

Dist. III

100

APR 10 1998

DEPUTY OIL & GAS INSPECTOR

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
and 1 copy to
Santa Fe Office

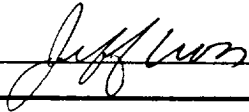
APR 10 1998

PIT REMEDIATION AND CLOSURE REPORT

Approved

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 # 113</u>			
Location: Unit or Qtr/Qtr Sec		<u>J Sec 1 T 24 N R 4W</u> County <u>Rio Arriba</u>	
Pit Type: Separator: _____ Dehydrator: _____ Other: <u>TANK DRAIN (Blow Pit)</u>			
Land Type: <u>Jicarilla Tribal</u>			
BEGINNING Dimensions Pit Location: Pit Dimensions: Length <u>24'</u> Width <u>24'</u> Depth <u>5'</u> (Attach diagram) Reference: Wellhead <u>X</u> Other _____ Footage from reference: <u>85'</u> Direction from reference: <u>60</u> Degrees <u>XX</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)			
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 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) <u>0</u>	
irrigation canals and ditches)			
RANKING SCORE (TOTAL POINTS)		<u>0</u>	

RECEIVED
DEC 10 1997
OIL CON. DIV.
DIST. 3

Date Remediation Started:		<u>9/15/95</u>	Date Completed:		<u>8/14/97</u>
Remediation Method: (Check all appropriate sections)		Excavatio <u>XXX</u>	Approx. cubic yards		<u>192</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 14', took PID readings.</u>					
<u>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>8 to 10" into pit sidewalls 10" into pit bottom</u>			
Sample Date		<u>9/15/95</u>	Sample Time		<u>2:20 P.M.</u>
Sample results					
Benzene	(ppm)	<u>ND</u>			
Total BTEX	(ppm)	<u>ND</u>			
Field Headspace	(ppm)	<u>6.4</u>			
TPH		<u>ND</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>November 5, 1997</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>304 N. BEHREND, FARMINGTON, N.M. 84701</u>			
Facility or Well Name: <u>APACHE # 113</u>			
Location:	Unit or Qtr/Qtr	Sec	<u>J SEC 1 T 24N R 4W</u> County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>TANK DRAIN (BLOW PIT)</u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>24'</u>	Width <u>24'</u> Depth <u>14'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>
	Footage from reference:	<u>85'</u>	
	Direction from reference:	<u>60</u> Degrees <u>XX</u> East	North <u>X</u>
		<u> </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: 9/15/95 Date Completed: 8/14/97

Remediation Method: Excavation XXX Approx. cubic yards 192
(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 14', took PID readings. spread soil on location for remediation. Took soil samples.

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 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 9/15/95 Sample Time 2:20PM
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>6.4</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND</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 9-22-97 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: Roe M. M. M. DATE: 9/30/97

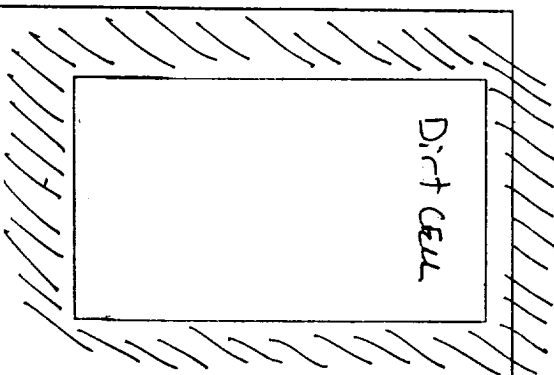
////// = Spread Area

NORTH

GENERAL DRAINAGE

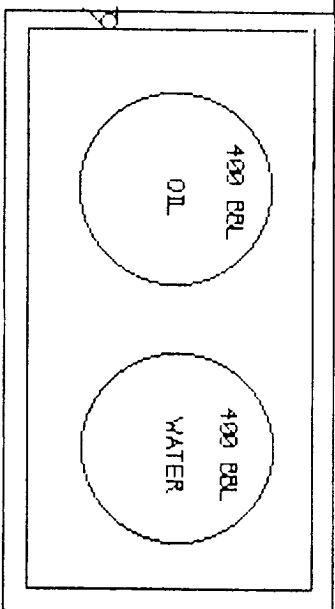
APACHE
APACHE NUMBER 113 Lease # JAT 126
NW/4 SE/4 (J)
SECTION 1, TOWNSHIP 24N, RANGE 4W
RIO ARriba COUNTY, NM

Revised 8/1/97 NG



WELL HEAD ○ PUMPING UNIT

85' 60" ENE
PIT(D)



EPNG LINE DRIP



4' X 40' EPNG METER RUN

APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 113

PIT COUNT: 1

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE K.C.
DATE OF REVIEW: 10/30/95

		EXCAVATION						
DIMENSIONS		START		FINISH				CU.YDS.
	W'	L'	D'		W'	L'	D'	
PIT 1	24'	24'	5'	PIT 1	24'	24'	14'	192.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE: 09/15/95		PIT 1@ 14'	PIT 2@	PIT 3@	DATE:	PIT 1@	PIT 2@	PIT 3@
P. I. D.	CENTER	1.5			P. I. D.	CENTER		
	NW CORNER	0.9				NW CORNER		
	NE CORNER	1.1				NE CORNER		
	SW CORNER	1.3				SW CORNER		
	SE CORNER	1.6				SE CORNER		

NOTES:

SOIL SAMPLING									
DATE: 09/15/95		PIT 1@ 14'	PIT 2@	PIT 3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	1.5			PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	0.9			NO.				
	NE CORNER	1.1			1	ND	ND	JDT	09/15/95
	SW CORNER	1.3							
	SE CORNER	1.6							

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1@	PIT 2@	PIT 3@	ANALYSIS RESULTS			PER LAB:	
P. I. D.	CENTER				PIT NO.	TPH	BTEX	WITNESS	DATE
	NW CORNER								
	NE CORNER								
	SW CORNER								
	SE CORNER								

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1@	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:		
P. I. D.	CENTER				PIT NO.	TPH	BTEX	WITNESS	DATE
	NW CORNER								
	NE CORNER								
	SW CORNER								
	SE CORNER								

Lab ID: 9509143-11B
Sample ID: AP# 152C

Collected: 09/15/95 14:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	6.3B	mg/Kg	5.0	1.0	09/25/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-12A
Sample ID: AP# 113

Collected: 09/15/95 14:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
O-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076

Lab ID: 9509143-12B
Sample ID: AP# 113

Collected: 09/15/95 14:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	10	10/01/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-13A
Sample ID: AP# 106

Collected: 09/15/95 14:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	100	09/22/95	SBTXME076
Ethylbenzene	0.20	mg/Kg	0.0010	100	09/22/95	SBTXME076
P-&m-Xylene	0.21	mg/Kg	0.0010	100	09/22/95	SBTXME076
O-Xylene	ND	mg/Kg	0.0010	100	09/22/95	SBTXME076

Lab ID: 9509143-13B
Sample ID: AP# 106

Collected: 09/15/95 14:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	3100	mg/Kg	5.0	100	09/26/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Chain of Custody Record

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

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA ME

COURIER

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>304 N. BEHREND, FARMINGTON, N.M. 87401</u>	
Facility or Well Name: <u>APACHE # 113</u>	
Location: Unit or Qtr/Qtr Sec <u>J</u> Sec 1 <u>T 24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>9/15/95</u> Date Completed: <u>9/9/97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>192</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>9/9/97</u> Time: <u>11:35AM</u> Sample Results: Field Headspace (ppm) <u>0.4</u> TPH (ppm) <u>1300</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>9-22-97</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>NO Backfill</u>	
SIGNED: <u>Lee C. Mamm</u>	DATE: <u>9/30/97</u>

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 113

* AMOUNT OF SOIL UNDERGOING REMEDIATION 192 Yds.

CELL No. <u>1</u>	SampDATE	TPH	BTEX
	8/14/97	5900	ND
DIMENSIONS(LxWxH) <u>100' L X 52' W X 12" H</u>	9-9-97	1300	ND
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>9/15/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm)	8/14/97		
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)			
7/10/97 TILLED CELL.			
7/21/97 TILLED CELL.			
8/13/97 TILLED CELL.			

From excavation reports.

WELL NAME:

Apache #113

SAMPLE DATE:

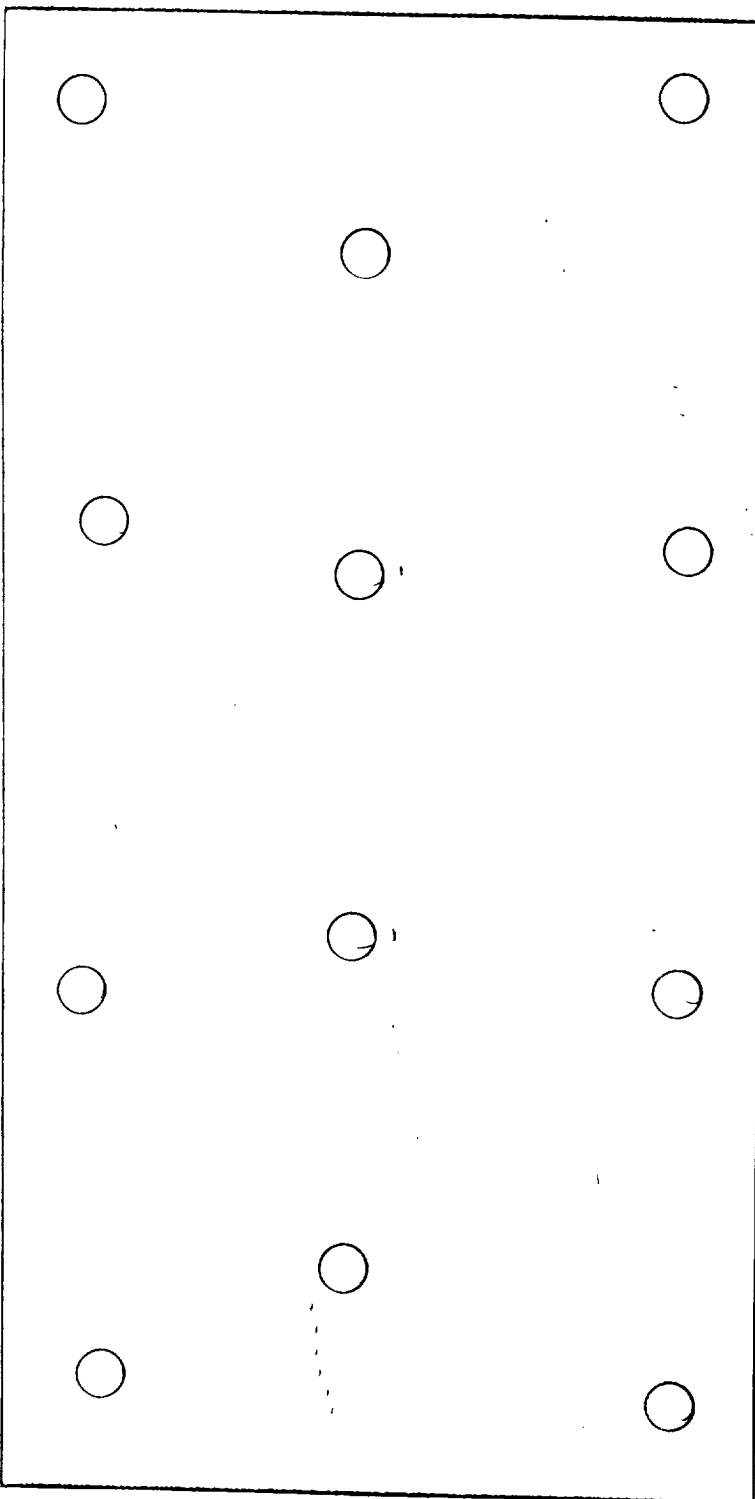
9-9-97

Resample

DIMENSIONS:

100' X 52' X 12" H

 = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

12 point composite sample.

P.O Composite Reading 0.4 ppm.

WELL NAME:

Apache #113

SAMPLE DATE:

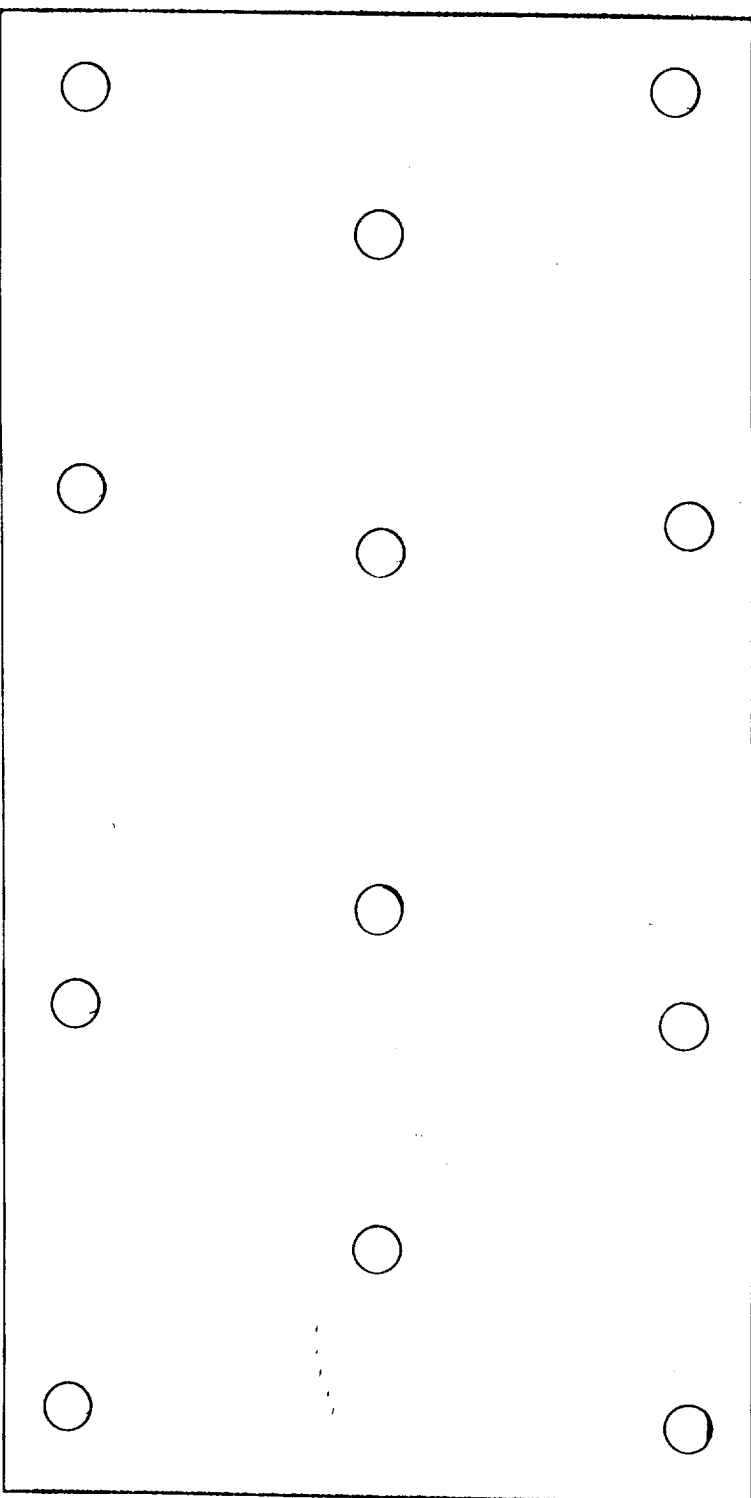
8-14-97

DIMENSIONS:

100' x 52' x 12"



= SAMPLE AREA

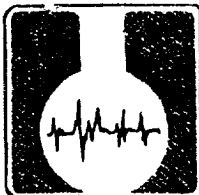


NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

12 Point Composite Sample

P10 composite Reading 0.2 PPM.



**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:

September 16, 1997 15:54

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9709106
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 09/12/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9709106-01A
Sample ID: APACHE 113 CELL

Collected: 09/09/97 11:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
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CANCELLED SAMPLE

N/A

N/A

Lab ID: 9709106-01B
Sample ID: APACHE 113 CELL

Collected: 09/09/97 11:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
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Diesel Range OG Soil/M8015
Diesel Range OG in Soil

1300

mg/Kg

25

25

09/12/97

SDR0052

Lab ID: 9709106-01C
Sample ID: APACHE 113 CELL

Collected: 09/09/97 11:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
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BTEX/SW846 8020A

Benzene	ND	mg/kg	0.0050	100	09/14/97	X97262
Toluene	ND	mg/kg	0.0050	100	09/14/97	X97262
Ethylbenzene	ND	mg/kg	0.0050	100	09/14/97	X97262
P-&m-Xylene	ND	mg/kg	0.010	100	09/14/97	X97262
O-Xylene	ND	mg/kg	0.0050	100	09/14/97	X97262

For 
William P. Biava
President



WORKORDER COMMENTS

DATE : 09/16/97

WORKORDER:

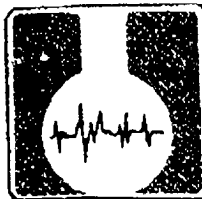
DEFINITIONS/DATA QUALIFIERS

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



**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:
August 22, 1997 15:00

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9708173
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 08/15/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708173-01A
Sample ID: A113 DIRT CELL

Collected: 08/14/97 15:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/20/97	SBTXME185
Toluene	ND	mg/kg	0.0050	100	08/20/97	SBTXME185
Ethylbenzene	ND	mg/kg	0.0050	100	08/20/97	SBTXME185
P-&m-Xylene	ND	mg/kg	0.010	100	08/20/97	SBTXME185
O-Xylene	ND	mg/kg	0.0050	100	08/20/97	SBTXME185

Lab ID: 9708173-01B
Sample ID: A113 DIRT CELL

Collected: 08/14/97 15:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	5900	mg/Kg	25	25	08/20/97	SDRO047

William P. Biava
William P. Biava
President



WORKORDER COMMENTS

DATE : 08/22/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

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- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
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- 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
