

District III
1000 Rio Brazos Rd
Aztec, NM 87410

Denny S. Z...
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

JAN 27 1998

Submit 1 copy to
Appropriate District
and 1 copy to
Bureau Office

RECEIVED
AUG 24 1998

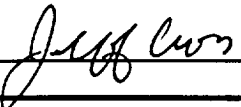
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator:	<u>Apache Corporation \ MW Petroleum</u>		Telephone:	<u>505-325-0318</u>	
Address:	<u>2855 Southside River Road, Suite A, Farmington, NM 87401</u>				
Facility or Well Name:	<u>Jic Apache Tribal 396 #7</u>				
Location: Unit or Qtr/Qtr Sec	<u>NE/SE</u>	<u>Sec 17</u>	<u>T 23 N</u>	<u>R 3W</u>	County <u>Rio Arriba</u>
Pit Type: Separator:			Dehydrator		
			Other	<u>Blow Pit</u>	
Land Type:	<u>Jicarilla Tribal</u>				
Beginning Pit Dimensions:		Length	<u>15'</u>	Width	<u>15'</u>
		Depth	<u>3'</u>		
Pit Location:	Ending Pit Dimensions:	Length	<u>24'</u>	Width	<u>24'</u>
(Attach diagram)		Depth	<u>14'</u>		
Reference:	Wellhead	<u>XXX</u>	Other		
Footage from reference:	<u>100'</u>				
Direction from reference:	<u>320</u>	Degrees		East	<u>X</u>
				North	
				of	
			<u>X</u>	West	
				South	
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>

Date Remediation Started:		<u>5/6/97</u>	Date Completed:		<u>5/27/97</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards	<u>300</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 14', took PID readings. Spread soil on</u>			
		<u>location for remediation. Took soil samples. Remediated soil to be put back in pit.</u>			

Groundwater Encountered:		No <u>XX</u>	Yes _____	Depth _____	
Final Pit:	Sample location	<u>4 point composite sample taken 8 to 10" into pit sidewalls,</u>			
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)		<u>Grab sample taken 10" into pit bottom center.</u>			
	Sample depth <u>14'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
	Sample Date	<u>5/12/97</u>	Sides _____	Sample Time	<u>2:00 PM</u> Sides _____
	Sample results	Resample 5/27/98 BTM		11:15 AM BTM	
	Benzene	(ppm)	<u>ND/Sides</u>	ND/BTM	
	Total BTEX	(ppm)	<u>ND/Sides</u>	ND/BTM	
	Field Headspace	(ppm)	<u>34.86</u>		
	TPH		<u>3400\Sides</u> <u>3200\BTM</u>		
Groundwater Sample:	Yes _____	No <u>XX</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>August 10, 1998</u>	PRINTED NAME	<u>Jeff Cross</u>		
SIGNATURE		AND TITLE	<u>Project Manager</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

PIT REMEDIATION AND CLOSURE REPORT

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>JAT 396 # 7</u>			
Location:	Unit or Qtr/Qtr Sec	<u>NE\SE</u> Sec <u>17</u>	T <u>23</u> N <u>R 3</u> W County <u>Rio Arriba</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>BLOW PIT</u>
Land Type: <u>Jicarilla Tribal</u>			
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>24'</u>	Width <u>24'</u> Depth <u>14'</u>
	Reference:	Wellhead <u>XX</u>	Other <u> </u>
	Footage from reference:	<u>100'</u>	
	Direction from reference:	<u>320</u> Degrees	East <u> </u> North <u>X</u>
		<u>X</u> West	of South <u> </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>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)		Less than 100 feet	(10 points) <u> </u>
		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) <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 100 feet	(20 points) <u> </u>
		100 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: 5/6/97 **Date Completed:** 5/27/97

Remediation Method: (Check all appropriate sections)
 Excavation XXX Approx. cubic yards 300
 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 14", TOOK PID READINGS.
SPREAD SOIL ON LOCATION FOR REMEDIATION. TOOK SOIL SAMPLES .
REMEDIED SOIL TO BE PUT BACK IN PIT.

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location 4 point composite taken from pit sidewalls

Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)
1 point grab sample taken from pit bottom center.

Sample depth 14'

Sample Date 5/12/97 SIDES ^{Resample} 5/27/98 BTM Sample Time SIDES - 2:00PM
BTM-11:15AM

Sample results

Soil:	Benzene	(ppm)	ND-SIDES	Water:	Benzene	(ppb)	<u>NA</u>
			ND-BTM				
	Total BTEX	(ppm)	ND-SIDES		Toluene	(ppb)	<u>NA</u>
			ND-BTM				
	Field Headspace	(ppm)	<u>34.86</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>3400-SIDES</u>		Total Xylenes	(ppb)	<u>NA</u>
			<u>3200-BTM</u>				

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 7/16/98 **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 Marshall **DATE:** 7-29-98

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 396 # 7

PIT COUNT 1

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

Excavation								
DIMENSIONS			START: 5/6/97			FINISH: 5/27/97		
	W	L	D		W	L	D	CU YDS
Pit 1	15'	15'	3'	Pit 1	24'	24'	14'	300
Pit 2				Pit 2				
Pit 3				Pit 3				
		Pit 1 @ 6'	Pit 1 @ 10'	Pit 1 @ 12'		Pit 1 @ 14'	Pit 2 @	Pit 3 @
P I D	Center	2500+	356	238	P I D	Center	93.4	
	NW Corner	2500+	320	203		NW Corner	29.2	
	NE Corner	2500+	400	300		NE Corner	39.3	
	SW Corner	2500+	325	250		SW Corner	80.3	
	SE Corner	2500+	300	158		SE Corner	33.3	

NOTES:

5/6/97 START EXCAVATION ON PIT , HEAVY STAINING AND ODOR,EXCAVATE TO 6' PID READINGS HIGH
LIGHT GRAY STAINING AT 6' WITH HEAVY ODOR.

5/7/97 EXCAVATE DOWN TO 10' , TOOK PID READINGS (HIGH)

5/8/97 EXCAVATE PIT SIDE WALLS ,HEAVY STAINING.

5/9/97 CONTINUE EXCAVATING PIT SIDE WALLS OUT TO 24'.

5/12/97 EXCAVATE PIT BOTTOM DOWN TO 12' PID READINGS STILL ALITTLE HIGH .

5/12/97 TOOK SOIL SAMPLES AND SENT TO ASSAIGAI LABS. (SIDE SAMPLE GOOD , BOTTOM SAMPLE FAILED)

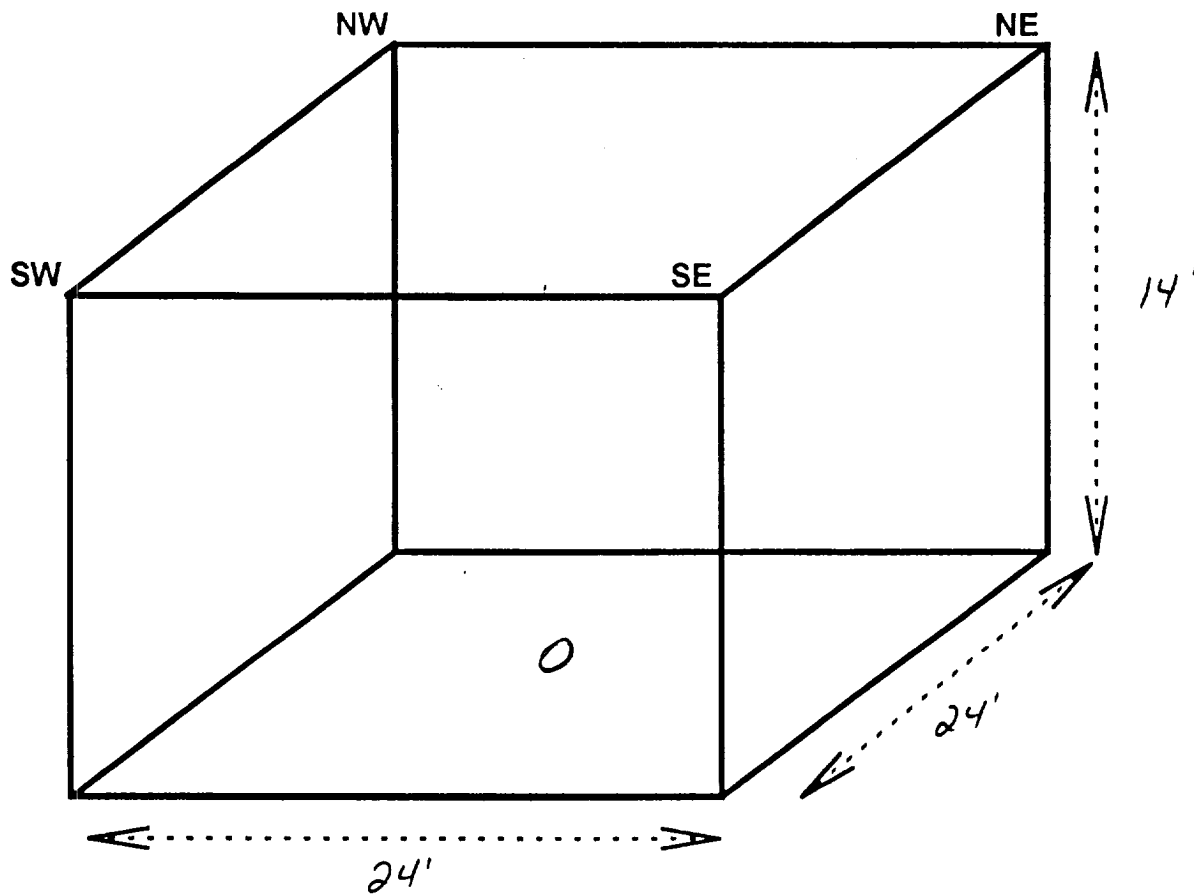
5/27/97 EXCAVATE PIT BOTTOM DOWN TO 14' PID READINGS GOOD.

5/27/97 RESAMPLE PIT BOTTOM AND SEND TO ASSAIGAI LABS. (PIT BOTTOM SAMPLE GOOD)

SOIL SAMPLING									
DATE: 5/12/97		Pit 1 @ 12'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P I D	Center	198			PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner	175				SIDE\BTM	SIDE\BTM		
	NE Corner	225			1	3400\9500	ND\ND	JEFF C.	5/16/97
	SW Corner	200			2				
	SE Corner	120			3				

RE-SAMPLE OR CELL(S) SAMPLE									
DATE: 5/27/97		Pit 1 @ 14'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P I D	Center	88			PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner	20.5				SIDE\BTM	SIDE\BTM		
	NE Corner	22.7			1	3400\3200	ND\ND	JEFF C.	5/29/97
	SW Corner	25.1			2				
	SE Corner	18			3				

RE-SAMPLE OR CELL(S) SAMPLE									
DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P I D	Center				PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner								
	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

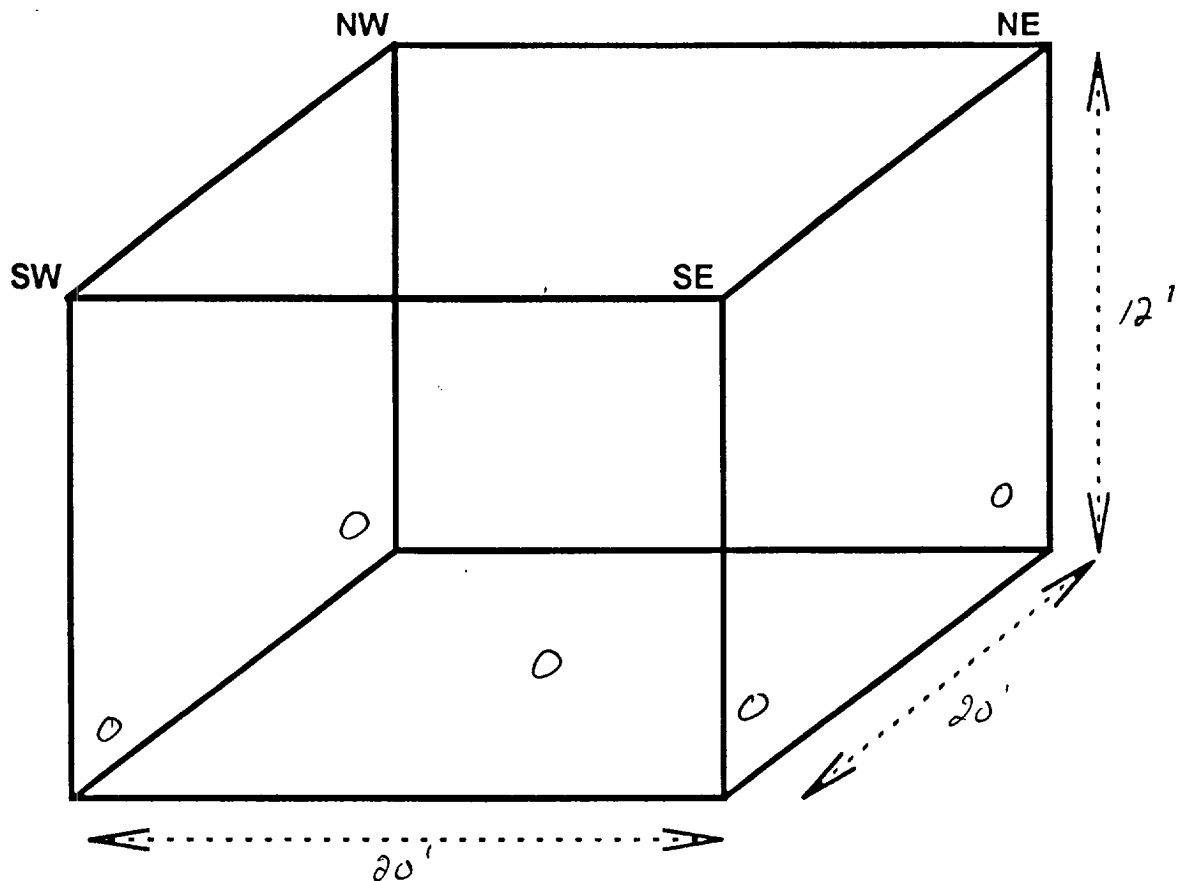


○ = SAMPLE AREA

WELL NAME JAT 396 #7

SAMPLE DATE 5-27-97 Resample.

NOTES 4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT
SIDEWALL
1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER

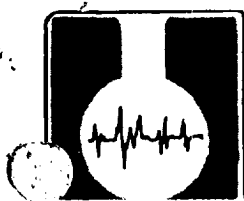


○ = SAMPLE AREA

WELL NAME JAT 396 #7

SAMPLE DATE 5-12-97

NOTES 4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT
SIDEWALL
1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER
TEST RESULTS FAILED. CONTINUE EXCAVATING
Resample 5-27-97



**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

MAY 27 1997

Report Generated:
May 21, 1997 15:01

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9705136
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 05/14/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9705136-01A
Sample ID: JAT396 #7 PIT 1 SIDES

Collected: 05/12/97 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	1250	05/16/97	SBTXME162
Toluene	ND	mg/Kg	0.0010	1250	05/16/97	SBTXME162
Ethylbenzene	ND	mg/Kg	0.0010	1250	05/16/97	SBTXME162
P-&m-Xylene	ND	mg/Kg	0.0020	1250	05/16/97	SBTXME162
O-Xylene	ND	mg/Kg	0.0010	1250	05/16/97	SBTXME162

Lab ID: 9705136-01B
Sample ID: JAT396 #7 PIT 1 SIDES

Collected: 05/12/97 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	3400	mg/Kg	50	5.0	05/16/97	SDRO26

Lab ID: 9705136-02A
Sample ID: JAT396 #7 PIT 1 BOTTOM 5-27-97

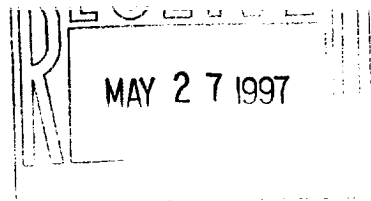
Reservoir Bottom
Resample Bottom

See new Test Results

Collected: 05/12/97 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	10000	05/16/97	SBTXME163
Toluene	ND	mg/Kg	0.0010	10000	05/16/97	SBTXME163
Ethylbenzene	ND	mg/Kg	0.0010	10000	05/16/97	SBTXME163
P-&m-Xylene	ND	mg/Kg	0.0020	10000	05/16/97	SBTXME163
O-Xylene	ND	mg/Kg	0.0010	10000	05/16/97	SBTXME163



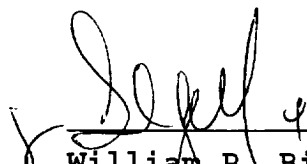


Page: 2

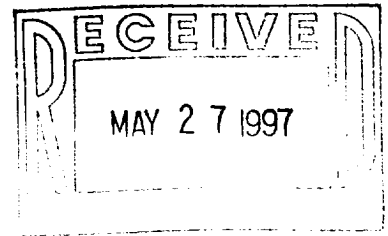
ID: 9705136-02B
Sample ID: JAT396 #7 PIT 1 BOTTOM

Collected: 05/12/97 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	9500	mg/Kg	50	10	05/16/97	SDRO26



William P. Biava
President



WORKORDER COMMENTS

DATE : 05/21/97
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



ASACAL
ANALYTICAL
LABORATORIES

Chain of Custody - record

Lab No.: 5136 Date 5/14/97

Page 1 of 1

Client Apache Corporation Project Manager / Contact Jeff Gross

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

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

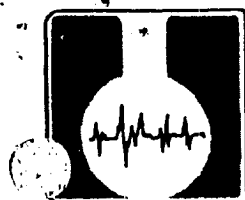
Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature)

Contract / Purchase Order / Quote

RECEIVED
MAY 27 1997
7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964
3322 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 683-6000
1910 N. 810 SPRING
MIDLAND, TEXAS 79705
(915) 570-1116
MELQUIADES ALANIS
8411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

ANALYST NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp. Chemical	No. of Containers	Remarks
01A	JAT 396 #7 pt 1 side	5-12-97	14:00	Soil	402 glass	Ice	1	
01B	" " "	"	14:00	"	"	"	1	
02A	JAT 396 #7 pt 12 Bottom	"	14:00	"	"	"	1	
02B	" " "	"	14:00	"	"	"	1	
5/14/97								
Received by: <u>John Y. Gross</u> Signature: <u>John Y. Gross</u> Printed: <u>John Y. Gross</u> Company: <u>ASACAL</u> Reason: <u></u>								
Date: <u>5/14/97</u> Time: <u>2:50</u>								
Required by: <u>John Y. Gross</u> Signature: <u>John Y. Gross</u> Printed: <u>John Y. Gross</u> Company: <u>ASACAL</u> Reason: <u></u>								
After analysis, samples are to be: ☐ Disposed of (additional fee) ☐ Stored (30 days max) ☐ Stored over 30 days (additional fee) ☐ Returned to customer								

LABORATORY



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

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

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Report Generated:
June 2, 1997 15:33

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9705240
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 05/29/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9705240-01A
Sample ID: JAT 396 #7 PIT 1 BOTTOM

Collected: 05/27/97 11:15:00
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

Lab ID: 9705240-01B
Sample ID: JAT 396 #7 PIT 1 BOTTOM

Collected: 05/27/97 11:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	3200	mg/Kg	50	5.0	05/30/97	SDRO029

William P. Biava

William P. Biava
President



Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-9864

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

**MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEX**

Project Manager / Contact ~~Jeff Cross~~

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature) [Signature]

Project Name / Number JICARILLA PIT CLOSURES

Contract / Purchase Order / Quote

Page 1 of 1

Client Apache Corporation

Address 304 N. Behrend

City/State/Zip Farmington, NM 87401

Project Name / Number JICARILLA PIT CLOSURES

Contract / Purchase Order / Quote

CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Analysis Required

Remarks

10

[illegible]

Relinquished by:	Received by:	Relinquished by:
Signature <u>[Signature]</u>	Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
Printed <u>Jeff Cuss</u>	Printed <u>William S. Chavez</u>	Printed <u>Jeff Cuss</u>
Company <u>Apache Corp.</u>	Company <u>AAUI</u>	Company <u>Apache Corp.</u>
Reason _____	Reason _____	Reason _____
Date <u>5-28-97</u>	Date <u>5-28-97</u>	Date <u>5-28-97</u>
Time <u>8:40</u>	Time <u>8:40</u>	Time <u>8:40</u>

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

LABORATORY

WORKORDER COMMENTS

DATE : 06/02/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

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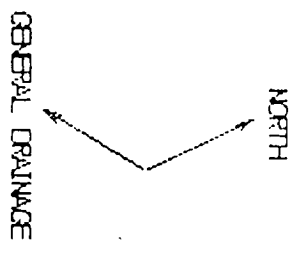
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LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

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

REPORT COMMENTS



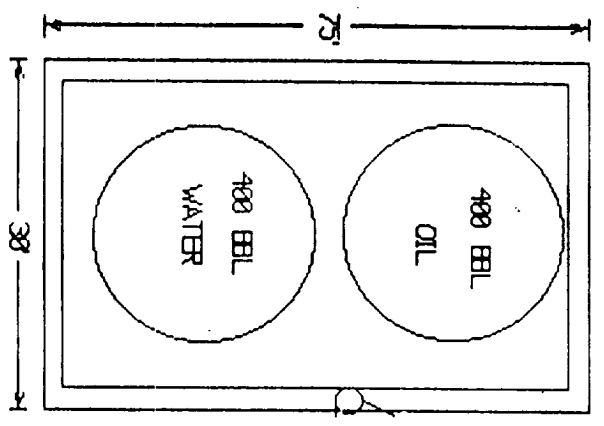
MY PETROLEUM
 JICARILLA TRIBAL 398 NUMBER 7
 NE/4 SE/4 Lease #JAT 398
 SECTION 17, TOWNSHIP 23N RANGE 3W
 RIO ARriba COUNTY, NM
 Revised 8/2/97 MC

PITTD

SEPARATOR
 S

LAND FARM CELL
 145' X 55' X 12"

WELL HEAD



▷ Buried Line Dip

EPNub MTA
 3M

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 PETROLUEM</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 396 # 7</u>	
Location: Unit or Qtr/Qtr Sec <u>NE\SE</u> Sec <u>17</u> T <u>23 N</u> R <u>3 W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>5/6/97</u> Date Completed: <u>6/10/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>300</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>6/10/98</u> Time: <u>11:50AM</u> Sample Results: Field Headspace (ppm) <u>0</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>7/16/98</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) _____	
SIGNED: <u>Kurt M. M...ll</u> DATE: <u>7-29-98</u>	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE JAT 396 # 7

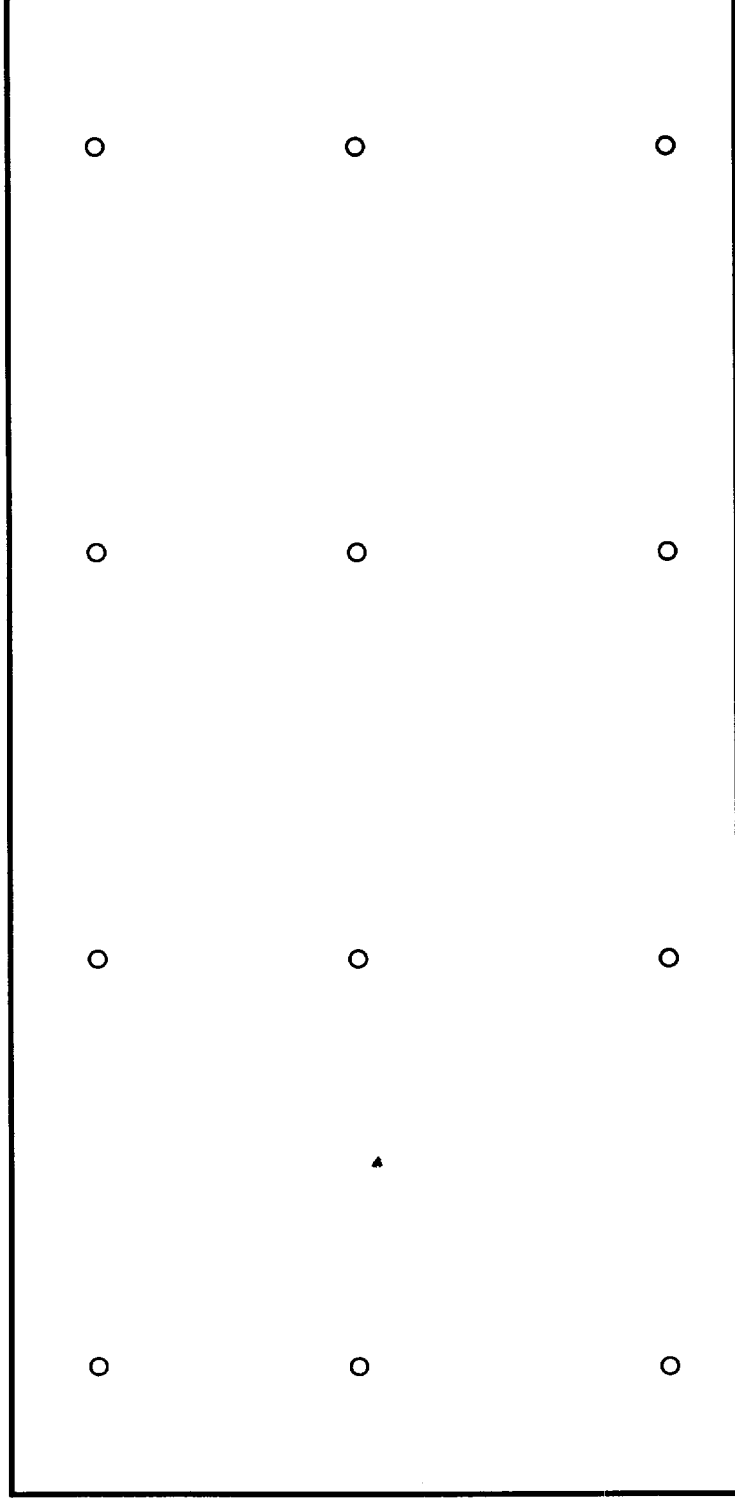
* AMOUNT OF SOIL UNDERGOING REMEDIATION 300 Yds.

CELL No. <u>1</u>	SampDATE 6/10/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>145' X 55' X12"</u>			
CELL LOCATION (dir. from well head) <u>NORTH EAST</u>			
* DATE BEGAN: <u>5/6/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/10/98</u>			
CELL No. <u>2</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)			
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.			
6/9/97 PLOW AND TILL SOIL.			
6/21/97 TILL SOIL.			
7/7/97 WATER,PLOW AND TILL SOIL.			
8/7/97 TREAT SOIL WITH 15LBS PHOSPHORUS,23LBS LIME.			
4/28/98,4/29/98 PLOW AND TILL SOIL.			
6/2/98 WATER AND PLOW SOIL.			
6/3/98 TILL SOIL.			

From excavation reports.

WELL NAME: JAT 396 # 7
SAMPLE DATE: 6/10/98
DIMENSIONS: 145' X 55' X 12'

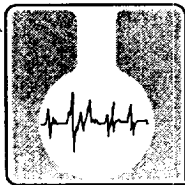
○ = SAMPLE AREA



NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

12 POINT COMPOSITE SAMPLE

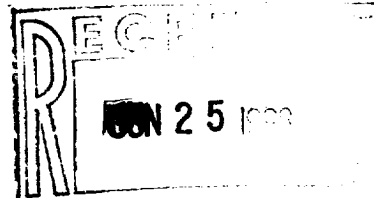
Blank lines for additional notes or data entry.



ASSAIGAI ANALYTICAL LABORATORIES, INC.

7300 Jefferson, NE • 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
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558



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: **9806181 JICARILLA**

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

Client Sample ID **JAT 396 #7 CELL** Sample Matrix **SOIL** Sample Collected **06/10/98 11:50:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	* Sequence	Run Date
SW846-8010/8020 Volatiles								
9806181-01A	X98326	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.535-18 06/15/98
	X98326	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.535-18
	X98326	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.535-18
	X98326		P/M-Xylenes	ND	mg / Kg	50	0.01	XG.1998.535-18
	X98326	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.535-18
SW846-8015 Modified TPH								
9806181-01B	X98328		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.556-19 06/21/98

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



Assaigai Analytical Laboratories, Inc.
Surrogate Summary: QC

Client: **APACHE CORPORATION**
Project: **9806181 JICARILLA**

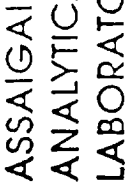
* explanation of codes	
D	Not applicable due to sample dilution

QC Type	MS: Matrix Spike	QC Matrix	SOLID
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QC Group	Run ID	Surrogate	% Recovery	*	Run Group - #	Run Date
SW846-8010/8020 Volatiles						
X98326	X98326-005	4-Bromofluorobenzene	102		XG.1998.535 - 5	06/15/98
	X98326-005	aaa-Trifluorotoluene	102		XG.1998.535 - 5	
	X98326-005	Bromochloromethane	91		XG.1998.535 - 5	
	X98326-005	Bromochloropropane	98		XG.1998.535 - 5	
	X98326-005	Dichlorobutane	93		XG.1998.535 - 5	
SW846-8015 Modified TPH						
X98328	X98328-005	O-terphenyl	92		XG.1998.556 - 26	06/22/98

QC Type	MSD: Matrix Spike Duplicate Precision	QC Matrix	SOLID
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QC Group	Run ID	Surrogate	% Recovery	*	Run Group - #	Run Date
SW846-8010/8020 Volatiles						
X98326	X98326-006	4-Bromofluorobenzene	103		XG.1998.535 - 6	06/15/98
	X98326-006	aaa-Trifluorotoluene	103		XG.1998.535 - 6	
	X98326-006	Bromochloromethane	95		XG.1998.535 - 6	
	X98326-006	Bromochloropropane	98		XG.1998.535 - 6	
	X98326-006	Dichlorobutane	93		XG.1998.535 - 6	
SW846-8015 Modified TPH						
X98328	X98328-006	O-terphenyl	108		XG.1998.556 - 5	06/20/98



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

Page 1 of 1

Contract / Purchase Order / Quote _____

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

LABORATORY