

District III

1000 Rio Arriba Rd.

Aztec, NM 87440

DEPUTY 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

Submit 1 copy to

Appropriate District

RECEIVED
JUL 6 1998
Santa Fe Office

PIT REMEDIATION AND CLOSURE REPORT

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 # 125 #11

Location: Unit or Qtr/Qtr Sec F Sec 36 T 25 N R 4W County Rio Arriba

Pit Type: Separator: _____ Dehydrator _____ Other Blow Pit

Land Type: Jicarilla Tribal

Beginning Pit Dimensions: Length 25' Width 25' Depth 2'

Pit Location: Ending Pit Dimensions: Length 30' Width 30' Depth 4'

(Attach diagram)

Reference: Wellhead XXX Other _____

Footage from reference: 150'

Direction from reference: 192 Degrees X East XX North
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)		<u>0</u>

Date Remediation Started: 6/21/97 Date Completed: 6/24/97

Remediation Method: (Check all appropriate sections)
Excavation XXX Approx. cubic yards 130
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 4', took PID readings.
Spread soil on location for remediation. Took soil samples. Hit Bedrock @ 4', sprayed pit
with liquid fertilizer. Remediated soil to be put back in pit.

Groundwater Encountered: No XX Yes _____ Depth _____

Final Pit: Sample location 4 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 4' 8 to 10" into pit sidewalls 10" into pit bottom

Sample Date 6/24/97 Sample Time 12:30 P.M.
Sample results

Benzene (ppm) ND

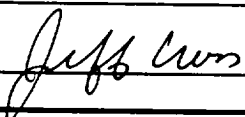
Total BTEX (ppm) ND

Field Headspace (ppm) 26.84

TPH 2500/side
3900/BTM

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 24, 1998 PRINTED NAME Jeff Cross
SIGNATURE  AND TITLE Project Manager

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>M W PETROLEUM</u>		Telephone <u>505-325-0318</u>																															
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 84701</u>																																	
Facility or Well Name: <u>JAT 125 # 11</u>																																	
Location:	Unit or Qtr/Qtr	Sec	<u>F SEC 36 T 25N R 4W</u> County <u>RIO ARRIBA</u>																														
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>BLOW PIT</u>																														
Land Type: <u>JIC. TRIBAL</u>																																	
<table style="width: 100%;"> <tr> <td>Pit Location: (Attach diagram)</td> <td>Pit Dimensions:</td> <td>Length <u>30'</u></td> <td>Width <u>30'</u></td> <td>Depth <u>4'</u></td> </tr> <tr> <td></td> <td>Reference:</td> <td>Wellhead <u>XXX</u></td> <td>Other <u> </u></td> <td></td> </tr> <tr> <td></td> <td>Footage from reference:</td> <td colspan="3"><u>150'</u></td> </tr> <tr> <td></td> <td>Direction from reference:</td> <td><u>192</u> Degrees</td> <td><u> </u> East</td> <td>North</td> </tr> <tr> <td></td> <td></td> <td><u>X</u> West</td> <td>of</td> <td>South</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><u>XX</u></td> </tr> </table>				Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>30'</u>	Width <u>30'</u>	Depth <u>4'</u>		Reference:	Wellhead <u>XXX</u>	Other <u> </u>			Footage from reference:	<u>150'</u>				Direction from reference:	<u>192</u> Degrees	<u> </u> East	North			<u>X</u> West	of	South					<u>XX</u>
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>30'</u>	Width <u>30'</u>	Depth <u>4'</u>																													
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>																														
	Footage from reference:	<u>150'</u>																															
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		<u>X</u> West	of	South																													
				<u>XX</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>6/21/97</u>		Date Completed: <u>6-24-97</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>XXX</u>	Approx. cubic yards <u>130</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 4', took PID readings. spread soil on location for remediation. Took soil samples. HIT BED ROCK @ 4' SPRAYED PIT WITH LIQUID FERTILIZER. Remediated Soil To Be put Back in pit</u>			
Groundwater Encountered:		No <u>XXX</u>	Yes _____ Depth _____
Final Pit: Sample location <u>4 POINT COMPOSITE SAMPLE TAKEN 8 TO 10" INTO PIT</u>			
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths) <u>SIDEWALLS, GRAB SAMPLE TAKEN 10" INTO PIT BOTTOM CENTER.</u>			
Sample depth <u>4'</u>		<u>8" to 10" into pit side walls, 10" into pit bottom.</u>	
Sample Date <u>6/24/97</u>		Sample Time <u>12:30 PM</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>26.84</u>	Ethylbenzene (ppb) <u>NA</u>
	TPH (ppm)	<u>2500\SIDE 3900\BTM</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>6-8-98</u>		PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</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>Jeff Cross</u>		DATE: <u>6-30-98</u>	

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 125 # 11

PIT COUNT 1

Jicarilla Apache Tribal EPO/OCD/BLM
Review and Approval
OCD--BLM
EPO Representative
Date of Review

Excavation								
DIMENSIONS			START: 6/21/97	FINISH: 6/24/97				
	W	L	D		W	L	D	CU YDS
Pit 1	25'	25'	2'	Pit 1	30'	30'	4'	130
Pit 2				Pit 2				
Pit 3				Pit 3				
		Pit 1 @ 4'	Pit 2 @	Pit 3 @		Pit 1 @ 4'	Pit 2 @	Pit 3 @
P I D	Center	20.2			P I D	Center	20.2	
	NW Corner	42.1				NW Corner	42.1	
	NE Corner	1.5				NE Corner	1.5	
	SW Corner	69.1				SW Corner	69.1	
	SE Corner	1.3				SE Corner	1.3	

NOTES:

6/21/97 START EXCAVATION ON PIT ,LIGHT STAINING AND ODOR.

6/24/97 EXCAVATED PIT TO 4' HIT BED ROCK,EXCAVATE SIDE WALLS

PIT LOOKS GOOD , TOOK PID READINGS ,AND SOIL SAMPLES.

SOIL SAMPLING

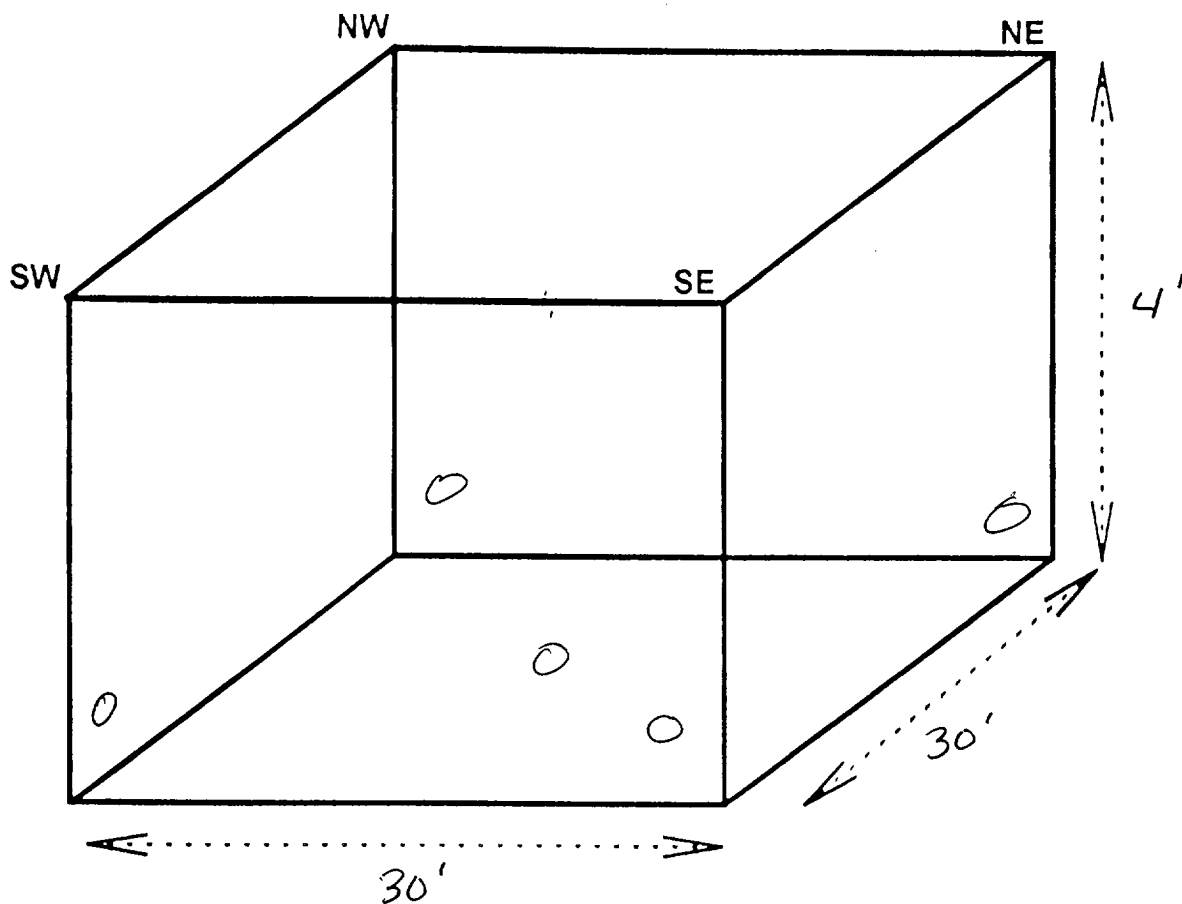
DATE: 6/24/97	Pit 1 @ 4'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P I D	Center	20.2		PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner	42.1			SIDE\BTM	SIDE\BTM		
	NE Corner	1.5		1	2500\3900	ND\ND	JEFF C.	6/30/97
	SW Corner	69.1		2				
	SE Corner	1.3		3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE:	Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P I D	Center			PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner							
	NE Corner			1				
	SW Corner			2				
	SE Corner			3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE:	Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P I D	Center			PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner							
	NE Corner			1				
	SW Corner			2				
	SE Corner			3				

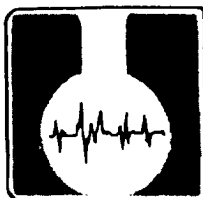


○ = SAMPLE AREA

WELL NAME SAT 125 #H

SAMPLE DATE 6-24-97

NOTES 4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT
SIDEWALL
1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

JUL 21 1997

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:
July 7, 1997 16:20

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9706286
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/27/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706286-01A
Sample ID: 125 #11 SIDES

Collected: 06/24/97 12:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
Toluene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
Ethylbenzene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
P-&m-Xylene	ND	mg/kg	0.010	100	06/30/97	SBTXME173
O-Xylene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173

Lab ID: 9706286-01B
Sample ID: 125 #11 SIDES

Collected: 06/24/97 12:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	2,500	mg/Kg	50	25	06/30/97	SDRO39

Lab ID: 9706286-02A
Sample ID: 125 #11 BOTTOM

Collected: 06/24/97 12:45:00
Matrix: SOIL

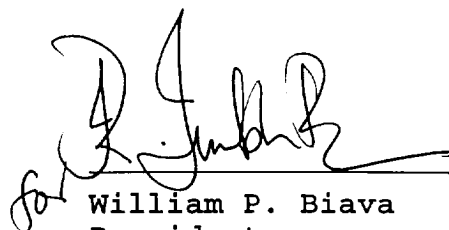
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
Toluene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
Ethylbenzene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
P-&m-Xylene	ND	mg/kg	0.010	100	06/30/97	SBTXME173
O-Xylene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173



Lab ID: 9706286-02B
Sample ID: 125 #11 BOTTOM

Collected: 06/24/97 12:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	3,900	mg/Kg	50	25	06/30/97	SDRO39



William P. Biava
President

WORKORDER COMMENTS

DATE : 07/07/97

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.

REPORT COMMENTS

NORTH

DRAINAGE

M W PETROLBANK
JICARILLA APACHE TRIBAL 125 WELL 11
SE/4 NW/4 (P). FED. LEASE # 0900125
SECTION 36 TOWNSHIP 25N RANGE 4W
RIO ARriba COUNTY, NM

PIT
(1)

FLOW LINE 2

E

WELL HEAD

PUMP JACK

BLOW LINE 2' 120'

Dirt cell

70' x 50' x 12"

BLOW
TANK
100 BBLS

20'

19'

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>M W PETROLEUM</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>JAT 125 # 11</u>	
Location: Unit or Qtr/Qtr Sec <u>SE\NW</u> Sec <u>36</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>6-21-97</u> Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>130</u>	
Composted _____	
Other <u>Remediated soil to be put back in pit</u>	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>5/21/98</u> Time: <u>11:55AM</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>6/8/98</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 _____ (REASON) <u>will be Backfill</u>	
SIGNED: <u>Kerr C Merrill</u> DATE: <u>6-23-98</u>	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE JAT 125 # 11

* AMOUNT OF SOIL UNDERGOING REMEDIATION 130 Yds.

CELL No. <u>1</u>	SampDATE 5/21/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>70' X 50' X 12"</u>			
CELL LOCATION (dir. from well head) <u>WEST</u>			
* DATE BEGAN: <u>6/21/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/21/98</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)			
6/25/97 TREAT SOIL WITH 46-0-0 FERTILIZER,WATER,PLOW AND TILL SOIL.			
7/15/97 TILL SOIL.			
8/7/97 WATER , PLOW AND TILL SOIL.			
9/9/97 TILL SOIL.			
10/20/97 TREAT SOIL WITH 33LBS PHOSPHORUS, 56LBS LIME,WATER,PLOW AND TILL SOIL.			
5/6/98 PLOW SOIL.			
5/7/98 TILL SOIL.			
5/12/98 PLOW SOIL. 5/13/98 TILL SOIL. 5/20/98 PLOW AND TILL SOIL.			

* FROM EXCAVATION REPORTS.

WELL NAME:

JAT 125 #11

SAMPLE DATE:

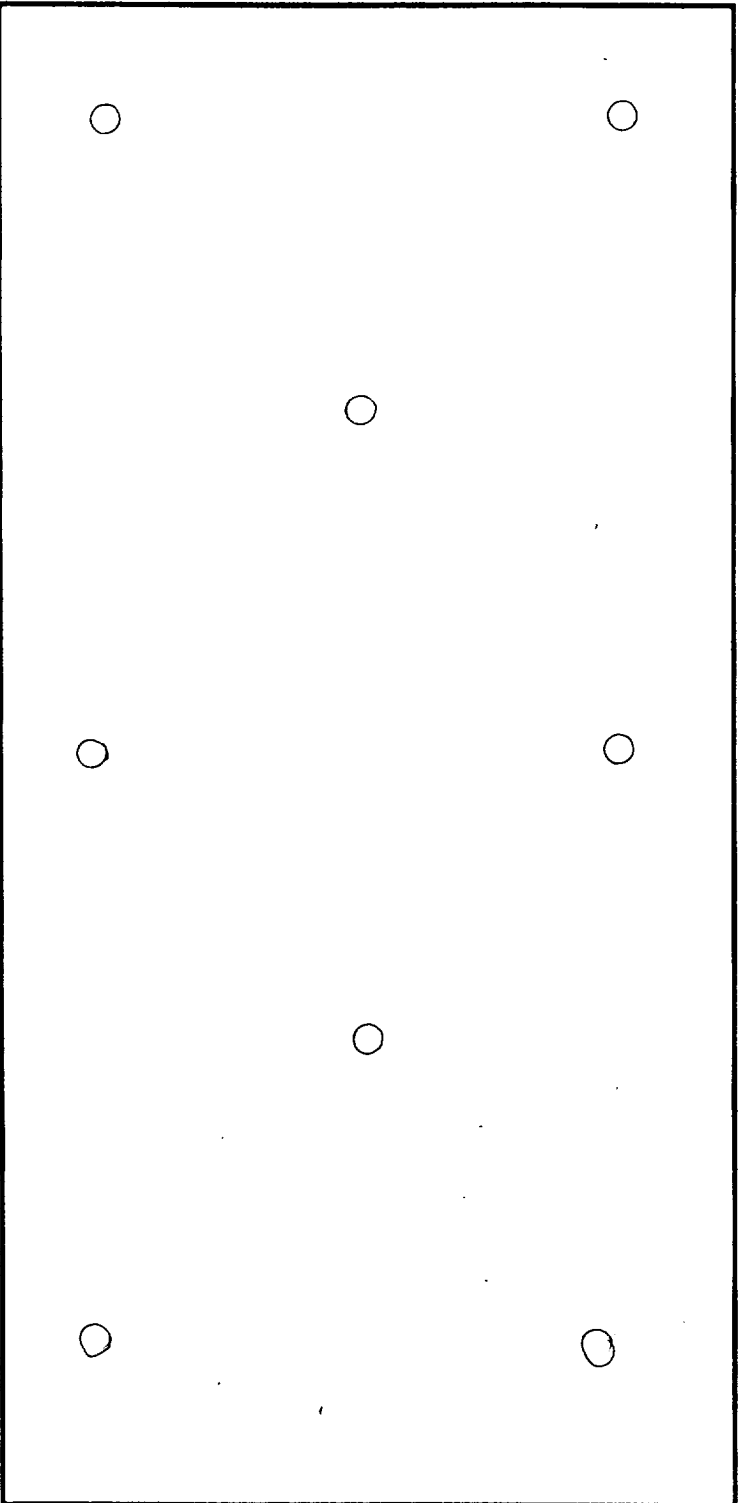
5-21-98

DIMENSIONS:

70' X 50' X 12"



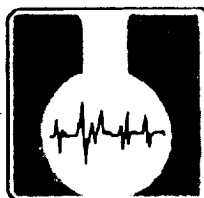
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

Spent composite sample

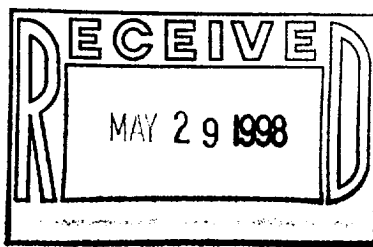


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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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: 9805210 JICARILLA

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

Client Sample ID: JAT 125 #11 CELL Sample Matrix: SOIL Sample Collected: 05/21/98 11:55:00

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date
SW846-8010/8020 Volatiles								
9805210-01A	X98288	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.483-14 05/22/98
	X98288	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.483-14
	X98288	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.483-14
	X98288		P/M-Xylenes	ND	mg / Kg	50	0.01	XG.1998.483-14
	X98288	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.483-14
SW846-8015 Modified TPH								
9805210-01B	X98286		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.489-3 05/24/98

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



