

Denny E. Faust
District III
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Minerals and Natural Resources Department

Aztec, NM 87410

DEC 17 1998

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 6 1998

Operator: Apache Corporation Telephone: 505-325-0018

Address: 2855 Southside River Road, Suite A, Farmington, NM 87401

Facility or Well Name: Apache # 132

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

Pit Type: Separator: _____ Dehydrator: _____ Other: Tank Drain

Land Type: Jicarilla Tribal

Beginning Pit Dimensions: Length 30' Width 30' Depth 3'

Pit Location: Ending Pit Dimensions: Length 33' Width 33' Depth 10'
(Attach diagram)

Reference: We lhead XXX Other _____

Footage from reference: 120'

Direction from reference: 45 Degrees X East North X
of West South

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)

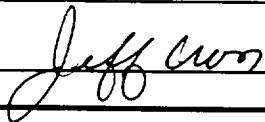
Yes	(20 points)	_____
No	(0 points)	<u>0</u>

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>12/12/95</u>		Date Completed:		<u>5/22/96</u>	
Remediation Method: (Check all appropriate sections)		Excavation	<u>XXX</u>	Approx. cubic yards	<u>282</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	<u> </u>		
		<u>Depth</u> <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>5/22/98</u>		Sample Time	<u>10:00 A.M.</u>		
	Sample results						
	Benzene	(ppm)	<u>ND</u>				
	Total BTEX	(ppm)	<u>ND</u>				
	Field Headspace	(ppm)	<u>ND</u>				
	TPH		<u>4100</u>				
Groundwater Sample:	Yes	<u> </u>	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 # 132</u>			
Location:	Unit or Qtr/Qtr	Sec	<u>K SEC 4 T 24N R 4W</u> County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u>XXX</u>	Dehydrator	Other <u></u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>33'</u>	Width <u>33'</u> Depth <u>10'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u></u>
	Footage from reference:	<u>120'</u>	
	Direction from reference:	<u>45</u> Degrees	<u>X</u> East North <u>X</u> West of 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)			
Distance to an Ephemeral Stream:		Less than 100 feet	(10 points)
(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)
(Downgradient lakes, playas and		Greater than 100 feet	(0 points) <u>0</u>
livestock or wildlife watering ponds)			
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 100 feet	(20 points)
(Horizontal distance to perennial		100 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: 12/12/95 Date Completed: 5/22/96

Remediation Method: Excavation XXX Approx. cubic yards 282

(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. Pit Back Filled 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 5/22/96 Sample Time 10:00AM

Soil: Benzene (ppm) ND Water: Benzene (ppb) NA

Total BTEX (ppm) ND Toluene (ppb) NA

Field Headspace (ppm) ND Ethylbenzene (ppb) NA

TPH (ppm) 4100 Total Xylenes (ppb) NA

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: Kurt M. M... DATE: 6-2-98

APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 132

PIT COUNT: 1

JICARILLA APACHE TRIBAL EPO
RE VIEW AND APPROVAL

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

				EXCAVATION					
DIMENSIONS		START			FINISH				
	W	L	D		W	L	D	CU.YDS.	
PIT 1	30'	30'	3'	PIT 1	33	33'	10'	303.0	
PIT 2				PIT 2					
PIT 3				PIT 3					
DATE: 12/12/95		PIT1@07'	PIT2@_ '	PIT3@_ '	DATE: 12/13/95	PIT1@10'	PIT2@_ '	PIT3@_ '	
P. I. D.	CENTER	256.0			P. I. D.	CENTER	71.5		
	NW CORNER	239.0				NW CORNER	144.0		
	NE CORNER	363.0				NE CORNER	23.5		
	SW CORNER	168.0				SW CORNER	58.3		
	SE CORNER	102.0				SE CORNER	4.6		

NOTES:

12/12/95 - Dark staining to 7'. Cleared @ 10'.

High TPH Level - Reexcavate and Sampled 5-22-96

SOIL SAMPLING

DATE: 12/12/95		PIT1@07'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	256.0			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	239.0			NO.				
	NE CORNER	363.0			1	9600	8.0	IF&S	12/12/95
	SW CORNER	168.0			2				
	SE CORNER	102.0			3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 12/15/95		PIT1@10'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	72.5			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	43.4			NO.				
	NE CORNER	89.9			1	9300	33.6	JDT	12/15/95
	SW CORNER	22.4			2				
	SE CORNER	23.5			3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 5-22-96		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	4100	ND	KB	5-22-96
	SW CORNER				2				
	SE CORNER				3				

[illegible]

Lab ID: 9605206-03A
 Sample ID: ~~APACHE~~ 132

Collected: ~~05/22/96~~ 10:00:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
O-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
HCs DIESEL/CAL DHS 8015M						
Diesel	6300	mg/Kg	5.0	250	05/29/96	SLFTD074
HCs DSL XT/CAL DHS 8015M	05/24/96	N/A				

Lab ID: 9605206-04A
 Sample ID: APACHE 131

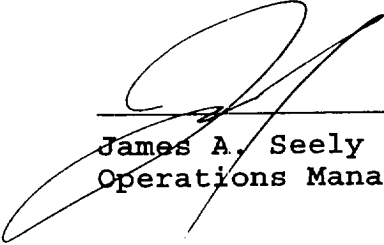
Collected: 05/22/96 10:15:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Toluene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Ethylbenzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
P-&m-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
O-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
HCs DIESEL/CAL DHS 8015M						
Diesel	6300	mg/Kg	5.0	250	05/29/96	SLFTD074
HCs DSL XT/CAL DHS 8015M	05/24/96	N/A				

Lab ID: 9605206-05A
 Sample ID: J.A.T.124/125 CTB

Collected: 05/22/96 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	100	05/23/96	SBTXME112
Toluene	ND	mg/Kg	0.0010	100	05/23/96	SBTXME112
Ethylbenzene	ND	mg/Kg	0.0010	100	05/23/96	SBTXME112
P-&m-Xylene	ND	mg/Kg	0.0010	100	05/23/96	SBTXME112
O-Xylene	ND	mg/Kg	0.0010	100	05/23/96	SBTXME112
HCs DIESEL/CAL DHS 8015M						
Diesel	3400	mg/Kg	5.0	250	05/29/96	SLFTD074
HCs DSL XT/CAL DHS 8015M	05/24/96	N/A				


 James A. Seely
 Operations Manager



7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87116
(505) 345-8964

Lab job no. 546 Date 11/11/74
Page 1 of 1

MELOQUADES ALANIS
8411 LOCAL UNO
CIUDAD JUAREZ, CRIQUAHUA MEXICO 32320

COURIER

APACHE
APACHE NUMBER 132 Lease # JAT 127
NE/4 SW/4 (K)
SECTION 4, TOWNSHIP 24N, RANGE 4W
RIO ARriba COUNTY, NM

Revised 8/1/97 MG

Cell #2 150' x 100'

135' x 40' x 12"

46° NE

Pit Reclaimed

120' FWH

PUMP JACK

WELL HEAD

METER RUN

LINE DRIP

SEPARATOR

400 BBL
OIL

400 BBL
H₂O

Cell #1 144' x 90'

90' x 85' x 16"

Pit
EPN 6.
Reclaimed

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 # 132 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>12/12/95</u>		Date Completed: <u>5/12/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>141</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>11:45</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>1700</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>Lois C. M...ll</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 # 132 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>12/12/95</u>		Date Completed: <u>5/12/98</u>	
Remediation Method: Landfarmed		<u>XXX</u> Approx. cubic yards <u>150</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>12:00PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>3600</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>Ken C. M... [Signature]</u>		DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 132

* AMOUNT OF SOIL UNDERGOING REMEDIATION 282 Yds.

CELL No. <u>1</u>	SampDATE 5/12/98	TPH 1700	BTEX ND
DIMENSIONS(LxWxH) <u>90' X 85' X 6"</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>12/12/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/12/98</u>			
CELL No. <u>2</u>	SampDATE 5/12/98	TPH 3600	BTEX ND
DIMENSIONS(LxWxH) <u>135' X 60' X 6"</u>			
CELL LOCATION (dir. from well head) <u>EAST</u>			
* DATE BEGAN: <u>12/12/95</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 , PLOW AND TILL SOIL.			
6/3/97 TREAT SOIL WITH 46-0-0 FERTILIZER/ PLOW AND TILL SOIL.			
6/23/97 WATER,PLOW AND TILL SOIL.			
7/15/97 PLOW AND TILL SOIL.			
8/25/97 TREAT SOIL WITH 43LBS PHOSPHORUS,55LBS LIME,WATER , PLOW AND TILL SOIL.			
4/30/98 PLOW SOIL.			
5/9/98 TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #132 Cell #1

SAMPLE DATE:

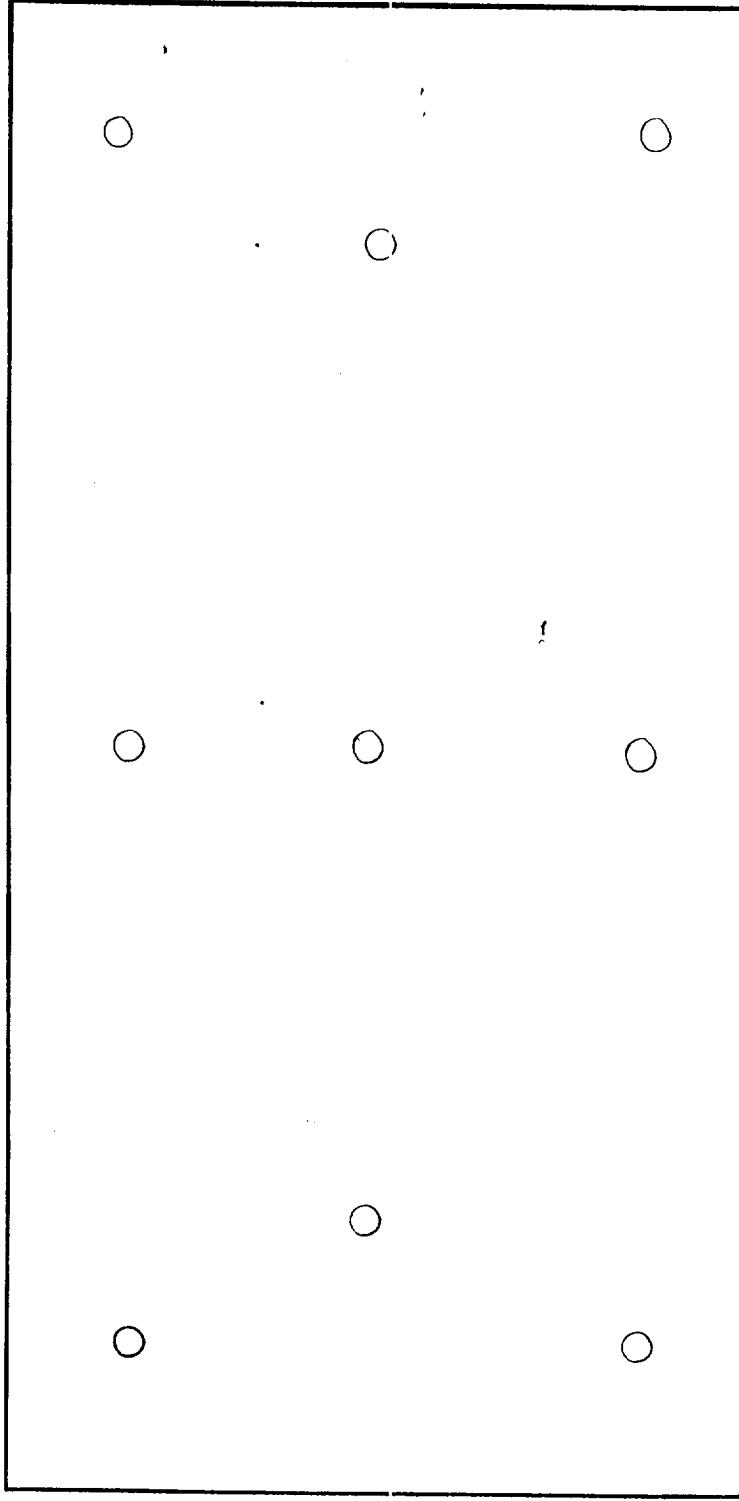
5-12-98

DIMENSIONS:

90' x 85' x 12"



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

9 point composite sample

WELL NAME:

Apache #132 cell #2

SAMPLE DATE:

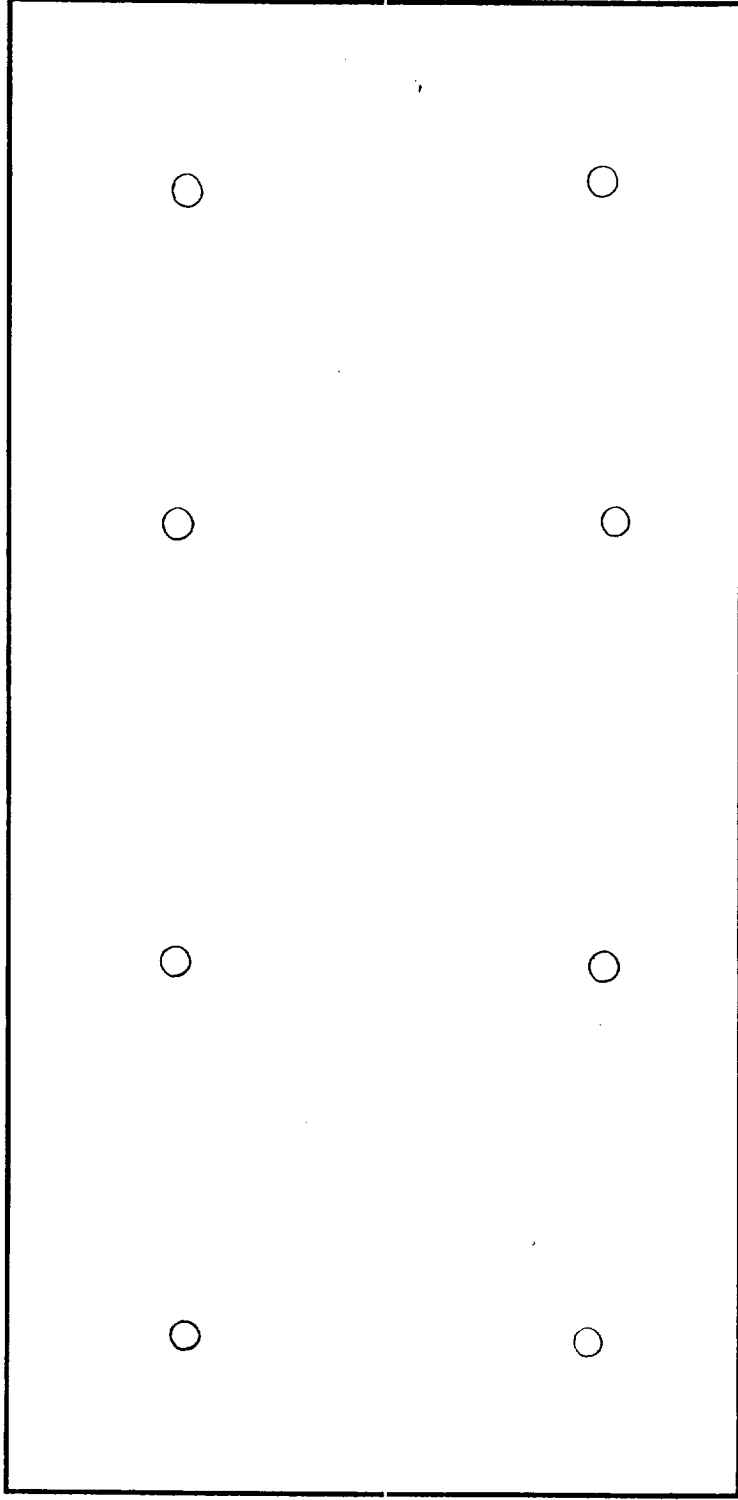
5-12-98

DIMENSIONS:

135' x 160' x 12"



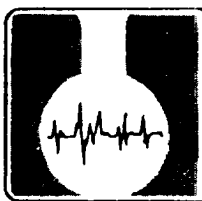
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

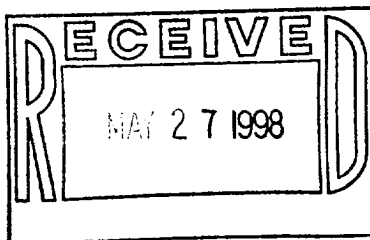
8 point composite sample



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: 9805120 JICARILLA PIT CLOSURE

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

Client Sample ID	APACHE #132 CELL #1	Sample Matrix	SOIL	Sample Collected	05/12/98 11:45:00
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Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8020 Volatiles									
9805120-01A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG. 1998.464-11	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG. 1998.464-11	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG. 1998.464-11	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	XG. 1998.464-11	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG. 1998.464-11	
SW846-8015 Modified TPH									
9805120-01B	X98268		Diesel Range Organics	1700	mg / Kg	25	25	XG. 1998.465-9	05/14/98

Client Sample ID	APACHE #132 CELL #2	Sample Matrix	SOIL	Sample Collected	05/12/98 12:00:00
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Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8020 Volatiles									
9805120-02A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG. 1998.464-12	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG. 1998.464-12	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG. 1998.464-12	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	XG. 1998.464-12	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG. 1998.464-12	
SW846-8015 Modified TPH									
9805120-02B	X98268		Diesel Range Organics	3600	mg / Kg	25	25	XG. 1998.465-10	05/14/98



