District In State of New Mexico

1000 R DEPENDENCIA Energy, Minerals and Natural Resources Department

Aztec, NM 87410

JAN 2 7 1989

OIL CONSERVATION DIVISION 2040 S. PACHECO

Santa Fe, New Mexico 87505

Submit 1 copy to

Appropriate District
and 1 copy to

Santa Fe Office

DECEIVED

FIREMEDIATION AND CLOSURE REPORT

erral Sfray		<u></u>				(0	DIII. COI	
Operator:	Apache Corporation \ MW Pet	roleum		Telephone	:	505-325-0	318 PIST	I. 3
Address:	2855 Southside River Road, S	uite A, Farm	ington, NN	87401				
Facility or V	Vell Name:	Jic Apach	e Tribal 39	6 #5				
Location:	Unit or Qtr/Qtr Sec	NE/SW	Sec 8	T 23 N	R 3W	County	Rio Arriba	
Pit Type:	Separator:	_ Dehydrator	r	Other	Blow Pit			
Land Type	Jicarilla Tribal		-	<u> </u>				
	Beginning Pit Dimensions:	Length	15'	Width	15'	Depth	1 <u>4'</u>	
Pit Location: (Attach dia:	Ending Pit Dimensions:	Length	25'	Width	25'	Depth	14'	
Attaci dia	Reference:	Wellhead		Other	Separator			
	Footage from reference:		30'					
	Direction from reference:		200	Degrees		East	North	
					X	of West	f South	ХХ
-	Groundwater:	·		Less than 5			(20 points)	
vertical distar				50 feet to 9			(10 points)	
contaminants nigh water ele				Greater tha	in 100 feet		(0 points)	0
groundwater)	vation of	.*						
Wellhead F	Protection Area:					Yes	(20 points)	
•	200 feet from a private					No	(0 points)	0
	rater source, or; less than rom all other water sources)						•	
Distance T	o Surface Water:			Less than 2	200 feet		(20 points)	
Horizontal	distance to perennial			200 feet to			(10 points)	
	ls, rivers, streams, creeks, anals and ditches)			Greater tha	in 1000 feet	t	(0 points)	0
5	· ····			RANKING	SCORE (TO	OTAL POIN	ITS)	0

Date Remediation Sta	ırted:	5/15/97	•	_Date Com	pleted:	5/22/97
Remediation Method: (Check all appropriate		Excavation	xxx	_Approx. cu	ıbic yards	325
sections)	Landfarmed		XX	_Insitu Bior	emediation	
		Other		_		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)		Onsite	xx	_Offsite		
General Description o	of Remedial Action:		Excavate	pit to 10' b	elow pit bottom	, 10' off pit sides.
Lay soil ou	t on location in three	e dirt farm	cells.			
				·		
·						
Groundwater Encoun	tered:	No	XX	<u>C</u> Yes		Depth
Final Pit:	Sample location		4 point com	posite sample	e taken 8 to 10" into	pit sidewalls,
Closure Sampling: (in multiple samples,		Grab sam	ple taken 1	l0" into pit l	bottom center.	
attach sample results and diagram of sample	Sample depth	14'	8 to 10" ir	nto pit sidev	walls 10" into pi	t bottom
locations and depths)	Sample Date Sample results		5/22/97	7	Sample Time	11:40 AM
	Benzene		(ppm)	ND	_	
	Total BTEX	A	(ppm)	ND		
	Field Headspace		(ppm)	7.38	_	
	ТРН			ND\Sides	-	
Groundwater Sample:	;	Yes		_ No	XX(If ye	es attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND BI		ION ABOV	/E IS TRUE	AND COM	IPLETE TO THE	BEST OF MY
DATE	August 10,1998		PRINTED	NAME	Jeff Cross	
SIGNATURE	eff lun		AND TITL	E	Project Manage	er

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: 304 N. BEHREND, FARM	INGTON, N.M.	84701				
Facility or Well Name: JIC. 1	TRIBAL 396# 5					
Location: Unit or Qtr/Qtr Sec <u>NE\</u>	SW SEC 8	T 23N	R 3W	_County	RIO ARRIB	Α
Pit Type: Separator:Dehy	drator	_Other		BLOW PIT	- 	
Land Type: JIC. TRIBAL						
	ength 25'	Width	25'	Depth	14'	
(Attach diagram) Reference: Wellh	ead	_ _Other	SEPERAT	TOR		
Footage from reference	e: <u>30'</u>					
Direction from reference	e: <u>200</u>	_Degrees		_East	North _	
			X	of _West	South _	XX
Depth To Groundwater:		Less than	50 feet		(20 points)	
(vertical distance from		50 feet to 9			(10 points)	
contaminants to seasonal		Greater tha		t	(0 points)	0
high water elevation of groundwater)					` ' / <u>-</u>	
Distance to an Ephemeral Stream:		Less than	100 feet		(10 points)	
(Downgradient dry wash greater than		Greater tha			(0 points)	
ten feet in width					` ' -	
Distance to Nearest Lake, Playa, or Wate	ering Pond:	Less than	100 feet		(10 points)	
(Downgradient lakes, playas and		Greater tha		·	(0 points)	0
livestock or wildlife watering ponds)					· · · · -	·
Wellhead Protection Area:			Yes	•	(20 points)	
(Less than 200 feet from a private			No		(0 points)	0
domestic water source, or less than 1000 feet from all other water sources)					(= = = = =	
Distance To Surface Water:		Less than 1	INN feet		(20 points)	
(Horizontal distance to perennial		100 feet to			(10 points)_	····
lakes, ponds, rivers, streams, creeks,		Greater tha		et	(0 points) _	0
irrigation canals and ditches)		RANKING	SCORE (T	OTAL POIN	TS) _	0

્રા Date Remedi	iation Star	ted: 5/15/	97	_Date Comp	leted:	5/22/97
Remediation		Excavation	xxx	_Approx. cul	oic yards	325
(Check all appointment)	propriate	Landfarme	ed XXX	_Insitu Biore	mediation	
		Other				
Remediation (i.e. landfarm name and loo offsite facility	ed onsite, ation of	Ons	ite XXX	_Offsite		
General Des	cription of	Remedial Action:	Excavate pit	to 10' belov	v pit bottom,10' off	pit sides.
	Lay soil o	ut on location in t	hree dirt farm	cells.		
Groundwate	r Encounte	ered:	No xxx	Yes	Dept	h
Final Pit: Closure Sam (in multiple sa		Sample location GRAB S			SAMPLE TAKEN 1	0" INTO PIT SIDEWALL TER.
attach sample and diagram (,			alls ,10" into pit botto	· · · · · · · · · · · · · · · · · · ·
locations and	•	ate	5/22/97		Sample Time	11:40AM
	Soil:	Benzene	(ppm)	ND	Water: Benzene	(ppb) NA
		Total BTEX	(ppm)	ND	Toluene	(ppb) NA
		Field Headspace	(ppm)	7.38	Ethylbenzene	(ppb) NA
		TPH	(ppm)	ND-SIDES	Total Xylenes	(ppb) NA
Groundwate	r Sample:	Y	es	290-BTM No	XXX (If yes att	ach sample results)
I HEREBY CE KNOWLEDG			TION ABOVE	IS TRUE A	ND COMPLETE TO	THE BEST OF MY
DATE			PRINTED	NAME _	JEFF CF	ROSS
SIGNATURE	Jeg	of Gron	AND TITL	E _	PROJEC	T MANAGER
AFTER REVI	EW OF TH	E PIT CLOSURE IN HE TRIBE PIT CLOS	FORMATION SURE ORDINA	, PIT CLOS	URE IS APPROVED	IN ACCORDANCE TO
APPROVED:	YES	<u>×</u> .	10	(REASON)		
SIGNED:	Kiero	-C. Mam	U	DATE:	ク-30-9	7

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APACHE CORPORATION/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

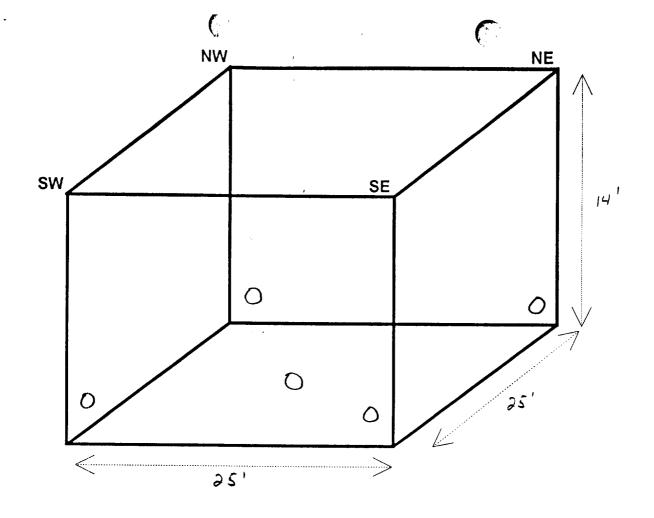
JAT 396 # 5

LOCATION

				•		OCD-BLM	••		
PIT C	OUNT	1	_			EPO Represe	entative		
			_			Date of Revie	ew		
								_	
DIMEN.	010110				Excavati			<u> </u>	
DIMEN		START:	5/15/97		FINISH:	5/22/97			
57.4	W	L.	D			W	<u> </u>	D	CU YDS
Pit 1	15'	15'	4'	Pit 1		25'	25'	14'	325
Pit 2	ļ	<u> </u>		Pit 2	_				
Pit 3	<u> </u>			Pit 3		<u> </u>			
	·	Pit 1 @ 8'	Pit 1 @ 11'	Pit 1 @ 13'			Pit 1 @ 14'	Pit 2 @	Pit 3 @
	Center	1580	453	158		Center	98		
P	NW Corner	1400	385	175	₽	NW Corner	81		
- 1	NE Corner	1590	427	122	1	NE Corner	76		
D	SW Corner	1520	398	167	D	SW Corner	77		
	SE Corner	1460	350	102		SE Corner	60		
NOTES	S:				***************************************	<u></u>		<u> </u>	<u> </u>
	5/15/97 STAF	RT EXCAVATION	ON ON PIT .HE	EAVY STAININ	G AND S	TRONG ODO	R DOWN TO	<u>5</u> '	
		TO 8' TOOK PI							
				()		/(0///////////////////////////////////			···
	5/17/97 FXC	AVTE PIT DOV	VN TO 11' PID	READINGS H	IGH LIG	HT ODOR 1	IGHT STAININ	IC ON DIT DO	TTOM
		NING ON SIDE		READINGOT	IOI I. LIO	III ODOK , E	IGITI STAININ	IG ON FIT BO	T T OIVI.
	112777 0177	THE CIT OID	- WALLO.						
	5/19/97 EXC	AVATE PIT DO	WN TO 13' DI	D PEADINGS	CTILL A I	ITTLE LICH	EVCAVATE D	OMAN TO 14'	DID COOD
	0/10/01 EXO	NATETITOC	VIN 10 13 FI	D READINGS	STILL A	LITTLE HIGH.	EXCAVATE D	OWN TO 14	PID GOOD.
	5/21/07 8 5/2	2/97 EXCAVA	TE SLOE COLL	OFF OF DIT	OIDEO				
_						0.500.75071			
	3/22/9/ TAN	E SOIL SAMPI	LES OF PIT SE	END TO ASSA	IGAI LAB	S FOR TESTI	NG.		
	 -								
				 					
		.	· · · · · · · · · · · · · · · · · · ·						
				SOIL SAMPL	ING				==
DATE:	5/22/97	Pit 1 @ 14'	Pit 2 @	Pit 3 @	ANALYS	IS RESULTS		PER LAB	ASSAIGAI
	Center	15			PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner	2.5			NO	SIDE\BTM	SIDE\BTM		
- 1	NE Corner	6.7			1	ND\290	ND\ND	JEFF C.	5/28/97
D	SW Corner	4.1		4	2				
	SE Corner	8.6			3		<u> </u>		
				RE-SAMPLE	OR CELL	(S) SAMPLE	!	I	· · · · · · · · · · · · · · · · · · ·
DATE:		Pit 1 @	Pit 2 @	Pit 3 @		IS RESULTS		PER LAB	
	Center				PIT	TPH	BETEX	WITNESS	DATE
Р	NW Corner	† 			NO		BETEX	VIIIVEOU	DATE
- 1	NE Corner				1		I		
D	SW Corner		· · · · · · · · · · · · · · · · · · ·						
~	SE Corner	 			2				
	- JOHNE	<u> </u>	<u> </u>	DE CAMPIE		(0) 041451.5	I		
DATE:		Pit 1 @	Dit 2 @	RE-SAMPLE		<u> </u>	-	DED : 45	
UNIE.	Comton	rii (0)	Pit 2 @	Pit 3 @		IS RESULTS	T	PER LAB	
n	Center				PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner				NO				
	NE Corner				1				
D	SW Corner		1	l i	_		1		
4000000000000000000	SE Corner				3				

Jicarilla Apache Tribal EPO/OCD/BLM

Review and Approval



					_ =	SAMPLE AREA
WELL NAM	МЕ	JAT 39	16#5			
SAMPLE D	DATE	5-22-97				
NOTES	4 POIN	COMPOSITE	SAMPLE TAKE	N 8" TO 10" IN	ITO PIT	
	SIDEW	ALL				
	1 POIN	T GRAB SAMF	PLE TAKEN 10"	TO 12" INTO B	OTTOM CE	NTER
			,			
					74.50	
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•	- '' '' ''					
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7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

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

Report Generated:

June 2, 1997 13:46

CERTIFICATE OF ANALYSIS **RESULTS BY SAMPLE**

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

ATTN: JEFF CROSS

WORKORDER # : 9705222

WORK ID : JICARILLA PIT CLOSURES

: APA01 CLIENT CODE

DATE RECEIVED: 05/27/97

Page: 1

Lab ID: 9705222-01A

Sample ID: JAT 396 #5 PIT 1 SIDES

Collected: 05/27/97 11:40:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A			••			
Benzene	ND	mg/Kg	0.0010	5 00	05/28/97	SBTXME165
Toluene	ND	mg/Kg	0.0010	50 0	05/28/97	SBTXME165
Ethylbenzene	ND	mg/Kg	0.0010	500	05/28/97	SBTXME165
P-&m-Xylene	ND	mg/Kg	0.0020	500	05/28/97	SBTXME165
O-Xylene	ND	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010	500	05/28/97	SBTXME165

Lab ID: 9705222-01B

Sample ID: JAT 396 #5 PIT 1 SIDES

Collected: 05/27/97 11:40:00

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	1.0	05/27/97	SDRO028

Lab ID: 9705222-02A

Sample ID: JAT 396 #5 PIT 1 BOTTOM

Collected: 05/22/97 11:55:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	05/28/97	SBTXME165
Toluene	ND	mg/Kg	0.0010	500	05/28/97	SBTXME165
Ethylbenzene	ND	mg/Kg	0.0010	500	05/28/97	SBTXME165
P-&m-Xylene	ND	mg/Kg	0.0020	500	05/28/97	SBTXME165
O-Xylene	ND	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010	500	05/28/97	SBTXME165



Page: 2

Collected: 05/22/97 11:55:00 **Matrix:** SOIL

L. D: 9705222-02B Sample ID: JAT 396 #5 PIT 1 BOTTOM

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	290	mg/Kg	50	1.0	05/27/97	SDRO028

rial P. mal

William P. Biava President



Chain of Custody Record

Project Manager / Contact <u>- Jeff - Cftoss</u>

Client Apache Corporation

7300 JEFERSON, N.E.	1910 N. BIG
ALBUQUERQUE, NEW MEXICO 87109	MIDLAND, TEXA
(505) 345-8984	(915) 570-1
7300 JEFFERSON, N.E.	3332 WEDGEWOOD
ALBUQUERQUE, NEW MEXICC	EL PASO, TEXAS 78925
(505) 345-8964	(915) 593-5000
:	ı

CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320 1910 N. BIG 10 MIDLAND, TEXAS 79 (915) 570-1116

ddress 304 N. Behrend Telephone No. (505) 774-6643	Analysis Required	
ty/State/ZipEarmington, NM 87401 Fax No. (505) 774-6624	100 M	
oject Name / Number JICARILLA PIT CLOSURES Samplers: (Signature)	Pour	R. C. C.
ontract / Purchase Order / Quote	アイン / / / / / / / / / / / / / / / / / / /	

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	,	Locatic	1.4		J.H.O.												
	1,000	Sample Number / Location	#		36#												
		Sample	12 A	3 =	17												
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Company ABacks COCP.				1	200
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			After analysis, samples are to be:	nples are to be:	4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				Disposed of (additional fee)	
Method of Shipment:	Comments				- 1 - 20 - 53
				Stored (30 days max)	
Single of the state of the stat				Stored over 30 days (additional fee)	
Special Instructions:)		
				Returned to customer	

WORKORDER COMMENTS

DATE : 06/02/97

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.

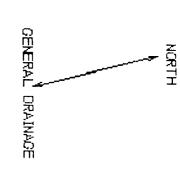
B = Analyte was also detected in laboratory method QC blank.

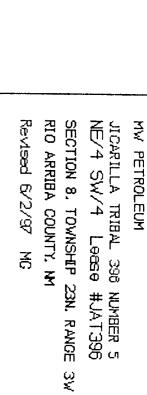
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.

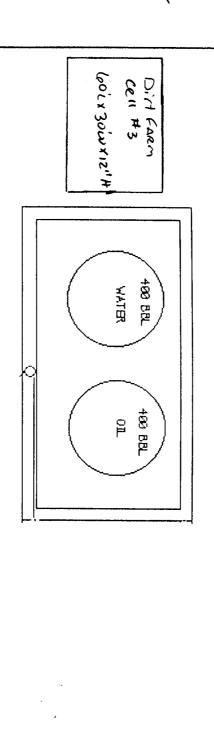
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS







SEPARATOR

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WELL HEAD

120'L x 50'W x 12" it

Dirt Faen ceil #2

BURIED LINE DRIP

EPNG SALES METER, 95-338

PIT(1)

H"SIXWSEXJOH Dirt FARM Cell #2

Submit 1 copy to

Natural Resource Dept.
and Oil & Gas Administration

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETE	ROLUEM			_Telephon	е	505-325-0	0318	
Address:		2855 SOU	THSIDE RI	IVER ROAL) /SUITE A	/FARMING	STON, N.M.	87401-794	7
Facility or We	ell Name:		JAT 396	#5 CELL#	# 1				
Location:	Unit or Qtr	/Qtr Sec	NE\SW	Sec 8	T 23 N	R 3 W	_County	RIO ARR	≀IBA
Land Type		JIC. TRIBA	AL						
Date Remedi	iation Starte	ed:	5/15/97		_Date Com	npleted:		6/10/98	
Remediation	Method:	Landfarmed	d	xxx	_Approx. c	ubic yards		222	
		Composted	t						
		Other			oil 70 1	3e 5,000	ad on C	ocation	<u>-</u>
Depth to Grou	undwater:		(pts)) 0		Final Clo	sure Samp	ling	
Distance to a	n Ephemer	al Stream:	(pts)	0	Sampling	Date:	6/10/98	_Time:	10:45AM
Distance to N or Watering F		∍, Playa,	(pts)	0	Sample R		_		
Wellhead Pro	otection Are	a:	(pts)	00	Field Headsp		0	_	
Distance To S	Surface Wa	iter:	(pts)	0	TPH	 ,	820	_	M8015
RANKING SC	CORE (TOT	FAL POINTS	3)	0	Otnei	BTEX 15	SW846 , 802	20A (ND))
I HEREBY CE KNOWLEDGI		JEF		N ABOVE	I IS TRUE A	ND COMPL	LETE TO T	HE BEST C	OF MY
DATE:		7/16/98		PRINTED	NAME		JEFF CR	.OSS	
SIGNATURE	Jeff	L Cum	>	_TITLE		PROJECT	T MANAGE	<u>:R</u>	
AFTER REVI								I IS APPRO	OVED IN
APPROVED:	YES		NO		_(REASON	()			_
SIGNED:	Ker	° Ma_	1	_DATE:	7-	29-9	8		- -

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>M W PET</u>	ROLUEM		Telephone	505-325-0318	,
Address:	2855 SOUTHSIE	DE RIVER ROAD	SUITE A/FARMING	STON, N.M. 87401-	7947
Facility or Well Name:	JAT	396 # 5 CELL #	¥ 2		
Location: Unit or Qt	r/Qtr Sec <u>NE</u>	SW Sec 8	T 23 N R 3 W	_County _RIO /	ARRIBA
Land Type	JIC. TRIBAL				
Date Remediation Starte	ed: 5/1	5/97	_Date Completed:	7/8	/97
Remediation Method:	Landfarmed	XXX	_Approx. cubic yards	3	7
	Composted				
	Other		Soil TO Be spre	edd on Cocation	υ.
Depth to Groundwater:		(pts) _ 0	Final Clo	osure Sampling	
Distance to an Ephemer	al Stream:	(pts) 0	Sampling Date:	7/8/97 Time	: <u>11:30AM</u>
Distance to Nearest Lak or Watering Pond:	e, Playa,	(pts)0	Sample Results:	_	
Wellhead Protection Are	ea:	(pts) 0	Field Headspace (ppm) TPH (ppn	0 1700 Moth	od M 8015
Distance To Surface Wa	ater:	(pts) 0]	n) <u>1700</u> Meth SW846 , 8020A	(ND)
RANKING SCORE (TO	TAL POINTS)	0	Other BILX (344040 , 002UA	(ND)
I HEREBY CERTIFY TH KNOWLEDGE AND BE		MATION ABOVE	IS TRUE AND COMF	PLETE TO THE BE	ST OF MY
DATE:	7/16/98	PRINTED	NAME	JEFF CROSS	
SIGNATURE	y los	TITLE	PROJEC	T MANAGER	
AFTER REVIEW OF THE ACCORDANCE TO THE					PROVED IN
APPROVED: YES	<u> </u>	NO	(REASON)		
SIGNED:	Man	DATE:	7-29-9	Г	

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

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PET	ROLUEM	<u></u>		_Telephone)	505-325-0	318	
Address:		2855 SOUTH	ISIDE RIV	VER ROAD) /SUITE A/	FARMING	FON, N.M.	87401-794	7
Facility or We	ell Name:	J,	AT 396#	#5 CELL#	‡ 3				
Location:	Unit or Qtr	/Qtr Sec _	NE\SW	Sec 8	T 23 N	R 3 W	County	RIO ARR	IBA
Land Type		JIC. TRIBAL	<u> </u>	···		··			
Date Remedi	ation Starte	ed:	5/15/97		_Date Com	pleted:		7/8/97	
Remediation	Method:	Landfarmed		XXX	_Approx. cı	ubic yards		66	
		Composted			_				
		Other			Spic 70	Ве Брге	don co	cation.	
Depth to Gro	undwater:		(pts)	0		Final Clos	sure Samp	ling	
Distance to a	n Ephemer	al Stream:	(pts)	0	Sampling	Date:	7/8/97	_Time:	11:45AM
Distance to N or Watering F		e, Playa,	(pts)	0	Sample Re	esults:			
Wellhead Pro	otection Are	a:	(pts)	0	Field Headspa	ace (ppm)	0	-	
Distance To S	Surface Wa	iter:	•	0	TPH	(ppm)	1900	_Method	M8015
RANKING SO	CORE (TO	TAL POINTS)		0	Other	BTEX \S	W846 , 802	:0A (NE))
I HEREBY CI KNOWLEDG		AT THE INFO	RMATIO	N ABOVE	IS TRUE AI	ND COMPL	ETE TO TI	HE BEST C	OF MY
DATE:		7/16/98		PRINTED	NAME		JEFF CR	oss	
SIGNATURE		efflon		TITLE		PROJECT	MANAGE	R	
AFTER REVI								I IS APPRO	OVED IN
APPROVED:	YES		NO.	······································	_(REASON))			_
SIGNED: -	Low (Man		DATE:	<u> </u>	29-98	<u> </u>		- -

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION	SHE		JA 1 396 # 5		•	
* AMOUNT OF	SOIL UNDE	RGOIN	IG REMEDIATION	325	Yds.	
CELL No.	1	_		SampDATE 6/10/98	TPH 820	BTEX ND
DIMENSIONS(LxV	VxH)	120' X	. 50' X 12"			
CELL LOCATION	(dir. from well	head	NORTH			
* DATE BEGAN:	5/15/97					
DATE TERMINAT	ED (TPH <5,0	00 ppm/E	BTEX< 50 ppm/Benzene < 10 ppm)	6/10/98		•
		· · · · · · · · · · · · · · · · · · ·		SampDATE	TPH	BTEX
CELL No.	2			7/8/97	1700	ND
OLLE 140.		-				
DIMENSIONS(LxV	VxH)	40' X2	25' X 12"			
CELL LOCATION	(dir. from well	head	NORTHWEST			
* DATE BEGAN:	5/15/97	•				
			BTEX< 50 ppm/Benzene < 10 ppm)	7/8/97		•
				SampDATE	TPH	BTEX
CELL No.	3	-		7/8/97	1900	ND
DIMENSIONS(Lx\	VxH)	60' X	30' X 12"			
CELL LOCATION	(dir. from well	head	SOUTHWEST			
* DATE BEGAN:	5/15/97	7				
DATE TERMINAT	ED (TPH <5,0	00 ppm/	BTEX< 50 ppm/Benzene < 10 ppm)	7/8/97		-
REMEDIATION R	ECORD: (Date	Treatm	nent Tilling)		<u>;</u>	
			FERTILIZER, WATER, PLOW AND	TILL SOIL.		
5/30/97 TILL SOIL		-				
6/9/97 PLOW AND						
6/21/97 TILL ALL	CELLS.					
7/7/97 WATER,PI		L ALL CE	ELLS.			
4/28/98 PLOW CE						
4/29/98 TILL CEL					·	
6/2/98,6/3/98 WA	TER,PLW AND	TILL C	ELL # 1.			

From excavation reports.

NOTES: ALL SAMPLES TAKEN 10" TO 12 10 POINT COMPOSITE SAMPLE	0	0	0	WELL NAME: JAT 396 # 5 CELL SAMPLE DATE: 6/10/98 DIMENSIONS: 120' X 50' X 12"
ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 POINT COMPOSITE SAMPLE	0		0	CELL # 1 10/98
	*	0		() II
	0	0	0	= SAMPLE AREA

WELL NAME:	JAT 396#5 CELL#2)	
DIMENSIONS:	40' X 25' X 12"	(
0	0	·	0
0	0	0	0
0	0	æ	0
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 POINT COMPOSITE SAMPLE	E.	

WELL NAME:	JAT 396 # 5 CELL # 3	C	
DIMENSIONS:	60' X 30' X 12"		
0	0		0
0	0	0	0
0	0		0
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 POINT COMPOSITE SAMPLE		



JUN 25

7300 Jefferson, NE • 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 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: 9806178 **JICARILLA**

William P. Biava: President of Assaigai Analytical Laboratori

Sample ID	JAT 390	5 #5 C	ELL #1 	Sam Matri		-			Sample Collected	06/10/98 10:45:00
						Dilution	Detection	1		Run
<u>Fraction</u>	QC Group	CAS#		<u>Result</u>	<u>Units</u>	<u>Factor</u>	<u>Limit</u>	*	Sequence	Date
			SW846-8010/8020 Volatiles							
9806178-01A	X98326	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998,535-10	06/15/98
	X98326	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.535-10	
	X98326	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.535-10	
	X98326		P/M-Xylenes	ND	mg / Kg	50	0.01		XG.1998.535-10	
	X98326	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.535-10	
			SW846-8015 Modified TPH							
9806178-01B	X98328	!	Diesel Range Organics ·	820	mg / Kg	25	25		XG.1998.556-11	06/20/98
					-		- -			

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





Client Apache Corporation

Chain of Custody Record

7300 JEFFERSON, N.E. ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8964

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

(ee) Stored over 30 days (ad-Disposed of (additional Stored (30 days max) After analysis, samples are to be: Analysis Required Signature × Project Manager / Contact Jeff Cross Ste. ATelephone No. (505) 774-6643 LABORATORY Signature City/State/ZipParmington, NM_87401-7947_ Fax No. (505) 774-6624 Type / Size of Container 4 02 glass Samplers: (Signature) 🤿 10-10-58 /245 Soil Signature Address 2855 Southside River RD, Sample Number / Location SAT 396#5 Cell#1 Contract / Purchase Order / Quote Apache Corp. Project Name / Number Wethor of Shipment: Special Instructions: Relinguished by:



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 18, 1997 13:15

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9707104

WORK ID : JICARILLA PIT CLOSURES

CLIENT CODE : APA01 DATE RECEIVED : 07/11/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9707104-01A

Sample ID: JAT 396 #5 CELL #2

Collected: 07/08/97 11:30:00

Matrix: SOIL

Sample ID. offi 350 115 02	· · · · · · · · · · · · · · · · · · ·					
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	07/16/97 07/16/97 07/16/97 07/16/97 07/16/97	SBTXME177 SBTXME177 SBTXME177 SBTXME177 SBTXME177

Lab ID: 9707104-01B

Sample ID: JAT 396 #5 CELL #2

Collected: 07/08/97 11:30:00

Matrix: SOIL

Sample ID: OAT 550 115 02		<u> </u>					_==
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID	. <u> </u>
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	1700	mg/Kg	25	25	07/16/97	SDRO41	

Lab ID: 9707104-02A

Sample ID: JAT 396 #5 CELL #3

Collected: 07/08/97 11:45:00

Matrix: SOIL

bampie in the second						
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	07/16/97 07/16/97 07/16/97 07/16/97 07/16/97	SBTXME177 SBTXME177 SBTXME177 SBTXME177 SBTXME177



Page: 2

להש ID: 9707104-02B Sample ID: JAT 396 #5 CELL #3

Collected: 07/08/97 11:45:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	1900	mg/Kg	25	25	07/16/97	SDRO41

President

WORKORDER COMMENTS

DATE : 07/18/97

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



Client Apache Corporation

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

Page

Chain of Custody Record

ALBUQUEROUE, 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

Address 304 N.	N. Behrend		Analysis Required.
City / State / Zip	chy/state/zipEarmington, NM 87401	Fax No. (505) 774-6624	
Project Name /	Project Name / Number JICARILLA PIT CI	PIT CLOSURES Samplers: (Signature) John Muling / 50/	Remarks
Contract / Purcl	Contract / Purchase Order / Quote	No. of Con	
AAL FRACTION HUMBER	Fleid Location Date	Time Sample Type / Size of Container Temp. Chemical	
(A	JAT 396 #5 Cell#2 728.97	11:30 sil 402 Glass 48 ECE 1 1	
1 &			
2A	JA+396#5 Cell#3	11.48	
26			
		3	-
		Rappe,	
1			
*			
E en s			
Signature /	JEFF CROSS 7-11-97	And Andrew Signature Signa	Date Received by: Signature Stories Printer Printer
Company A		Company AACT Company AACT	W AAL
Method of Shipment		Comments:	After analysis, samples are to be: Disposed of (additional fee)
Shipment No.			Stored (30 days max)
S >eclal Instructions:			Stored over 30 days (additional fee) Returned to customer