Aztec, MEBLITY OIL & GAS INSI

State of New Mexico Minerals and Natural Resources Department Appropriate District and 1 copy to Santa Fe Office

JAN 2 9 1999

OIL CONSERVATION DIVISION 2040 S. PACHECO

Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPOR

HARVEVEL							
Operator: Apache Corporation \ MW Pet	roleum		Telephone	:	505-325	900 BU	Wo :
Address: 2855 Southside River Road, S	uite A, Farm	ington, Ni	87401				
Facility or Well Name:	Jic Apach	e Tribal A1	18 #11 Pit	1#1 03 W			
Location: Unit or Qtr/Qtr Sec	N	Sec 36	T 26 N		County	Rio Arriba	
Pit Type: Separator:	Dehydrator	r	Other_	Blow Pit			
Land Type: Jicarilla Tribal							
Beginning Pit Dimensions:	Length	15	'Width	15'	Depth	5'	
Pit Location: Ending Pit Dimensions:	Length	18	_ Width	18'	Depth	12'	
(Attach diagram) Reference:	Wellhead	XX	Other				
Footage from reference:		80	·	_			
Direction from reference:		342	_Degrees	···	_East	North _	XX
				X	o _West	f South _	
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)			Less than 50 feet to Greater th			(20 points) (10 points) (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 No	(20 points) (0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,				200 feet o 1000 feet nan 1000 fee		(20 points) (10 points) (0 points)	0
irrigation canals and ditches)			RANKING	SCORE (T	TOTAL POI	NTS)	0

Date Remediation Star	ted:	8/27/97		_Date Compl	eted:	9/5/97
Remediation Method: (Check all appropriate		Excavation	XXX	_Approx. cub	nic yards	84
sections)	Landfarmed	,	XX	_Insitu Biorer	mediation	
		Other				
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	:	Onsite	XX	_Offsite _		
General Description o	f Remedial Action:		Excavate	pit to 12' , to	ook PID reading	gs. Spread soil on
location for	remediation. Took	soil sampl	les.			
	-					
Groundwater Encount	tered:	No	X	X Yes		Depth
Final Pit:	Sample location		4 point con	nposite taken fr	om pit sidewalls.	
Closure Sampling: (in multiple samples,			Grab samp	ele taken from pi	it bottom center	
attach sample results	Cample death	12'			valls 10" into pi	it bottom
and diagram of sample locations and depths)		14				
	Sample Date Sample results		9/5/9	97	Sample Time	2:00 PM
	Benzene		(ppm)	ND		
	Total BTEX		(ppm)	ND		
	Field Headspace		(ppm)	41.76		
	TPH			1400/side		
Groundwater Sample	:	Yes	5	ND/BTM No	XX(If y	res attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO	VE IS TRI	JE AND COM	PLETE TO THE	BEST OF MY
DATE	January 8, 1999)	_PRINTEI	D NAME	Jeff Cross	
SIGNATURE	ff lion		_AND TIT	TLE	Project Manag	jer

U

District III 1000 Rio Brazos Rd Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

OIL CONSERVATION DIVISION

2040 S. PACHECO Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator: Apache Corporation \ MW Petro	oleum		_Telephone	:	505-325-	0318	
Address: 2855 Southside River Road, Su	ıite A, Farn	nington, Ni	W 87401				
Facility or Well Name:	Jic Apach	e Tribal A1	118 #11 Pi	t #2			
Location: Unit or Qtr/Qtr Sec	N	Sec 36	T 26 N	03 € R 2W	_County	Rio Arriba	
Pit Type: Separator: XX	_Dehydrato	r	_Other				
Land Type: Jicarilla Tribal		,					
Beginning Pit Dimensions:	Length	15	' Width	15'	Dept	h 3'	
Pit Location: Ending Pit Dimensions: (Attach diagram)	Length	21	. Width	24	_ Dept	th14'	
Reference:	Wellhead	XX	_Other				
Footage from reference:		70	1	-			
Direction from reference:		110	_Degrees	XX	_East	North _	
					_West	of South _	х
Depth To Groundwater:			Less than	50 feet		(20 points)	
(vertical distance from			50 feet to			(10 points)	
contaminants to seasonal			Greater th	an 100 feet		(0 points) _	0
high water elevation of groundwater)							
Wellhead Protection Area:					Yes	(20 points)_	
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)					No	(0 points) _	0
Distance To Surface Water:			Less than	200 feet		(20 points)	
(Horizontal distance to perennial				o 1000 feet an 1000 fee	st.	(10 points)	0
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			Greater tr	iati 1000 let	5 l	(0 points) _	0
			RANKING	S SCORE (T	OTAL PO	INTS)	0

Date Remediation Sta	rted:	9/4/97		_Date Com	pleted:	9/8/97
Remediation Method: (Check all appropriate		Excavation	XXX	_Арргох. с	ubic yards	205
sections)	Landfarmed		XX	_Insitu Bior	emediation	
		Other				
Remediation Location	n:	Onsite	xx	_Offsite		
(i.e. landfarmed onsite, name and location of offsite facility)						
General Description o	of Remedial Action:		Excavate	pit to 14',	took PID reading	gs. Spread soil on
location fo	r remediation. Took	soil sampl	les.			
-						
Groundwater Encoun	tered:	No	X	<u>(</u> Yes		Depth
Final Pit:	Sample location		4 point com	posite taken t	rom pit sidewalls.	
Closure Sampling: (in multiple samples,			Grab sampl	e taken from ¡	oit bottom center	
attach sample results and diagram of sample	Sample depth	14'	8 to 10" i	nto pit side	walls 10" into pi	t bottom
locations and depths)	Sample Date Sample results		9/8/97	<u>7</u>	_Sample Time	11:00 AM
	Benzene		(ppm)	ND	<u>-</u>	
	Total BTEX		(ppm)	ND	<u>.</u>	
	Field Headspace		(ppm)	53.08	<u>!</u>	
	TPH			2100/side	-	
Groundwater Sample	:	Yes		_ No		es attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABOV	/E IS TRU	E AND COM	PLETE TO THE	BEST OF MY
DATE	January 8, 1999		PRINTED	NAME	Jeff Cross	
SIGNATURE	all lun		AND TITL	_	Project Manage	

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>N</u>	M W	PETROLEUM			Telephone	505-3	25-0318		
Address: 2	2855	SOUTHSIDE RIV	/ER ROAD	/ SUITE A	/ FARMING	TON N.M	1. 87401-79	47	
Facility or Wel	I Nan	ne:	JAT A-118	#11	PIT#1				
Location: l	Unit c	or Qtr/Qtr Sec	N	SEC 36	T 26N	R 3W	_County	RIO ARRIBA	<u> </u>
Pit Type:	Sepa	rator:	Dehydrato	r	_Other		BLOW PI	IT	
Land Type: _		JIC. TRIBA	<u>L</u>						
Pit Location: (Attach diagrai	m)	Pit Dimensions:	Length Wellhead	18'XXX	_ Width Other	18'	Dept	h <u>12'</u>	
		Footage from ref		80'	_Other				
		Direction from re	ference:	342	_Degrees		East	North _	XX
						x	West	South _	
Depth To Gro	und	water:		·	Less than	50 feet		(20 points)	
(vertical distance fi		.,			50 feet to			(10 points)	
contaminants to se high water elevatio groundwater)	easona	ıl			Greater th	an 100 fe	et	(0 points) _	0
Distance to a	n Fn	hemeral Stream	•		Less than	100 feet		(10 points)	
	t dry	wash greater tha			Greater th		et	(o points)	
Distance to N	Jaara	est Lake, Playa, o	or Waterin	a Pond:	Less than	100 feet		(10 points)	
(Downgradien	t lake	es, playas and watering ponds)			Greater th		et	(o points) _	0
 Wellhead Pro	ntecti	ion Area				Y	es	(20 points)	
		t from a private					10	(0 points) _	0
domestic wate	er sou	urce, or less than other water sourc							
Distance To	Surfa	ace Water:			Less than	100 feet		(20 points)_	
(Horizontal dis						o 1000 fee	et	(10 points)	
lakes, ponds,	river	s, streams, creek	s,		Greater th	nan 1000 f	eet	(0 points)	0
irrigation cana	ais ar	nd ditches)			RANKING	SCORE	(TOTAL PC	DINTS)	0

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:	мw	PETRO	LEUM			Telephone	·	505-32	25-0318		
Address:	2855	SOUTH	SIDE RI	VER ROAL) / SUITE A	/ FARMING	GTC	N N.M.	87401-794	7	
Facility or We	ll Na	me:		JAT A-118	3 # 11	PIT#2	,		· · · · · · · · · · · · · · · · · · ·		
Location:	Unit	or Qtr/Qt	r Sec	N	SEC 36	T 26N	R	3W	County	RIO ARRIBA	
Pit Type:	Sepa	arator:	хх	Dehydrato	or	Other					
Land Type:		JI	C. TRIBA	AL							
Pit Location:		Pit Dime	ensions:	Length	n 21'	Width	l	24'	Depth	14'	
(Attach diagra		Referen	ce:	Wellhead	XXX	_Other					
		Footage	from ref	erence:	70'		_				
		Direction	n from re	ference:	110	Degrees		хх	East	North	
									of _West	South	Х
Depth To Gro	ound	water:				Less than	50 f	feet		(20 points)	
(vertical distance f						50 feet to				(10 points)	-
contaminants to se		al				Greater tha	an 1	100 feet		(0 points)	0
high water elevatio groundwater)	on of										
Distance to a	ın Ep	hemeral	Stream	:		Less than	100	feet		(10 points)	
(Downgradien ten feet in wid	it dry					Greater tha	an 1	100 feet		(0 points)	0
Distance to N				or Waterin	g Pond:	Less than				(10 points)	
(Downgradien livestock or wi						Greater tha	an 1	100 feet		(0 points)	0
Wellhead Pro								Yes		(20 points)	
(Less than 200 domestic wate 1000 feet fron	er sou	urce, or l	ess than	es)				No	ı	(0 points)	0
Distance To	Surfa	ace Wate	er:			Less than	100	feet		(20 points)	
(Horizontal dis						100 feet to				(10 points)	
lakes, ponds,				S,		Greater th			et	(0 points)	0
irrigation cana	als an	nd ditches	5)			RANKING	sc	ORE (T	OTAL POIN	NTS)	0
<u> </u>									···		

Date Remediation Starte	ed: 9/4/97	,	_Date Comple	eted: <u>9</u> -	8-97
Remediation Method:	Excavation	XXX	_Approx. cubi	c yards	205
(Check all appropriate sections)	Landfarmed	XX	_Insitu Biorem	nediation	
	Other				-
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite	e <u>XX</u>	_Offsite _		
General Description of	Remedial Action: Ex	cavate pit	to 14',took P	ID readings. spread	soil on
location fo	or remidiation. Took	soil sampl	es		
Groundwater Encounte	red: No	o <u>xxx</u>	_ Yes_	Depth)
Final Pit: Closure Sampling: (in multiple samples,	Sample location			n from pit sidewalls.	DM CENTER.
attach sample results and diagram of sample locations and depths)	Sample depth /4'			alls ,10" into pit botto	
Sample Da Sample re		9/8/9	7	Sample Time	11:00AM
Soil:	Benzene	(ppm)	ND\	Water: Benzene	(ppb) NA
	Total BTEX	(ppm)	ND	Toluene	(ppb) NA
·	Field Headspace	(ppm)	53.08	Ethylbenzene	(ppb) NA
	TPH	(ppm)	BTM\3700	Total Xylenes	
Groundwater Sample:	Ye	es	_ No_	XXX (If yes att	ach sample results)
I HEREBY CERTIFY TH KNOWLEDGE AND BE		ION ABOV	E IS TRUE A	ND COMPLETE TO	THE BEST OF MY
DATE//	1-25-98	PRINTE	NAME _	JEFF CF	Ross
SIGNATURE	eff (110s	AND TIT	LE -	PROJEC	T MANAGER
AFTER REVIEW OF THE JICARILLA APAC	IE PIT CLOSURE IN	FORMATIO	N, PIT CLOS	URE IS APPROVED	IN ACCORDANCE TO
APPROVED: YES	N N	0	(REASON)		
SIGNED:	-CMem	<u>Qc</u>	DATE:	12-26-	98



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 23, 1997 09:26

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

WORKORDER #

: 9709109

TO: 2855 SOUTHSIDE RIVER RD STE AWORK ID

: JICARILLA PIT CLOSURES

FARMINGTON, NM 87401-7947

CLIENT CODE

: APA01

DATE RECEIVED : 09/12/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9709109-01A

Sample ID: A118 #11 PIT 1 SIDES

Collected: 09/05/97 14:00:00

Matrix: SOIL

Dampio in						
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	0.0050 0.0050 0.0050 0.010 0.0050	100 100 100 100 100	09/14/97 09/14/97 09/14/97 09/14/97 09/14/97	X97262 X97262 X97262 X97262 X97262

Lab ID: 9709109-01B

Sample ID: A118 #11 PIT 1 SIDES

Collected: 09/05/97 14:00:00

Matrix: SOIL

•	the contract of the contract o					
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	1400	mg/Kg	25	25	09/17/97	SDRO53

Lab ID: 9709109-02A

Sample ID: A118 #11 PIT 1 BOTTOM

Collected: 09/05/97 14:30:00

Matrix: SOIL

Sample ID: Allo #11 F1.	i i bollon	11244421111 20				
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	0.0050 0.0050 0.0050 0.010 0.0050	100 100 100 100 100	09/14/97 09/14/97 09/14/97 09/14/97 09/14/97	X97262 X97262 X97262 X97262 X97262



Page: 2

Sample ID: A118 #11 PIT 1 BOTTOM

Collected: 09/05/97 14:30:00 **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	25	25	09/12/97	SDRO052

M Mage for William P. Biava

President

WORKORDER COMMENTS

DATE

: 09/23/97

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"

 $\overline{\mathrm{NT}}$ = 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

Project Manager / Contact __Jeff__Cross

Client Apache Corporation

ALBUQUERQUE, NEW MEXICO 87109 --- (505) 245-8964

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116

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

MELOUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Address 304	04 N. Behrend		Tele	Telephone No. (505) 774-6643	774-664	13			Analysis Required	<u></u>
City / State / Z	City/State/ZipEarmington, NM_87401	7401	Fax	Fax No. (505) 774-6624	-6624			570		
Project Name	Project Name / Number JICARILLA PIT CLOSURES	r closure		Samplers: (Signature)	Joh Must	\'r	_	8 200		Remarks
Contract / Pur	Contract / Purchase Order / Quote		1	•			00 /0 ·0 N	1		
AAL FRACTION MUMBER	Fleid Sample Number / Locadon	Date Time	Sample Type	Type / Size of Container	ļ.	Preservation ip. Chemical	70 / N	\ \ \	/ / /	
Q 4	A118#1P: +#1 5: des	9.5.97 2:00	20.7	402 6/085		12E	× -			
016	., ,,					/	<u>×</u>			
D2D	A1194, P. +#1 Blow	α: <i>t</i> /	Q				× ~			
023	4))	/				,	× 			
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elinquished by:	einquished by:	Received by:	Ä.		Relinquished by:	ا ر ا\:		Date Received by:	Received by:	
Signature 100	Tohn William	Signeture	In	10 VE	Signature	3 1	The stand	1.1007	Signature	
Sompany Ap	Hache Corp.	Company		AA	Company	44	7	Time /0/30	Printed	
?eason		Reason.			Reason				Reason	
								After analysis, samples are to be:	mples are to be:	
Jethod of Shipment:		Comments:	iği						Disposed of (additional fee)	
inipment No.								Stor	Stored (30 days max)	
pecial Instructions: _	11								Stored over 30 days (additionন্ন fee)	•
									Returned to customer	



ASSAIGAI ANALYTICAL LABORATORIES, INC.



7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7250

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:

September 16, 1997 14:43

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9709108

WORK ID

: JICARILLA PIT CLOSURES

: APA01 CLIENT CODE

DATE RECEIVED : 09/12/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9709108-01A

Sample ID:

Collected: 97/11:00:00

Matrix: SOIL

Sample ID.				=		
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene		mg/kg mg/kg mg/kg mg/kg mg/kg	0.0050 0.0050 0.0050 0.010 0.0050	100 100 100 100 100	09/14/97 09/14/97 09/14/97 09/14/97 09/14/97	X97262 X97262 X97262 X97262 X97262

Lab ID: 9709108-01B

Sample ID TER #11 PIT & SIDES

Collected: 11:00:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID	
Diesel Range OG Soil/M8015 Diesel Range OG in Soil		mg/Kg	25	25	09/12/97	SDRO052	

Lab ID: 9709108-02A

Sample ID A 8 #11 PIT 2 BOTTOM

Collected: 09/08/97 11:30:00

Matrix: SOIL

Sample ID	Z. DOLLOH	112410					_
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID	
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	29.99.99.99.99.99.99.99.99.99.99.99.99.9	mg/kg mg/kg mg/kg mg/kg mg/kg	0.0050 0.0050 0.0050 0.010 0.0050	100 100 100 100 100	09/14/97 09/14/97 09/14/97 09/14/97 09/14/97	X97262 X97262 X97262 X97262 X97262	



Page: 2

Sample ID: 2009108-02B

Collected: 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	(50 0)	mg/Kg	25	25	09/12/97	SDRO052

William P. Biava

President

WORKORDER COMMENTS

DATE : WORKORDER:

: 09/16/97

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

Client Apache Corporation

Chain of Custory Record

Page

Project Manager / Contact <u>Jeff Cross</u>

ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8964

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

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116

MELQUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

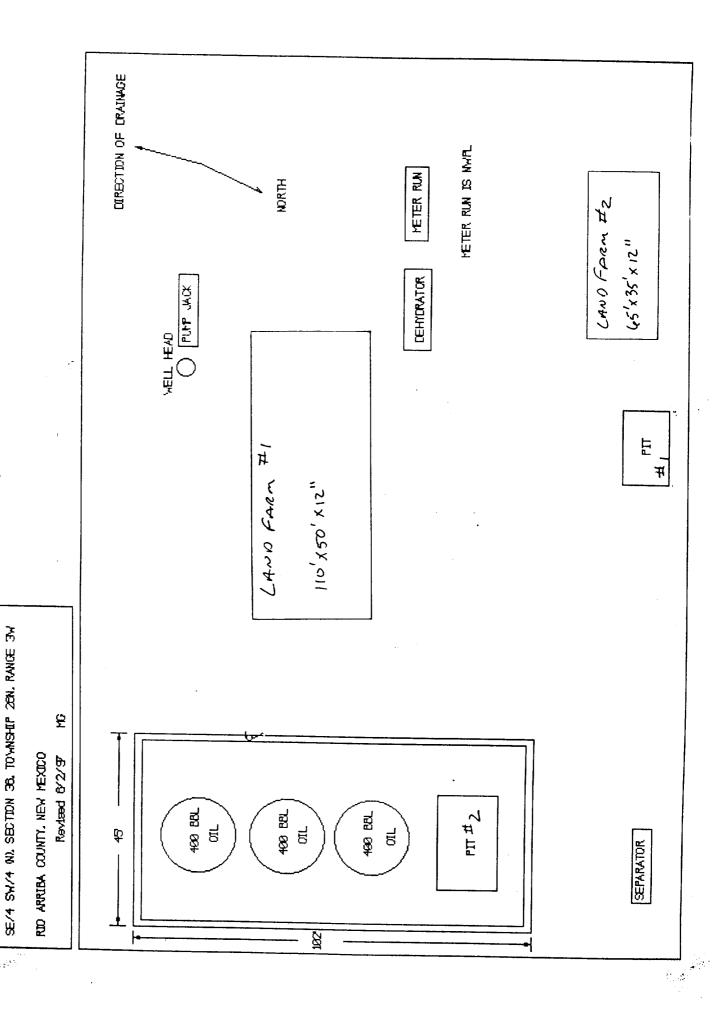
Remarks Stored over 30 days (additional) fee) Disposed of (additional fee) Stored (30 days max) After analysis, samples are to be: Analysis Required 12 Stot Signature Company Reason 05:01 Scott PVATI Temp. | Chemical 190 Preservation Telephone No. (505) 774-6643 Relinquished by Company Fax No. (505) 774-6624 Reason Type / Size of Container 402 4/255 Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature) 1:00 56:71 E C Received by: Comments: Company. Reason 9-8-92 Date City/State/ZipEarmington, NM 87401 4118 11 P. + # 2 Botton Ē Date Address 304 N. Behrend Contract / Purchase Order / Quote _ toache Corp Method of Shipment: 72F elinquished by: 016 410

Special Instructions:

Shipment No.

Signature

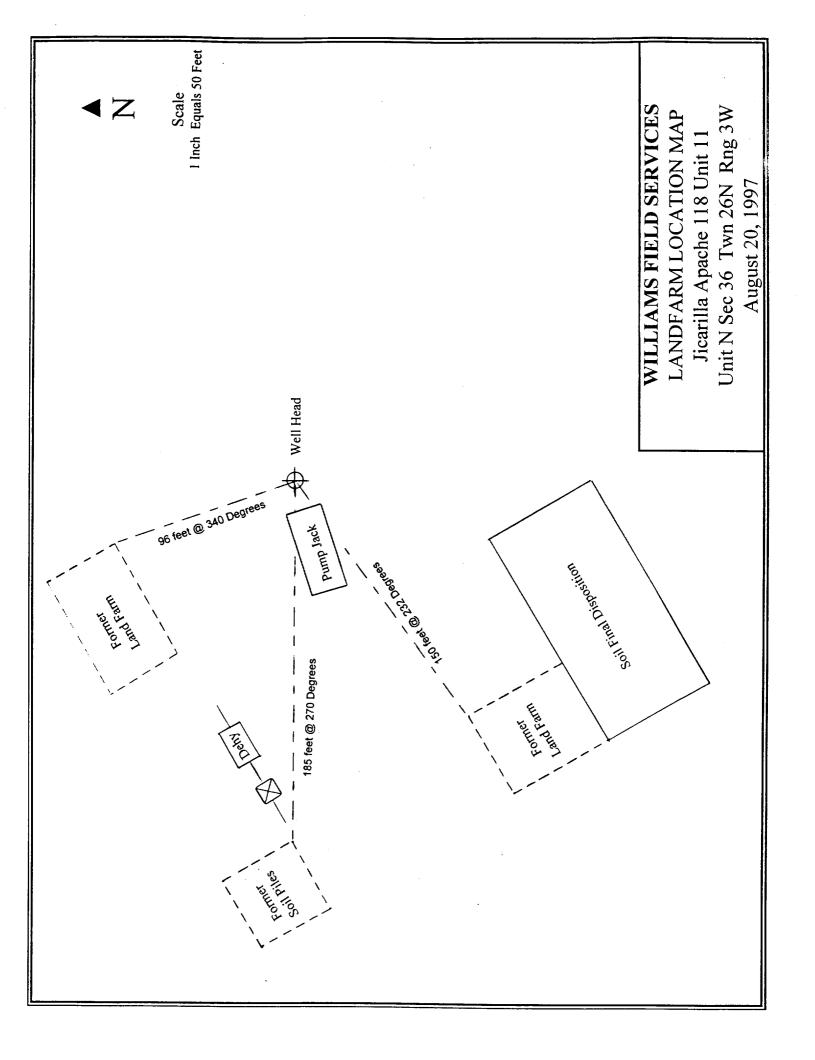
Company _ Reason Returned to customer



. .

H Y RETROLEM, JICARILLA APACHE 118 NUMBER 11 Lease # JAT A118

A. 100



M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

NW Corner

NE Corner

SW Corner

SE Corner

ρ

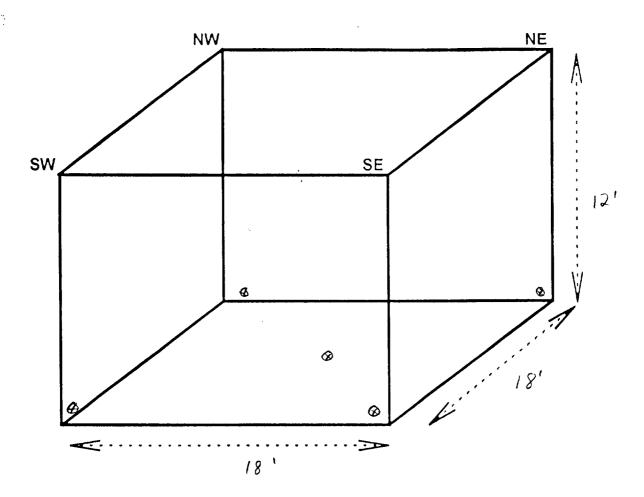
D

Jicarilla Apache Tribal EPO/OCD/BLM Review and Approval LOCATION JAT A-118 # 11 OCD-BLM EPO Representative 2 PIT COUNT Date of Review FINISH: PIT#1 9/5/97 PIT#1-8/2/97 8-27-97 /w. START: PIT#2 9/8/97 PIT#2 9/4/97 DIMENSIONS D CU YDS D W W 12' 84 18' 18 Pit 1 15' 15' 5' Pit 1 205 14' 24' 21' 3' Pit 2 Pit 2 15' 15' Pit 3 Pit 3 Pit 3 @ Pit 2 @ 14' Pit 1 @ 12' Pit 1 @ 9' Pit 2 @ 8' Pit 3 @ 87.8 60.3 Center 135.7 121 Center 58.4 31 **NW Corner** × p NW Corner 120.3 118.7 62.4 36.9 NE Corner 123 133 **NE Corner** 49.7 23.8 D SW Corner SW Corner 116.4 D 98.5 34.6 29.3 SE Corner SE Corner 100.7 105.2 NOTES: 8/27/97 START EXCAVATION ON PIT # 1, LIGHT STAINING AND ODOR. PIT CREW WENT ON VACATION. PID READINGS GOOD. 9/5/97 FINISHED EXCAVATION ON PIT # 1, NO STAINING OR ODOR, 9/4/97 START EXCAVATION ON PIT # 2, LIGHT STAINING AND ODOR. 9/8/97 FINISH EXCAVATION ON PIT # 2, PID READINGS GOOD. 9/5/97 9/8/97 SAMP DATE PER LAB Assaigai Pit 3 @ ANALYSIS RESULTS Pit 1 @ 12' Pit 2 @ 14' DATE **TPH BETEX** WITNESS 60.3 PIT 87.8 Center NW Corner 58.4 NO P 31 9/14/97 1400/ND ND J.C. 62.4 1 36.9 NE Corner 9/14/97 J.C. 2 2100/3700 ND 49.7 SW Corner 23.8 ۵ 3 SE Corner 29.3 34.6 RE-SAMPLE OR CELL(S) SAMPLE PER LAB ANALYSIS RESULTS Pit 1 @ Pit 2@ Pit 3 @ DATE: DATE WITNESS PIT **TPH** BETEX Center NO **NW Corner** ρ 1 1 NE Corner 2 SW Corner D 3 SE Corner RE-SAMPLE OR CELL(S) SAMPLE ANALYSIS RESULTS PER LAB Pit 3 @ Pit 1 @ Pit 2@ DATE: WITNESS DATE PIT **TPH** BETEX Center

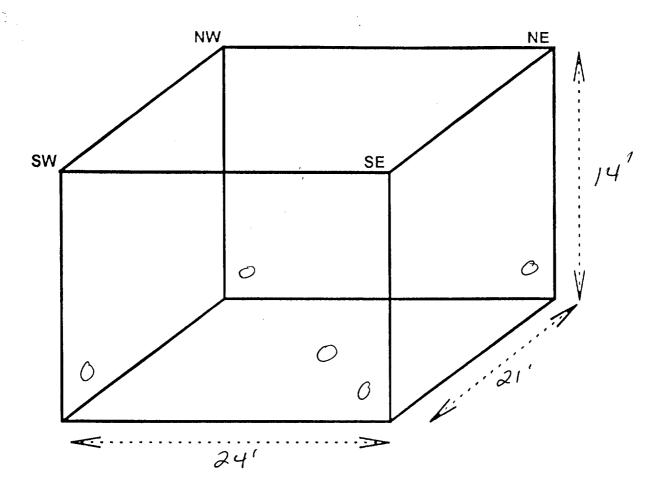
NO

1

2 3



		ari:	=	SAMPLE AREA
WELL NAI	ME	A 118#11 Pit #1		
SAMPLE	DATE	9-5-97		
NOTES	4 POIN	T COMPOSITE SAMPLE TAKEN 8" T	O 10" INTO PIT	milaire
	SIDEV	/ALL		
	1 POIN	NT GRAB SAMPLE TAKEN 10" TO 12	' INTO BOTTOM C	ENTER
		Sottem of Pit Rock		



								= SAMPLE A F	REA
WELL NAI	ИΕ		A 118#	11 Pit#	2				
SAMPLE	DATE		9-8						
NOTES	4 POIN	Т СОМРО	OSITE SA	MPLE TAI	KEN 8" TO	10" INT	TO PIT		
	SIDEV	'ALL							
	1 POIN	T GRAB	SAMPLE	TAKEN 10)" TO 12" I	NTO BO	OTTOM (CENTER	
		walls	. loch	good	Botten	a (oc	ous go	nad	
	v:								
							•		
				1			****		

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE		JAT A118 # 11		-	
* AMOUNT OF SOIL UNI	DERGOI	NG REMEDIATION	289	Yds.	
			SampDATE	TPH	BTEX
CELL No. 1			6/14/98	5200	ND
			11/11/98	ND	ND
DIMENSIONS(LxWxH)	110' X	(50' X 12"			
CELL LOCATION (dir. from w	ell head	NORTH			
* DATE BEGAN: 8/27/	/97				
DATE TERMINATED (TPH <	5,000 ppm/	BTEX< 50 ppm/Benzene < 10 ppm)	11-11-9	8	-
			SampDATE	TPH	BTEX
CELL No. 2			6/14/98	4600	ND
			11/11/98	ND	ND
DIMENSIONS(LxWxH)	65' X	35' X 12"			
CELL LOCATION (dir. from w	ell head	NORTH		 	
* DATE BEGAN: 8/27	/97				
DATE TERMINATED (TPH <	5,000 ppm/	BTEX< 50 ppm/Benzene < 10 ppm)	11-11-98	5	_
			SampDATE	TPH	BTEX
CELL No. 3					
DIMENSIONS(LxWxH)					
CELL LOCATION (dir. from w	vell head				
* DATE BEGAN:					
DATE TERMINATED (TPH <	5,000 ppm/	BTEX< 50 ppm/Benzene < 10 ppm)		-
REMEDIATION RECORD: (D	ate, Treatn	nent, Tilling)			
9/11/97 TREAT SOIL CELLS	WITH 46-0)-0 FERTILIZER,WATER,PLOW AN	ID TILL SOIL.		
4/23/98 PLOW AND TILL SO					
5/17/98 PLOW AND TILL SO		9/4/98 WATER,PLC		L.	·
6/3/98 WATER,PLOW AND 1		9/24/98 PLOW ANI			
6/11/98 PLOW AND TILL SO		10/14/98 PLOW AN	ID TILL SOIL.		
7/13/98 WATER, PLOW AND					
7/28/98 PLOW AND TILL SO					
8/12/98 PLOW AND TILL SO	IL.				

From excavation reports.

WELL NAME: SAMPLE DATE: DIMENSIONS:	JAT A118 # 11 CELL # 1 11/11/98 110' X 50' X 12"			0	= SAMPLE AREA
0	0		0		0
		0			O
0	0		0		0
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 11 POINT COMPOSITE SAMPLE	IO 12" INTO CELL.			

.

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WELL NAME: SAMPLE DATE: DIMENSIONS:	JAT A118 # 11 CELL # 2 11/11/98 65' X 35' X 12"	0	= SAMPLE AREA
0	0		0
	0		
0	0		0
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 8 POINT COMPOSITE SAMPLE		

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:	MW PETR	OLUEM			_Telephon	ie	505-325-0	0318	
Address:		2855 SOUTH	SIDE RI	VER ROAL	D/SUITE A	/ FARMING	TON N.M.	87401-7947	•
Facility or We	ll Name:	J <i>A</i>	AT A 118	#11 C	ELL#1				
Location:	Unit or Qtr	/Qtr Sec	N	SEC 36	T 26 N	R 3 W	_County	RIO ARR	IBA
Land Type		JIC. TRIBAL							
Date Remedia	ation Starte	ed: {	8/27/97		_Date Cor	npleted:		11/11/98	
Remediation I	Method:	Landfarmed		XXX	_Approx. o	cubic yards		204	
		Composted			_				
		Other			SOIL TO	BE PUT BA	ACK IN PIT		
Depth to Grou	ındwater:		(pts)	0		Final Clo	sure Samp	oling	
Distance to ar	n Ephemer	al Stream:	(pts)	0	Sampling	g Date:	11/11/98	Time:	10:25AM
Distance to N or Watering P		e, Playa,	(pts)	0	Sample I	Results:			
Wellhead Pro	tection Are	a:	(pts)	0	Field Heads	space (ppm)	0	_	
Distance To S	Surface Wa	iter:	(pts)	0	TPH	(ppm) <u>ND</u>	Method	M8015
RANKING SO	ORE (TO	TAL POINTS)		0	Oth	er BTEX \S	SW846 , 80	20A (NI	0)
I HEREBY CE KNOWLEDGI		IAT THE INFO LIEF	RMATIC	N ABOVE	S TRUE	AND COMP	LETE TO 1	THE BEST (OF MY
DATE:		11/25/98		PRINTED	NAME		JEFF CF	ROSS	
SIGNATURE		eff loo	2	TITLE		PROJEC	T MANAG	ER	
1		E SOIL REME JICARILLA A						N IS APPRO	OVED IN
APPROVED:	YES	\times	NO		_(REASO	N) hae	as	Bery	
SIGNED:	Ker	C Me	<u></u>	DATE:		-28-	98		-

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:	MW PETR	OLUEM			_Telephor	ne	505-325-0	0318	
Address:		2855 SOUTH	ISIDE RIV	/ER ROAD)/SUITE A	√ FARMING	TON N.M.	87401-7947	
Facility or W	ell Name:	J	AT A 118	# 11 CI	ELL # 2				,
Location:		/Qtr Sec _		SEC 36	T 26 N	R3W_	_County	RIO ARR	IBA
Land Type		JIC. TRIBAL							
Date Remed	iation Starte	ed:	8/27/97		_Date Cor	mpleted:		11/11/98	
Remediation		Landfarmed		xxx		cubic yards		84	
. Comodiation		Composted			_ ,,	•			
		Other			SOIL TO	BE PUT BA	ACK IN PIT	•	
Depth to Gro	oundwater:		(pts)	0		Final Clo	sure Sam _l	pling	
Distance to a	an Ephemer	al Stream:	(pts)	0	Samplin	g Date:	11/11/98	8_ Time:	10:35AM
Distance to l or Watering		e, Playa,	(pts)	0	Sample		^		
Wellhead Pr	rotection Are	;a :	(pts)	0	_]	Ispace (ppm) (ppm	0 n) <u>ND</u>	 Method	M8015
Distance To	Surface Wa	ater:	(pts)	0	Oth	ner BTEX \S)20A (NI)
RANKING S	CORE (TO	TAL POINTS)	0	-	<u></u>		.	
	CERTIFY TH	AT THE INFO	ORMATIC	N ABOVE	IS TRUE	AND COMF	PLETE TO	THE BEST	OF MY
DATE:		11/25/98		PRINTED	NAME		JEFF C	ROSS	
SIGNATUR	E	41 000	2	TITLE		PROJEC	T MANAG	ER	
AFTER REV	VIEW OF TH	HE SOIL REM E JICARILLA	IEDIATIO APACHE	N INFORM	NATION. (T CLOSUF	ON-SITE RE RE ORDINAI	MEDIATIC NCE.	N IS APPR	OVED IN
APPROVED	o: YES	; <u> </u>	NO		_(REASC	ON) use	مو	Back	full
SIGNED:	Ke	<u></u>	<u>a</u>	DATE:		2-28	-98		_



ASSAIGAI ANALYTICAL LABORATORIES, INC.

7300 Jefferson, NE • Albuquerque, New Mexico 87189 505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820 127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

APACHE CORPORATION attn: JEFF CROSS 2855 SOUTHSIDE RIVER RD STE A **FARMINGTON, NM 87401-7947**

	* explanation of codes
В	analyte detected in Method Blank
E	result is estimated
Н	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:

9811105

JICARILLA PIT CLOSURES

Client Sample ID	A118 #1	1 CEL	L #1	Sar Ma	mple SOIL				Sample Collected	11/11/98 10:25:00
						Dilution	Detection			Run
<u>Fraction</u>	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	<u>Limit</u>	*	Sequence	<u>Date</u>
			Test: SW846 8010B/8020A Purge	eable VOCs by GC/	PID-ELCD					
9811105-01A	X98513	71-43-2	Benzene	ND	mg/Kg	250	0.005		XG.1998.996-4	11/12/98
	X98513	100-41-4	Ethylbenzene	ND	mg / Kg	250	0.005		XG.1998.996-4	
	X98513	95-47-6	o-Xylene	ND	mg / Kg	250	0.005		XG.1998.996-4	
	X98513		P/M-Xylenes	ND	mg / Kg	250	0.01		XG.1998.996-4	
	X98513	108-88-3	Toluene	ND	mg / Kg	250	0.005		XG.1998.996-4	
			Test: SW846 8015A Diesel Rang	e Organics by GC/	FID					
9811105-01B	X98501		Diesel Range Organics	ND	mg/Kg	25	25		XG,1998.1006-5	11/13/98

Client Sample ID	A118 #1	1 CEL	L #2		mple SOIL trix	-			Sample Collected	11/11/98 10:35:00
						Dilution	Detection			Run
<u>Fraction</u>	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	Limit	*	Sequence	<u>Date</u>
			Test: SW846 8010B/8020A Purge	eable VOCs by GC/	PID-ELCD					
9811105-02A	X98513	71-43-2	Benzene	ND	mg / Kg	250	0.005		XG.1998.996-5	11/12/98
	X98513	100-41-4	Ethylbenzene	ND	mg/Kg	250	0.005		XG.1998.996-5	
	X98513	95-47-6	o-Xylene	ND	mg / Kg	250	0.005		XG.1998.996-5	
	X98513		P/M-Xylenes	ND	mg / Kg	250	0.01		XG.1998.996-5	
	X98513	108-88-3	Toluene	ND	mg / Kg	250	0.005		XG.1998.996-5	
			Test: SW846 8015A Diesel Rang	re Organics by GC	/FID					
9811105-02B	X98501		Diesel Range Organics	ND	mg/Kg	25	25		XG.1998.1006-6	11/13/98

Page 1 of 2

Client Reports

2.0

Report Date

11/17/98 4:21:29 PM



ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

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

7300 JEPTEMSON, ILE.
ALBUQUERQUE, IJEW MEXICO 87109
(505) 345-8964

Client APac	Client Apache Corporation	Project Manager / Contact Jeff Cross			
Address 28	Address 2855 Southside River RD, Ste. ATelephone No. (505) 774-6643	ATelephone No. (505) 774-6643	Anatysis	Analysis Required	
55000					···
City / State / Z	City/State/Zip Farmington, NM 87401-7947 Fax No. (505) 774-6624	Fax No. (505) 774-6624	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Project Name / Number	/ Number	Samplers: (Signature) Addumy Mitto	Z. Jourse .		Remarks
	•		NO3/		
Contract / Pur	Confract / Purchase Order / Quote		775/8		
AAL FRACTION NUMBER	Sample Number / Location Date Time	Sample Type / Size of Container Temp. Chemical			iş z

	2							Date Received by:	11.12.78 Signature	Time	Company Company	Reason	After analysis, samples are to be:	Disposed of (additional	Stored (30 days max)	[] Stored over 30 days (ad. tee)	Returned to customer
11/98 10:05 Soil 4 02 9 1858 ICE V	402 9 1856	70/38						Becaused hy:	Signature Jam. P. Basis	Printed	Comp. TWL JAC. Company	Rec (D) 1 NWA		Сопшемз.			
A 118# 11 CELL# 1 11/11/91	1 1 1 21	24 / 2	28 5 7 2					Date	Signature Child Path Day	11/1// 48		Reason		Wethod of Shipment:	Shloment No.	Special incinicipans	