

District III
1000 Rio Pecos Rd
Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
DEPUTY OIL & GAS INSPECTOR

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

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

FEB 08 1999

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Apache Corporation Telephone: 505-325-0318

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

Facility or Well Name: APACHE 131

Location: Unit or Qtr/Qtr Sec C 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 16' Width 20' Depth 4'

Pit Location: Ending Pit Dimensions: Length 22' Width 18' Depth 7'

(Attach diagram)

Reference: Wellhead XXX Other: _____

Footage from reference: 110'

Direction from reference: 104 Degrees X 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)

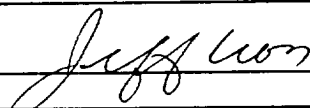
Yes	(20 points)	_____
No	(0 points)	<u>0</u>

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>12/14/95</u>	Date Completed:		<u>11/6/96</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards		<u>103</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. Backfill pit with clean soil. Remediated soil to be spread on location. Spread soil on location for remediation.</u>					
<u>Took soil samples</u>					

Groundwater Encountered:		No <u>XX</u>	Yes _____	Depth _____	
Final Pit:	<u>5 point composite sample taken from pit sidewalls and pit</u>				
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)	<u>bottom center.</u>				
	Sample location				
	Sample depth	<u>7'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>		
	Sample Date	<u>11/6/96</u>	Sample Time	<u>1:00 PM</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>ND</u>		
	TPH		<u>810</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>December 1, 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, NM 87401</u>			
Facility or Well Name: <u>APACHE # 131</u>			
Location:	Unit or Qtr/Qtr	Sec	County
	<u>C</u>	<u>SEC 4</u>	<u>T 24 N R 4 W</u> <u>Rio Arriba</u>
Pit Type:	Separator: _____ Dehydrator _____ Other <u>TANK DRAIN</u>		
Land Type: <u>Jicarilla Tribal</u>			
Pit Location: (Attach diagram)		Pit Dimensions: Length <u>22'</u> Width <u>18'</u> Depth <u>7'</u>	
		Reference: Wellhead <u>XX</u> Other _____	
		Footage from reference: <u>110'</u>	
		Direction from reference: <u>104</u> Degrees <u>XX</u> East of North	
		_____ West of South <u>X</u>	
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>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)		Less than 100 feet	(10 points) _____
		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) _____
		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 100 feet	(20 points) _____
		100 feet to 1000 feet	(10 points) _____
		Greater than 1000 feet	(0 points) <u>0</u>
		RANKING SCORE (TOTAL POINTS) <u>0</u>	

Date Remediation Started:		<u>12/14/95</u>		Date Completed:		<u>11/6/96</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>103</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. BACK FILL PIT WITH CLEAN SOIL. REMEDIATED SOIL TO BE SPREAD ON LOCATION. SPREAD SOIL ON LOCATION FOR REMEDIATION. TOOK SOIL SAMPLES.</u>							
Groundwater Encountered:		No <u>X</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>7'</u>					
Sample Date		<u>11/6/96</u>		Sample Time		<u>1:00PM</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>ND</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>810</u>		Total Xylenes	(ppb)	<u>NA</u>
Groundwater Sample:		Yes _____		No <u>X</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>10/1/98</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>Ken C Mamm</i></u>		DATE:		<u>11-13-98</u>	

APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

LOCATION: APACHE 131

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	16'	20'	4'	PIT 1	18'	22'	7	103.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE: 12/14/95			PIT1@06'	PIT2@	PIT3@	DATE:		
P. I. D.	CENTER	88.6				P. I. D.	CENTER	
	NW CORNER	169.0					NW CORNER	
	NE CORNER	177.0					NE CORNER	
	SW CORNER	144.0					SW CORNER	
	SE CORNER	201.0					SE CORNER	

NOTES:

12/14/95 Hit sandstone @ 5' Dark staining, excavate additional 3' from bottom, plus 2' @ side walls.

* 12/14 Sampling @ 10' High TPH

SOIL SAMPLING								
DATE: 12/14/95			PIT1@06'	PIT2@	PIT3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI
P. I. D.	CENTER	88.6				PIT	TPH	BETEX WITNESS DATE
	NW CORNER	169.0				NO.		
	NE CORNER	177.0				1	11000 22.6	IF&S 12/14/95
	SW CORNER	144.0				2		
	SE CORNER	201.0				3		

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 12/15/95			PIT1@07'	PIT2@	PIT3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI
P. I. D.	CENTER	95.2				PIT	TPH	BETEX WITNESS DATE
	NW CORNER	92.8				NO.		
	NE CORNER	81.3				1	5600 8.8	JDT 12/15/95
	SW CORNER	57.6				2		
	SE CORNER	90.2				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		

**APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT**

LOCATION: APACHE 131

PIT COUNT: 1

**JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL**

EPO REPRESENTATIVE K.C.
DATE OF REVIEW:

EXCAVATION								
DIMENSIONS		START		FINISH				CU.YDS.
	W	L	D		W	L	D	
PIT 1	16'	20'	4'	PIT 1	18'	22'	7	103.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE: 12/14/95		PIT1@06'	PIT2@_ ' _'	PIT3@_ ' _'	DATE: _/ _/ _	PIT1@_ ' _'	PIT2@_ ' _'	PIT3@_ ' _'
P. I. D.	CENTER	88.6			P. I. D.	CENTER		
	NW CORNER	169.0				NW CORNER		
	NE CORNER	177.0				NE CORNER		
	SW CORNER	144.0				SW CORNER		
	SE CORNER	201.0				SE CORNER		

NOTES:

12/14/95 Hit sandstone @ 5' Dark staining, excavate additional 3' from bottom, plus 2' @ side walls.

*High TPH level from 12/14 sampling @ 6'.

*TPH level above limit 12/15 sampling. To re-test 4/96.

SOIL SAMPLING									
DATE: 12/14/95		PIT1@06'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
	CENTER	88.6			PIT	TPH	BETEX	WITNESS	DATE
P.	NW CORNER	169.0			NO.				
I.	NE CORNER	177.0			1	11000.0	22.6	IF&S	12/14/95
D.	SW CORNER	144.0			2				
	SE CORNER	201.0			3				

RE-SAMPLE OR CELL(S) SAMPLE

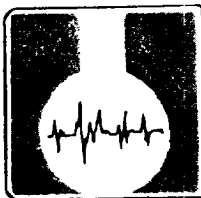
DATE: 12/15/95		PIT1@07'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	95.2			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	92.8			NO.				
	NE CORNER	81.3			1	5600.0	8.8	JDT	12/15/95
	SW CORNER	57.6			2				
	SE CORNER	90.2			3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1	PIT 2	PIT 3	ANALYSIS RESULTS			PER LAB:	
P.	CENTER				PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER				NO.				
I.	NE CORNER				1	6300	ND	KB	5-22-96
D.	SW CORNER				2	810	ND	KB	11-6-96
	SE CORNER				3				

RETEST

[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

Report Generated:
November 21, 1996 15:08

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9611047
WORK ID : APACHE 131
CLIENT CODE : APA01
DATE RECEIVED : 11/07/96

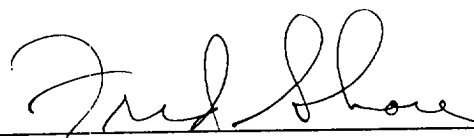
ATTN: JOHN TAYLOR

Page : 1

Lab ID: 9611047-01A
Sample ID: PIT #1

Collected: 11/06/96 13:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	250	11/12/96	SBTXME137
Toluene	ND	mg/Kg	0.0010	250	11/12/96	SBTXME137
Ethylbenzene	ND	mg/Kg	0.0010	250	11/12/96	SBTXME137
P-&m-Xylene	ND	mg/Kg	0.0010	250	11/12/96	SBTXME137
O-Xylene	ND	mg/Kg	0.0010	250	11/12/96	SBTXME137
el Range OG Soil/M8015						
el Range OG in Soil	810	mg/Kg	50	5.0	11/14/96	SDRO005


Fred L. Shore, Ph.D.
VP of Laboratory Operations



WORKORDER COMMENTS

DATE : 11/21/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

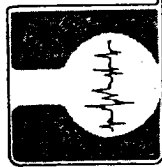
ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration 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.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***

*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS



SSAIGAI
ANALYTICAL
LABORATORIES

Chain of Custody Record

Lab job no: 11047 Date 7 Nov 96

Page 1 of 1

Client Apache Corp.

Address _____

Project Manager / Contact Mickey Ahrens

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature) [Signature]

City / State / Zip _____

Project Name / Number Apache 131

Contract / Purchase Order / Quote _____

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87105
(505) 345-8964

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

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320



Field	Sample Number / Location	Date	Time	Sample Type	Type / Use of Container	Preservation Temp.	Chemical
Pit #1	11/6/96 1300	Soil	8 02:15	42	UJA	1	XX
<u>[Signature]</u> <u>07 NOV 96</u>							

Relinquished by: Signature <u>[Signature]</u> Printed <u>Kevin L. Bullock</u> Company <u>Apache Corp.</u> Reason _____	Date <u>11-7-96</u> Time <u>12:21 pm</u>	Received by: Signature <u>[Signature]</u> Printed <u>Scott Davis</u> Company <u>AAL</u> Reason _____	Date <u>7 Nov 96</u> Time <u>15:30</u>	Relinquished by: Signature <u>[Signature]</u> Printed <u>Scott Davis</u> Company <u>AAL</u> Reason _____	Date <u>7 Nov 96</u> Time <u>15:30</u>	Received by: Signature <u>[Signature]</u> Printed <u>Scott Davis</u> Company <u>AAL</u> Reason _____	
Method of Shipment: _____		After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer		Comments: _____		Comments: _____	
Shipment No. _____		Comments: _____		Comments: _____		Comments: _____	
Special Instructions: _____		Comments: _____		Comments: _____		Comments: _____	

COURIER

APACHE

APACHE NUMBER 131 Lease # JAT 127

NE/4 NW/4 (C.)

SECTION 4, TOWNSHIP 24N, RANGE 4W

RIO ARriba COUNTY, NM

Revised 6/1/97 ME

GENERAL DRAINAGE

NORTH

4" X 50' EPNG METER RUN



LINE DRIP

Pit

Reclaimed

EPNG.

S

PUMP JACK

WELL HEAD

LANDFARM

55' x 45' x 12"

400 BBL
OIL

400 BBL
OIL

PIT 104'
ESE
110' FWH
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 # 131</u>	
Location: Unit or Qtr/Qtr Sec <u>C</u> <u>SEC 4</u> <u>T 24 N</u> <u>R 4 W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>12/14/95</u> Date Completed: <u>8/17/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>103</u>	
Composted _____	
Other <u>REMEDIED SOIL TO BE SPREAD ON LOCATION.</u>	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>8/17/98</u> Time: <u>12:10PM</u> Sample Results: Field Headspace (ppm) <u>0</u> TPH (ppm) <u>2500</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>10/1/98</u> PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u><i>Jeff Cross</i></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) _____	
SIGNED: <u><i>Ken C. M...</i></u> DATE: <u>11-13-98</u>	

APACHE COPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDICATION SITE APACHE # 131

* AMOUNT OF SOIL UNDERGOING REMEDIATION 103 Yds.

CELL No. <u>1</u>	SampDATE 8/17/98	TPH 2500	BTEX ND
DIMENSIONS(LxWxH) <u>55' X 45' X 12"</u>			
CELL LOCATION (dir. from well head) <u>EAST</u>			
* DATE BEGAN: <u>12/14/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8/17/98</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)			
1/3/96 TREAT SOIL WITH 28-4-4 FERTILIZER.		7/24/97 PLOW AND TILL SOIL.	
4/10/97 TREAT SOIL WITH 46-0-0 FERTILIZER,		8/6/97 PLOW AND TILL SOIL	
WATER,PLOW AND TILL.		8/21/97 TREAT SOIL WITH 10LBS PHOSPHORUS,28LBS,	
5/1/97 PLOW AND TILL SOIL.		LIME,WATER,PLOW AND TILL SOIL.	
5/21/97 PLOW AND TILL SOIL.		5/6/98 PLOW AND TILL SOIL. 5/21/98 PLOW AND TILL SO	
6/5/97 WATER,PLOW AND TILL SOIL.		6/11/98 WATER,PLOW AND TILL SOIL. 6/29/98 PLOW,TILL	
6/21/97 PLOW AND TILL SOIL.		7/15/98 PLOW AND TILL SOIL.	
7/2/97 PLOW AND TILL SOIL.		8/14/98 PLOW AND TILL SOIL.	

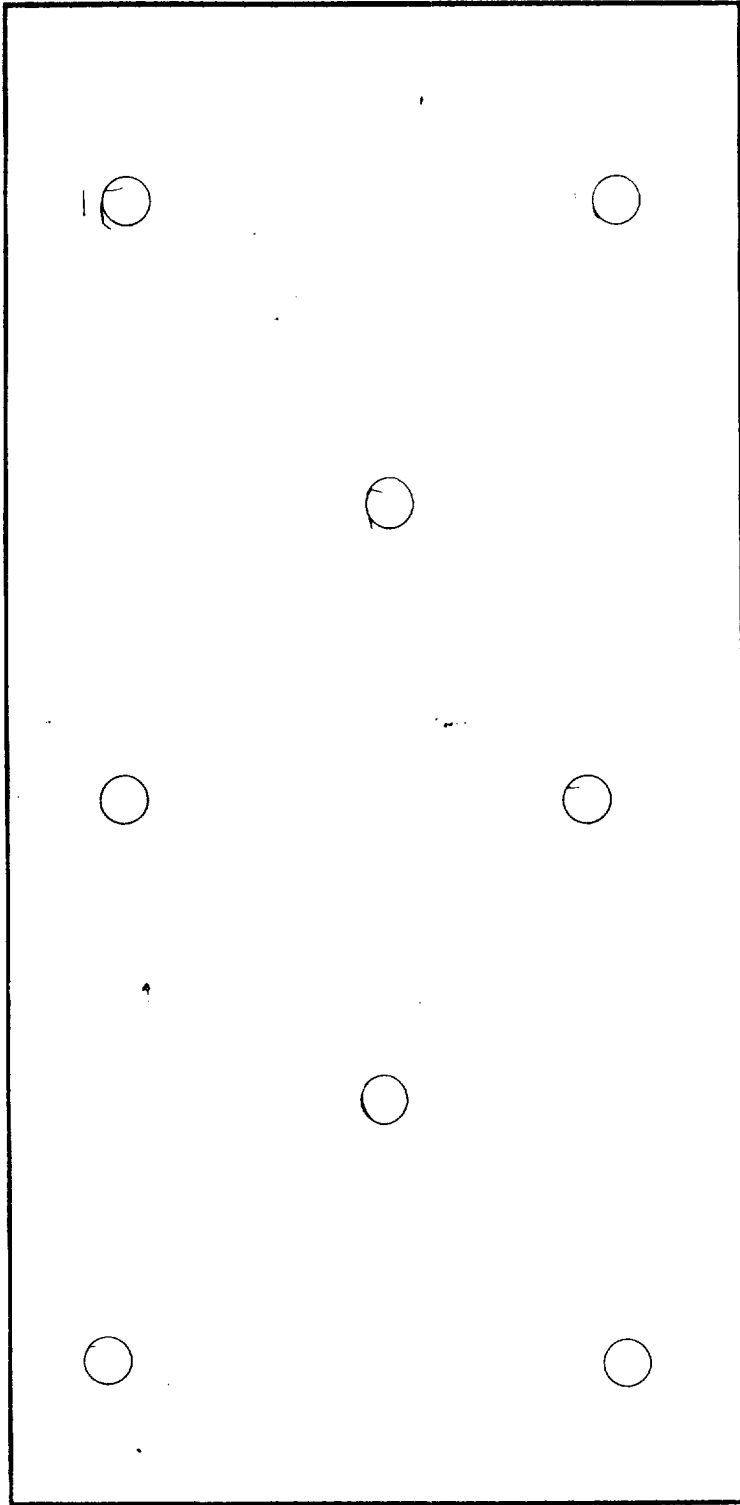
From excavation reports.

WELL NAME: Apache #131

SAMPLE DATE: 8-17-98

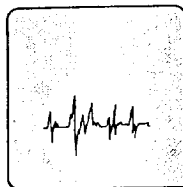
DIMENSIONS: 55'x45'x12"

○ = SAMPLE AREA



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

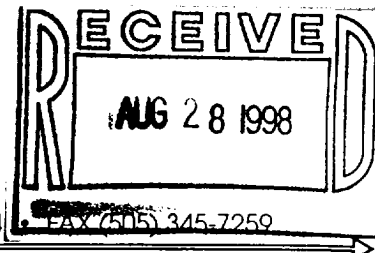
8 point composite sample



ASSAIGAI ANALYTICAL LABORATORIES, INC.

7300 Jefferson, NE • 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
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558



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: **9808181 JICARILLA PIT CLOSURES**

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

Client Sample ID	APACHE #131 CELL	Sample Matrix	SOIL	Sample Collected	08/17/98 12:10:00
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Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
Test: SW846 8015A/8020A GRO / Purgeable Aromatics									
9808181-01A	X98392	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.704-4	08/20/98
	X98392	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.704-4	
	X98392	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.704-4	
	X98392		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.704-4	
	X98392	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.704-4	
Test: SW846 8015A Diesel Range Organics by GC/FID									
9808181-01B	X98389		Diesel Range Organics	2500	mg / Kg	25	25	XG.1998.699-15	08/21/98

*** Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. ***
*** Results relate only to the items tested. ***



