

Henry E. Faust
District III
1000 Rio Brazos Rd
Santa Fe, NM 87410
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

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

DEC 17 1998

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 8 1999
OIL CON. DIV.
DIST. 3

Operator: **Apache Corporation** Telephone: **505-325-0318**
Address: **2855 Southside River Road, Suite A, Farmington, NM 87401**

Facility or Well Name: **Apache # 130**

Location: Unit or Qtr/Qtr Sec **K Sec 24 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 **6'**
Pit Location: Ending Pit Dimensions: Length **30'** Width **30'** Depth **10'**
(Attach diagram)
Reference: Wellhead **XXX** Other: _____
Footage from reference: **160'**
Direction from reference: **290** Degrees **XX** East North **X**
of South

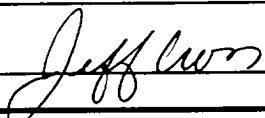
Depth To Groundwater:
(vertical distance from
contaminants to seasonal
high water elevation of
groundwater)
Less than 50 feet (20 points) _____
50 feet to 99 feet (10 points) _____
Greater than 100 feet (0 points) **0**

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) **0**

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) **0**

RANKING SCORE (TOTAL POINTS) **0**

Date Remediation Started:		<u>10/19/95</u>	Date Completed:		<u>10/19/95</u>
Remediation Method: (Check all appropriate sections)		Excavation	<u>XXX</u>	Approx. cubic yards	<u>160</u>
		Landfarmed	<u>XX</u>	In situ 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>10/19/95</u>	Sample Time	<u>2:50 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>4.5</u>		
	Field Headspace	(ppm)	<u>29.68</u>		
	TPH		<u>4300</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 # 130</u>			
Location:	Unit or Qtr/Qtr	Sec <u>K</u>	SEC 24 T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: _____	Dehydrator: _____	Other <u>TANK DRAIN</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 _____	
Footage from reference:	<u>160'</u>		
Direction from reference:	<u>290</u> Degrees	East _____	North <u>X</u>
		West <u>XX</u>	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>
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: 10/19/95 Date Completed: 10/19/95

Remediation Method:
(Check all appropriate
sections)

Excavation XXX Approx. cubic yards 160
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 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

10/19/95

Sample Time

2:50PM

Sample results

Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>4.5</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>29.68</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>4300</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:

Jeff Cross

DATE:

6-2-98

APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 130

PIT COUNT: 1

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE _____
DATE OF REVIEW: _____

		EXCAVATION						
DIMENSIONS		START		FINISH				CU.YDS.
	W	L	D		W	L	D	
PIT 1	30'	30'	6'	PIT 1	30	30	10'	160
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE:10/19/95		PIT1@09'	PIT2@_ '	PIT3@_ '	DATE:11/30/95	PIT1@10'	PIT2@_ '	PIT3@_ '
P. I. D.	CENTER	530.0			P. I. D.	CENTER	23.3	
	NW CORNER	57.1				NW CORNER	42.1	
	NE CORNER	97.6				NE CORNER	17.9	
	SW CORNER	361.0				SW CORNER	36.1	
	SE CORNER	15.6				SE CORNER	29.0	

NOTES:

10/19/95 - Sandstone w/lt. gray staining to 8.5'.

SOIL SAMPLING

SOIL SAMPLING									
DATE:10/19/95		PIT1@_08'	PIT2@_ '	PIT3@_ '	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
					PIT	TPH	BETEX	WITNESS	DATE
P. I. D.	CENTER	530.0			PIT				
	NW CORNER	57.1			NO.				
	NE CORNER	97.6			1	4300	4.5	IF&S	10/19/95
	SW CORNER	361.0			2				
	SE CORNER	15.6			3				

RE-SAMPLE OR CELL(S) SAMPLE

RE-SAMPLE OR CELL(S) SAMPLE									
DATE:11/30/95		PIT1@10'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	23.3			PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	42.1			NO.				
	NE CORNER	17.9			1	4300.0	4.5	IF&S	10/19/95
	SW CORNER	36.1			2				
	SE CORNER	29.0			3				

RE-SAMPLE OR CELL(S) SAMPLE

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 _____

NOTES

5 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT

SIDEWALL AND PIT BOTTOM CENTER.

Lab ID: 9510268-05A
Sample ID: AP #127-C

Collected: 10/18/95 10:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	5.0	11/02/95	SGCVOA141
Toluene	ND*	mg/Kg	0.0010	5.0	11/02/95	SGCVOA141
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/02/95	SGCVOA141
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/02/95	SGCVOA141
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/02/95	SGCVOA141

Lab ID: 9510268-05B
Sample ID: AP #127-C

Collected: 10/18/95 10:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M						
Diesel	1100	mg/Kg	5.0	50	11/07/95	SLFTD049
HCS DSL XT/CAL DHS 8015M	11/01/95	N/A				

Lab ID: 9510268-06A
Sample ID: AP #130-H

Collected: 10/19/95 14:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	2000	11/04/95	SGCVOA142
Toluene	ND*	mg/Kg	0.0010	2000	11/04/95	SGCVOA142
Ethylbenzene	ND*	mg/Kg	0.0010	2000	11/04/95	SGCVOA142
P-&m-Xylene	4.5*	mg/Kg	0.0010	2000	11/04/95	SGCVOA142
O-Xylene	ND*	mg/Kg	0.0010	2000	11/04/95	SGCVOA142

Lab ID: 9510268-06B
Sample ID: AP #130-H

Collected: 10/19/95 14:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M						
Diesel	4300*	mg/Kg	5.0	500	11/07/95	SLFTD049
HCS DSL XT/CAL DHS 8015M	11/01/95	N/A				

Lab ID: 9510268-07A
Sample ID: AP #146-C

Collected: 10/16/95 11:58:00
Matrix: SOIL

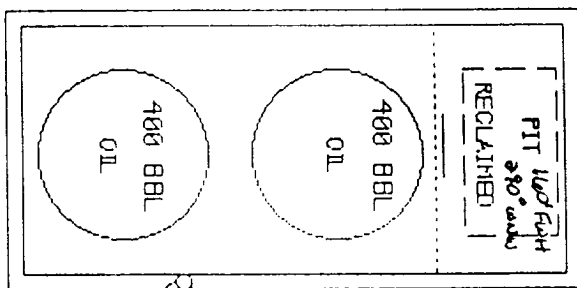
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
X/SW846 8020A						
benzene	ND*	mg/Kg	0.0010	5.0	11/02/95	SGCVOA141
Toluene	ND*	mg/Kg	0.0010	5.0	11/02/95	SGCVOA141

NORTH

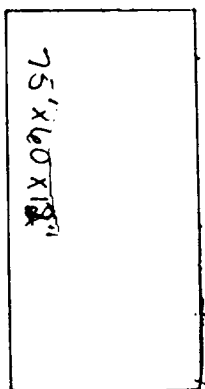
GENERAL DRAINAGE

APACHE
APACHE NUMBER 130 Lease # JAT 123
NE/4 SW/4 (K)
SECTION 24, TOWNSHIP 24N, RANGE 4W
RIO ARRIBA COUNTY, NM

Revised 6/1/97 MG

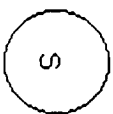


4" X 40' BRG METER RUN
LINE CRIP



PUMP JACK

WELL HEAD



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 # 130</u>			
Location: Unit or Qtr/Qtr Sec <u>K</u> <u>Sec 24</u> <u>T 24N</u> <u>R 4W</u>		County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>10/19/95</u>		Date Completed: <u>5/19/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>160</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>5/19/98</u> Time: <u>9:15AM</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>Kenneth M. M...</u>		DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 130

* AMOUNT OF SOIL UNDERGOING REMEDIATION _____ Yds.

CELL No. <u>1</u>	SampDATE 5/19/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>75' X 60' X 12"</u>			
CELL LOCATION (dir. from well head) <u>WEST</u>			
* DATE BEGAN: <u>10/19/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/19/98</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) _____			
REMEDIATION RECORD: (Date, Treatment, Tilling) 10/21/95 TREAT SOIL WITH 28-4-4 FERTILIZER,PLOW AND TILL SOIL. 6/17/97 TREAT SOIL WITH 46-0-0 FERTILIZER, WATER,PLOW AND TILL SOIL. 7/16/97 PLOW AND TILL SOIL. 8/14/97 TREAT SOIL WITH 17LBS PHOSPHORUS,25LBS LIME,WATER,PLOW AND TILL SOIL. 5/5/98 PLOW SOIL. 5/11/98 TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #130

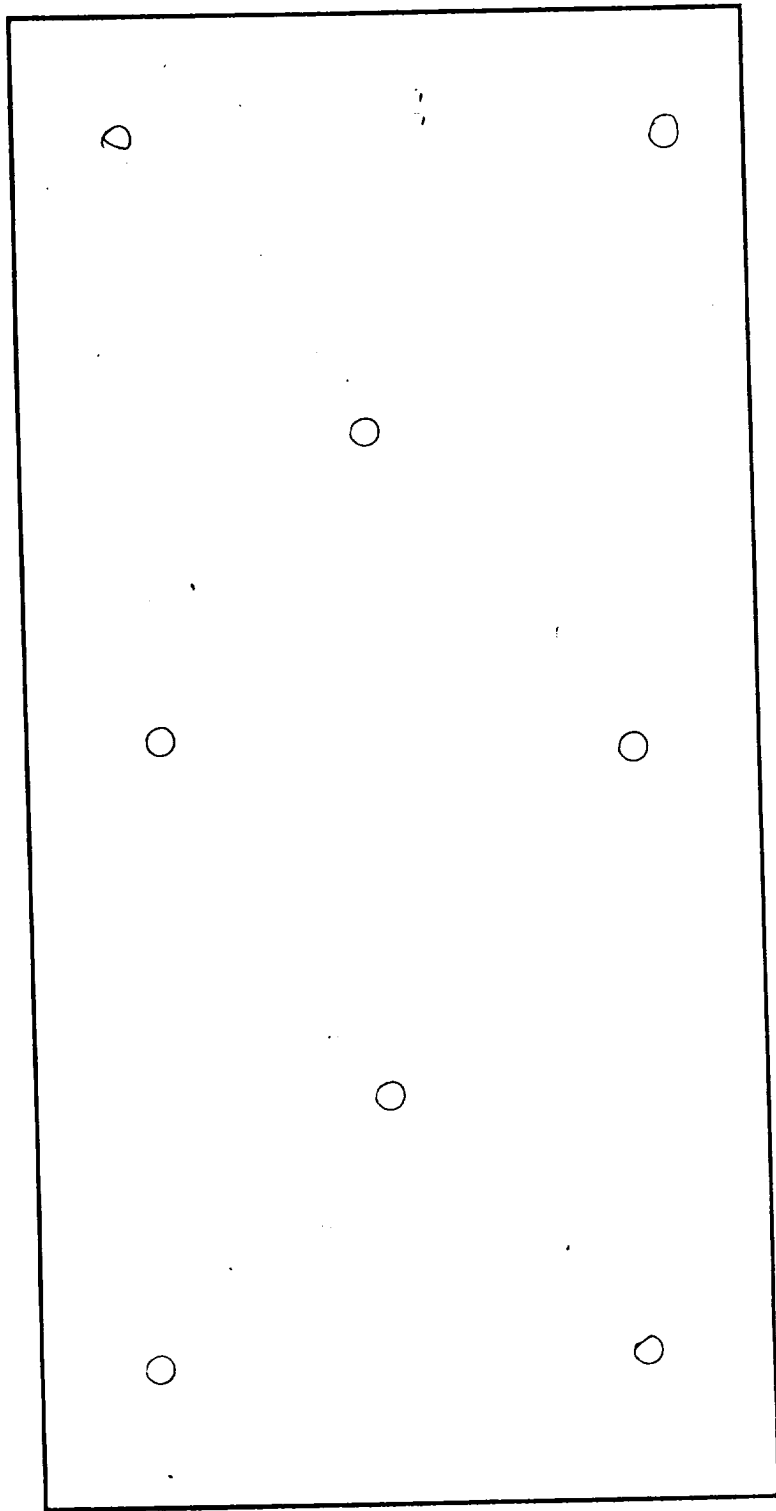
SAMPLE DATE:

75-11-18 5-19-98

DIMENSIONS:

75' x 60' x 18"

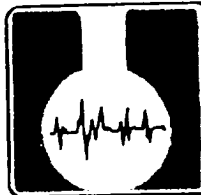
○ = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

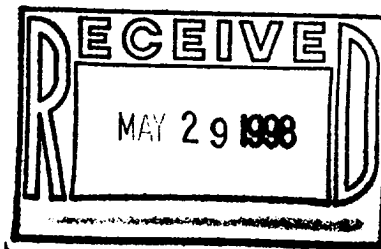
Spontaneous Composite Sample



**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: **9805203 JICARILLA**

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

Client Sample ID	APACHE #130 CELL				Sample Matrix	SOIL		Sample Collected	05/19/98 09:15:00
Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8020 Volatiles									
9805203-01A	X98285	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.484-12	05/22/98
	X98285	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.484-12	
	X98285	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.484-12	
	X98285		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.484-12	
	X98285	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.484-12	
SW846-8015 Modified TPH									
9805203-01B	X98286		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.488-17	05/23/98

*** 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.: 5203 Date 5/22/98

Date: 5/22/98

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) *[Signature]*

Contract / Purchase Order / Quote _____

[illegible]

LABORATORY