

District Office
1000 Rio Brazos Rd
AZtec, NM 87410
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 # 28</u>	<u>Pit #2</u>
Location: Unit or Qtr/Qtr Sec		<u>K</u> <u>Sec 24</u> <u>T 24 N</u> <u>R 4W</u>	County <u>Rio Arriba</u>
Pit Type: Separator: _____		Dehydrator _____	Other <u>Blow Pit</u>
Land Type: _____		<u>Jicarilla Tribal</u>	
BEGIN Dimension			
Pit Location: <u>END</u> Pit Dimensions:		Length <u>12'</u>	Width <u>12'</u> Depth <u>12'</u>
(Attach diagram)			
Reference:		Wellhead <u>X</u>	Other _____
Footage from reference:		<u>135'</u>	
Direction from reference:		<u>170</u> Degrees	East _____ North <u>X</u>
		<u>XX</u> West	of South _____
Depth To Groundwater:			
(vertical distance from		Less than 50 feet	(20 points) _____
contaminants to seasonal		50 feet to 99 feet	(10 points) _____
high water elevation of		Greater than 100 feet	(0 points) <u>0</u>
groundwater)			
Wellhead Protection Area:			
(Less than 200 feet from a private		Yes	(20 points) _____
domestic water source, or; less than		No	(0 points) <u>0</u>
1000 feet from all other water sources)			
Distance To Surface Water:			
(Horizontal distance to perennial		Less than 200 feet	(20 points) _____
lakes, ponds, rivers, streams, creeks,		200 feet to 1000 feet	(10 points) _____
irrigation canals and ditches)		Greater than 1000 feet	(0 points) <u>0</u>
		RANKING SCORE (TOTAL POINTS) <u>0</u>	

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

Date Remediation Started: 10/31/95 Date Completed: 6/19/97

Remediation Method: (Check all appropriate sections)
Excavation XXX Approx. cubic yards 58
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 12', took PID readings.
Spread soil on location for remediation. Took soil samples.

Groundwater Encountered: No X 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 sidewalls 10" into pit bottom

Sample Date 12/1/95 Sample Time 11:00 A.M.
Sample results

Benzene (ppm) ND

Total BTEX (ppm) ND

Field Headspace (ppm) 4.62

TPH ND

Groundwater Sample: Yes _____ No X (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 November 5, 1997 PRINTED NAME Jeff Cross

SIGNATURE Jeff Cross AND TITLE Project Manager

**Submit 1 copy to
Natural Resource Dept.
and Oil & Gas Administration**

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 # 28</u>		PIT # <u>2</u>		
Location:	Unit or Qtr/Qtr Sec	<u>K</u>	<u>SEC 24</u>	<u>T 24N</u>	R <u>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>					
Pit Location: (Attach diagram)		Pit Dimensions:	Length	<u>12'</u>	Width	<u>12'</u>
			Depth	<u>12'</u>		
Reference:		Wellhead	<u>XXX</u>	Other	<u> </u>	
Footage from reference:		<u>135'</u>				
Direction from reference:		<u>170</u>	Degrees	<u> </u>	East	North <u>X</u>
		<u>XX</u>	West	of	South	<u> </u>
Depth To Groundwater:		Less than 50 feet		(20 points) <u> </u>		
(vertical distance from		50 feet to 99 feet		(10 points) <u> </u>		
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) <u> </u>		
(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) <u> </u>		
(Downgradient lakes, playas and		Greater than 100 feet		(0 points) <u>0</u>		
livestock or wildlife watering ponds)						
Wellhead Protection Area:		Yes		(20 points) <u> </u>		
(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) <u> </u>		
(Horizontal distance to perennial		100 feet to 1000 feet		(10 points) <u> </u>		
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:		<u>10/31/95</u>		Date Completed:		<u>6/19/97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>58</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 12', took PID readings. spread soil on location for remediation. Took soil samples.</u>							
Groundwater Encountered:		No <u>XXX</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 side walls, 10" into pit bottom.</u>					
Sample Date		<u>12/1/95</u>		Sample Time		<u>11:00 Am</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>4.62</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND</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>8-22-95</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>Ken C. Marshall</u>		DATE:		<u>9-2-97</u>	

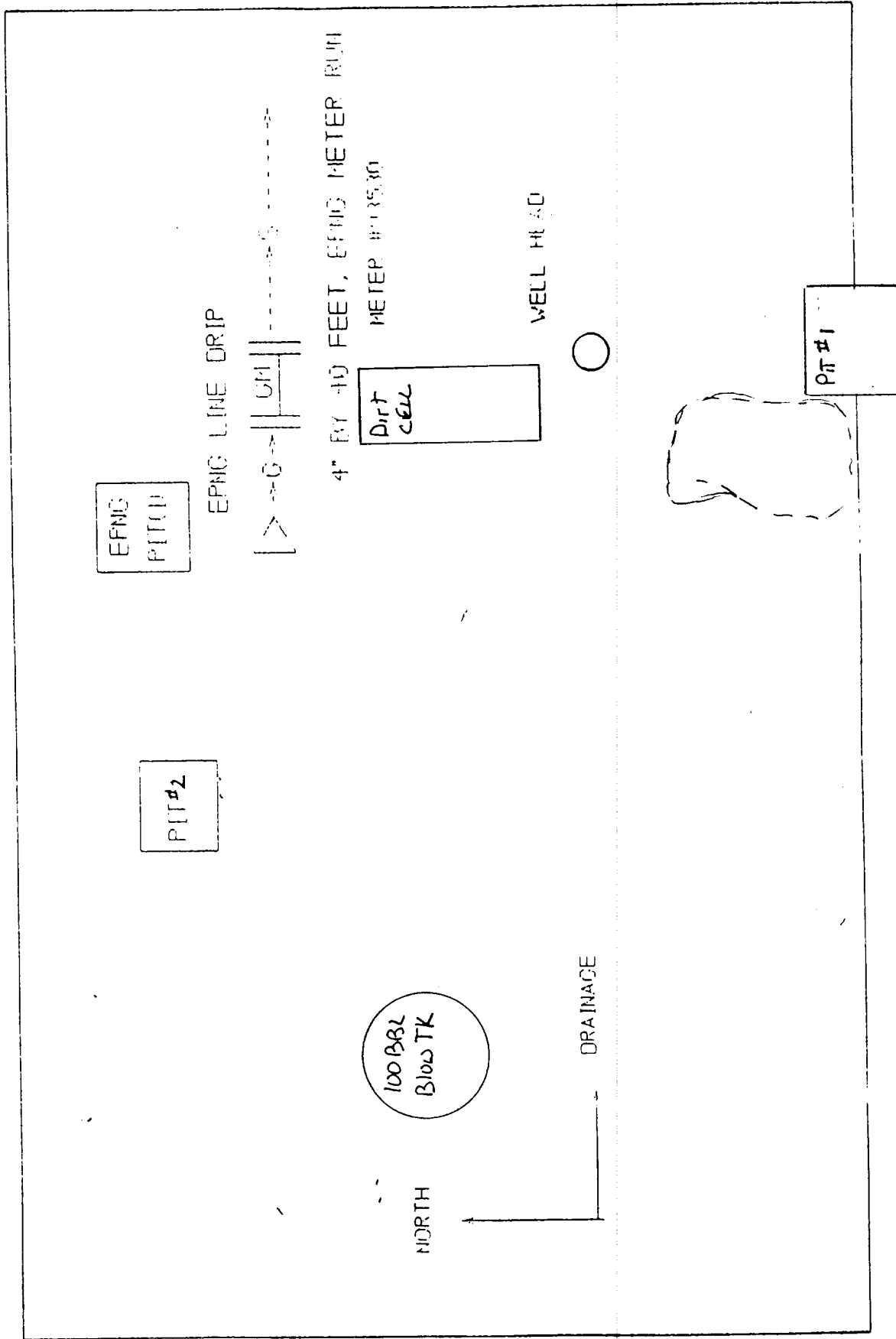
 = Spread & Reseed AREA

APACHE

APACHE NUMBER 28

SECTION 24, TOWNSHIP 24N, RANGE 4W

RIO ARriba COUNTY, NM



APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 28

PIT COUNT: 2

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE *gf*
DATE OF REVIEW: 12-27-95

EXCAVATION								
DIMENSIONS		START			FINISH			CU.YDS.
	W	L	D		W	L	D	
PIT 1	30'	30'	2'	PIT 1	30'	30'	7'	
PIT 2	12'	12'	1'	PIT 2	12'	12'	10'12'(11/30)	215
PIT 3				PIT 3				
DATE:10/31/95		PIT1@07'	PIT2@10'	PIT3@	DATE:11/30/95	PIT1@	PIT2@12'	PIT3@
P. I. D.	CENTER	3.4	193.0		CENTER		8.1	
	NW CORNER	7.0	825.0		NW CORNER		1.6	
	NE CORNER	7.6	930.0		NE CORNER		4.5	
	SW CORNER	3.1	940.0		SW CORNER		2.7	
	SE CORNER	1.9	910.0		SE CORNER		6.2	

NOTES:

10/31/95 - PIT 1 - Sandstone w/lt. staining to 6'

PIT 2 - Tight sand w/dark staining in center, strong odor to 7'

11/30/95 - PIT 2 - Excavate additional 2', no odor.

SOIL SAMPLING

DATE:10/31/95		PIT1@07'	PIT2@10'	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
	CENTER	3.4	193.0		PIT	TPH	BETEX	WITNESS	DATE
P.	NW CORNER	7.0	825.0		NO.				
I.	NE CORNER	7.6	930.0	1		31.0	ND	IF&S	10/31/95
D.	SW CORNER	3.1	940.0	2		31.0	ND	IF&S	10/31/95
	SE CORNER	1.9	910.0	3					

RE-SAMPLE OR CELL(S) SAMPLE

DATE:12/01/95		PIT1@	PIT2@12'	PIT3@	ANALYSIS RESULTS			PER LAB:	
	CENTER		8.1		PIT	TPH	BETEX	WITNESS	DATE
P.	NW CORNER		1.6		NO.				
I.	NE CORNER		4.5	1					
D.	SW CORNER		2.7	2		ND	ND	JDT	12/01/95
	SE CORNER		6.2	3					

RE-SAMPLE OR CELL(S) SAMPLE

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

Lab ID: 9512029-23A
Sample ID: AP #101

Collected: 11/30/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Benzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Toluene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Ethylbenzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
O-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093

Lab ID: 9512029-23B
Sample ID: AP #101

Collected: 11/30/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	270	mg/Kg	5.0	50	12/08/95	SLFTD054
Diesel	12/06/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9512029-24A
Sample ID: AP #28-C

PIT #2

Collected: 12/01/95 11:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Benzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Toluene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Ethylbenzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
O-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093

Lab ID: 9512029-24B
Sample ID: AP #28-C

PIT #2

Collected: 12/01/95 11:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	ND	mg/Kg	5.0	5.0	12/07/95	SLFTD054
Diesel	12/06/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9512029-25A
Sample ID: AP #31-H

Collected: 12/01/95 10:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Benzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Toluene						

Lab ID: 9512029-25A
Sample ID: AP #31-H

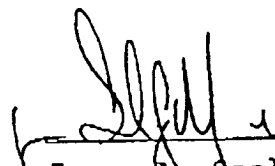
Collected: 12/01/95 10:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Ethylbenzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
O-Xylene						

Lab ID: 9512029-25B
Sample ID: AP #31-H

Collected: 12/01/95 10:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M	85B	mg/Kg	5.0	5.0	12/07/95	SLFTD054
Diesel	12/06/95	N/A				
HCS DSL XT/CAL DHS 8015M						


James A. Seely
Operations Manager

WORKORDER COMMENTS

DATE : 12/14/95
WORKORDER:

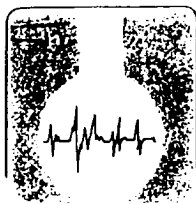
DEFINITIONS/DATA QUALIFIERS

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

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 27, 1995 16:10

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

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

WORKORDER # : 9511144
WORK ID : PIT REMEDIATION 95017
CLIENT CODE : APA01
DATE RECEIVED : 11/16/95

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9511144-01A
Sample ID: AP #28-C *Pit #1*

Collected: 10/31/95 12:25:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
Toluene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087

Lab ID: 9511144-01B
Sample ID: AP #28-C *Pit #1*

Collected: 10/31/95 12:25:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	31B*	mg/Kg	5.0	5.0	11/17/95	SLFTD051
HCs DSL XT/CAL DHS 8015M	11/16/95	N/A				

Lab ID: 9511144-02A
Sample ID: AP #28-H *Pit #2*

Collected: 10/31/95 11:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
Toluene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087



Lab ID: 9511144-02B
Sample ID: AP #28-H *p, #2*

Collected: 10/31/95 11:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	31B* 11/16/95	mg/Kg N/A	5.0	5.0	11/17/95	SLFTD051

Lab ID: 9511144-03A
Sample ID: AP 109

Collected: 10/30/95 16:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND* ND* 0.078* ND* 0.088*	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010 0.0010	50 50 50 50 50	11/17/95 11/17/95 11/17/95 11/17/95 11/17/95	SBTXME088 SBTXME088 SBTXME088 SBTXME088 SBTXME088

Lab ID: 9511144-03B
Sample ID: AP 109

Collected: 10/30/95 16:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	2300* 11/16/95	mg/Kg N/A	5.0	50	11/18/95	SLFTD051

Lab ID: 9511144-04A
Sample ID: AP #31-H

Collected: 11/02/95 08:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND* ND* ND* ND* ND*	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010 0.0010	5.0 5.0 5.0 5.0 5.0	11/16/95 11/16/95 11/16/95 11/16/95 11/16/95	SBTXME087 SBTXME087 SBTXME087 SBTXME087 SBTXME087

Lab ID: 9511144-04B
Sample ID: AP #31-H

Collected: 11/02/95 08:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	55B* 11/16/95	mg/Kg N/A	5.0	5.0	11/18/95	SLFTD051



Chain of Custody Record

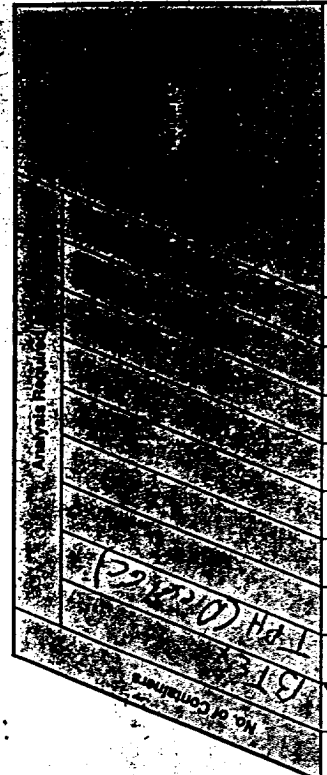
7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87111

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

MELQUADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation
Address 304 N. Behrend
City/State/Zip Farmington, NM 87401
Project Name / Number Pit Remediation 95017
Contract / Purchase Order / Quote _____

Project Manager / Contact John Taylor
Telephone No. (505) 325-0318
Fax No. (505) 325-0325
Samplers: (Signature) _____



ALC. FRACTION NUMBER	Field Sample Number	Location	Date	Time	Sample Type	Type / Size of Container	Temp.	Preservation
01A	AP # 28-C		10/31	12:25	Soil	4 oz. Glass		ICE
01B	AP # 28-C		10/31	12:25				
02A	AP # 28-H		10/31	11:30				
02B	AP # 28-H		10/31	11:30				
03A	AP 109		10/30	4:50				
03B	AP 109		10/30	4:50				
04A	AP # 31-H		11/2	8:30				
04B	AP # 31-H		11/2	8:30				
05A	AP # 129-H		11/2	7:55				
05B	AP # 129-H		11/2	7:55				
06A	AP # 149-C		11/6	4:30				
06B	AP # 149-C		11/6	4:30				

Relinquished by: Signature <u>[Signature]</u> Printed <u>Elvin S. Chavez</u> Company <u>APL</u> Reason <u>Testing</u>	Received by: Signature <u>[Signature]</u> Printed <u>Elvin S. Chavez</u> Company <u>APL</u> Reason <u>Testing</u>	Date 11/15/95 Time 4:00	Relinquished by: Signature <u>[Signature]</u> Printed <u>Elvin S. Chavez</u> Company <u>APL</u> Reason <u>Testing</u>	Received by: Signature <u>[Signature]</u> Printed <u>Elvin S. Chavez</u> Company <u>APL</u> Reason <u>Testing</u>	Date 11/16/95 Time 8:05
---	---	----------------------------------	---	---	----------------------------------

Method of Shipment: _____	Comments: _____
Shipment No. _____	
Special Instructions: _____	

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 #28</u>			
Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>24</u> T <u>24N</u> R <u>4W</u>		County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>10/31/95</u>		Date Completed: <u>6/19/97</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>224</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>6/19/97</u> Time: <u>1:15PM</u> Sample Results: Field Headspace (ppm) <u>0.4</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>8-22-97</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 <u> </u> (REASON) <u> </u>			
SIGNED: <u>Kurt C. Maull</u>		DATE: <u>9-2-97</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 28

* AMOUNT OF SOIL UNDERGOING REMEDIATION 224 Yds.

CELL No. <u>1</u>	SampDATE 6/19/97	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>75' L X 50' W X 18" W</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>10/31/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/19/97</u>			
CELL No. _____	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. _____	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) _____			
REMEDATION RECORD: (Date, Treatment, Tilling)			
10/31/95 TREAT WITH 28-4-4 FERTILIZER, TILL SOIL.			
6/17/97 TREAT WITH 46-0-0 FERTILIZER, WATER AND TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #28

SAMPLE DATE:

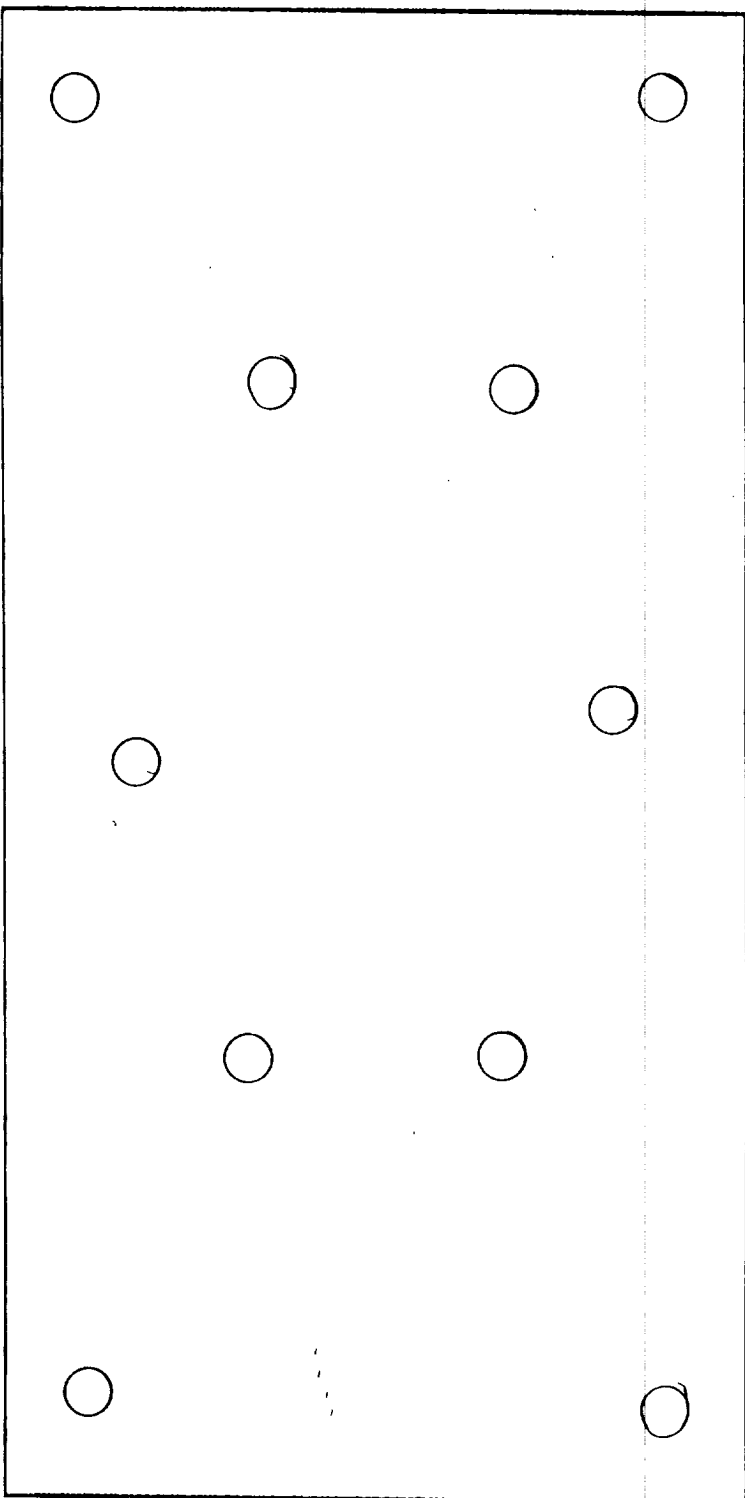
6-19-97

DIMENSIONS:

75' x 50' x 18" H.



= SAMPLE AREA

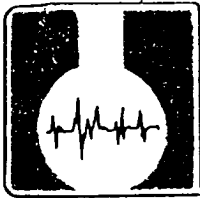


NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

10 point composite sample.

P10 composite Reading 0.4 ppm.



**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:
June 30, 1997 16:03

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9706224
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/23/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706224-01A
Sample ID: APACHE #28 CELL

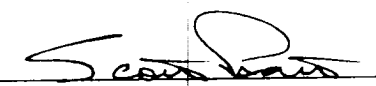
Collected: 06/19/97 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172
Toluene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172
Ethylbenzene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172
P-&m-Xylene	ND	mg/kg	0.010	100	06/24/97	SBTXME172
O-Xylene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172

Lab ID: 9706224-01B
Sample ID: APACHE #28 CELL

Collected: 06/19/97 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	25	06/28/97	SDR0037


For William P. Biava
President



WORKORDER COMMENTS

DATE : 06/30/97
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

Chain of Custody Record

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

Lab job no: 0001 Date 6-23-97

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

Page 1 of 2

Client Apache Corporation Project Manager / Contact Jeff Cross

Address 304 N. Behrend Telephone No. (505) 774-6643

City / State / Zip Farmington, NM 87401

Project Name / Number	JICARILLA PIT CLOSURES	Samplers: (Signature)
		

Contract / Purchase Order / Quote _____

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

[illegible]

LABORATORY