

George E. Faust
District Oil & Gas Inspector
1000 Rio Brazos Rd.
Aztec, NM 87410

DEC 17 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

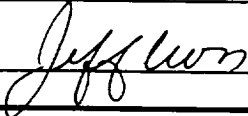
OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

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

Approved
PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 6 1998

Operator: Apache Corporation		Telephone: 505-325-0318	
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401			
Facility or Well Name: Apache # 124		OIL CON. DIV.	
Location: Unit or Qtr/Qtr Sec		DIST. 3	
K Sec 4 T 24 N R 4W		County Rio Arriba	
Pit Type: Separator: _____		Dehydrator: _____	
Other: _____		Drain Tank\Blow Pit	
Land Type: Jicarilla Tribal			
Beginning Pit Dimensions: Length 28' Width 28' Depth 3'			
Ending Pit Dimensions: Length 30' Width 30' Depth 10'			
Reference: Wellhead XXX Other _____			
Footage from reference: 115'			
Direction from reference: 76 Degrees XX East North X			
of 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) 0
groundwater)			
Wellhead Protection Area:			
(Less than 200 feet from a private		Yes	(20 points) _____
domestic water source, or; less than		No	(0 points) 0
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) 0
RANKING SCORE (TOTAL POINTS) 0			

Date Remediation Started:		<u>12/11/95</u>		Date Completed:		<u>12/15/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation	<u>XXX</u>	Approx. cubic yards	<u>246</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 10', took PID readings.</u>					
		<u>Spread soil on location for remediation. Took soil samples. Pit back filled w/ fill dirt</u>					
Groundwater Encountered:		No	<u>XX</u>	Yes			Depth <u> </u>
Final Pit:	Sample location	<u>5 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>10'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>				
	Sample Date	<u>12/15/95</u>		Sample Time	<u>9:00 A.M.</u>		
	Sample results						
	Benzene	(ppm)	<u>ND</u>				
	Total BTEX	(ppm)	<u>1.87</u>				
	Field Headspace	(ppm)	<u>52.82</u>				
	TPH		<u>1400</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 8, 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 N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 124</u>			
Location:	Unit or Qtr/Qtr Sec	<u>K</u> <u>SEC 4</u> <u>T 24N</u> <u>R 4W</u>	County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>TANK DRAIN/BLOW PIT</u>
Land Type:	<u>JIC. TRIBAL</u>		

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>30'</u>	Width <u>30'</u>	Depth <u>10'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>155'</u>		
	Direction from reference:	<u>76</u> Degrees	<u>XX</u> East	North <u>X</u>
			West	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:		<u>12/11/95</u>	Date Completed:		<u>12/15/95</u>
Remediation Method: (Check all appropriate sections)		Excavation	<u>XXX</u>	Approx. cubic yards	<u>246</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 10', took PID readings. spread soil on location for remediation. Took soil samples. Pit Back Filled w/ Fin Dirt</u>					
Groundwater Encountered:		No	<u>XXX</u>	Yes	_____ Depth _____
Final Pit: Sample location <u>5 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>10'</u>	<u>8" to 10" into pit side walls, 10" into pit bottom.</u>	
		Sample Date	<u>12/15/95</u>	Sample Time	<u>9:00AM</u>
Sample results					
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene (ppb) <u>NA</u>
	Total BTEX	(ppm)	<u>1.87</u>		Toluene (ppb) <u>NA</u>
	Field Headspace	(ppm)	<u>52.82</u>		Ethylbenzene (ppb) <u>NA</u>
	TPH	(ppm)	<u>1400</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>5/26/98</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>Kurt M...</u>	DATE: <u>6-2-98</u>		

APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 124
PIT COUNT: 1

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE JCM
DATE OF REVIEW: 12-27-95

				EXCAVATION				
DIMENSIONS		START		FINISH				
	W	L	D		W	L	D	CU.YDS.
PIT 1	28	28'	3'	PIT 1	30'	30'	10'	246.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE: 12/11/95		PIT1@07'	PIT2@_ '	PIT3@_ '	DATE: 12/11/95	PIT1@10'	PIT2@_ '	PIT3@_ '
P. I. D.	CENTER	321.0			P. I. D.	CENTER	222.0	
	NW CORNER	344.0				NW CORNER	23.5	
	NE CORNER	205.0				NE CORNER	148.0	
	SW CORNER	101.0				SW CORNER	76.0	
	SE CORNER	297.0				SE CORNER	116.0	

NOTES:

12/11/95 - Dark staining to 7', cleared @ 10'. Remove staining from side walls.

SOIL SAMPLING

DATE: 12/11/95		PIT1@07'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	321.0			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	344.0			NO.				
	NE CORNER	205.0			1	2400	12.1	IF&S	12/11/95
	SW CORNER	101.0			2				
	SE CORNER	297.0			3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 12/15/95		PIT1@10'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	74.1			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	75.6			NO.				
	NE CORNER	13.9			1	1400	1.87	JDT	12/15/95
	SW CORNER	88.3			2				
	SE CORNER	12.2			3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1	PIT 2	PIT 3	ANALYSIS RESULTS			PER LAB:	
P. I. D.	CENTER				PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER				NO.				
	NE CORNER				1				
	SW CORNER				2				
	SE CORNER				3				

[illegible]



ASSAIGAI
ANALYTICAL
LABORATORIES

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

REVISED
1/11/96

Report Generated:

January 11, 1996 11:33

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

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

WORKORDER # : 9512196
WORK ID : PIT REMEDIATION-95017
CLIENT CODE : APA01
DATE RECEIVED : 12/18/95

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9512196-01A
Sample ID: AP #124

Collected: 12/15/95 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	12/28/95	SBTXME098
Toluene	ND	mg/Kg	0.0010	100	12/28/95	SBTXME098
Ethylbenzene	ND	mg/Kg	0.0010	100	12/28/95	SBTXME098
P-&m-Xylene	ND	mg/Kg	0.0010	100	12/28/95	SBTXME098
O-Xylene	ND	mg/Kg	0.0010	100	12/28/95	SBTXME098

Lab ID: 9512196-01B
Sample ID: AP #124

Collected: 12/15/95 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M						
Diesel	1400	mg/Kg	5.0	50	01/02/96	SLFTD058
HCS DSL XT/CAL DHS 8015M	12/22/95	N/A				

Lab ID: 9512196-02A
Sample ID: AP #132

Collected: 12/15/95 08:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	2000	12/28/95	SBTXME098
Toluene	3.2	mg/Kg	0.0010	2000	12/28/95	SBTXME098
Ethylbenzene	3.4	mg/Kg	0.0010	2000	12/28/95	SBTXME098
P-&m-Xylene	22	mg/Kg	0.0010	2000	12/28/95	SBTXME098
O-Xylene	5.0	mg/Kg	0.0010	2000	12/28/95	SBTXME098





Chain of Custody Record

Lab Job no.:

Date 12/18/95

Page 3 of 3

Client Apache Corporation

Project Manager / Contact John Taylor

Address 304 N. Behrend

Telephone No. (505) 325-0318

City / State / Zip Farmington, NM 87401

Fax No. (505) 225-0328

Project Name / Number Pit Remediation 75017

Samplers: (Signature)

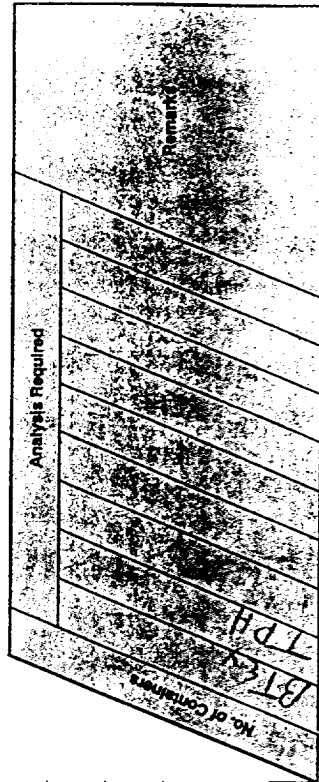
Contract / Purchase Order / Quote

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

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87111
(505) 345-8964

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



ALL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Chemical
13A	AP # 123	12/14	12:15	Soil	4 oz. Glass	ICE	
13B	AP # 123	12/14	12:15				
14A	AP # 124	12/11					
14B	AP # 124	12/11					
15A	AP # 132	12/13					
15B	AP # 132	12/13					
16A	AP # 131	12/14					
16B	AP # 131	12/14					

Relinquished by: Signature: [Signature] Printed: [Name] Company: [Company] Reason: [Reason]	Received by: Signature: [Signature] Printed: [Name] Company: [Company] Reason: [Reason]	Date: 12/18/95 Time: 10:45 AM	Date: 12/18/95 Time: 12:10 PM
Comments:		After analysis, samples are to be:	
Method of Shipment:		☐ Disposed of (additional fee)	
Shipment No.:		☐ Stored (30 days max)	
Special Instructions:		☐ Stored over 30 days (additional fee)	
		☐ Returned to customer	

COURIER

GENERAL ORIGINATOR

NORTH

APACHE
APACHE NUMBER 124 Lease # JAT 127
NE 1/4 SW 1/4 (K)
SECTION 4, TOWNSHIP 24N, RANGE 4W
RIO ARriba COUNTY, NM
Revised 6/1/97 NG

Pit
Reclaimed
Apache
155' FLOW
76' ENG

70' x 40' x 18"
CELL # 2

PUMP JACK

WELL HEAD

400 BBL
OIL
400 BBL
H₂O

3 SEPARATOR

Pit
Reclaimed
EPN 6



40' x 14' x 12"
CELL # 2

4" x 4" EPN6 METER RUN

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>APACHE CORPORATION</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>APACHE # 124 CELL # 1</u>			
Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>4</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>			
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>12/11/95</u>		Date Completed: <u>6/13/97</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>91</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>6/13/97</u> Time: <u>10:00AM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>2100</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>5/26/98</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>Kare C. Mann</u>		DATE: <u>6-2-98</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>APACHE CORPORATION</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>APACHE # 124 CELL # 2</u>			
Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>4</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>			
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>12/11/95</u>		Date Completed: <u>5/12/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>155</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>5/12/98</u> Time: <u>12:15PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>3300</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>5/26/98</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>Kurt C. Mamm</u>		DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 124

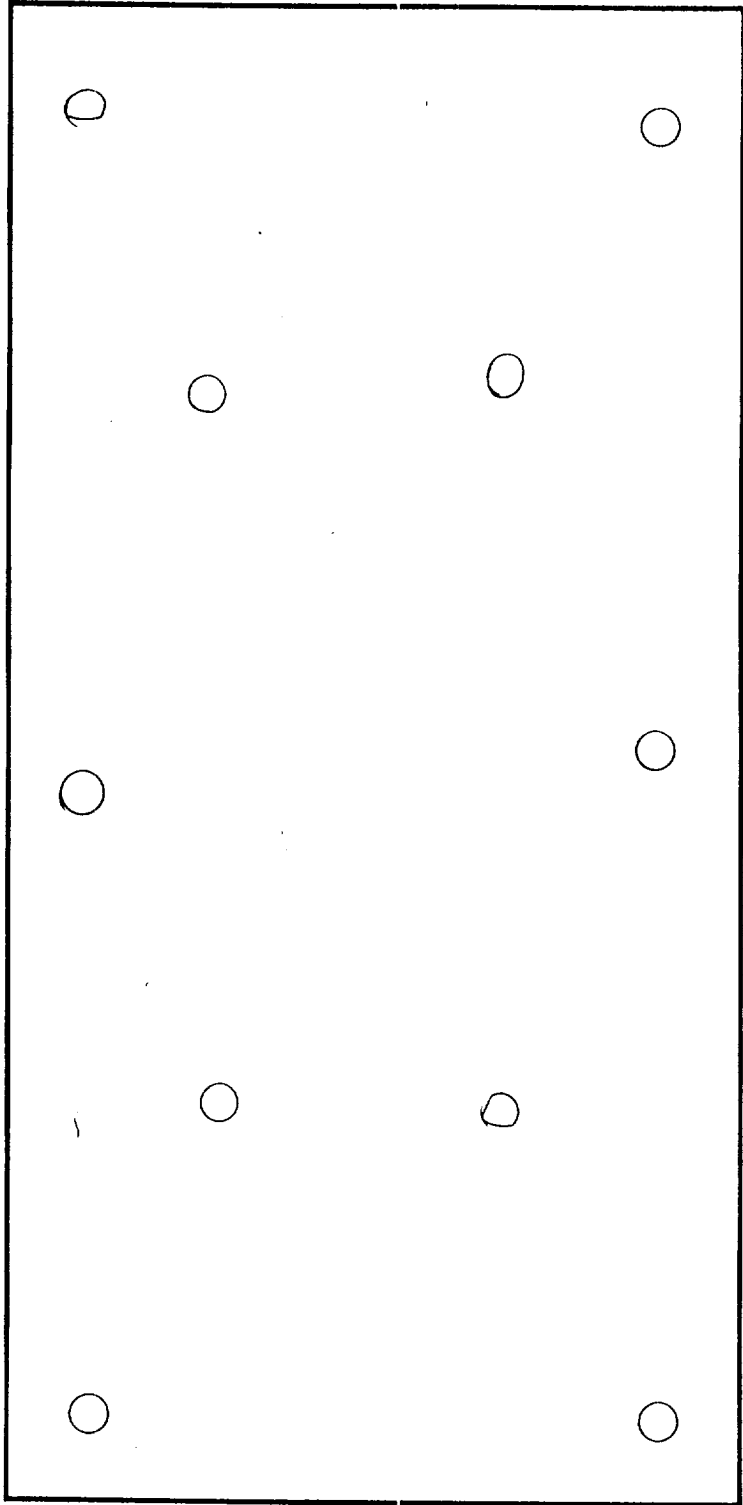
* AMOUNT OF SOIL UNDERGOING REMEDIATION 246 Yds.

CELL No. <u>1</u>	SampDATE 6/13/97	TPH 2100	BTEX ND
DIMENSIONS(LxWxH) <u>60' X 41' X 12"</u>			
CELL LOCATION (dir. from well head) <u>NORTHWEST</u>			
* DATE BEGAN: <u>12/11/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/13/97</u>			
CELL No. <u>2</u>	SampDATE 5/12/98	TPH 3300	BTEX ND
DIMENSIONS(LxWxH) <u>70' X 40' X 13"</u>			
CELL LOCATION (dir. from well head) <u>EAST</u>			
* DATE BEGAN: <u>12/11/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/12/98</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)			
12/15/95 TREAT SOIL WITH 28-4-4 FERTILIZER, WATER, PLOW AND TILL SOIL.			
6/3/97 WATER PLOW AND TILL SOIL.			
6/23/97 PLOW AND TILL SOIL.			
8/25/97 TREAT CELL #2 WITH 46-0-0 FERTILIZER, 27LBS PHOSPHORUS, 12LBS LIME, WATER, PLOW, TILL.			
4/30/98 PLOW AND TILL CELL # 2			
5/9/98 WATER, PLOW AND TILL CELL # 2.			

From excavation reports.

WELL NAME: Apache #124 cell #1
SAMPLE DATE: 6-13-97
DIMENSIONS: 60' x 41' x 12"

○ = SAMPLE AREA



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

WELL NAME:

Apache #124 cell #2

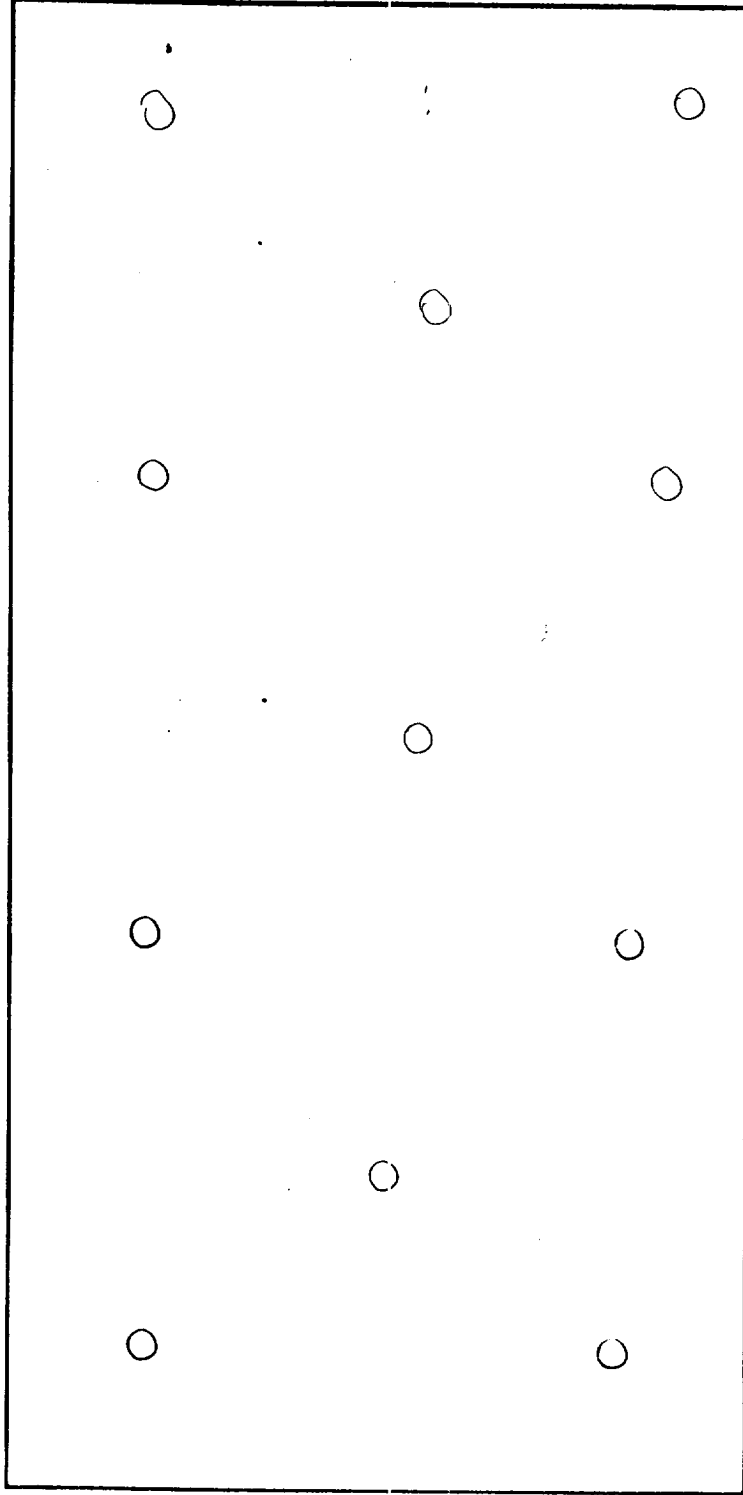
SAMPLE DATE:

5-12-98

DIMENSIONS:

70' x 40' x 12"

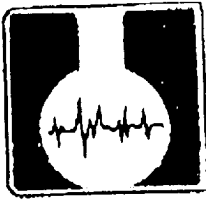
○ = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

18 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

Report Generated:
June 19, 1997 14:55

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9706144
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/13/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706144-01A
Sample ID: AP 124 CELL #1

Collected: 06/13/97 10:00:00
Matrix: SOIL

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

Lab ID: 9706144-01B
Sample ID: AP 124 CELL #1

Collected: 06/13/97 10:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015	2100	mg/Kg	50	25	06/17/97	SDRO33
Diesel Range OG in Soil						

William P. Biava

William P. Biava
President



~~an Apache Corporation~~ Project Manager / Contact ~~Jeff Cross~~

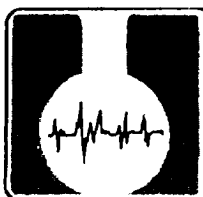
Hess 304 N. Behrend Telephone No. (505) 774-6643

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

ject Name: JICARILLA PIT CLOSURES Samplers: (Signature) John M. Baker

Contract / Purchase Order / Quote _____

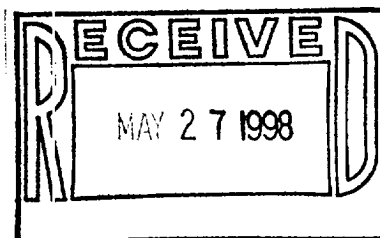
[illegible]



**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: **9805126 JICARILLA PIT CLOSURE**

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

Client Sample ID **APACHE #124 CELL #2**

Sample Matrix **SOIL**

Sample Collected **05/12/98
12:15:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8020 Volatiles									
9805126-01A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.464-17	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.464-17	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.464-17	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.464-17	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.464-17	
SW846-8015 Modified TPH									
9805126-01B	X98268		Diesel Range Organics	3300	mg / Kg	25	25	XG.1998.465-16	05/15/98

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





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

Lab job no.: 9215 Date: 05/15/98

Page _____ of _____

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 Woot

Contract / Purchase Order / Quote _____

[illegible]

Relinquished by: Signature <u>Jeff Wors</u> Printed <u>JEFF WORS</u> Company <u>Apache Corp.</u> Reason _____	Date <u>5-15-98</u> Time <u>9:30</u>	Received by: Signature <u>Scott Pratt</u> Printed <u>SCOTT PRATT</u> Company _____ Reason _____	Relinquished by: Signature <u>Scott Pratt</u> Printed <u>SCOTT PRATT</u> Company <u>AAAL</u> Reason _____
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Received by:	Relinquished by:
Signature <u>Scott Pratt</u>	Signature <u>Scott Pratt</u>
Printed <u>Scott Pratt</u>	Printed <u>Scott Pratt</u>
Company _____	Company <u>AAAL</u>
Reason _____	Reason _____

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

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

[illegible]