase Order / Quote

Relinquished by: Signature <u>Jeff Lewis</u> Printed <u>JEFF LEWIS</u> Company <u>Apache Corp</u> Reason _____	Date <u>7-4-97</u> Time <u>10:46</u>	Received by: Signature <u>Glen. Q. Baird</u> Printed <u>Glen. Q. Baird</u> Company <u>ASSAULT</u> Reason <u>Delivery</u>	Relinquished by: Signature _____ Printed _____ Company _____ Reason _____
--	---	--	---

Method of Shipment:

Shipment No.

Special Instructions:

Comments:

Date	7-7-97	Received by:	Cada Rubio
Time	9 AM	Signature	
		Printed	AA
		Company	
		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

GENERAL DRAINAGE

MW PETROLEUM

JICARILLA TRIBAL 125 NUMBER 2

TESTING SATELLITE "C"

SECTION 35, TOWNSHIP 25N, RANGE 4W

RIO ARriba COUNTY, NM

LADO Farm #1 240'x50'x12"

Existing Soil from Previous Amoco oil spill.

S
TEST

TEST HEADER

125 # 9
125 # 7
125 # 5
125 # 3
125 # 1

Well Head

LADO Farm
Cell #2
50'x30'x12"

100 Blbl
Blow
TANK

Pit

120' FWH
234' WSW

GM

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

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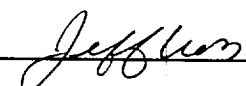

ON-SITE SOIL REMEDIATION REPORT

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 # 2 CELL # 1 (EXISTING SOIL FROM PREVIOUS AMOCO SPILL)</u>			
Location: Unit or Qtr/Qtr Sec <u>C</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>7/3/97</u>		Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>440</u>	
Composted <u> </u>			
Other <u> </u>			
SOIL TO BE SPREAD ON LOCATION.			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>5/21/98</u> Time: <u>1:00PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>960</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>6/15/98</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>7-29-98</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 # 2 CELL # 2</u>			
Location: Unit or Qtr/Qtr Sec <u>C</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>7/3/97</u>		Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>50</u>	
Composted <u> </u>			
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>1:10PM</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>6/15/98</u>		PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u></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></u>		DATE: <u>7-29-98</u>	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE

JAT 125 # 2

* AMOUNT OF SOIL UNDERGOING REMEDIATION

490

Yds.

CELL No. <u>1</u>	SampDATE 5/21/98	TPH 960	BTEX ND
DIMENSIONS(LxWxH) <u>240' X 50' X 12"</u>			
CELL LOCATION (dir. from well head) <u>EAST</u>			
* DATE BEGAN: <u>7/3/97</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 30' X 12"</u>			
CELL LOCATION (dir. from well head) <u>SOUTH</u>			
* DATE BEGAN: <u>7/3/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/21/98</u>			
CELL No. <u>3</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH)			
CELL LOCATION (dir. from well head)			
* DATE BEGAN:			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm)			
REMEDICATION RECORD: (Date, Treatment, Tilling)			
7/7/97 TREAT CELL # 1 AND # 2 WIYH 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 51LBS PHOSPHORUS,78LBS LIME,WATER,PLOW AND TILL SOIL.			
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.

WELL NAME:

SAT 125 #2 call #2

SAMPLE DATE:

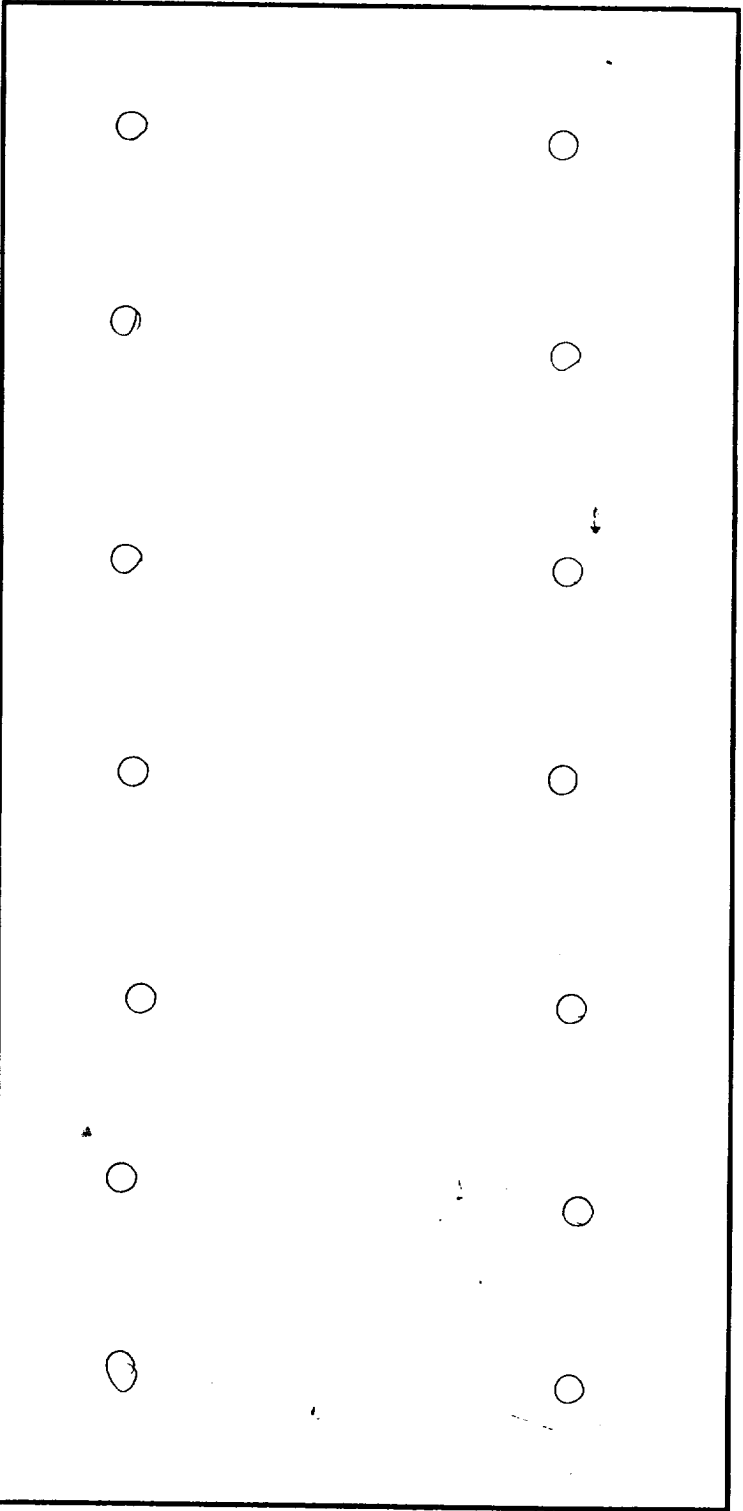
5-21-98

DIMENSIONS:

240' x 30' x 12"



= SAMPLE AREA



NOTES:

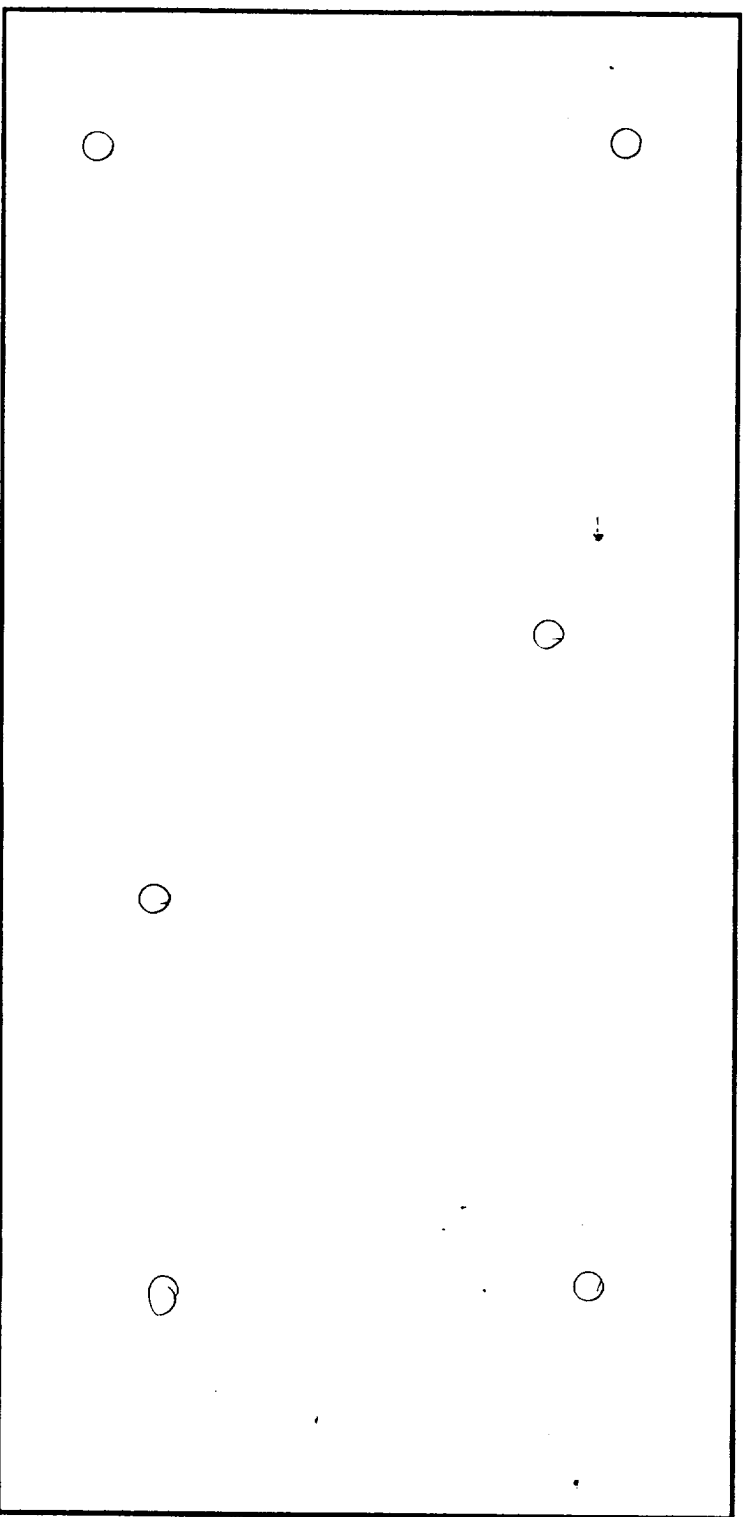
ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

14 point composite sample

WELL NAME: JAT 125 #2 cell #2
SAMPLE DATE: 5-21-98
DIMENSIONS: 50' x 30' x 12"



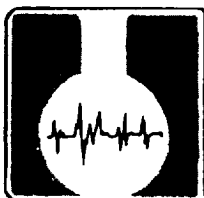
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

Leak and Composite Sample

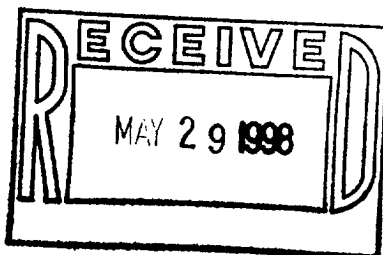


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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: 9805206 JICARILLA

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

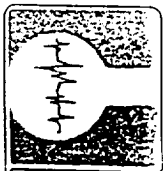
Client Sample ID: JAT 125 #2 CELL #1 Sample Matrix: SOIL Sample Collected: 05/21/98 13:00:00

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8020 Volatiles									
9805206-01A	X98285	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.484-18	05/23/98
	X98285	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.484-18	
	X98285	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.484-18	
	X98285		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.484-18	
	X98285	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.484-18	
SW846-8015 Modified TPH									
9805206-01B	X98286		Diesel Range Organics	960	mg / Kg	25	25	XG.1998.488-23	05/23/98

Client Sample ID: JAT 125 #2 CELL #2 Sample Matrix: SOIL Sample Collected: 05/21/98 13:10:00

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8020 Volatiles									
9805206-02A	X98285	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.484-19	05/23/98
	X98285	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.484-19	
	X98285	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.484-19	
	X98285		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.484-19	
	X98285	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.484-19	
SW846-8015 Modified TPH									
9805206-02B	X98286		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.488-24	05/23/98





ASSAIGAI
ANALYTICAL
LABORATORIES, INC.

Chain of Custody Record

Lab job no.:

52050

Date

5/22/98

Page _____ of _____

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 _____

Samplers: (Signature) Jeff Cross

Contract / Purchase Order / Quote _____

ANALYSIS NUMBER	Field Sample Number/Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp. & Chemical
-----------------	------------------------------	------	------	-------------	--------------------------	-------------------------------

1A	SAT 125 #2 cell #1	5-21-98	1:00	Soil	4 oz glass	Ice
1B	1	1	1:10	4 oz glass	1	1
2A	SAT 125 #2 cell #2	1	1:10	1	1	1
2B	1	1	1	1	1	1

Analysis Required		Remarks
No. of Containers		
BTEX		
DRO		
TKN		

Relinquished by: Jeff Cross
Signature Jeff Cross
Printed JEFF CROSS
Company Apache
Reason _____
Date 5-22-98
Time 1:00

Received by: Scott Pratt
Signature Scott Pratt
Printed SCOTT PRATT
Company AAL
Reason _____
Relinquished by: Scott Pratt
Signature Scott Pratt
Printed SCOTT PRATT
Company AAL
Reason _____

Date 22 May 98
Time 15:30
Received by: Scott Pratt
Signature Scott Pratt
Printed SCOTT PRATT
Company AAL
Reason _____

Method of Shipment: _____
Shipment No. _____
Special Instructions: _____

Comments: _____

After analysis, samples are to be:

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

LABORATORY