

District III

100 Rio Brazos Rd

Aztec, NM 87400

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

APR 10 1998

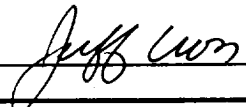
PIT REMEDIATION AND CLOSURE REPORT

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 # 109</u>			
Location: Unit or Qtr/Qtr Sec	<u>F</u>	<u>Sec 11</u>	<u>T 24 N</u>
		<u>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>30'</u> Depth <u>5'</u> (Attach diagram) Length <u>36'</u> Width <u>42'</u> Depth <u>14'</u> Reference: Wellhead <u>X</u> Other _____ Footage from reference: <u>150'</u> Direction from reference: <u>346</u> Degrees _____ East North <u>XX</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>8/15/95</u>	Date Completed:	<u>8/18/97</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>XXX</u>	Approx. cubic yards	<u>650</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>10/30/95</u>	Sample Time	<u>4:50 P.M.</u>
	Sample results			
	Benzene	(ppm)	<u>ND</u>	
	Total BTEX	(ppm)	<u>0.166</u>	
	Field Headspace	(ppm)	<u>64.56</u>	
	TPH		<u>2300</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		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 # 109</u>			
Location:	Unit or Qtr/Qtr	Sec <u>F</u>	SEC 11 T 24N R 4W 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>36'</u> Width <u>42'</u> Depth <u>14'</u> Reference: Wellhead <u>XXX</u> Other <u> </u> Footage from reference: <u>150'</u> Direction from reference: <u>346</u> Degrees <u> </u> East North <u>XX</u> <u>XX</u> West South			
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) <u> </u> (10 points) <u> </u> (0 points) <u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)		Less than 100 feet Greater than 100 feet	(10 points) <u> </u> (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 Greater than 100 feet	(10 points) <u> </u> (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 No	(20 points) <u> </u> (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 100 feet to 1000 feet Greater than 1000 feet	(20 points) <u> </u> (10 points) <u> </u> (0 points) <u>0</u>
		RANKING SCORE (TOTAL POINTS) <u>0</u>	

Date Remediation Started:		<u>8/15/95</u>		Date Completed:		<u>8-18-97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>650</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. spread soil on</u>							
<u>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>10/30/95</u>		Sample Time		<u>4:50PM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>0.166</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>64.56</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>2300</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>8-26-97</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>Kevin C. Mammell</u>		DATE:		<u>9-2-97</u>	

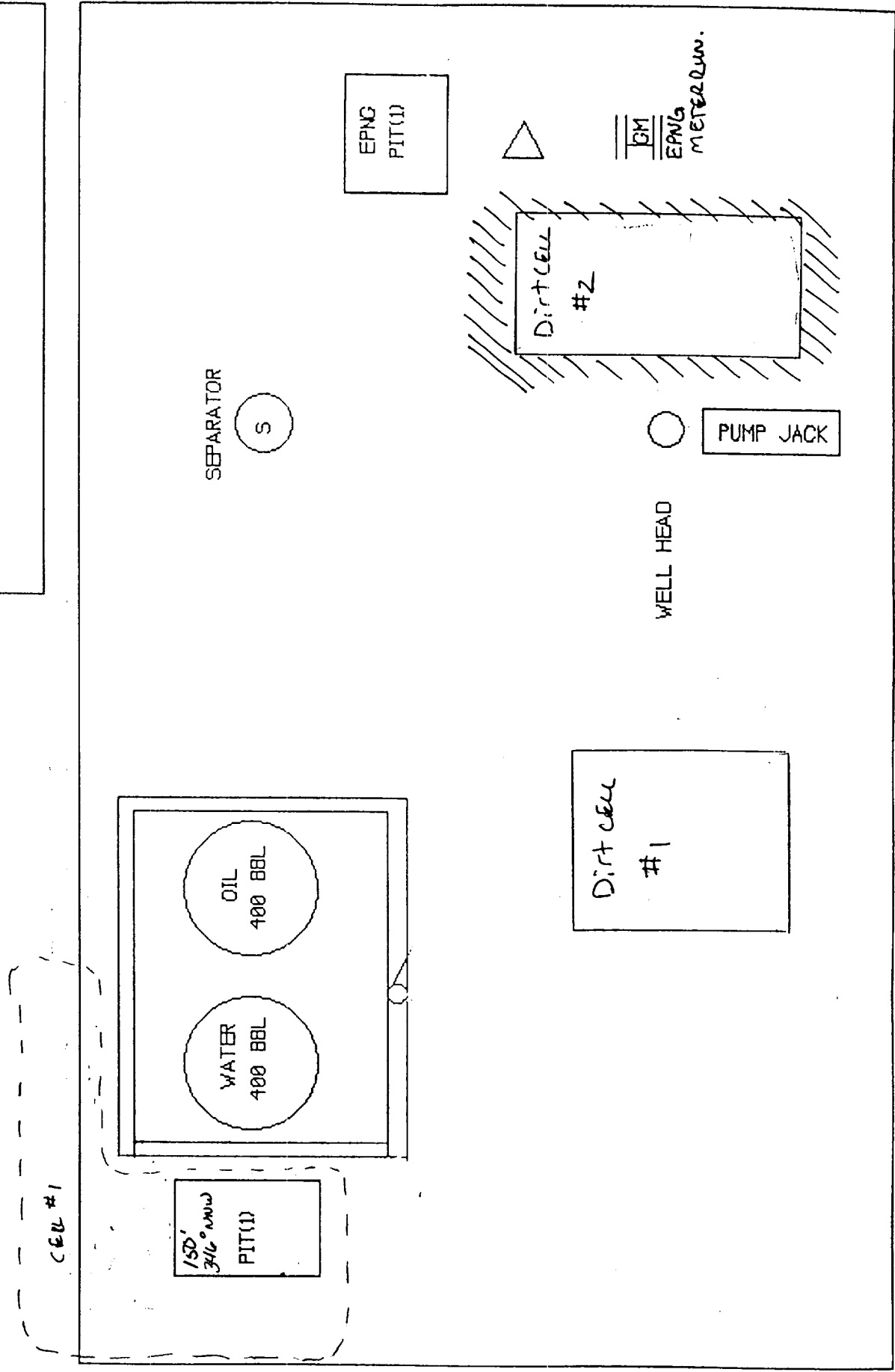
//// = Spread Area

NORTH

→ GENERAL DRAINAGE

○ = SEE O AREA

APACHE
APACHE NUMBER 109 Lease #126
SE/4 NW/4 (F)
SECTION 11. TOWNSHIP 24N RANGE 4W
RIO ARriba COUNTY. NM
Revised 8/1/97 MG



APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO REVIEW AND APPROVAL	
EPO REPRESENTATIVE	K.C.
DATE OF REVIEW:	11/29/95

LOCATION: APACHE 109

PIT COUNT: 1

EXCAVATION								
DIMENSIONS		START			FINISH			
	W'	L'	D'		W'	L'	D'	CU.YDS.
PIT 1	30'	24'	5'	PIT 1	42'	36'	14'	650.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE: 08/15/95		PIT 1@ 10'	PIT 2@	PIT 3@	DATE: 10/30/95		PIT 1@ 14'	PIT 2@
P. I. D.	CENTER	1100.0			P. I. D.	CENTER	83.1	
	NW CORNER	>2500				NW CORNER	11.6	
	NE CORNER	"				NE CORNER	20.6	
	SW CORNER	980.0				SW CORNER	190.0	
	SE CORNER	1050.0				SE CORNER	17.5	

NOTES:

08/15/95 Encountered heavy soils to 9.5'. S. side of pit wall sluffing off endangering production tanks.

08/16/95 Ramp N. side of pit for additional dig depth. Excavate to 14'. Soil caving under backhoe stabilizers.

Requested conditional closure for this pit. EPO rep. advised further excavation to eliminate conditional closure.

10/30/95 Excavate additional 2' from E. & W. walls and additional 4' from N. wall. Unable to excavate from S. wall due to production tanks. SW corner PID slightly elevated.

SOIL SAMPLING								
DATE: 08/16/95		PIT 1@ 12'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:	ASSAIGAI
P. I. D.	CENTER	not taken			PIT NO.	TPH	BTEX	WITNESS
	NW CORNER	"			1			
	NE CORNER	"				7400.0	3.2	IF&S
	SW CORNER	"						08/16/95
	SE CORNER	"						

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 10/30/95		PIT 1@ 14'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:	ASSAIGAI
P. I. D.	CENTER	83.1			PIT NO.	TPH	BTEX	WITNESS
	NW CORNER	11.6			1			
	NE CORNER	20.6				2300.0	0.166	JDT
	SW CORNER	190.0						10/30/95
	SE CORNER	17.5						

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
	NW CORNER							
	NE CORNER							
	SW CORNER							
	SE CORNER							

[illegible]

Notes: PID readings not taken as per APACHE instructions,

Lab ID: 9511144-02B
Sample ID: AP #28-H

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

Lab ID: 9508243-18A
Sample ID: PIT #145-D

Collected: 08/25/95 16:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	41	mg/Kg	5.0	5.0	09/05/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-18B
Sample ID: PIT #145-D

Collected: 08/25/95 16:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	09/01/95	SBTXME072
Toluene	ND	mg/Kg	0.0010	500	09/01/95	SBTXME072
Ethylbenzene	ND	mg/Kg	0.0010	500	09/01/95	SBTXME072
P-&m-Xylene	ND	mg/Kg	0.0020	500	09/01/95	SBTXME072
O-Xylene	ND	mg/Kg	0.0010	500	09/01/95	SBTXME072

Lab ID: 9508243-19A
Sample ID: PIT #109

Collected: 08/25/95 15:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	7400E	mg/Kg	5.0	25	09/06/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-19B
Sample ID: PIT #109

Collected: 08/25/95 15:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	2500	08/31/95	SBTXME071
Toluene	ND	mg/Kg	0.0010	2500	08/31/95	SBTXME071
Ethylbenzene	ND	mg/Kg	0.0010	2500	08/31/95	SBTXME071
P-&m-Xylene	ND	mg/Kg	0.0020	2500	08/31/95	SBTXME071
O-Xylene	3.2	mg/Kg	0.0010	2500	08/31/95	SBTXME071

Lab ID: 9508243-20A
Sample ID: PIT #125

Collected: 08/25/95 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	29B	mg/Kg	5.0	5.0	09/06/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				



7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87116
(505) 345-8964

7300 JEFFERSON NE

ROQUE, NEW MEI
(505) 345-8964

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

MELQUIADES ALANIS
5411 LOCAL LINDO

6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Applebee's Corporation

Address 304 N. 1st. end

City / State / Zip Flint Michigan NM 48701

Project Name / Number	
Lit Religion 9507	

Contract / Purchase Order / Quote

Project Manager / Contact John Lybeck

Telephone No. (303) 225-0318

Fax No. (505) - 321 - 0325

Samplers: (Signature)

Lab job no.: 1159 Date 11/15/55

Page 1 of 2

Page _____ of _____

John Taylor

22 Q 318

5-0325

(Signature)

AAL FRAGMENT NUMBER	Field Sample Number/Location	Date	Time	Sample Type	Type / Size of Container	Preservation	
						Temp.	Chemical
01H	AP # 28-C	10/31	12:25	50L	102 1/2 LASS		ICE
B	AP # 28-C	10/31	12:25				
02H	AP # 28-H	10/31	11:30				
B	AP # 28-H	10/31	11:30				
03A	AP 109	10/30	1:50				
B	AP 109	10/30	4:50				
04A	AP # 31-H	11/2	8:30				
B	AP # 31-H	11/2	8:30				
05A	AP # 129-H	11/2	7:55				
B	AP # 129-H	11/2	7:55				
06H	AP # 149-C	11/6	11:30				
B	AP # 149-C	11/6	11:30				

Date 11/15/95	Time 4:20
Inquired by: <u>Donell L L</u>	
Signature: <u>Donell L L</u>	
Printed: <u>Donell L L</u>	
Company: <u>Trucking Firm of Safety</u>	
Reason: <u>noting</u>	

Received by: [Signature]
Signature: [Signature]
Printed: E. V. M. J. Chong
Company: ML
Reason: 7c.t

Relinquished by: [Signature]
Signature: [Signature]
Printed: E. W. J. Charr
Company: ABC
Reason: Getting

Date 11/16/55	Received by: Signature <u>WILLIAM WOOD</u>
	Printed <u>WILLIAM WOOD</u>
Time	Company <u>WAL</u>

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

Comments: _____

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

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 # 109</u>		CELL # <u>1</u>	
Location:	Unit or Qtr/Qtr Sec <u>F</u>	Sec <u>11</u>	T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>
Land Type	<u>JIC. TRIBAL</u>		
Date Remediation Started: <u>8/15/95</u>		Date Completed: <u>8-18-97</u>	
Remediation Method:	Landfarmed <u>XXX</u>	Approx. cubic yards	<u>303</u>
	Composted <u> </u>		
	Other <u> </u>		
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>8/18/97</u> Time: <u>11:15 Am</u> Sample Results: Field Headspace (ppm) <u>7.8</u> TPH (ppm) <u>1200</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>8-26-97</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>Kevin C. Marshall</u>		DATE: <u>9-2-97</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

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 # 109</u> CELL # <u>2</u>	
Location: Unit or Qtr/Qtr Sec <u>F</u> Sec <u>11</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARriba</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>8/15/95</u> Date Completed: <u>8-18-97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>347</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>8/18/97</u> Time: <u>11:30Am</u> Sample Results: Field Headspace (ppm) <u>0.2</u> TPH (ppm) <u>4400</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>8-26-97</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) _____	
SIGNED: <u>Jeff Cross</u> DATE: <u>9-2-97</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 109

* AMOUNT OF SOIL UNDERGOING REMEDIATION 650 Yds.

CELL No. <u>1</u>	SampDATE <u>8/18/97</u>	TPH <u>1200</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>110' L X 50' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>8/15/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8-18-97</u>			
CELL No. <u>2</u>	SampDATE <u>8/18/97</u>	TPH <u>4400</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>100' L X 60' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>SOUTH</u>			
* DATE BEGAN: <u>8/15/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8-18-97</u>			
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)			
9/1/95 TREAT CELLS WITH 28-4-4 FERTILIZER,TILL SOIL.			
5/23/97 CELL # 1 TERAT WITH 46-0-0 FERT. WATER AND TILL.			
6/26/97 WATER AND TILL CELLS.			
6/30/97 TILL CELLS.			
7/17/97 TILL CELLS.			
8/8/97 TILL CELLS.			
8/12/97 TILL CELLS.			
8/14/97 TREAT CELL #1 WITH 35 LBS PHOSPHORUS,88 LBS 46-0-0 FERT.			

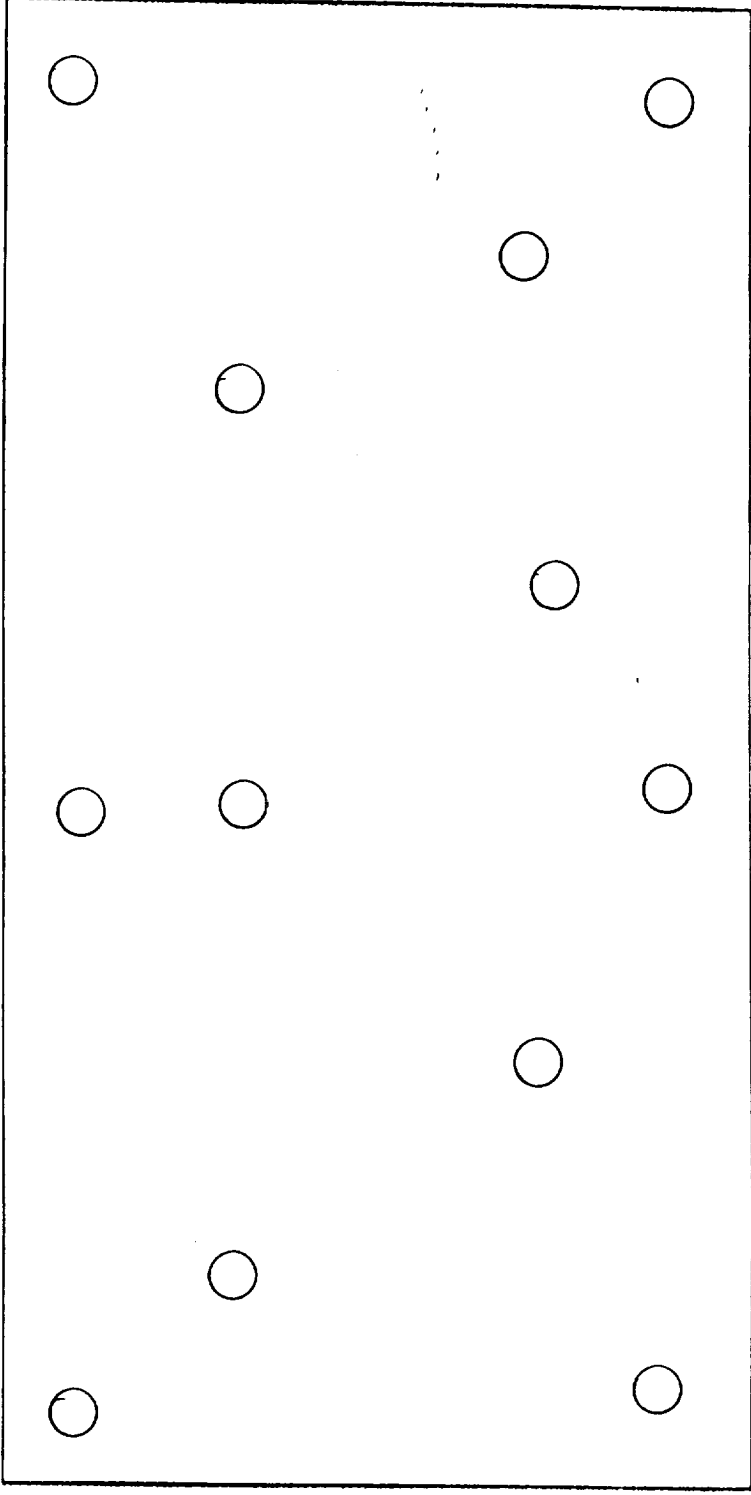
From excavation reports.

WELL NAME: Apache #109 Cell #2

SAMPLE DATE: 8-18-97

DIMENSIONS: 100' L X 60' W X 18" H

○ = SAMPLE AREA



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

12 point composite sample
P10 composite reading 0.2 ppm.

WELL NAME:

Apache #109 Cell #1

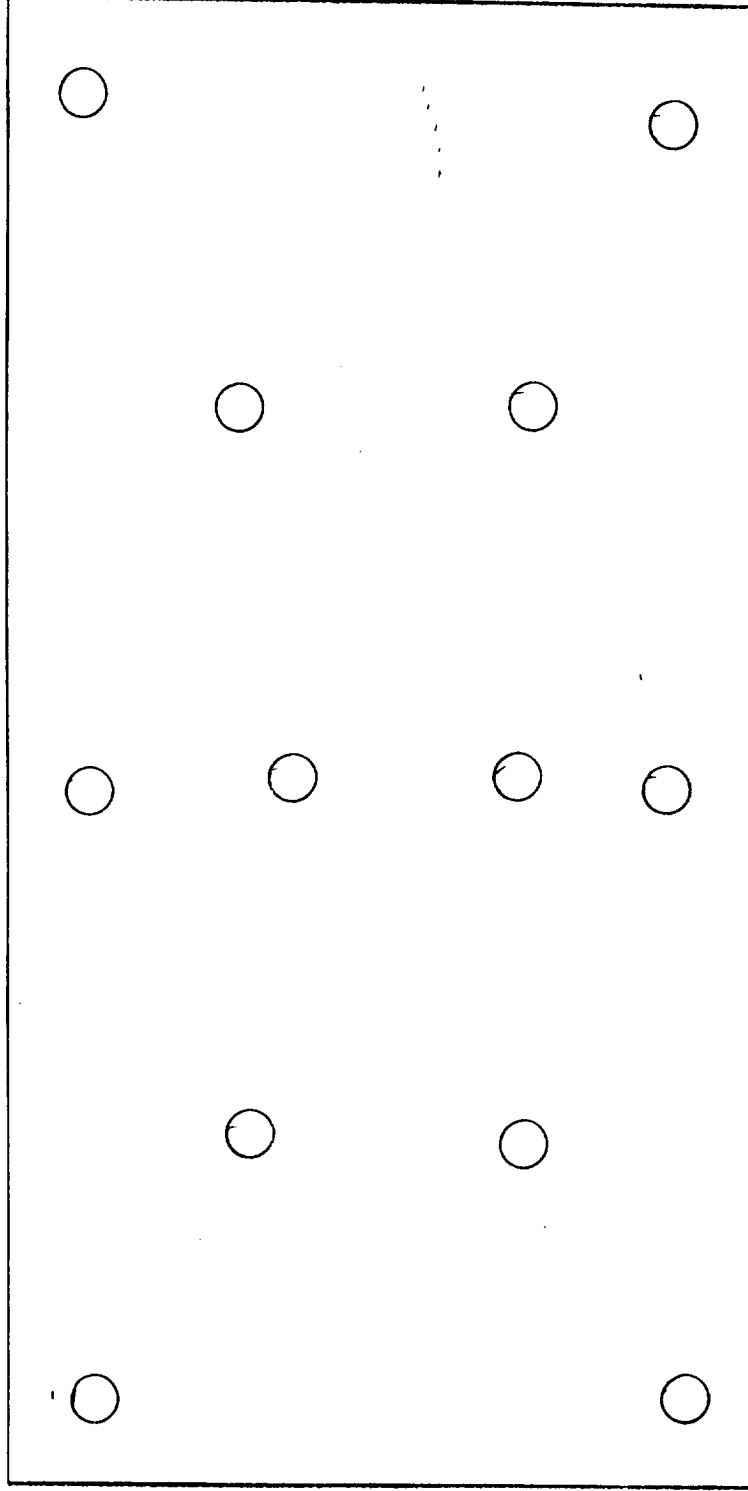
SAMPLE DATE:

8/18/97

DIMENSIONS:

110' L x 50' W x 18" H

= SAMPLE AREA

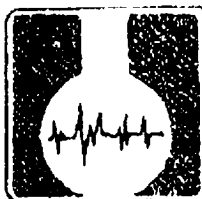


NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

12 point composite sample

P10 composite reading 7.8ppm.



**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 25, 1997 12:11

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9708189
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 08/20/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708189-01A
Sample ID: A 109 CELL #1

Collected: 08/18/97 11:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Toluene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Ethylbenzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
P-&m-Xylene	ND	mg/kg	0.010	100	08/21/97	SBTXME186
O-Xylene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186

Lab ID: 9708189-01B
Sample ID: A 109 CELL #1

Collected: 08/18/97 11:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	1200	mg/Kg	25	25	08/22/97	SDRO047

Lab ID: 9708189-02A
Sample ID: A 109 CELL #2

Collected: 08/18/97 11:30:00
Matrix: SOIL

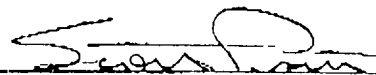
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Toluene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Ethylbenzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
P-&m-Xylene	ND	mg/kg	0.010	100	08/21/97	SBTXME186
O-Xylene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186

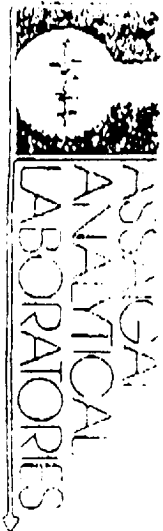


Lab ID: 9708189-02B
Sample ID: A 109 CELL #2

Collected: 08/18/97 11:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	4400	mg/Kg	25	25	08/22/97	SDRO047


for William P. Biava
President



Chain of Custody Record

Lab No. 8189 Date 8-20-97

Page 1 of 1

ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

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

1910 N. BIG SPRING
MIDLAND, TEXAS 79706
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO

CUADRO JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation Project Manager/Contact Jeff Cross

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

City, State/Zip Albuquerque, NM 87401 Fax No. (505) 774-6624

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

Contract, Purchase Order / Quote _____

No. of Containers	Sample Number/Location	Date	Time	Sample Type	Type / Size of Container	Preservation		Remarks
						Temp.	Chemical	
1A	H 107 Cell #1	8-18-97	11:15	Soil	402 Glass		ICE	
1B								
2A	H 107 Cell #2	8-18-97	11:30					
2B								

No. of Containers		Analysis Requested	Remarks
BTX			
ORO (mod. 80.5)			

Received by Signature <u>[Signature]</u> Printed <u>Scott Pratt</u> Company <u>AAL</u> Reason _____	Date <u>8-20-97</u> Time <u>8:18 AM</u>	Relinquished by: Signature <u>[Signature]</u> Printed <u>Scott Pratt</u> Company <u>AAL</u> Reason _____	Date <u>20 Aug 97</u> Time <u>16:10</u>	Signed by Signature <u>[Signature]</u> Printed <u>Carla Rubio</u> Company <u>AAL</u> Reason _____
---	--	--	--	---

Use of GC or SA solvent _____	Comments _____	After analysis, samples are to be: ☐ Disposed of (additional fee) ☐ Stored (30 days max) ☐ Stored over 30 days (additional fee) ☐ Returned to customer
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