District III

1000 Rio Brazos Rt - 2.

Fire Minerals and Natural Resources Department

Aztec, NM 87410 GAS INSPECTOR

FEB 0 8 1999

State of New Mexico

OIL CONSERVATION DIVISION

2040 S. PACHECO Santa Fe, New Mexico 87505 Submit 1 copy to Appropriate District and 1 copy to Santa Fe Office

PIT REMEDIATION AND CLOSURE REPORT

F 1/1/	V/DV tell 1								nev?
Operator:	Apache Corporation \ MW Petro	oleum		Telephone	:		506325 0	3160) 10 b	
\ddress:	2855 Southside River Road, Su	ite A, Farm	ington, NI	N 87401					
acility or	Well Name:	Jic Apache Tribal 124 #2							
Location:	Unit or Qtr/Qtr Sec	SE/NW	Sec 23	T 25 N	R	4W	County	Rio Arriba	
Pit Type:	Separator:	_Dehydrato	ſ	_Other	Blo	w Pit			
Land Type	e:Jicarilla Tribal				_				
	Beginning Pit Dimensions:	Length	35	S' Width	h	40	Dept	h2'	
Pit Location		Length	50	<u>)'</u> Width	h	40	_ Dept	h <u>6'</u>	
(Attach di	agram) Reference:	Wellhead	XXX	_Other			 _		
	Footage from reference:		20	0'	_				
	Direction from reference:		90	Degrees		XX_	_East	North _	
							_West	South _	
(vertical dis	o Groundwater: stance from ints to seasonal elevation of			Less than 50 feet to Greater t	99 f	eet	t	(20 points) (10 points) (0 points)	0
groundwate Wellhea (Less the domestic							Yes No	(20 points) (0 points)	0
(Horizor lakes, p	e To Surface Water: ntal distance to perennial onds, rivers, streams, creeks, n canals and ditches)			Less tha 200 feet Greater RANKIN	t to 16 than	000 fee 1000 f		(20 points) (10 points) (0 points) OINTS)	

Date Remediation Star	rted:	6/27/97		Date Comple	eted:	6/30/97
Remediation Method: (Check all appropriate		Excavation	xxx	Approx. cub	ic yards	296
sections)	Landfarmed		XX	Insitu Biorer	nediation	
		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 6' , too	ok PID reading	s. Spread soil on
location for	remediation. Took	soil sampl	les.			
			·			
Groundwater Encoun	tered:	No	XX	Yes.		Depth
Final Pit:	Sample location		4 point com	posite sample	taken from pit sid	ewalls. Grab sample
Closure Sampling: (in multiple samples,		taken from p	pit bottom cer	nter.		
attach sample results and diagram of sample	Sample depth	6'	8 to 10" ii	nto pit sidev	valls 10" into p	it bottom
locations and depths)	Sample Date Sample results		6/30/97	7	Sample Time	11:50 AM
	Benzene		(ppm)	ND		
	Total BTEX		(ppm)	ND		
	Field Headspace		(ppm)	0		
	ТРН			Side/2900 Btm/3100		
Groundwater Sample) :	Ye	s	_ No	XX(If)	yes attach sample results)
I HEREBY CERTIFY I KNOWLEDGE AND E	THAT THE INFORMA	ATION ABO	VE IS TRU	E AND COM	PLETE TO TH	E BEST OF MY
	THAT THE INFORMA		PRINTEE		Jeff Cross	E BEST OF MY

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

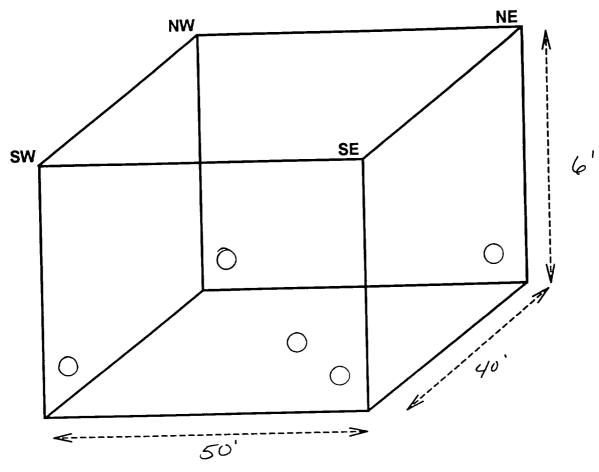
PIT REMEDIATION AND CLOSURE REPORT

Operator:	MW	PETROLEUM			_Telephone	505-3	25-0318		
Address:	2855	SOUTHSIDE R	VER ROAD	/ SUITE A	/ FARMING	STON N.M	1. 87401-79	947	
Facility or W	ell Na	me:	JAT 124# 2	2					
Location:	Unit	or Qtr/Qtr Sec	SEWW	SEC 23	T 25N	R 4W	_County	RIO ARRIBA	
Pit Type:	Sepa	arator:	_Dehydrato	r	_Other	BLOW P	IT		
Land Type:		JIC. TRIB	AL						
Pit Location: (Attach diagr	am)	Pit Dimensions:	Length Wellhead	50'	_ Width _Other	40'	Dep	oth <u>6</u> '	
		Footage from re		<u>200'</u> 90	Degrees	- XX	East	North _	
					_		West	of South _	
Depth To G	round	dwater:			Less than	50 feet		(20 points)	
(vertical distance					50 feet to	99 feet		(10 points)	
contaminants to high water eleva groundwater)	season	nal			Greater th	nan 100 fe	et	(0 pcints) _	0
Dietanes to	an E	phemeral Strear	n•		Less than	100 feet		(10 points)	
	ent dry	wash greater th				nan 100 fe	et	(0 points)	
Distance to	Noar	est Lake, Playa,	or Waterin	a Pond:	Less than	100 feet		(10 points)	
(Downgradie	ent lak	kes, playas and fe watering ponds				nan 100 fe	et	(0 points)	0
Wellhead P	rotect	tion Area:				Υ	es	(20 points)	
(Less than 2 domestic wa	200 fee ater so	et from a private ource, or less tha other water sour					No	(0 points)	0
Dieta : a T		food Water			I ass than	100 feet		(20 points)	
1		face Water: ce to perennial				to 1000 fe	et	(10 points)	
E \		ers, streams, cree	ks,			han 1000		(0 points)	0
irrigation ca	•				RANKING	S SCORE	(TOTAL P	OINTS)	0

ate Remediation Starte	d: 6/27/97	7	_Date Complet	ed: <u>6/30/97</u>		
Remediation Method:	Excavation	XXX	Approx. cubic	yards	296	
Check all appropriate ections)	Landfarmed	XX	_ _Insitu Biorem	ediation		
	Other					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		e XX				
General Description of	Remedial Action: E	xcavate pit	to 6',took PID	readings. spread s	oil on	
location fo	or remidiation. Took	soil samp	ies.			
Groundwater Encounte	red: N	lo xxx	Yes _	Depth		
Final Pit: Closure Sampling:	Sample location			from pit sidewalls.	OM CENTER	R
(in multiple samples, attach sample results and diagram of sample locations and depths) Sample Da Sample re	ate		into pit side wa	alls ,10" into pit bottor Sample Ti <u>me</u>		
Sample re Soil:	Benzene	(ppm)	ND\	Water: Benzene	(ppb)	NA
	Total BTEX	(ppm)	ND	Toluene	(ppb)	NA
	Field Headspace	(ppm)	0	Ethylbenzene	(ppb)	NA_
	TPH	(ppm)	2900\SIDE 3100\BTM	Total Xylenes	(ppb)	NA_
Groundwater Sample:		es	No			
I HEREBY CERTIFY TI KNOWLEDGE AND BE	HAT THE INFORMA	TION ABO	VE IS TRUE A	ND COMPLETE TO	THE BEST (OF MY
DATE	5/7/98	PRINTE	ED NAME	JEFF CF	ROSS	
SIGNATURE	est was	AND TI	TLE	PROJEC	T MANAGE	₹
AFTER REVIEW OF T	HE PIT CLOSURE II CHE TRIBE PIT CLO	NFORMATI SURE ORI	ON, PIT CLOS DINANCE.	URE IS APPROVED	IN ACCOR	DANCE TO
APPROVED: YE	s_ <u>X</u>	NO	(REASON)		
SIGNED:	-CMan		DATE:	5-7-98		

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

CAT	COVATION SOUNT -	AT 124 # 2		Jicarilla Apache Tribal EPO/OCD/BLM Review and Approval OCDBLM EPO Representative Date of Review					
	_				FINISH:	6/30/97		7	
	START:	6/27/97			FINISH.	0/30/37			
MENS	SIONS					W	L	D	CU YDS
	W	L	D 2'	Pit 1	******	40'	50'	6'	296
Pit 1	35'	40'		Pit 2					
Pit 2				Pit 3					
Pit 3			ļ				Pit 1 @	Pit 2 @	Pit 3 @
		Pit 1 @	Pit 2 @	Pit 3 @	***********	Oratos	1111	 	
	Center					Center	 	 -	
ρ	NW Corner		<u> </u>		P	NW Corner	 	+	
1	NE Corner				1	NE Corner	 		+
	SW Corner				D	SW Corner			
•	SE Corner					SE Corner			
IOTES	<u>. </u>			, EXCAVATE TO					
P	SAMP DATE Center NW Corner	6/30/9 Pit 1 @6' 0		Pit 3 @	PIT NO	SIS RESULTS TPH SIDE\BTM	BETEX SIDE\BTM		Assaigai S DATE
P	Center NW Corner NE Corner	Pit 1 @6' 0 0 0		Pit 3 @	PIT NO 1	TPH	BETEX SIDE\BTM	WITNES	S DATE
	Center NW Corner	Pit 1 @6' 0 0 0 0		Pit 3 @	PIT NO 1 2	TPH SIDE\BTM	BETEX SIDE\BTM	WITNES	S DATE
1	Center NW Corner NE Corner	Pit 1 @6' 0 0 0			PIT NO 1 2 3	TPH SIDE\BTM 2900/3100	SIDE\BTM ND/ND	WITNES	S DATE
1	Center NW Corner NE Corner SW Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE	PIT NO 1 2 3 COR CEL	TPH SIDE\BTM 2900/3100	BETEX SIDE\BTM ND/ND	J.C.	S DATE
1	Center NW Corner NE Corner SW Corner SE Corner	Pit 1 @6' 0 0 0 0			PIT NO 1 2 3 OR CEL ANALY	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS	BETEX SIDE\BTM ND/ND	J.C. PER LAB	7/8/97
-0	Center NW Corner NE Corner SW Corner SE Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE	PIT NO 1 2 3 E OR CEL ANALY PIT	TPH SIDE\BTM 2900/3100	BETEX SIDE\BTM ND/ND	J.C. PER LAB	7/8/97
-0	Center NW Corner NE Corner SW Corner SE Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE	PIT NO 1 2 3 OR CEL ANALY	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS	BETEX SIDE\BTM ND/ND	J.C. PER LAB	7/8/97
I D DATE	Center NW Corner NE Corner SW Corner SE Corner Center NW Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE	PIT NO 1 2 3 E OR CEL ANALY PIT	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS	BETEX SIDE\BTM ND/ND	J.C. PER LAB	7/8/97
DATE	Center NW Corner NE Corner SW Corner SE Corner : Center NW Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE	PIT NO 1 2 3 E OR CEL ANALY PIT NO	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS	BETEX SIDE\BTM ND/ND	J.C. PER LAB	7/8/97
I D DATE	Center NW Corner SW Corner SE Corner Center NW Corner NE Corner SE Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE	PIT NO 1 2 3 E OR CEL ANALY PIT NO 1	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS	BETEX SIDE\BTM ND/ND	J.C. PER LAB	7/8/97
DATE	Center NW Corner NE Corner SW Corner SE Corner : Center NW Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE Pit 3 @	PIT NO 1 2 ANALY PIT NO 1 2 3	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS TPH	BETEX SIDE\BTM ND/ND BETEX	J.C. PER LAB WITNES	7/8/97
DATE	Center NW Corner SW Corner SE Corner Center NW Corner NE Corner SE Corner	Pit 1 @6' 0 0 0 0 0 Pit 1 @	Pit 2 @	RE-SAMPLE Pit 3 @ RE-SAMPLE	PIT NO 1 2 ANALY PIT NO 1 2 3 E OR CEL	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS TPH L(S) SAMPLE	BETEX SIDE\BTM ND/ND BETEX	J.C. PER LAB	7/8/97
DATE	Center NW Corner SW Corner SE Corner Center NW Corner NE Corner SE Corner	Pit 1 @6' 0 0 0 0 0	Pit 2 @	RE-SAMPLE Pit 3 @	PIT NO 1 2 ANALY PIT NO 1 2 3 E OR CEL ANALY	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS TPH L(S) SAMPLE (S) SAMPLE (S) SAMPLE	BETEX SIDE\BTM ND/ND BETEX	J.C. PER LAB WITNES PER LAB	S DATE 7/8/97 S DATE
DATE	Center NW Corner SW Corner SE Corner Center NW Corner NE Corner SE Corner	Pit 1 @6' 0 0 0 0 0 Pit 1 @	Pit 2 @	RE-SAMPLE Pit 3 @ RE-SAMPLE	PIT NO 1 2 3 E OR CEL ANALY PIT ANALY PIT	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS TPH L(S) SAMPLE	BETEX SIDE\BTM ND/ND BETEX	J.C. PER LAB WITNES PER LAB	S DATE 7/8/97 S DATE
DATE	Center NW Corner SW Corner SE Corner Center NW Corner NE Corner SW Corner SW Corner	Pit 1 @6' 0 0 0 0 0 Pit 1 @	Pit 2 @	RE-SAMPLE Pit 3 @ RE-SAMPLE	PIT NO 1 2 ANALY PIT NO 1 2 3 E OR CEL ANALY	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS TPH L(S) SAMPLE (S) SAMPLE (S) SAMPLE	BETEX SIDE\BTM ND/ND BETEX	J.C. PER LAB WITNES PER LAB	S DATE 7/8/97 S DATE
DATE P DATE DATE	Center NW Corner SW Corner SE Corner Center NW Corner SE Corner SW Corner SW Corner SE Corner	Pit 1 @6' 0 0 0 0 0 Pit 1 @	Pit 2 @	RE-SAMPLE Pit 3 @ RE-SAMPLE	PIT NO 1 2 3 E OR CEL ANALY PIT ANALY PIT	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS TPH L(S) SAMPLE (S) SAMPLE (S) SAMPLE	BETEX SIDE\BTM ND/ND BETEX	J.C. PER LAB WITNES PER LAB	S DATE 7/8/97 S DATE
DATE P I D DATE	Center NW Corner SW Corner SE Corner Center NW Corner SW Corner SW Corner SW Corner SE Corner Center NW Corner SE Corner	Pit 1 @6' 0 0 0 0 0 Pit 1 @	Pit 2 @	RE-SAMPLE Pit 3 @ RE-SAMPLE	PIT NO 1 2 3 E OR CEL ANALY NO 1 2 3 E OR CEL ANALY PIT NO 1 1 PIT NO 1 1 PIT NO 1 1 PIT NO 1 1 PIT NO	TPH SIDE\BTM 2900/3100 L(S) SAMPLE SIS RESULTS TPH L(S) SAMPLE (S) SAMPLE (S) SAMPLE	BETEX SIDE\BTM ND/ND BETEX	J.C. PER LAB WITNES PER LAB	S DATE 7/8/97 S DATE



						\bigcirc	= SAMF	PLE AREA
WELL NAM	1E	····	JAT 124#	2		_		
SAMPLE D	ATE		6/30/97			_		
					40!!	INTO DI	Γ .	
NOTES	4 POIN	T COMPO	SITE SAMPL	E TAKEN	8" 10 10"	INTOPI	<u> </u>	
	SIDEV	VALL						
•	1 POIN	NT GRAB S	SAMPLE TAP	KEN 10" T	O 12" INTO	вотто	M CENTE	<u>R</u>



ASSAIGAI ANALYTICAL LABORATORIES, INC.

AUG 4 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: July 11, 1997 14:50

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

: 9707038 WORKORDER #

: JICARILLA PIT CLOSURES WORK ID

: APA01 CLIENT CODE

DATE RECEIVED : 07/04/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9707038-01A

Collected: 06/30/97 11:50:00

Matrix: SOIL

Sample ID: JAT 124 #2 SIDES		Matrix: SO	1 L			
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	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	07/08/97 07/08/97 07/08/97 07/08/97 07/08/97	SBTXME175 SBTXME175 SBTXME175 SBTXME175 SBTXME175

Lab ID: 9707038-01B

Collected: 06/30/97 11:50:00

Matrix: SOIL

Sample ID: JAT 124 #2 SIDES		Matrix: SO	T 17			
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	2900	mg/Kg	50	25	07/09/97	SDRO040

Lab ID: 9707038-02A

Collected: 06/30/97 12:00:00

Matrix: SOIL

Lab ID: 9707038-02A		Matrix: SO	ТT			
Sample ID: JAT 124 #2 BOTTOM 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	07/08/97 07/08/97 07/08/97 07/08/97 07/08/97	SBTXME175 SBTXME175 SBTXME175 SBTXME175 SBTXME175



Page:2

) ID: 9707038-02B Sample ID: JAT 124 #2 BOTTOM

Collected: 06/30/97 12:00:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	3100	mg/Kg	50	25	07/09/97	SDRO040

William P. Biava

President

WORKORDER COMMENTS

: 07/11/97 DATE

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"

 $\overline{\text{NT}}$ = 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 Custody Record

7038 Lab job no.: ...

Page -

Project Manager / Contact __Jeff__Cross

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

ALBUQUERUUE, NEW MEANUU 47 143 (505) 345-8964

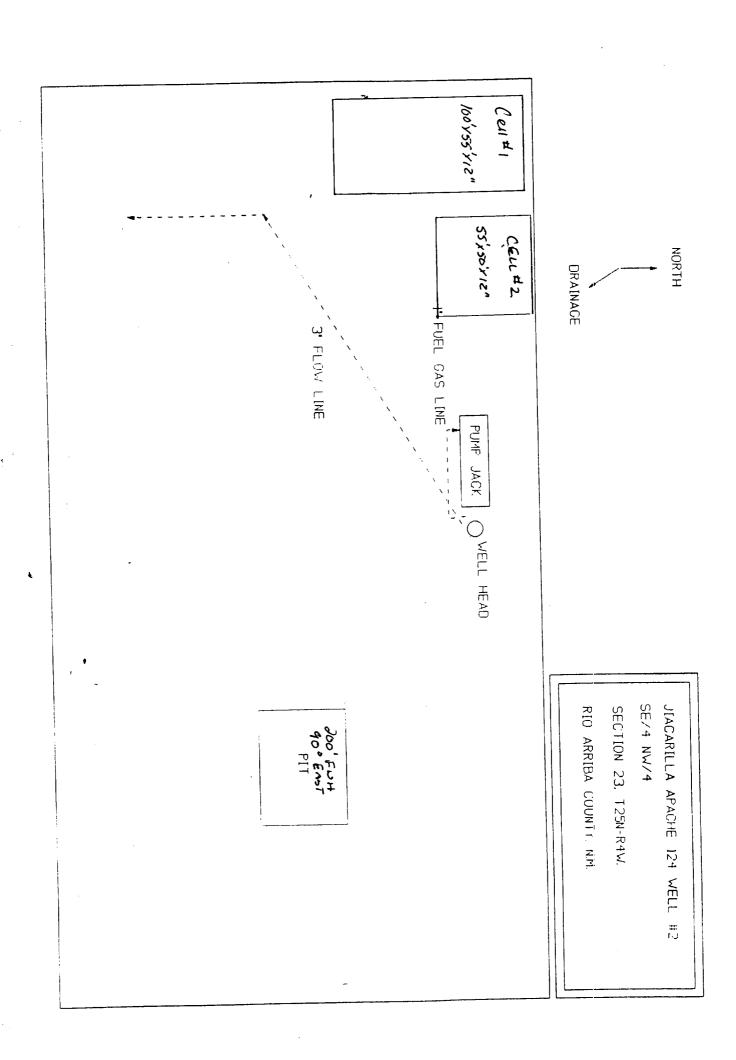
1914 ... IG SPRING MIDLAND, TEXAS 79705 (915) 570-1116

MELQUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Analysis Required

Designation States Reserved to the states of	,		Pale Received by: Caula Rubar O 7-7-4) Signature Printed Time Company AAC CAAM Reason After analysis, samples are to be:	Stored (30 days max) Stored over 30 days (additional fee) Returned to customer
304 N. Behrend **Period State of the state	A SAT 124#28ston 1240	2-48 1 12:00 1 1 1 1 1 1 1 1 1	Reinquished by: Signature Company CAPCACCOP Time CAPCACCOP TIME COMPANY CAPCACCOP TIME C	Shipment No
			# # & & & # #	

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:	M W PETR	ROLUEM			Telephone		505-325-0	0318	
Address:		2855 SOUTHS	SIDE RI	VER ROAD	/SUITE A/I	FARMING]	TON, N.M.	87401-7947	
		JA							
Location:		/Qtr Sec _S				R4W	County	RIO ARRII	ВА
		JIC. TRIBAL							
Date Remed	iation Starte	ed: 6	6/27/97		Date Com	pleted:		8/17/98	
		Landfarmed			_Approx. cı	ubic yards		200	
		Composted			-				
		Other			REMEDIA	TED SOIL	TO BE SF	PREAD ON L	OCATION.
Depth to Gr	oundwater:		(pts	s) <u> </u>		Final Clo	sure Sam	pling	
Distance to	an Epheme	ral Stream:	(pts	s)0	Sampling	Date:	8/17/9	B_Time:	1:15PM
Distance to or Watering	Nearest Lak Pond:	ke, Playa,	(pts	s) 0	Sample F	Results:	0		
Wellhead P	rotection Ar	ea:	(pt	s) <u> </u>				Method	M8015
Distance To	Surface W	ater:	(pt	s)0	1			020A (NI	0)
		TAL POINTS)		0	_	 .			
I HEREBY KNOWLED	CERTIFY T	HAT THE INFO	ORMAT	ION ABOVE	IS TRUE	AND COM	PLETE TO	THE BEST	OF MY
DATE:		9/14/98		PRINTE				CROSS	
SIGNATUR	RE	off hor	,	TITLE		PROJEC	CT MANA	GER	
AFTER RE	VIEW OF T	HE SOIL REM HE JICARILLA	EDIATI APACH	ON INFORM IE TRIBE PI	MATION. C	ON-SITE RI RE ORDINA	EMEDIATI NCE.	ON IS APPR	OVED IN
APPROVE	:D: YE	s_X	٨	10	(REASC)N)			
SIGNED:	Kie	CMa-	ll	DATE:		-/3-5	78		

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:	M W PETR	ROLUEM			Telephon	e	505-325-0)318	
Address:		2855 SOUTHS			/SUITE A	/FARMING	TON, N.M.	87401-7947	
		JA							
Location:		/Qtr Sec _S				R4W	County	RIO ARRIE	ВА
		JIC. TRIBAL							
Date Remed	liation Starte	ed: 6	/27/97		Date Cor	mpleted:		8/17/98	
Remediation					Approx.	cubic yards		96	
		Composted			-				
		Other			REMED	IATED SOIL	TO BE SF	PREAD ON L	OCATION.
Depth to Gr	oundwater:		(pts	s) <u> </u>		Final Cl	osure Sam	pling	
	an Epheme	ral Stream:	(pt	s)0	Samplin	ng Date:	8/17/9	8_Time:	1:25PM
Distance to or Watering	Nearest La	ke, Playa,	(pt	s) 0		Results:	0		
Wellhead F	Protection A	rea:	(pt	s)0	ľ	-		Method	M8015
Distance T	o Surface W	/ater:	(pt	s)0	1			8020A (N	D)
RANKING	SCORE (TO	OTAL POINTS)	0	4				
I HEREBY KNOWLEI	CERTIFY TOGE AND B	HAT THE INFO	ORMAT	ION ABOVE	IS TRU	E AND COM	IPLETE TO	THE BEST	OF MY
DATE:		9/14/98		PRINTE	D NAME		JEFF	CROSS	
SIGNATU	RE A	ff lion		TITLE		PROJE	CT MANA	GER	
	- (/ -) ((E) (A) (OE)	THE SOIL REM HE JICARILLA	MEDIAT APACI	ION INFORI HE TRIBE P	MATION. IT CLOS	ON-SITE F JRE ORDIN	REMEDIAT ANCE.	ION IS APPE	ROVED IN
		ES X							
SIGNED:	L ē	CM	<u>e</u>	DATE:		11-13	-98		

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	JAT 124 # 2			-	
* AMOUNT OF SOIL UNDERG	OING REMEDIATION		296	Yds.	
			SampDATE	TPH	BTEX
CELL No1			8/17/98	1900	ND
<u>——</u>					
DIMENSIONS(LxWxH) 10	0' X 55' X 12"	-			
CELL LOCATION (dir. from well hea	d WEST	•			
* DATE BEGAN: 6/27/97					
DATE TERMINATED (TPH <5,000 p	opm/BTEX< 50 ppm/Benzene <	< 10 ppm)	8/17/9	8	
			SampDATE		BTEX
2			8/17/98	770	ND
CELL No. 2					
DIMENSIONS(LxWxH) 55	5' X 50' X 12"	_		 	
CELL LOCATION (dir. from well hea	ad WEST	_			
* DATE BEGAN: 6/27/97		40	8/17/9	28	
DATE TERMINATED (TPH <5,000	ppm/BTEX< 50 ppm/Benzene	< 10 ppm)	0/17/		-
			SampDATE	TPH	BTEX
3					
CELL No. 3					<u> </u>
DIMENSIONS(LxWxH)					
CELL LOCATION (dir. from well he	ead	_			
* DATE BEGAN:					
		< 10 nnm)			
DATE TERMINATED (TPH <5,000	ppm/BTEX< 30 ppm/Bchzene	, - 10 pp,			
REMEDIATION RECORD: (Date,	Treatment, Tilling)				
6/30/97 TREAT SOIL WITH 46-0-0) FERTILIZER, WATER, PLOW	AND TILL	SOIL.		
7/15/97 PLOW AND TILL SOIL CE	LLS.				
7/24/97 PLOW AND TILL SOIL CE	LLS6/25/98	PLOW AND	TILL SOIL. OW AND TILL S	OIL.	
8/7/97 WATER, PLOW AND TILL		DI OVALANIE	TILL SOIL.		
4/20/98 PLOW AND TILL SOIL CE	ELLS. //23/98	PLOW AND	TILL SOIL		
5/12/98 PLOW AND TILL SOIL CE	ELLS. 8/7/98 F	LOW AND	TILL SOIL.		
5/28/98 WATER, PLOW AND TILL	SOIL. 8/14/98	PLOW AND	TILL SOIL.		
6/10/98 PLOW AND TILL SOIL.					

From excavation reports.

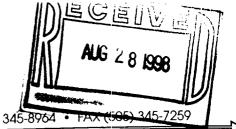
= SAMPLE AREA ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 12 point composite sample JA7 124#2 Cell#1 100' x55' x12" SAMPLE DATE: WELL NAME: DIMENSIONS: NOTES:

; ;;>

= SAMPLE AREA 0 And I ALL SAMPLES TAKEN 10" TO 12" INTO CELL. Spoint composite SAMPR SAT 124 #2 Cell #2 55'x50'x12" 85-11-8 SAMPLE DATE: DIMENSIONS: WELL NAME: NOTES:



ASSAIGAI ANALYTICAL LABORATORIES, INC.



7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 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
8	analyte detected in Method Blank
E	result is estimated
н	analyzed out of hold time
v	tentatively identified compound
S	subcontracted
-9	see footnote

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: APACHE CORPORATION

Project: 9808190 JICARILLA PIT CLOSURES

William P. Biava. President of Assaiga Analytical aboratories, Inc.

Client Sample ID	JAT 124	#2 CEL	_ #1	Sam Matr				Sample Collected	08/17/98 13:15:00
						Dilution	Detection		Run
raction	QC Group	CAS#		Result	<u>Units</u>	Factor	<u>Limit</u> "	Sequence	<u>Date</u>
		To	st: SW846 8010B/8020A Purge	able VOCs by GC/F	ID-ELCD			7	08/21/98
	X98390	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.702-13	08/21/90
808190-01A	X98390	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.702-13	
	X98390	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.702-13	
	X98390		P/M-Xylenes	ND	mg / Kg	50	0.01	XG.1998.702-13	
	X98390	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.702-13	
			st: SW846 8015A Diesel Rang	e Organics by GC/	FID			···	00104109
9808190-01B	X98389	·	Diesel Range Organics	1900	mg / Kg	25	25	XG.1998.699-18	08/21/98
Client Sample ID	JAT 124	#2 CEL	L #2	Sar Ma	nple SOIL	•		Sample Collected	08/17/98 13:25:00
Sample ID									Run
Sample ID						Dilution	Detection		
	QC Group	CAS#		Result	<u>Units</u>	Dilution <u>Factor</u>	Limit *	Sequence	Date
	QC Group		est: SW846 8010B/8020A Purge	 _		Factor	<u>Limit</u> *		<u>Date</u>
Fraction			est: SW846 8010B/8020A Purg Benzene	 _		Factor 50	<u>Limit</u> *	XG.1998.702-19	
Fraction	X98390	Te		eable VOCs by GC	PID-ELCD	<u>Factor</u> 50	0.005 0.005	XG.1998.702-19 XG.1998.702-19	<u>Date</u>
Fraction	X98390 X98390	71-43-2	Benzene	eable VOCs by GC/	PID-ELCD mg / Kg mg / Kg	50 50 50	0.005 0.005 0.005	XG.1998.702-19 XG.1998.702-19 XG.1998.702-19	<u>Date</u>
Fraction	X98390	71-43-2 100-41-4	Benzene Ethylbenzene	eable VOCs by GC/	PID-ELCD mg / Kg mg / Kg mg / Kg	50 50 50 50	0.005 0.005 0.005 0.005	XG.1998.702-19 XG.1998.702-19 XG.1998.702-19 XG.1998.702-19	<u>Date</u>
Fraction	X98390 X98390 X98390	71-43-2 100-41-4	Benzene Ethylbenzene o-Xylene	eable VOCs by GC/ ND ND	PID-ELCD mg / Kg mg / Kg	50 50 50	0.005 0.005 0.005	XG.1998.702-19 XG.1998.702-19 XG.1998.702-19	<u>Date</u>
Fraction 9808190-02A	X98390 X98390 X98390 X98390	71-43-2 100-41-4 95-47-6	Benzene Ethylbenzene o-Xylene P/M-Xylenes	ND	mg / Kg	50 50 50 50	0.005 0.005 0.005 0.005	XG.1998.702-19 XG.1998.702-19 XG.1998.702-19 XG.1998.702-19	<u>Date</u>

Page 1 of 2

Client Reports

2.0

Report Date

8/25/98 10:04:49 AM

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: APACHE CORPORATION

Project: 9808190 JICARILLA PIT CLOSURES

 Page 2 of 2
 Client Reports
 2.0
 Report Date
 8/25/98 10:04:49 AM

^{***} Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. ***

*** Results relate only to the items tested. ***

0618 - Se 68 42

Cilain oi Custody Record

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Project Manager / Contact __Jeff__Cross

of Apache Corporation

(505)	3332 WEDGEWOOD EL PASO, TEXAS 79925	0000 000
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ALBUQUEHQUE, NEW MEXICO 87109 (505) 245-8964

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116 MELQUIADES ALANIS
6411 LOCAL UNO '
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320 (915) 593-6000

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State / ZipEarmington, NM 87401-7947	gton, NM 874	401-79	47	Fax No.	Fax No. (505) 774-6624	624		_	150/	//	////	
ect Name / Number JICARILLA PIT CLOSURES	CARILLA PIT	15073	Ŋ	Sample	Samplers: (Signature)	· 1	Con	BJO UJOJUC	8 Pour			Remarks
tract / Purchase Order / Quote	/ Quote							22/0/04	700			
	Field Location	Date	amt.	Sample	Type / Size of Container	Pre-	Preservation p. Chemical) } -	/ / 次	_		
1A JAT124#2	Cel #1	8-17-98 1:15 502	1:12	25.	402 alass			× -				
31		_	1:15 Soil	20,7	402 91455		TCE	× -				
2A JATIZY #2	#2 Cell #2		1.25	_	,		l	I			-	
76	1		1:22					X 				
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My AGACKS C.	510		Company	Del sveny	IKW.	Company	1	ysy)	547)		Company 08/21/4804W	9804w.
									After analysis, samples are to be:	s. samples :	ure to be:	
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ent No.		1								Stored (30 days max)	days max)	
J Instructions:										Stored over	Stored over 30 days (additional fee)	î
		- - 								Returned to	Returned to customer	

LABORATORY