

District III
1000 Rio Brazos Rd
Aztec, NM 87410

Energy, Minerals and Natural Resources Department

State of New Mexico

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

DEC 17 1998

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

RECEIVED
JUL 6 1999

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 #13**
Location: Unit or Qtr/Qtr Sec **F Sec 25 T 25 N R 4W** County **Rio Arriba**
Pit Type: Separator: _____ Dehydrator: _____ Other: **Blow Pit**
Land Type: **Jicarilla Tribal**

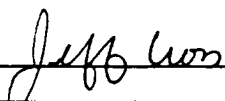
Beginning Pit Dimensions: Length **25'** Width **30'** Depth **3'**
Pit Location: Ending Pit Dimensions: Length **33'** Width **33'** Depth **7'**
(Attach diagram)
Reference: Wellhead **XXX** Other: _____
Footage from reference: **100'**
Direction from reference: **166** Degrees **X** East North
West South **XX**

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:		<u>6/9/97</u>	Date Completed:		<u>6/10/97</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 7', took PID readings.</u>					
<u>Spread soil on location for remediation. Took soil samples. Cell #1 spread on location.</u>					
<u>Cell #2 put back in pit. Contour pit</u>					
Groundwater Encountered:		No <u>XX</u>	Yes	Depth	
Final Pit:	Sample location <u>4 point composite taken from pit sidewalls and pit bottom center</u>				
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth <u>7'</u> <u>8 to 10" into pit sidewalls 10" into pit bottom</u>				
	Sample Date	<u>6/10/97</u>	Sample Time	<u>11:00 A.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>37.2</u>		
	TPH		<u>ND</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>June 24, 1998</u>	PRINTED NAME		<u>Jeff Cross</u>
SIGNATURE			AND TITLE:		<u>Project Manager</u>

SARILLA 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 # 13</u>			
Location:	Unit or Qtr/Qtr	Sec <u>F</u>	SEC 25 T 25N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>BLOW PIT</u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>33'</u>	Width <u>38'</u>	Depth <u>7'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>100'</u>		
	Direction from reference:	<u>166</u> Degrees	<u>X</u> East	North <u> </u> of West <u> </u> 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>
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: 6/9/97 Date Completed: 6-10-97

Remediation Method: Excavation XXX Approx. cubic yards 300
(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 7', took PID readings. spread soil on location for remediation. Took soil samples. Cell #1 spread on location, Cell #2 put back in pit. Conture pit

Groundwater Encountered: No XXX Yes _____ Depth _____

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

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

Sample depth 7' 8" to 10" into pit side walls, 10" into pit bottom

Sample Date 6/10/97 Sample Time 11:00AM
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>37.2</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND\SIDES</u>		Total Xylenes	(ppb)	<u>NA</u>
			<u>ND\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 6-8-98 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: Kou C Mammall DATE: 6-23-98

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 125 # 13

PIT COUNT 1

Jicarilla Apache Tribal EPO/OCD/BLM

Review and Approval

OCD--BLM

EPO Representative

Date of Review

DIMENSIONS		Excavation						
		START: 6/9/97			FINISH: 6/10/97			
	W	L	D		W	L	D	CU YDS
Pit 1	30'	25'	3'	Pit 1	38'	33'	7'	300
Pit 2				Pit 2				
Pit 3				Pit 3				
		Pit 1 @ 7'	Pit 2 @	Pit 3 @		Pit 1 @ 7'	Pit 2 @	Pit 3 @
P I D	Center	5			P I D	Center	5	
	NW Corner	82				NW Corner	82	
	NE Corner	16				NE Corner	16	
	SW Corner	13				SW Corner	13	
	SE Corner	70				SE Corner	70	

NOTES:

6/9/97 START EXCAVATION ON PIT, EXCAVATE PIT TO 5',PID READINGS A LITTLE HIGH

LIGHT STAINING AND ODOR.

6/10/97 FINISH EXCAVATION ON PIT , NO STAINING OR ODO PID READINGS GOOD.

TOOK SOIL SAMPLES AND SENT TO ASSAIGAI LABS.

SOIL SAMPLING

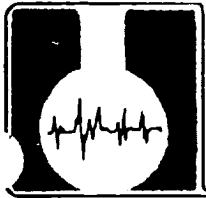
DATE: 6/10/97		Pit 1 @ 7'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P I D	Center	5			PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner	82				SIDE\BTM	SIDE\BTM		
	NE Corner	16			1	ND\ND	ND\ND	JEFF C.	6/16/97
	SW Corner	13			2				
	SE Corner	70			3				

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				

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				



**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 19, 1997 14:48

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

JUN 23 1997

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

WORKORDER #: 9706141
WORK ID: JICARILLA PIT CLOSURES
CLIENT CODE: APA01
DATE RECEIVED: 06/13/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706141-01A
Sample ID: JAT A 125 #13 PIT #1 SIDES

Collected: 06/10/97 11:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170
Toluene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170
Ethylbenzene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170
P-&m-Xylene	ND	mg/Kg	0.0020	500	06/16/97	SBTXME170
O-Xylene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170

Lab ID: 9706141-01B
Sample ID: JAT A 125 #13 PIT #1 SIDES

Collected: 06/10/97 11:00:00
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	25	06/16/97	SDRO33

Lab ID: 9706141-02A
Sample ID: JAT A125 #13 PIT #1 BOTTOM

Collected: 06/10/97 11:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170
Toluene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170
Ethylbenzene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170
P-&m-Xylene	ND	mg/Kg	0.0020	500	06/16/97	SBTXME170
O-Xylene	ND	mg/Kg	0.0010	500	06/16/97	SBTXME170



ID: 9706141-02B

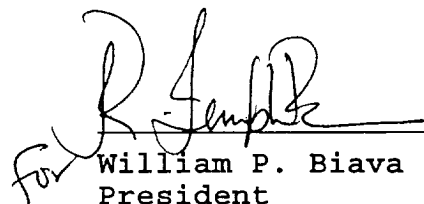
Sample ID: JAT A125 #13 PIT #1 BOTTOM

Collected: 06/10/97 11:00:00

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	25	06/16/97	SDRO33

IN
JUN 23 1997

For 
William P. Biava
President

WORKORDER COMMENTS

JUN 23 1997

DATE : 06/19/97
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



JOV JEFFERSON, M.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

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

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

MELQUIADES ALANIS

CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Analysis Requi

Fax No. (505) 774-6624

Samplers: (Signature)

Contract / Purchase Order / Quote _____

[illegible]

Date	Received by:
	Signature
	Printed
	Company
	Reason
Time	

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

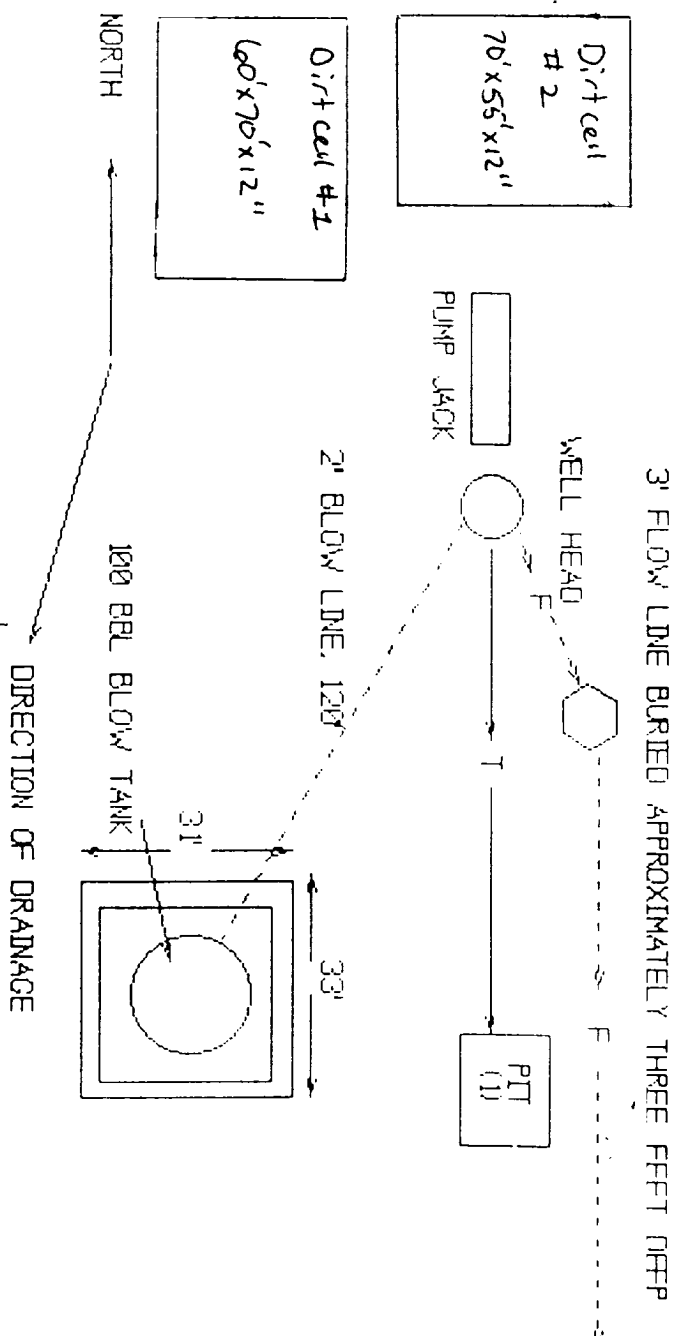
☐ Stored over 30 days (additional fee)

☐ Returned to customer

LABORATORY

M W PETROLEUM
 JICARILLA APACHE TRIBAL 125 WELL 13
 SE/4 NW/4 (P), FED. LEASE # 09000125
 SECTION 25, TOWNSHIP 29N, RANGE 4W
 RIO ARriba COUNTY, NM

TELEMETRY EQUIPMENT



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 # 13 CELL # 1</u>			
Location: Unit or Qtr/Qtr Sec <u>SE1NW</u> Sec <u>25</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>			
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>6-9-97</u>		Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>156</u>	
Composted _____			
Other <u>Remediated 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>10:10AM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>1300</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>Keith 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 # 13 CELL # 2</u>	
Location: Unit or Qtr/Qtr Sec <u>SE\NW</u> Sec <u>25</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>6-9-97</u> Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>144</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>5/21/98</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>6/8/98</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>was as Back fill</u>	
SIGNED: <u>Kevin M...</u>	DATE: <u>6-23-98</u>

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE JAT 125 # 13

* AMOUNT OF SOIL UNDERGOING REMEDIATION 300 Yds.

CELL No. <u>1</u>	SampDATE 5/21/98	TPH 1300	BTEX ND
DIMENSIONS(LxWxH) <u>60' X 70' X 12"</u>			
CELL LOCATION (dir. from well head) <u>NORTHWEST</u>			
* DATE BEGAN: <u>6/9/97</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>70' X 55' X 12 "</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>6/9/97</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)			
6/11/97 TREAT CELLS WITH 46-0-0 FERTILIZER,WATER,PLOW AND TILL SOIL.			
6/25/97 PLOW AND 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 43LBS PHOSPHORUS,65LBS LIME,WATER,PLW AND TILL SOIL.			
5/6/98 PLOW SOIL. 5/7/98 TILL SOIL. 5/22/98 PLOW AND TILL SOIL.			
5/20/98 PLOW AND TILL SOIL.			

* FROM EXCAVATION REPORTS.

WELL NAME:

JAT 125 #13 cell #1

SAMPLE DATE:

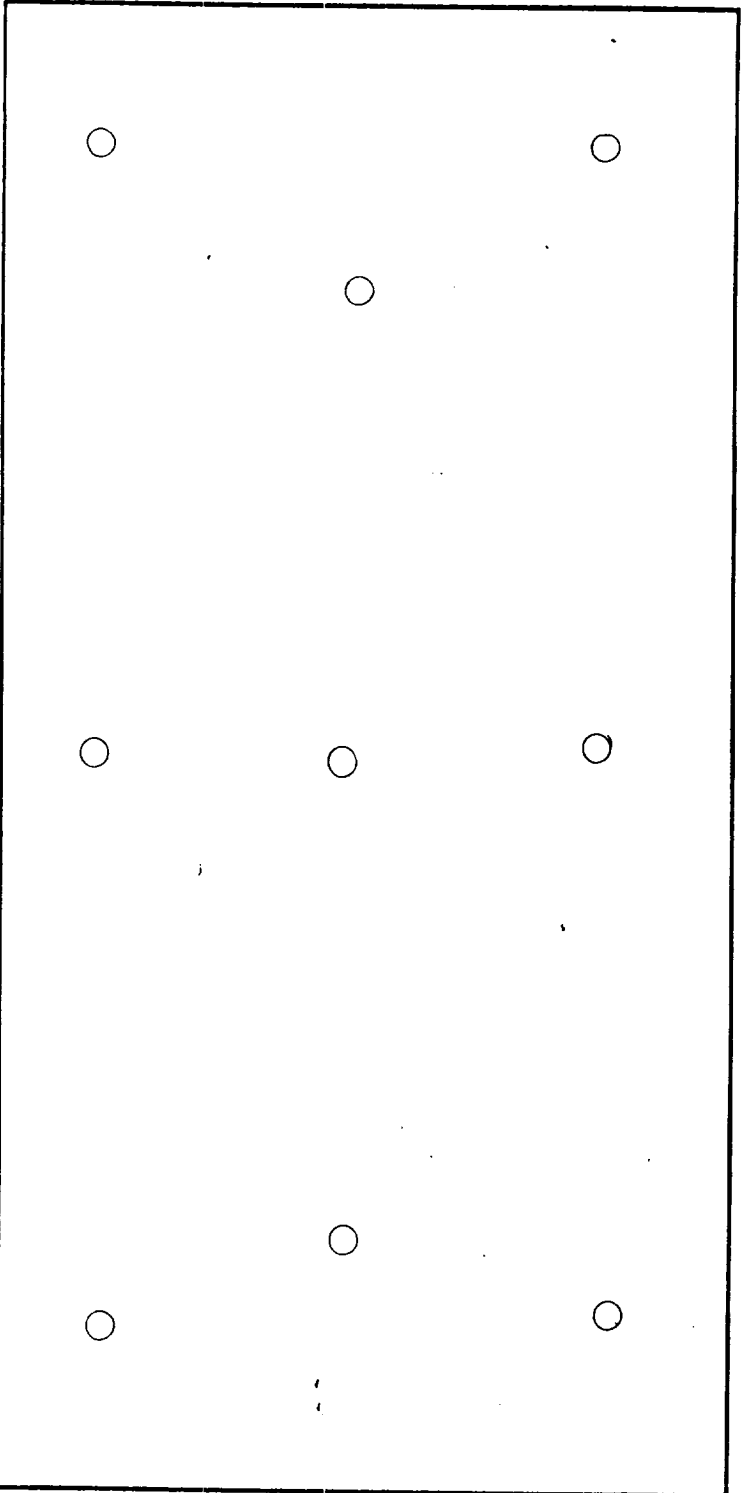
5-21-98

DIMENSIONS:

70' X 60' X 12"



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

9 point composite sample

WELL NAME:

JAT 125#13 Cell #2

SAMPLE DATE:

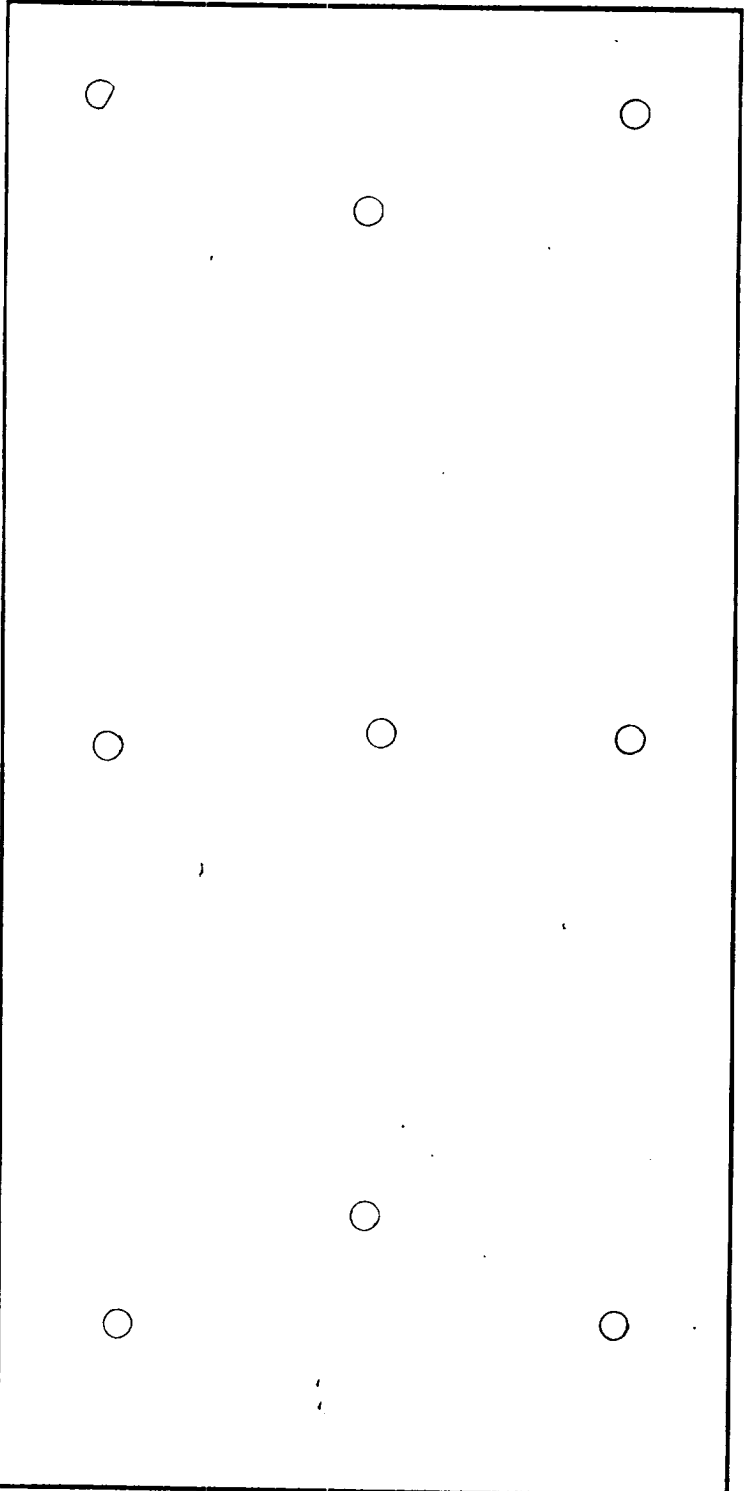
5-21-98

DIMENSIONS:

~~65~~ 70' x 55' x 12"



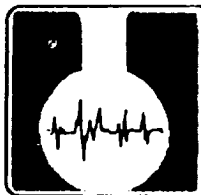
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

9 Point Composite Sample

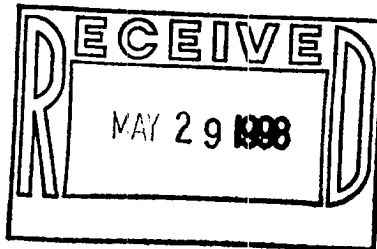


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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: 9805212 JICARILLA

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

Client Sample ID: JAT 125 #13 CELL #1 Sample Matrix: SOIL Sample Collected: 05/21/98 10:10:00

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8010/8020 Volatiles									
9805212-01A	X98288	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.483-12	05/22/98
	X98288	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.483-12	
	X98288	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.483-12	
	X98288		P/M-Xylenes	ND	mg / Kg	50	0.01	XG.1998.483-12	
	X98288	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.483-12	
SW846-8015 Modified TPH									
9805212-01B	X98289		Diesel Range Organics	1300	mg / Kg	25	25	XG.1998.488-35	05/23/98

Client Sample ID: JAT 125 #13 CELL #2 Sample Matrix: SOIL Sample Collected: 05/21/98 10:20:00

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8010/8020 Volatiles									
9805212-02A	X98288	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.483-13	05/22/98
	X98288	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.483-13	
	X98288	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.483-13	
	X98288		P/M-Xylenes	ND	mg / Kg	50	0.01	XG.1998.483-13	
	X98288	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.483-13	
SW846-8015 Modified TPH									
9805212-02B	X98289		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.488-36	05/23/98





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

52/2 Date: 5/22/98

Page _____ of _____

Project Manager / Contact **Jeff Cross**

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature) Jeff Woz

[illegible]

Relinquished by:	Received by:	Relinquished by:
Signature <u>Jeff Wren</u>	Signature <u>Scott Pratt</u>	Signature <u>Scott Pratt</u>
Printed <u>JEFF WREN</u>	Printed <u>SCOTT PRATT</u>	Printed <u>SCOTT</u>
Company <u>Apache Corp</u>	Company <u>APL</u>	Company <u>Apache</u>
Reason _____	Reason _____	Reason _____
Date <u>5-22-98</u>	Time <u>1:00</u>	

Received by: <u>Scott Pratt</u>	Relinquished by: <u>Scott Pratt</u>
Signature <u>Scott Pratt</u>	Signature <u>Scott Pratt</u>
Printed <u>SCOTT PRATT</u>	Printed <u>SCOTT PRATT</u>
Company <u>AAL</u>	Company <u>AAL</u>
Reason _____	Reason _____

Date 22 May 98	Received by: Signature <i>Cindy Wilson</i>	Reason
	Printed <i>Cindy Wilson</i> Company <i>WHR</i>	

Comments:

1

1

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

Stored over 30 days (arb.)

☐ Returned to customer

LABORATORY