

District III

1000 Rio Brazos Rd
Aztec, NM 87410

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

OK

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

DEC 17 1998

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED

JUL 6 1999

Operator: Apache Corporation Telephone: 505-325-0818

OIL CON. DIV.

DIST. 3

Address: 2855 Southside River Road, Suite A, Farmington, NM 87401Facility or Well Name: Apache # 156 Pit #1Location: Unit or Qtr/Qtr Sec C Sec 3 T 24 N R 4W County Rio ArribaPit Type: Separator: XX Dehydrator Other Land Type: Jicarilla TribalBeginning Pit Dimensions: Length 21' Width 24' Depth 5'Pit Location: Ending Pit Dimensions: Length 24' Width 24' Depth 9'
(Attach diagram)Reference: Wellhead XXX Other Footage from reference: 150'Direction from reference: 300 Degrees East North X
XX West of South

Depth To Groundwater:

(vertical distance from	Less than 50 feet	(20 points)	<u> </u>
contaminants to seasonal	50 feet to 99 feet	(10 points)	<u> </u>
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)	<u> </u>
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)	<u> </u>
lakes, ponds, rivers, streams, creeks,	200 feet to 1000 feet	(10 points)	<u> </u>
irrigation canals and ditches)	Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS) 0

Date Remediation Started:

12/2/95

Date Completed:

12/2/95

Remediation Method:

(Check all appropriate sections)

Excavation

XXX

Approx. cubic yards

98

Landfarmed

XX

Insitu Bioremediation

Other

Remediation Location:

(i.e. landfarmed onsite,
name and location of
offsite facility)

Onsite

XX

Offsite

General Description of Remedial Action:

Excavate pit to 9', took PID readings.

Spread soil on location for remediation. Took soil samples. Pit back filled w/ fill dirt

Groundwater Encountered:

No

XX

Yes

Depth

Final Pit:

Sample location

5 point composite taken from pit sidewalls and pit bottom center

Closure Sampling:

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

Sample depth 9'

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

Sample Date

12/2/95

Sample Time

11:35 A.M.

Sample results

Benzene

(ppm)

ND

Total BTEX

(ppm)

ND

Field Headspace

(ppm)

11.16

TPH

480

Groundwater Sample:

Yes

No

XX

(If yes attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE

June 8, 1998

PRINTED NAME

Jeff Cross

SIGNATURE

Jeff Cross

AND TITLE

Project Manager

District III
1000 Rio Brazos Rd
Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

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 # 156 Pit #2

Location: Unit or Qtr/Qtr Sec C Sec 3 T 24 N R 4W County Rio Arriba

Pit Type: Separator: _____ Dehydrator _____ Other Drip Line

Land Type: Jicarilla Tribal

Beginning Pit Dimensions: Length 18' Width 18' Depth 1'

Pit Location: Ending Pit Dimensions: Length 18' Width 18' Depth 5'
(Attach diagram)

Reference: Wellhead XXX Other _____

Footage from reference: 125'

Direction from reference: 110 Degrees XX East North
West of South X

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)	<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)

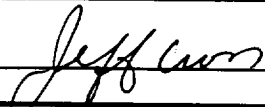
Yes	(20 points)	_____
No	(0 points)	<u>0</u>

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet	(20 points)	_____
200 feet to 1000 feet	(10 points)	_____
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS) 0

Date Remediation Started:		<u>12/2/95</u>		Date Completed:		<u>12/2/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>48</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 5', 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 _____	
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>5'</u>		<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
		Sample Date <u>12/2/95</u>		Sample Time		<u>5:30 P.M.</u>	
		Sample results					
		Benzene		(ppm)		<u>ND</u>	
		Total BTEX		(ppm)		<u>ND</u>	
		Field Headspace		(ppm)		<u>15.06</u>	
		TPH				<u>60</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>	

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

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 # 156 PIT # 1</u>			
Location:	Unit or Qtr/Qtr	Sec	County
	<u>C</u>	<u>SEC 3</u>	<u>RIO ARRIBA</u>
Pit Type:	Separator: <u>XXX</u>	Dehydrator <u> </u>	Other <u> </u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>24'</u>	Width <u>24'</u>
		Depth <u>9'</u>	
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>
	Footage from reference:	<u>150'</u>	
	Direction from reference:	<u>300</u> Degrees	East <u> </u>
		<u>XX</u> West	North <u>X</u>
			of South <u> </u>
Depth To Groundwater:		Less than 50 feet	(20 points) <u> </u>
(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>
domestic water source, or less than			
1000 feet from all other water sources)			
Distance To Surface Water:		Less than 100 feet	(20 points) <u> </u>
(Horizontal distance to perennial		100 feet to 1000 feet	(10 points) <u> </u>
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: 12/2/95 Date Completed: 12/2/95

Remediation Method: Excavation XXX Approx. cubic yards 98
(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 9', took PID readings. spread soil on

location for remediation. Took soil samples. Backfilled pit w/ Fill Dirt

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center.

Closure Sampling:

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

Sample depth 9' 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 12/2/95 Sample Time 11:35AM
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>11.16</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>480</u>		Total Xylenes	(ppb)	<u>NA</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 5/28/98 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: Kee C Mammall DATE: 6-2-98

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 # 156 PIT # 2</u>			
Location:	Unit or Qtr/Qtr	Sec <u>C</u>	SEC 3 T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>LINE DRIP</u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>18'</u>	Width <u>18'</u>	Depth <u>5'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>125'</u>		
	Direction from reference:	<u>110</u> Degrees	<u>XX</u> East	North <u> </u>
			<u> </u> West	South <u>X</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>12/2/95</u>		Date Completed:		<u>12/2/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>48</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 5', took PID readings. spread soil on location for remediation. Took soil samples. Back filled Pit w/ Fill 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>5'</u> <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>12/2/95</u>		Sample Time		<u>5:30PM</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>15.06</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>60</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>5/28/98</u>		PRINTED NAME		<u>JEFF CROSS</u>	
SIGNATURE		<u><i>Jeff Cross</i></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><i>Kevin C. Mamm</i></u>		DATE:		<u>6-2-98</u>	

APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 156
PIT COUNT: 2

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

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

EXCAVATION								
DIMENSIONS		START			FINISH			CU.YDS.
	W	L	D		W	L	D	
PIT 1	24'	21'	5'	PIT 1	24'	24'	9'	98.0
PIT 2	18'	18'	1'	PIT 2	18'	18'	5'	48.0
PIT 3				PIT 3				
DATE: 12/02/95		PIT1@09'	PIT2@04'	PIT3@	DATE:	PIT1@	PIT2@	PIT3@
P. I. D.	CENTER	2.4	938.0		CENTER			
	NW CORNER	56.1	821.0		NW CORNER			
	NE CORNER	11.8	1106.0		NE CORNER			
	SW CORNER	56.9	511.0		SW CORNER			
	SE CORNER	9.6	904.0		SE CORNER			

NOTES:

12/02/95- PIT 1 - Staining to 8'. Cleared @ 9'.

PIT 2 - No staining, strong odor to 4'. Hit sandstone @ 5'.

SOIL SAMPLING

DATE: 12/02/95		PIT1@09'	PIT2@04'	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
	CENTER	2.4	938.0		PIT	TPH	BETEX	WITNESS	DATE
P.	NW CORNER	56.1	821.0		NO.				
I.	NE CORNER	11.8	1106.0	1	480	ND	IF&S		12/02/95
D.	SW CORNER	56.9	511.0	2	60	ND	IF&S		12/02/95
	SE CORNER	9.6	904.0	3					

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 12/14/95		PIT1@09'	PIT2@05'	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
	CENTER	17.7	20.8		PIT	TPH	BETEX	WITNESS	DATE
P.	NW CORNER	4.6	11.2		NO.				
I.	NE CORNER	4.1	8.0	1	3700	ND.56	JDT		12/14/95
D.	SW CORNER	8.0	5.1	2	93	ND	JDT		12/14/95
	SE CORNER	21.4	30.2	3					

RE-SAMPLE OR CELL(S) SAMPLE

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



SAMPLE DATE 12/14/95

[illegible]

[illegible]

Lab ID: 9512030-06B
Sample ID: AP #150-C

Collected: 12/02/95 14:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A O-Xylene	28	mg/Kg	0.0010	20000	12/07/95	SBTXME094

Lab ID: 9512030-07A
Sample ID: ~~AP #156-C~~ pit #2

Collected: ~~12/02/95~~ 17:30:00
Matrix: ~~SOIL~~

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	60B	mg/Kg	5.0	5.0	12/08/95	SLFTD054
HCs DSL XT/CAL DHS 8015M	12/06/95	N/A				

Lab ID: 9512030-07B
Sample ID: ~~AP #156-C~~ pit #2

Collected: ~~12/02/95~~ 17:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
Toluene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
Ethylbenzene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
O-Xylene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094

Lab ID: 9512030-08A
Sample ID: ~~AP #156-H~~ pit #1

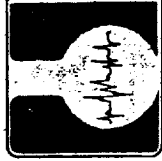
Collected: ~~12/03/95~~ 11:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	30	mg/Kg	5.0	50	12/08/95	SLFT054
HCs DSL XT/CAL DHS 8015M	12/06/95	N/A				

Lab ID: 9512030-08B
Sample ID: ~~AP #156-H~~ pit #1

Collected: 12/03/95 11:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
Toluene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
Ethylbenzene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094
O-Xylene	ND	mg/Kg	0.0010	500	12/07/95	SBTXME094



SAIGA
ANALYTICAL
LABORATORIES

Chain of Custody Record

Lab job no.:

12030

Date:

12/2/95

Page 1 of 1

Client: Apple Corp

Address: 304 N. Belmont

City/State/Zip: Washington N.M.

Project Name / Number: Pit Remediation

Contract / Purchase Order / Quote: _____

Project Manager / Contact: Tagher

Telephone No. 505 325 3416

Fax No. 505 325 9223

Samplers: (Signature) [Signature]

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

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 893-6000

MELQUIADES ALVAREZ
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA
915 370-1116

Lab Job Number	Sample Number	Sample Type	Time	Preservation
001A-B	AR# 155-H	8:10	4oz Glass	ICE W/AG
002A-B	AR# 155-C	8:30		
003A-B	AR# 104-H	1:30		
004A-B	AR# 154-H	5:30		
005A-B	AR# 104-H	1:30		
006A-B	AR# 150-H	12:45		
007A-B	AR# 150-C	8:20		
008A-B	AR# 150-C	5:30		
009A-B	AR# 156-H	11:35		
010A-B	AR# 103	3:42		

Received by: Signature: <u>[Signature]</u> Printed: <u>ELMER GARCIA</u> Company: <u>APC</u> Reason: <u>Testing</u>	Received by: Signature: <u>[Signature]</u> Printed: <u>ELMER GARCIA</u> Company: <u>APC</u> Reason: <u>Testing</u>
--	--

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

Date: <u>12/2/95</u>	Received by: Signature: _____ Printed: _____ Company: _____ Reason: _____
Time: <u>4:30</u>	
After analysis, samples are to be: <input type="checkbox"/> Discarded (additional fee) <input type="checkbox"/> Stored (30 days min) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer	

COURIER

NORTH

GENERAL DRAINAGE

APACHE

APACHE NUMBER 156 Lease # JAT 127

NE/4 NW/4 (C)

SECTION 3, TOWNSHIP 24N, RANGE 4W

RIO ARriba COUNTY, NM

Revised 6/1/97 MIG

METER RUN



Pit #2
Reclaimed
125' FWH
110° ESE



LINE DRIP

120' X 30' X 12"

WELL HEAD

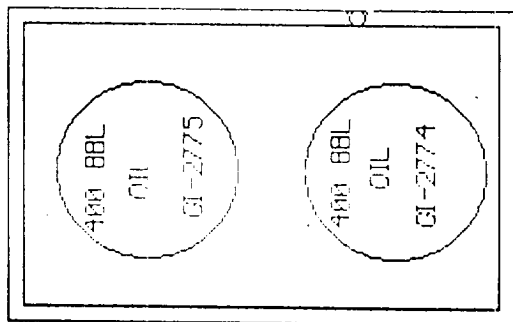


PUMPING UNIT



SEPARATOR

Pit 160' FWH
300' WWS
Reclaimed
Pit #1



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 # 156</u>	
Location: Unit or Qtr/Qtr Sec <u>C</u> Sec <u>3</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>12/2/95</u> Date Completed: <u>5/12/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>146</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>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>5/28/98</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>Karl C. Marshall</u> DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 156

* AMOUNT OF SOIL UNDERGOING REMEDIATION 146 Yds.

CELL No. <u>1</u>	SampDATE 5/12/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>120' X 30' X 12"</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>12/2/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/12/98</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)			
REMEDICATION RECORD: (Date, Treatment, Tilling)			
12/17/95 TREAT SOIL WITH 28-0-0 FERTILIZER,PLOW AND TILL SOIL			
6/23/97 TREAT SOIL WITH 46-0-0 FERTILIZER,WATER,PLOW AND TILL SOIL.			
7/14/97 PLOW AND TILL SOIL.			
8/22/97 TREAT SOIL WITH 6LBS PHOSPHORUS,12LBS LIME, WATER,PLOW AND TILL SOIL.			
8/25/97 TILL SOIL.			
4/30/98 PLOW SOIL.			
5/9/98 TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #156

SAMPLE DATE:

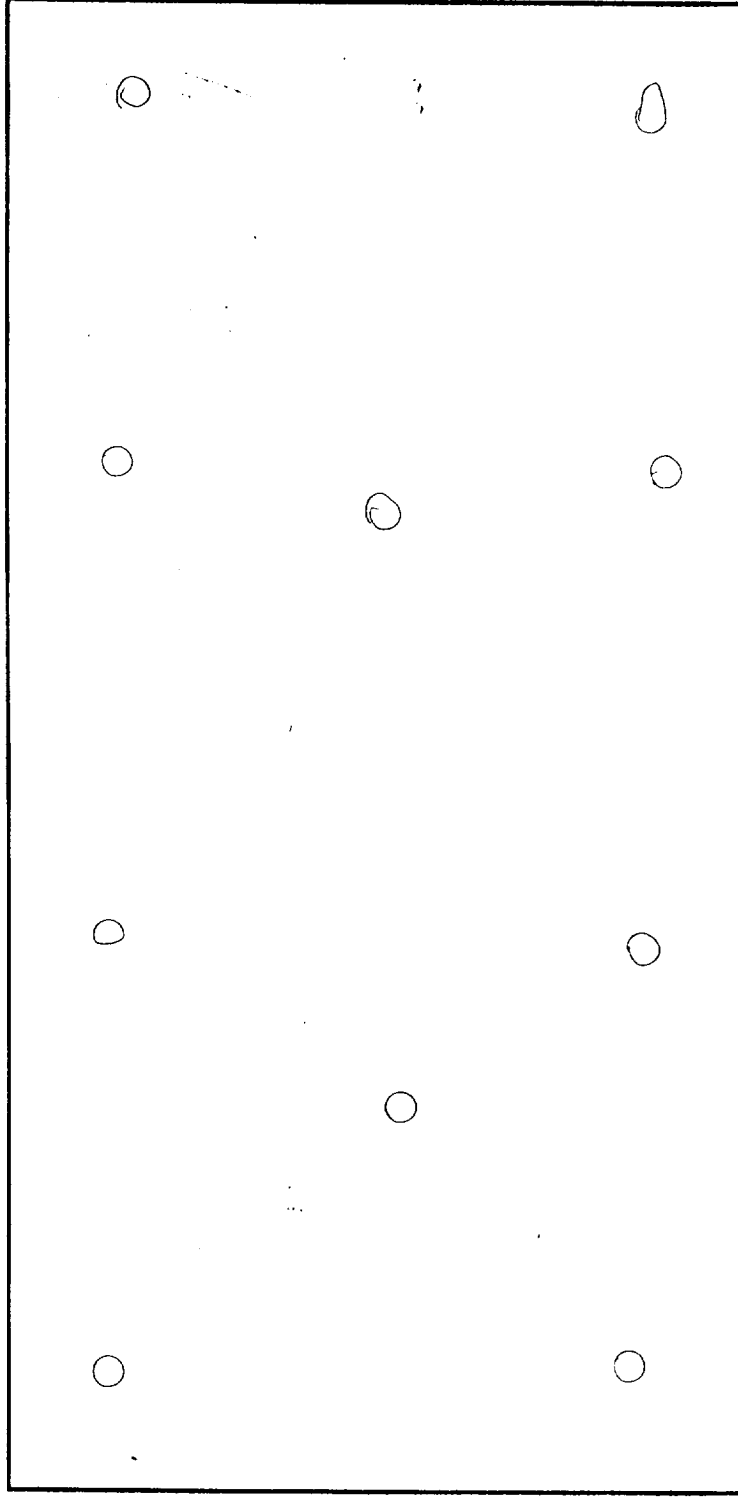
5-12-98

DIMENSIONS:

120' X 30' X 12"



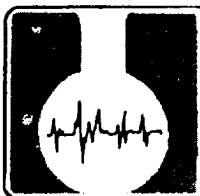
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

10 point composite sample

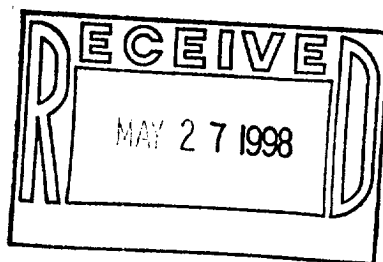


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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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: 9805125 JICARILLA PIT CLOSURE

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

Client Sample ID: **APACHE #156 CELL** Sample Matrix: **SOIL** Sample Collected: **05/12/98 13:10:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	* Sequence	Run Date
SW846-8020 Volatiles								
9805125-01A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.464-16 05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.464-16
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.464-16
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.464-16
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.464-16
SW846-8015 Modified TPH								
9805125-01B	X98268		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.465-15 05/15/98

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



