

Jimmy E. Frost
1000 Rio Arriba Rd. S.W. 1000, Aztec, NM 87410
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Minerals and Natural Resources Department

DEC 17 1988

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

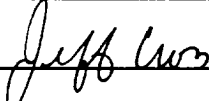
Submit 1 copy to
Appropriate District
and 1 copy to

RECEIVED
JUL 6 1989
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
PAGE 8

Operator: Apache Corporation		Telephone: 505-325-0318	
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401			
Facility or Well Name:		Apache # 125 #15	
Location: Unit or Qtr/Qtr Sec	P	Sec 25	T 25 N R 4W County Rio Arriba
Pit Type: Separator:		Dehydrator:	Other: Blow Pit
Land Type: Jicarilla Tribal			
Beginning Pit Dimensions: Length 30' Width 30' Depth 2'			
Pit Location: (Attach diagram)	Ending Pit Dimensions: Length 40' Width 35' Depth 6'		
Reference:	Wellhead	XXX	Other
Footage from reference: 80'			
Direction from reference: 45 Degrees X East North XX 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) 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>6/4/97</u>	Date Completed:		<u>6/5/97</u>
Remediation Method: (Check all appropriate sections)	Excavation	<u>XXX</u>	Approx. cubic yards	<u>270</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 6', took PID readings.</u>			
		<u>Spread soil on location for remediation. Took soil samples. Remediated soil to be</u>			
		<u>put back in pit.</u>			
Groundwater Encountered:		No <u>XX</u>	Yes	Depth	
Final Pit:	Sample location	<u>4 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>6'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>		
	Sample Date	<u>6/5/97</u>	Sample Time	<u>9:00 A.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>18.94</u>		
	TPH		<u>ND</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 24, 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>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# 15</u>			
Location:	Unit or Qtr/Qtr	Sec <u>P</u>	SEC 25 T 25N R 4W 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>40'</u>	Width <u>35'</u>	Depth <u>6'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>80'</u>		
	Direction from reference:	<u>45</u> Degrees	<u>X</u> East	North <u>XX</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:		<u>6/4/97</u>		Date Completed:		<u>6-5-97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>270</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 6', took PID readings. spread soil on location for remediation. Took soil samples. 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)		SIDEWALLS, GRAB SAMPLE TAKEN 10" INTO PIT BOTTOM CENTER.					
		Sample depth <u>6'</u>		<u>8" to 10" into pit side walls, 10" into pit bottom.</u>			
		Sample Date <u>6/5/97</u>		Sample Time <u>9:00 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>18.94</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND\SIDES ND\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>Kevin Mammell</u>		DATE:		<u>6-23-98</u>	

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 125 # 15

PIT COUNT 1

Jicarilla Apache Tribal EPO/OCD/BLM

Review and Approval

OCD-BLM

EPO Representative

Date of Review

Excavation								
DIMENSIONS			START: 6/4/97	FINISH: 6/5/97				
	W	L	D		W	L	D	CU YDS
Pit 1	30'	30'	2'	Pit 1	35'	40'	6'	270
Pit 2				Pit 2				
Pit 3				Pit 3				
		Pit 1 @ 6'	Pit 2 @	Pit 3 @		Pit 1 @ 6'	Pit 2 @	Pit 3 @
P I D	Center	13			P I D	Center	0.6	
	NW Corner	3.5				NW Corner	0.1	
	NE Corner	70				NE Corner	15	
	SW Corner	72				SW Corner	68	
	SE Corner	2				SE Corner	11	

NOTES:

6/4/97 START EXCAVATION ON PIT, NO STAINING OR ODOR, PID READINGS GOOD @ 6'.

6/5/97 EXCAVATE PIT SIDE WALLS , TOOK FINAL PID READINGS (GOOD)

SOIL SAMPLING

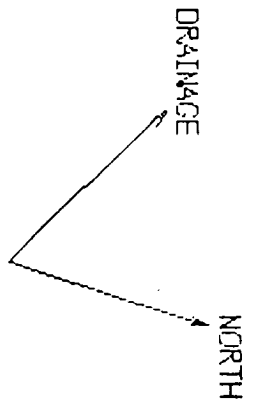
DATE:	6/5/97	Pit 1 @ 6'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P I D	Center	0.6			PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner	0.1				SIDE\BTM	SIDE\BTM		
	NE Corner	15			1	ND\ND	ND\ND	JEFF C.	6/11/97
	SW Corner	68			2				
	SE Corner	11			3				

RE-SAMPLE OR CELL(S) SAMPLE

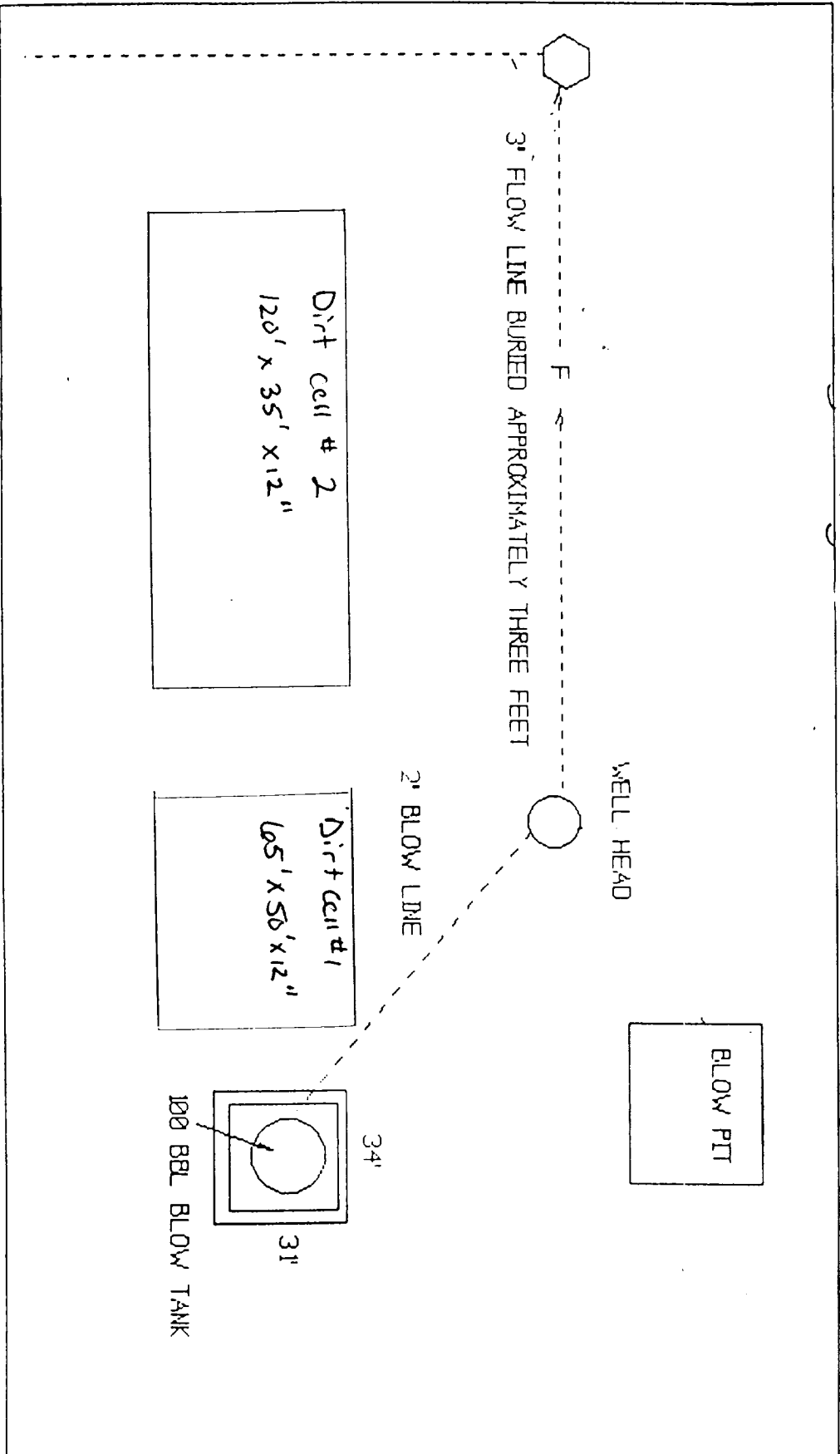
DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P I D	Center				PIT NO	TPH	BETEX	WITNESS	DATE
	NW Corner								
	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

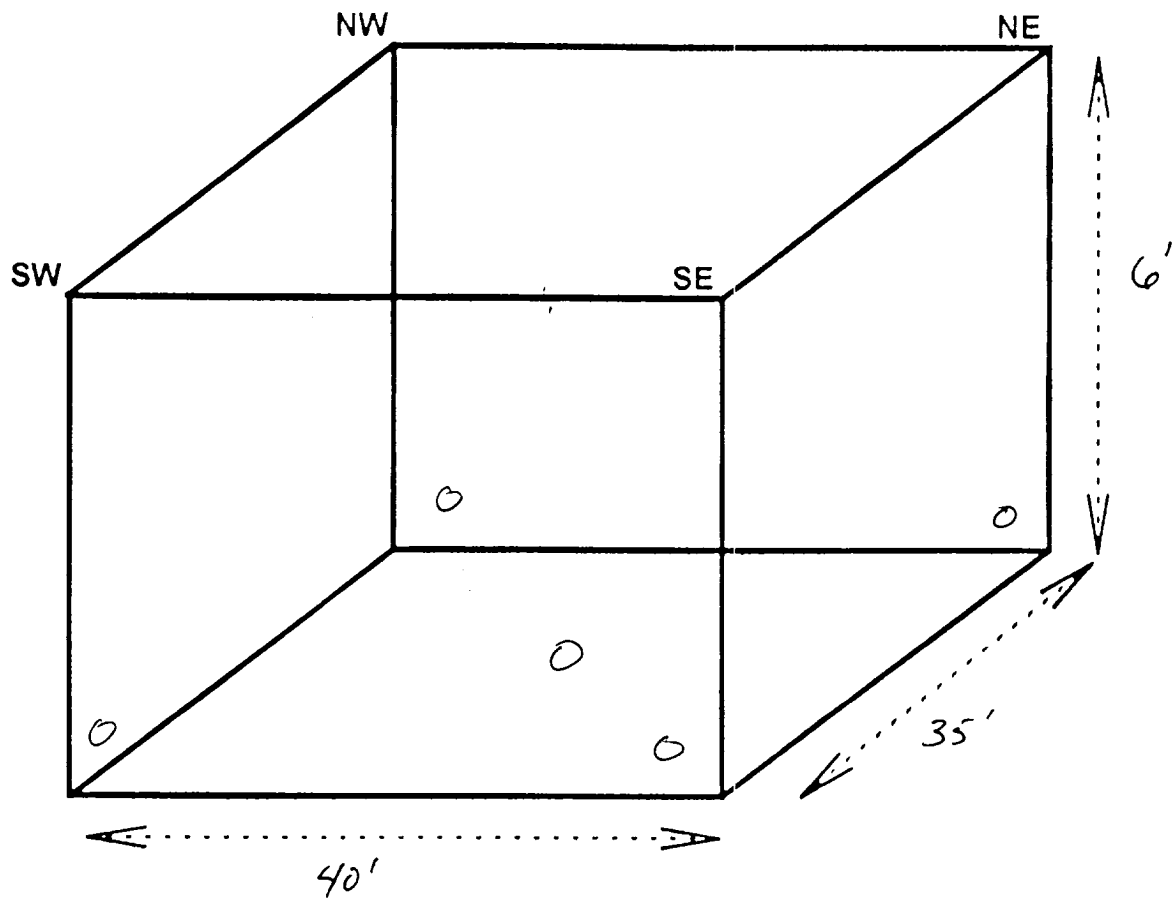
RE-SAMPLE OR CELL(S) SAMPLE

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				



M W PETROLEUM
 JICARILLA APACHE TRACT 125 WELL 15
 SE/4 SE/4 (P), FED. LEASE # 09000125
 SECTION 25, TOWNSHIP 29N, RANGE 4W
 RIO ARriba COUNTY, NM



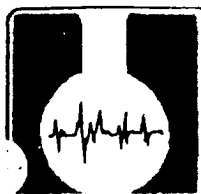


○ = SAMPLE AREA

WELL NAME JAT 125 #15

SAMPLE DATE 6-5-97

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.**

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

JUN 24 1997

Report Generated:
June 13, 1997 17:13

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9706074
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/09/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706074-01A
Sample ID: JAT A 125 #15 SIDES

Collected: 06/05/97 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168
Toluene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168
Ethylbenzene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168
P-&m-Xylene	ND	mg/Kg	0.0020	500	06/11/97	SBTXME168
O-Xylene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168

Lab ID: 9706074-01B
Sample ID: JAT A 125 #15 SIDES

Collected: 06/05/97 09:00:00
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	06/12/97	SDRO32

Lab ID: 9706074-02A
Sample ID: JAT A 125 #15 BOTTOM

Collected: 06/05/97 09:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168
Toluene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168
Ethylbenzene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168
P-&m-Xylene	ND	mg/Kg	0.0020	500	06/11/97	SBTXME168
O-Xylene	ND	mg/Kg	0.0010	500	06/11/97	SBTXME168



I D: 9706074-02B
Sample ID: JAT A 125 #15 BOTTOM

Collected: 06/05/97 09:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	50	25	06/12/97	SDR032

Wm. P. Biava

William P. Biava
President

WORKORDER COMMENTS

DATE : 06/13/97
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

Lab job no. 6074 Date 6/9/97
Page 1 of 1

Client Apache Corporation Project Manager / Contact Jeff Cross
Address 304 N. Behrend Telephone No. (505) 774-6643
City / State / Zip Farmington, NM 87401 Fax No. (505) 774-6624
Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature) _____
Contract / Purchase Order / Quote _____

ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964
3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

MELOQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Analysis Required		Remarks
No. of Containers	BTEX (mod 8015)	
1A	1	
1B	1	
2A	1	
2B	1	

ALL ANALYTICAL NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Chemical
1A	JATA 125 th 15 Sides	6-5-97	9:00	Soil	402 Glass	4°C	ICE
1B	" "						
2A	JATA 125 th 15 Bottom		9:30				
2B	" "						

Relinquished by: Signature <u>[Signature]</u> Printed <u>Elwin J. Chavez</u> Company <u>AAAI</u> Reason _____	Received by: Signature <u>[Signature]</u> Printed <u>Scott Pratt</u> Company <u>AAAI</u> Reason _____
Date <u>6/9/97</u> Time <u>4:20</u>	Date <u>6/9/97</u> Time <u>8:00 AM</u>
Method of Shipment: _____ Shipment No. _____ Special Instructions: _____	After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer

LABORATORY

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 # 15 CELL # 1</u>	
Location: Unit or Qtr/Qtr Sec <u>SE\SE</u> Sec <u>25</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>6-4-97</u> Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>120</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>11:30AM</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>use as Backfill</u>	
SIGNED: <u>Ken C Mammill</u> DATE: <u>6-23-98</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>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 # 15 CELL # 2</u>			
Location: Unit or Qtr/Qtr Sec <u>SE\SE</u> Sec <u>25</u> T <u>25N</u> R <u>4W</u> County <u>RIO ARRIBA</u>			
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>6-4-97</u>		Date Completed: <u>5/21/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>150</u>	
Composted <u> </u>			
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>11:40AM</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 <u> </u> (REASON) <u>was a Backfill</u>			
SIGNED: <u>Kent Marshall</u>		DATE: <u>6-23-98</u>	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE JAT 125 # 15

* AMOUNT OF SOIL UNDERGOING REMEDIATION 270 Yds.

CELL No. <u>1</u>	SampDATE 5/21/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>65' X 50' X 12"</u>			
CELL LOCATION (dir. from well head) <u>SOUTHEAST</u>			
* DATE BEGAN: <u>6/4/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/21/98</u>			
CELL No. <u>2</u>	SampDATE 5/21/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>120' X 35' X 12"</u>			
CELL LOCATION (dir. from well head) <u>SOUTHWEST</u>			
* DATE BEGAN: <u>6/4/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/21/98</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)			
6/7/97 TREAT BOTH CELLS WITH 46-0-0 FERTILIZER,WATER,PLOW AND TILL SOIL.			
6/25/97 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 CELL #1 WITH 40LBS PHOSPHORUS,60LBS LIME ,#2 WITH 28LBS PHOSPHORUS 37LBS 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:

JAT125 #15 cell #1

SAMPLE DATE:

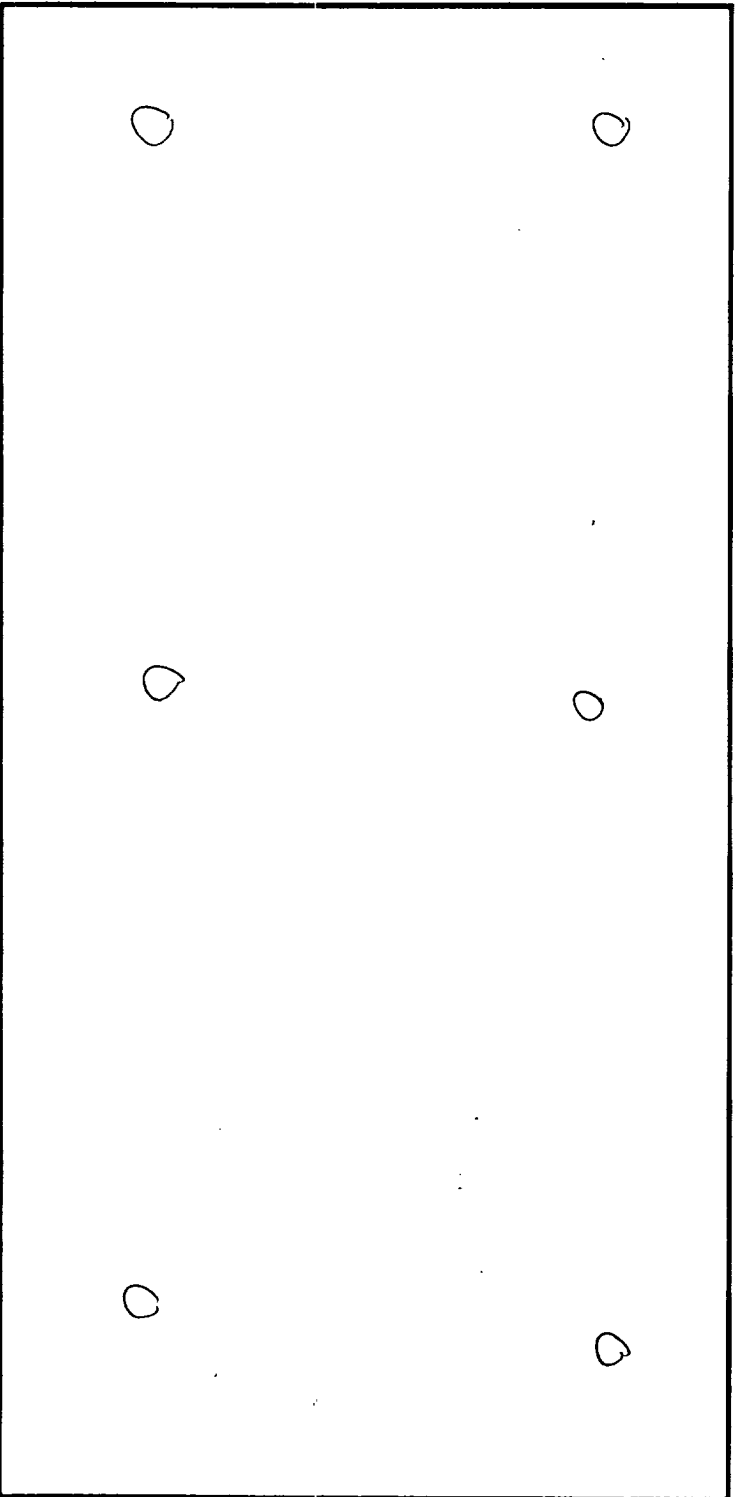
5-21-98

DIMENSIONS:

65' x 50' x 12



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

6 point composite Sample

WELL NAME:

JAT 125 4/5 cell #2

SAMPLE DATE:

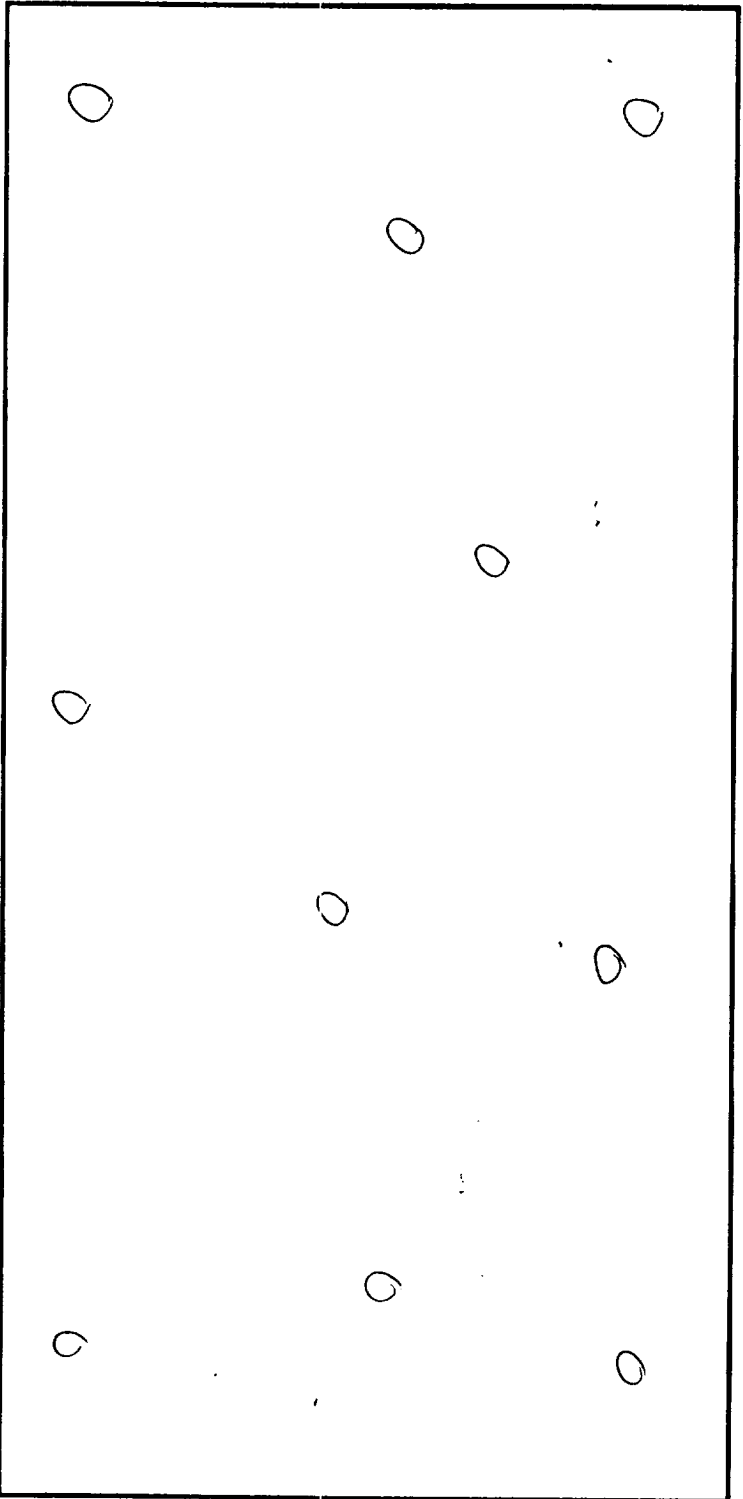
5-21-98

DIMENSIONS:

120' x 35' x 12"



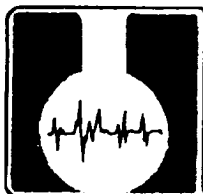
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

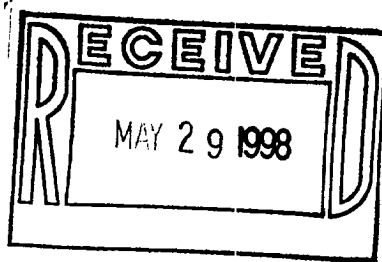
10 point composite sample



**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: **9805211 JICARILLA**

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

Client Sample ID: **JAT 125 #15 CELL #1** Sample Matrix: **SOIL** Sample Collected: **05/21/98 11:30:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8010/8020 Volatiles									
9805211-01A	X98288	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.483-10	05/22/98
	X98288	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.483-10	
	X98288	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.483-10	
	X98288		P/M-Xylenes	ND	mg / Kg	50	0.01	XG.1998.483-10	
	X98288	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.483-10	
SW846-8015 Modified TPH									
9805211-01B	X98286		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.488-29	05/23/98

Client Sample ID: **JAT 125 #15 CELL #2** Sample Matrix: **SOIL** Sample Collected: **05/21/98 11:40:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
SW846-8010/8020 Volatiles									
9805211-02A	X98288	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.483-11	05/22/98
	X98288	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.483-11	
	X98288	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.483-11	
	X98288		P/M-Xylenes	ND	mg / Kg	50	0.01	XG.1998.483-11	
	X98288	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.483-11	
SW846-8015 Modified TPH									
9805211-02B	X98289		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.488-32	05/23/98





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ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

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

Page _____ of _____

Address 2855 Southside River RD, Ste. Arephone No. (505) 774-6643

Project Name / Number _____

Samplers: (Signature) Jack Lee

Contract / Purchase Order / Quote

[illegible]

Relinquished by:		Received by:		Date	
Signature	<u>Jeff Wors</u>	Signature	<u>Scott Pratt</u>	<u>5-22-98</u>	
Printed	<u>JEFF WORS</u>	Printed	<u>SCOTT PRATT</u>	Time	<u>1:00</u>
Company	<u>Apache Corp</u>	Company	<u>AAL</u>		
Reason		Reason			

Date	22 May 98	Received by:	<i>[Signature]</i>
Time	15:30	Signature	<i>[Signature]</i>
		Printed	<i>[Signature]</i>
		Company	AAZ
		Reason	

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

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

LABORATORY