

District Office
1000 Rio Arriba Rd.
Aztec, NM 87410

George E. Frost
DEPT. OF OIL & GAS INSPECTOR

DEC 17 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

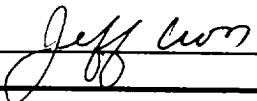
OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

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

Approved
PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 6 1999

Operator: Apache Corporation		Telephone: 505-326-0318		OIL CON. DIV.	
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401				DIST. 3	
Facility or Well Name: Apache # 154					
Location: Unit or Qtr/Qtr Sec		O	Sec 3	T 24 N	R 4W County Rio Arriba
Pit Type: Separator: XX		Dehydrator		Other	
Land Type: Jicarilla Tribal					
Beginning Pit Dimensions:		Length 28'	Width 32'	Depth 6'	
Pit Location: Ending Pit Dimensions:		Length 28'	Width 32'	Depth 10'	
(Attach diagram)					
Reference:		Wellhead XXX	Other		
Footage from reference:		90'			
Direction from reference:		276 Degrees	East	North	X
			XX 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) 0	
high water elevation of					
groundwater)					
Wellhead Protection Area:		Yes		(20 points)	
(Less than 200 feet from a private		No		(0 points) 0	
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) 0	
irrigation canals and ditches)					
		RANKING SCORE (TOTAL POINTS)		0	

Date Remediation Started:		<u>11/28/95</u>		Date Completed:		<u>12/14/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>132</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 _____	
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>12/14/95</u>		Sample Time <u>3:05 P.M.</u>	
		Sample results					
		Benzene		(ppm)		<u>ND</u>	
		Total BTEX		(ppm)		<u>ND</u>	
		Field Headspace		(ppm)		<u>13.84</u>	
		TPH				<u>840</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		<u></u>		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 # 154</u>			
Location:	Unit or Qtr/Qtr	Sec <u>O</u>	T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u>XX</u>	Dehydrator <u> </u>	Other <u> </u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>28'</u>	Width <u>32'</u>	Depth <u>10'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>90'</u>		
	Direction from reference:	<u>276</u> Degrees	<u> </u> East	North <u>X</u>
		<u>XX</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: 11/28/95 Date Completed: 12/14/95

Remediation Method: Excavation XXX Approx. cubic yards 132
(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 10', took PID readings. spread soil on

location for remediation. Took soil samples. Back filled 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 10' 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 12/14/95 Sample Time 3:05PM
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>13.84</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>840</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 5/27/98 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: Kevin C. Marshall DATE: 6-2-98

APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

LOCATION: APACHE 154

PIT COUNT: 1

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

				EXCAVATION				
DIMENSIONS		START		FINISH				
	W	L	D		W	L	D	CU.YDS.
PIT 1	32'	28'	6'	PIT 1	32'	28'	10'	132.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE: 11/28/95		PIT1@10'	PIT2@_ '	PIT3@_ '	DATE:	PIT1@_ '	PIT2@_ '	PIT3@_ '
P. I. D.	CENTER	97.9			P. I. D.	CENTER		
	NW CORNER	32.1				NW CORNER		
	NE CORNER	26.8				NE CORNER		
	SW CORNER	79.6				SW CORNER		
	SE CORNER	90.3				SE CORNER		

NOTES:

11/28/95 - STAINING TO 8.5'. CLEARED @ 10'.

SOIL SAMPLING

DATE: 11/28/95		PIT1@10'	PIT2@_ '	PIT3@_ '	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	97.9			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	32.1			NO.				
	NE CORNER	26.8			1	1500	ND	IF&S	11/28/95
	SW CORNER	79.6			2				
	SE CORNER	90.3			3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 12/14/95		PIT1@10'	PIT2@_ '	PIT3@_ '	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	38.4			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	8.4			NO.				
	NE CORNER	9.2			1	840	ND	JDT	12/14/95
	SW CORNER	7.3			2				
	SE CORNER	5.9			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				



SAMPLE DATE 12/14/95

[illegible]

Lab ID: 9512195-05A
Sample ID: AP #107

Collected: 12/14/95 14:25:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-05B
Sample ID: AP #107

Collected: 12/14/95 14:25:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	2300	mg/Kg	5.0	250	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-06A
Sample ID: AP #104

Collected: 12/14/95 14:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	0.072	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	0.18	mg/Kg	0.0010	50	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-06B
Sample ID: AP #104

Collected: 12/14/95 14:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	1800	mg/Kg	5.0	100	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-07A
Sample ID: AP #154

Collected: 12/14/95 15:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097

Lab ID: 9512195-07A
Sample ID: ~~AP #154~~

Collected: ~~12/14/95~~ 15:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Ethylbenzene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	100	12/27/95	SBTXME097

Lab ID: 9512195-07B
Sample ID: ~~AP #154~~

Collected: ~~12/14/95~~ 15:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	5.30	mg/Kg	5.0	100	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-08A
Sample ID: ~~AP #103~~

Collected: 12/14/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-08B
Sample ID: ~~AP #103~~

Collected: 12/14/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	5.50	mg/Kg	5.0	100	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-09A
Sample ID: AP #102-H

Collected: 12/14/95 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	0.085	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	0.23	mg/Kg	0.0010	50	12/27/95	SBTXME097

Chain of Custody Record



ASAI
ANALYTICAL
LABORATORIES

Lab job no.: 12195 Date 12/18/95

Page 2 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) 325-0325

Project Name / Number Oil Remediation - 45017

Samplers: (Signature) _____

Contract / Purchase Order / Quote _____

MELOQUIADES ALANIS

6411 LOCAL UNO

CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

7300 JEFFERSON, N.E.

ALBUQUERQUE, NEW MEXICO 871

3332 WEDGEWOOD

EL PASO, TEXAS 79925

(915) 593-6000

Analysis Required	Remarks
BTX	
TPH	

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Chemical
07A AP# 154	12/14	3:05	50ml	4 OR. Glass		JCE
07B AP# 154		3:05				
08A AP# 103		3:20				
08B AP# 103		3:20				
09A AP# 102-H		3:30				
09B AP# 102-H		3:30				
10A AP# 102-C		3:40				
10B AP# 102-C		3:40				
11A AP# 123		3:55				
11B AP# 123		3:55				
12A AP# 155-H		4:10				
12B AP# 155-H		4:10				

Relinquished by:	Received by:
Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
Printed <u>ELVIN G. CHAVEZ</u>	Printed <u>ELVIN G. CHAVEZ</u>
Company <u>APC</u>	Company <u>APC</u>
Reason <u>for 10/18/95</u>	Reason <u>for 12/18/95</u>

Relinquished by:	Received by:
Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
Printed <u>ELVIN G. CHAVEZ</u>	Printed <u>ELVIN G. CHAVEZ</u>
Company <u>APC</u>	Company <u>APC</u>
Reason <u>for 10/18/95</u>	Reason <u>for 12/18/95</u>

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

Comments: _____

Method of Shipment: _____

Shipment No.: _____

Special Instructions: _____

COURIER

NORTH

GENERAL DRAINAGE

APACHE

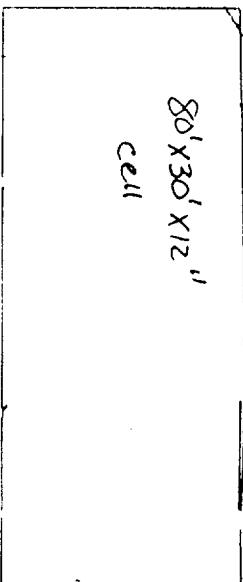
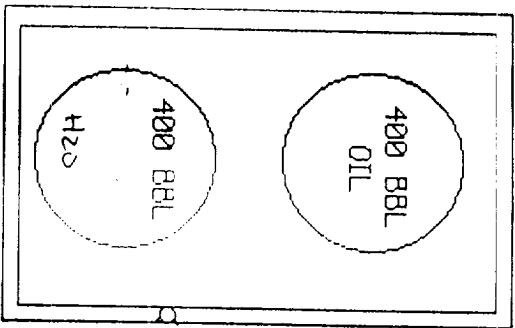
APACHE NUMBER 154 Lease # JAT 127

SW/4 SE/4 10)

SECTION 3. TOWNSHIP 24N. RANGE 4W

RIO ARriba COUNTY, NM

Revised 6/1/97 MC



Pit 28' x 30' x 12'
Reclaimed
90' feet

S
SEPARATOR

WELL HEAD

PUMPING UNIT

|| GPM ||



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 # 154</u>	
Location: Unit or Qtr/Qtr Sec <u>O</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>11/28/95</u> Date Completed: <u>5/12/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>132</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>1:30PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>4900</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>5/27/98</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. M... [Signature]</u> DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 154

* AMOUNT OF SOIL UNDERGOING REMEDIATION 132 Yds.

CELL No. <u>1</u>	SampDATE 5/12/98	TPH 4900	BTEX ND
DIMENSIONS(LxWxH) <u>80' X 30' X 12"</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>11/28/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
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)			
12/3/95 TREAT SOIL WITH 28-0-0 FERTILIZER,PLOW AND TILL SOIL.			
6/3/97 TREAT SOIL WITH 46-0-0 FERTILIZER,WATER,PLOW AND TILL SOIL.			
7/18/97 WATER, PLOW AND TILL SOIL.			
8/25/97 TREAT SOIL WITH 12LBS PHOSPHORUS, 3LBS LIME, WATER, PLOW AND TILL SOIL.			
4/30/98 PLOW SOIL.			
5/9/98 TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #154

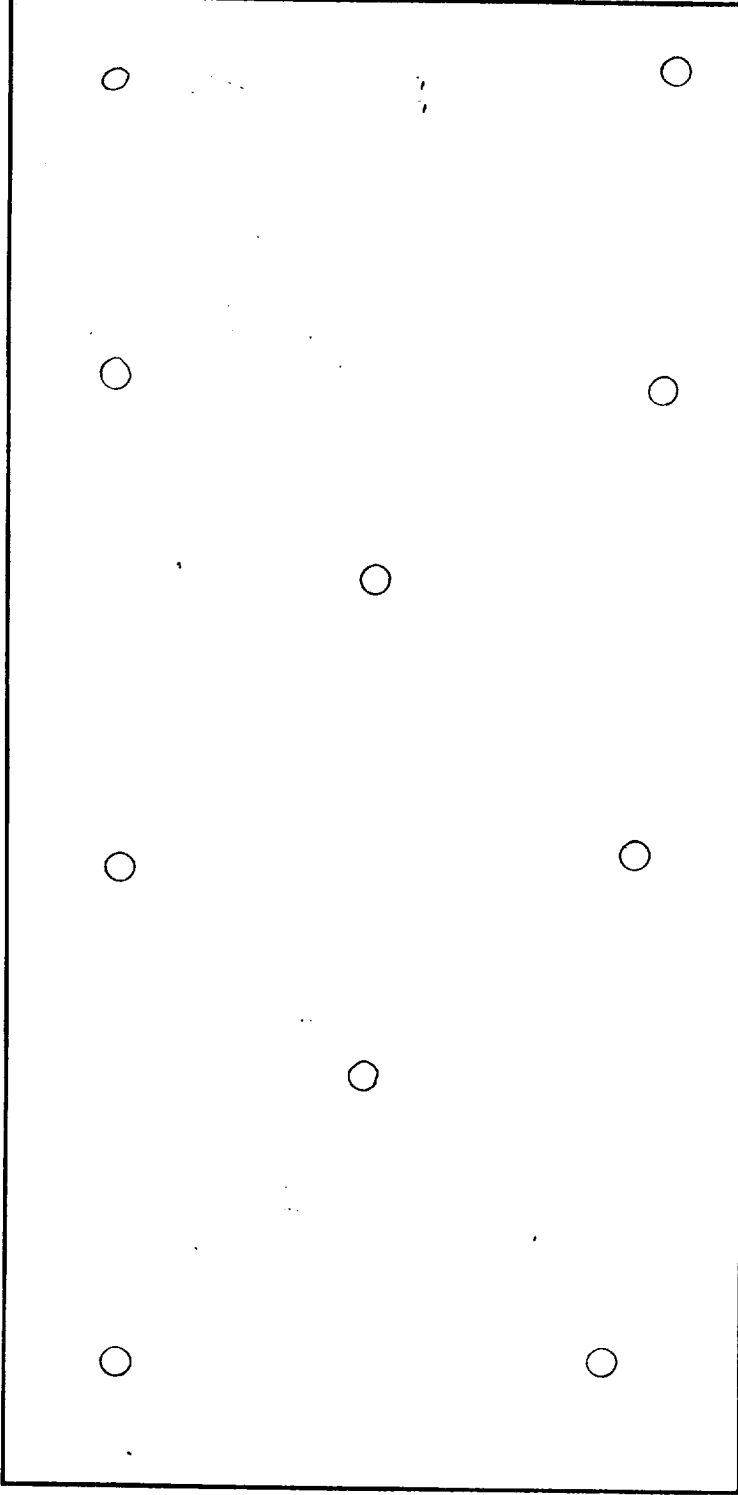
SAMPLE DATE:

5-12-98

DIMENSIONS:

80' x 30' x 12"

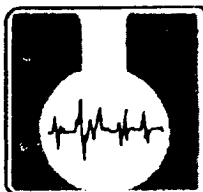
○ = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

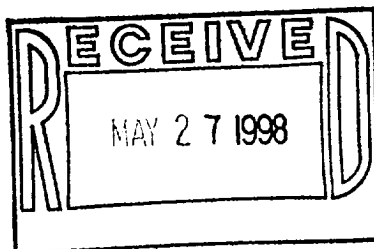
10 point composite sample



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: **9805124 JICARILLA PIT CLOSURE**

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

Client Sample ID: **APACHE #154 CELL** Sample Matrix: **SOIL** Sample Collected: **05/12/98 13:30:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit *	Sequence	Run Date
SW846-8020 Volatiles								
9805124-01A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	
SW846-8015 Modified TPH								
9805124-01B	X98268		Diesel Range Organics	4900	mg / Kg	25	25	05/15/98

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





ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

Lab job no. 5126 Date 05/15/98

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

Page _____ of _____

Apache Corporation

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) _____

Contract / Purchase Order / Quote _____

[illegible]

Relinquished by: Signature <u>Jeff Warr</u> Printed <u>JEFF WARR</u> Company <u>Apple Corp.</u>	Date <u>5-15-98</u> Time <u>9:30</u>	Received by: Signature <u>Scott Pratt</u> Printed <u>SCOTT PRATT</u> Company <u>AAL</u> Reason _____	Relinquished by: Signature <u>Scott Pratt</u> Printed <u>SCOTT PRATT</u> Company <u>AAL</u> Reason _____
--	---	--	--

15 May 98 Pub. Affairs
Signature P. R. Childress
Printed _____
Company AAAL
Reason Anchovy SW
Time 11:30

Company _____	Reason _____	Reason _____
1-10	Method of Shipment: _____	After analysis, samples are to be: ☐ Disposed of (additional fee) ☐ Stored (30 days max) ☐ Stored over 30 days (additional fee) ☐ Returned to customer
	Shipment No. _____	
	Special Instructions: _____	

LABORATORY

Remarks