District III 1000 Rio Brazos Rd

State of New Mexico
Energy, Minerals and Natural Resources Department

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

FEB 0 8 1988

OIL CONSERVATION DIVISION 2040 S. PACHECO

Santa Fe, New Mexico 87505

PIT	REMEDIATION	AND CLOSURE	REPORT

	/ 	and the state of the second of						7.3	557 P. Oak - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	
Operator:	Apache Co	rporation \ MW Peti	roleum		Telephone	t	505-325-031 8			
Address:	2855 South	side River Road, S	uite A, Farm	ington, NI	-					
Facility or V	Vell Name:		Jic Apach	e Tribal A	118 #10 P	it #1				
Location:	Unit or Qtr/G	tr Sec	н	Sec 35	T 26 N	R 3W	County	Rio Arriba		
Pit Type:	Separator:		_ Dehydrato	r	_Other	Blow Pit				
Land Type:		Jicarilla Tribal								
	Beginni	ng Pit Dimensions:	Length	10	<u>'</u> Width	10'	Depth	3'		
Pit Location: (Attach diag		ng Pit Dimensions:	Length	15	<u>'</u> Width	15'	Depth	6'		
(Attach dia)	Refere	nce:	Wellhead	XX	_Other					
	Footag	e from reference:		80	•	_				
	Direction	on from reference:		208	_Degrees		_East	North		
						XX	of _West	South	Х	
Depth To (Groundwate	er:			Less than	50 feet		(20 points)		
(vertical distar	nce from				50 feet to			(10 points)		
contaminants high water ele					Greater th	an 100 feet		(0 points)	0	
groundwater)										
Wellhead I	Protection A	Area:					Yes	(20 points)		
I '	200 feet from	•					No	(0 points)	0	
1		or; less than water sources)								
Distance 1	To Surface \	N ater:			Less than	200 feet		(20 points)		
	distance to				200 feet to		(10 points)			
		reams, creeks,	Greater than 1000 feet (0 points) _						0	
irrigation ca	anals and di	cnes)			RANKING	SCORE (T	OTAL POIN	NTS)	0	
I										

Date F	Remediation Start	ed:	8/22/97		Date Comple	eted:	8/22/97
	diation Method:		Excavation .	XXX	Approx. cubi	c yards	25
sectio	k all appropriate ns)	Landfarmed		ХХ	Insitu Biorem	nediation	
			Other				
(i.e. la name	ediation Location: andfarmed onsite, and location of a facility)		Onsite	xx	Offsite		
Gene	-	Remedial Action:				k PID readings. S	Spread soil on
	location for	remediation. Took	sou sampi	les. Hit be	агоск		
		···					
Grou	ndwater Encount	ered:	No) XX	Yes_	De	pth
Final	Pit:	Sample location		4 point com	posite sample	taken from pit sidewa	lls. Grab sample
Clos	ure Sampling: ultiple samples,	'	taken from ¡	pit bottom ce	nter.		
attac	h sample results diagram of sample	Sample depth	6'	8 to 10" i	nto pit sidew	alls 10" into pit b	ottom
1	ions and depths)	Sample Date	•	8/22/9		Sample Time	2:30 PM
		Sample results		OILLIO	<u> </u>	Cumple Time	
		Benzene		(ppm)	ND		
		Total BTEX		(ppm)	ND		
		Field Headspace		(ppm)	44.56		
		TPH			ND		
	undwater Sample		Ye		No		attach sample results)
	REBY CERTIFY T OWLEDGE AND B	HAT THE INFORMA	ATION ABO	OVE IS TRU	JE AND COM	IPLETE TO THE B	ESI OF MY
DAT	ΓE	December 1, 199	8	PRINTEI	D NAME	Jeff Cross	
SIG	NATURE	Test lo	>	AND TIT	LE	Project Manager	

District III 1000 Rio Brazos Rd Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

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and 1 copy to
Santa Fe Office

OIL CONSERVATION DIVISION

2040 S. PACHECO Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

perator:	Apache Cor	poration \ MW Petro	oleum			Telepho	ne:		,	505-325-0	318	
.ddress:	2855 Souths	side River Road, Su	ite A, Farm	ingtor	, NM	87401					-·	
acility or	Well Name:		Jic Apache	e Triba	al A11	8 #10	Pit	#2	<u> </u>		<u> </u>	
.ocation:	Unit or Qtr/G	tr Sec	Н	Sec 3	35	T 26 N		R	3W_	County	Rio Arriba	<u> </u>
Pit Type:	Separator:		_Dehydratoi	<u> </u>		Other	-	Tank	(Drain	n		_
_and Type	e:	Jicarilla Tribal										
	Beginni	ng Pit Dimensions:	Length		10'	W	idth		10'	Depth	2	
Pit Location		ng Pit Dimensions:	Length		15'	. W	idth .		15	Depth	6	'
(Attach di	agram) Refere	nce:	Wellhead	x	X	Other					<u> </u>	_
	Footag	e from reference:			50'			-				
	Directi	on from reference:			8	Degree	es		X	_East	North	XX
										_West	South	
Depth To	o Groundwat	er:	-			Less th				#* ***********************************	(20 points	
`	tance from nts to seasonal					50 feet Greate				t	(10 points	
high water groundwate	elevation of er)											
(Less that										Yes No	(20 points (0 points	
(Horizon lakes, po		perennial treams, creeks,					et to	o 100	feet 00 feet 000 fe		(20 point (10 point (0 point	(s)
irrigation	n canals and c	ilicnes)				RAN	KING	SC	ORE (TOTAL PO	INTS)	0

Date	Remediation Star	ted:	8/25/97		Date Compl	eted:	8/26/97
	ediation Method:		Excavation .	xxx	Approx. cub	ic yards	50
section	' ' '	Landfarmed		XX	Insitu Biorer	mediation	
			Other				
(i.e. la name	ediation Location andfarmed onsite, and location of a facility)	:	Onsite	xx	Offsite		
		f Remedial Action:		Excavate	pit to 8' , too	ok PID readings.	Spread soil on
	-	remediation. Took	•		•		
	location for	Temediation: Took	Jon Jumpi				
							
Grou	indwater Encoun	tered:	No	xx	Yes_	D	epth
Fina	l Pit:	Sample location		4 point com	posite sample	taken from pit sidew	alls. Grab sample
	ure Sampling: ultiple samples,		taken from p	it bottom cer	nter.		
attac	h sample results diagram of sample	Sample depth				valls 10" into pit	bottom
	ions and depths)		Ū	8/26/97		Sample Time	10:00 AM
		Sample Date Sample results		0/20/9/		Sample Time	10.00 Alai
		Benzene		(ppm)	ND		
		Total BTEX		(ppm)	ND		
		Field Headspace		(ppm)	37.72		
		ТРН			ND		
<u> </u>	undwater Sample		Yes		_ No		s attach sample results)
	REBY CERTIFY T WLEDGE AND B	HAT THE INFORMA ELIEF.	TION ABO	VE IS TRU	E AND COM	PLETE TO THE E	BEST OF MY
DAT	E	December 1, 1998	3	PRINTED	NAME	Jeff Cross	
SIGI	NATURE (If Cros		_AND TITI	-E	Project Manage	·

District III 1000 Rio Brazos Rd Aztec, NM 87410

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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

Opera	tor:	Apacl	he Cor	poration \ MW Petr	roleum Telephone: 505-325-0318)318		
Addre	ss:	2855	South	side River Road, Su	uite A, Farm	ingto	on, NN	87401		 			
Facility	y or \	Well N	ame:		Jic Apach	e Tril	bal A1	18 #10 F	Pit #3				
Locati	on:	Unit c	or Qtr/G	tr Sec	н	Sec	35	T 26 N	R	3W	County	Rio Arriba	
Pit Ty	pe:	Sepa	rator:	XX	_Dehydrato	r		Other					
Land	Туре	:		Jicarilla Tribal									
		E	Beginni	ng Pit Dimensions:	Length	1	15'	Widt	h	15'	Dept	h	
Pit Loc				ng Pit Dimensions:	Length	·	18'	Widt	th	18'	Dept	th 8'	
(Attac	n aia	agram)) Refere	nce:	Wellhead		XX	_Other					
			Footag	e from reference:			75	· 	_				
			Directi	on from reference:			40	_Degrees		Х	East	North of	XX
											_West	South	
(vertic	al dist	ance fro		er:		<u> </u>		Less tha 50 feet to Greater	99 f	eet		(20 points) (10 points) (0 points)	
	ater e	ts to sea elevation r)						Oreator	uiaii	100 1000		(о рошио) _	
(Less	s tha estic	n 200 water	source	Area: om a private e, or; less than or water sources)							Yes No	(20 points) (0 points)	0
(Hor lake:	izont s, po	al dist nds, ri	ance to	Water: perennial treams, creeks,				Less tha 200 feet Greater	to 10	000 feet		(20 points) (10 points) (0 points)	
irriga	ation	canals	s and d	itches)				RANKING SCORE (TOTAL POINTS)				0	

Date Remediation Star	ted:	8/26/97		Date Compl	eted:		8/26/97			
Remediation Method: (Check all appropriate		Excavation .	xxx	_Approx. cub	ic yards		60			
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 8', too	k PID readir	igs. Sprea	ad soil on			
. location for	remediation. Took	soil sampl	es.	·						
				<u>, , , , , , , , , , , , , , , , , , , </u>						
Groundwater Encoun	tered:	No	X)	Yes_		Depth _				
Final Pit:	Sample location		4 point com	posite sample	taken from pit s	sidewalls. G	rab sample			
Closure Sampling: (in multiple samples,		taken from pit bottom center.								
attach sample results and diagram of sample	Sample depth	8'	8 to 10" i	nto pit sidew	valls 10" into	pit bottor	n			
locations and depths)	Sample Date		8/26/9		Sample Time		4:00 PM			
	Sample results		0/20/3		Campic Time	´ <u>-</u>	-1.00 T III			
	Benzene		(ppm)	ND						
	Total BTEX		(ppm)	ND						
	Field Headspace		(ppm)	53.76						
	TPH			ND						
Groundwater Sample	:	Yes	S	No	XX(I	f yes attac	h sample results)			
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO	VE IS TRU	E AND COM	PLETE TO T	HE BEST	OF MY			
DATE	December 1, 1998	8	_PRINTE	NAME	Jeff Cross					
SIGNATURE	leff cross		_ _AND TIT	LE	Project Man	ager				

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

PIT REMEDIATION AND CLOSURE REPORT

Opera	tor:	MW	PETROLEUM			Telephone	5	05-32	5-0318		
Addre	ss:	2855	SOUTHSIDE RI	VER ROAD	/ SUITE A	/ FARMING	STON	N.M.	87401-79	47	···
Facilit	y or We	ell Na	me:	JAT A-118	# 10	PIT#1					
Locati	on:	Unit	or Qtr/Qtr Sec	Н	SEC 35	T 26N	R 3\	N	County	RIO ARRIE	BA
Pit Ty	pe:	Sepa	arator:	Dehydrator		_Other			BLOW P	IT	
Land [*]	Гуре:		JIC. TRIBA	AL							·
	cation: h diagra	am)	Pit Dimensions:	Length Wellhead	15' XXX	Width	1	15'	Dept	th 6'	
			Footage from ref		80'		_		<u> </u>		
			Direction from re	ference:	280	Degrees	_		East	North of	X
								κx	West	South	
Denth	To Gr	ound	lwater:			Less than	50 foc	at .		(20 points)	
l -	distance		iwater.			50 feet to				(10 points)	-
1	nants to s		-1			Greater that				(0 points)	0
			di			Greater th	all 10	O leet		(o points)	
groundy	ter elevati vater)	on ot									
Dista	nce to	an Ep	hemeral Stream	:		Less than	100 fe	eet		(10 points)	
		-	wash greater tha			Greater th				(0 points)	
•	et in wi	•	3								,
Dista	nce to	Neare	est Lake, Playa, d	or Watering	Pond:	Less than	100 fe	eet		(10 points)	
(Dowr	gradie	nt lak	es, playas and	_		Greater th	an 10	0 feet		(0 points)	0
-	_		e watering ponds)							•	
Wellh	ead Pr	otect	ion Area:					Yes		(20 points)	
(Less	than 20	00 fee	et from a private					No		(0 points)	0
1			urce, or less than other water sourc	es)						•	
			ace Water:			Less than				(20 points)	
			ce to perennial			100 feet to			_	(10 points)	
	-		s, streams, creek	S,		Greater th	an 10	00 fee	t	(0 points)	0
ırrıgat	ion can	ais ar	nd ditches)			RANKING	sco	RE (T	OTAL PO	INTS)	0

Date I	Remediat	ion Starte	d: <u>8/2</u>	2/97	Date Compl	eted:	8-6	2-57	
	diation M		Excava	tion XXX	Approx. cub	oic yards		25	
(Chec sectio	k all appro ns)	opriate	Landfar	med XX	Insitu Biore	mediation			
·			Other						
(i.e. la name offsite	diation L ndfarmed and locat facility)	onsite, ion of		nsite XX	Offsite				
Gene			Remedial Action			D reading			
	<u>lo</u>	ocation fo	r remidiation. T	ook soil samp	oles.		HIT BEDR	OCK.	
Grou	ndwater I	Encounte	red:	No XXX	Yes		Depth		
(in m attacl and d locati	re Samp ultiple san sample i lagram of ons and d	oling: Inples, Iresults Is sample Iepths) Isample Da Isample res		GRAB S 8" to 10" 8/22/9 (ppm) (ppm) (ppm) (ppm)	omposite take AMPLE TAKE into pit side w 97 ND ND 44.56 ND No	N FROM Invalls ,10" in Sample Ti	eto pit bottor ime Benzene Toluene nylbenzene tal Xylenes	2:30PM (ppb) (ppb) (ppb) (ppb)	NA NA NA
		-	AT THE INFORI						
KNO	WLEDGE	AND BEI	JEF.						
SIGN	NATURE_	Jef	1-98 4 lws	AND TI	TLE		PROJECT	MANAGE	R
AFT THE	ER REVIE JICARILI	W OF TH	E PIT CLOSURI IE TRIBE PIT C	E INFORMATION ORD	ON, PIT CLOS INANCE.	SURE IS A	PPROVED	IN ACCOR	DANCE TO
APP	ROVED:	YES		NO	(REASON)			
SIGI	VED: =	Keer	Ma	<u>IC</u>	DATE:	11-	13-9	8	

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

PIT REMEDIATION AND CLOSURE REPORT

Opera	lor:	MW	PETROLEUM			_Telephone		505-32	25-0318		
Addre	ss:	2855	SOUTHSIDE RI	VER ROAD	/ SUITE A	/ FARMING	STO	N N.M.	. 87401-7	7947	
Facilit	y or We	ell Na	me:	JAT A-118	3 # 10	PIT#2					
Locati	on:	Unit	or Qtr/Qtr Sec	н	SEC 35	T 26N	R	3W	County	RIO ARRIBA	Α
Pit Ty	pe:	Sepa	arator:	Dehydrato	r	_Other			TANK	DRAIN	
Land [·]	Гуре:		JIC. TRIB	AL							
	cation:		Pit Dimensions:	Length	15'	Width	1	15'	_ De	epth 8'	
(Attac	h diagr	am)	Reference:	Wellhead	XXX	_Other					
			Footage from re	ference:	50'		_				
			Direction from re	eference:	8	_Degrees		X	_East	North _	XX
									_West	South	
Doné	TOC	rous	dwater:			Less than	50 1	feet		(20 points)	
	l distance		dwater:			50 feet to				(10 points)	
1	inants to		nal			Greater th			et	(0 points)	
1	iter eleva										
Dieta	nce to	an F	phemeral Strean	1:		Less than	100) feet		(10 points)	
			wash greater that			Greater th			et	(0 points)	0
١,	et in w	-									
Dista	nce to	Near	est Lake, Playa,	or Waterin	ng Pond:	Less than	100) feet		(10 points)	
(Dow	ngradie	ent lak	kes, playas and fe watering ponds			Greater th	han	100 fee	et	(0 points)	0
			tion Area:	•				Υe	es	(20 points)	
		-	et from a private					N	lo	(0 points)	0
dome	stic wa	ater so	ource, or less than I other water sour								
Diete	nce T	0 S112	face Water:			Less than	າ 100	0 feet		(20 points)	
			ice to perennial			100 feet t			t	(10 points)	
١,			ers, streams, cree	ks,		Greater t	han	1000 fe	eet	(0 points)	0
1			and ditches)			RANKING	G SC	CORE	(TOTAL	POINTS)	0
1											

Date Rer	mediation Start	ed: 8/25/97		_Date Comp	leted:	8-2	14-97	
	ation Method:	Excavation	XXX	_Approx. cul	oic yards		50	
(Check a sections)	III appropriate	Landfarmed	XX	_Insitu Biore	mediation			
		Other		_				
Remedia	ation Location:		XX	Offsite	····			
(i.e. land	farmed onsite,	Onsite						
offsite fa	d location of cility)							
General	Description of	Remedial Action: Ex	cavate pit t	to 8',took Pl	D reading	ıs. spread s	oil on	· <u>-</u>
	location fo	or remidiation. Took	soil sample	es				
Grounds	water Encounte	ered: No	xxx	Yes		Depth		
Ground	water Encount	110			· · · · · · · · · · · · · · · · · · ·			_
Final Pit		Sample location	4 point co	mposite take	n from pit	sidewalls		
(in multip	Sampling: ole samples,		GRAB SA	MPLE TAKE	N FROM	РІТ ВОТТО	M CENTER	<u>. </u>
	ample results ram of sample	Sample depth &	8" to 10" i	nto pit side v	/alls ,10" ii	nto pit bottor	m.	
locations	s and depths) Sample Da	ate	8/26/97	7	Sample T	ime	10:00AM	
	Sample re				•			İ
	Soil:	Benzene	(ppm)	ND	Water:	Benzene	(ppb)	NA
		Total BTEX	(ppm)	ND		Toluene	(ppb)	NA
		Field Headspace	(ppm)	37.72	Etl	nylbenzene	(ppb)	NA
		ТРН	(ppm)	ND	То	tal Xylenes	(ppb)	NA
Ground	water Sample:	Yes	3	_ No	xxx	_(If yes atta	ich sample i	esults)
I HEREE	BY CERTIFY TH	AT THE INFORMATION	ON ABOVE	IS TRUE A	ND COMF	LETE TO T	HE BEST (OF MY
	EDGE AND BE							
DATE	9-10	1-98 H lws	_PRINTED	NAME		JEFF CR	oss	
SIGNAT	URE	flus	_AND TITL	.E		PROJECT	MANAGE	₹
		E PIT CLOSURE INF HE TRIBE PIT CLOSU			URE IS A	PPROVED	IN ACCORE	DANCE TO
APPRO	VED: YES	NC)	_(REASON)				
	. 1		(
SIGNED	» Lieu	<u>Chla</u>	el.	_DATE:	11-	13-98		

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

PIT REMEDIATION AND CLOSURE REPORT

												1
Opera	tor:	M W	PETROI	LEUM			_Telephone		505-32	5-0318		
Addre	ss:	2855	SOUTH	SIDE RI	VER ROAD	/ SUITE A	/ FARMING	зтоі	N N.M.	87401-79	47	
Facilit	y or We	ell Na	me:		JAT A-118	3 # 10	PIT#3					
Locati			or Qtr/Qt	r Soo	Н	SEC 35	T 26N	R :	3W	County	RIO ARRIBA	
Locan	OH.											
Pit Ty	pe:	Sepa	arator:	XX	_Dehydrato	r	_Other			<u> </u>		
Land	Туре:		JI	C. TRIB	AL				<u> </u>			
Dit 1 o	cation:		Pit Dime	ensions.	Length	18'	Width)	18'	Dep	th 8'	
	h diagr	am)			_		_			- ·		
			Referen	ice:	Wellhead	XXX	_Other					
			Footage	from re	ference:	75'		_				
			Directio	n from re	eference:	40	_Degrees		X	_East	North _	XX
										West	of South	
										_	-	
Dept	n To G	round	dwater:				Less than	50 f	eet		(20 points)	
(vertica	l distance	from					50 feet to				(10 points)_	
contam	inants to	seasor	al				Greater th	nan 1	00 feet	İ	(0 points) _	0
I -	ater elevat	tion of										
ground	water)											
Dista	nce to	an E	phemera	ıl Strean	n:		Less than	100	feet		(10 points)_	
(Dow	ngradie	nt dry	, wash gr				Greater th	han 1	100 feet	t	(0 points) _	0
ten fe	et in w	idth										
Dista	nce to	Niesr	act Laka	Dlava	or Waterin	a Pand	Less than	100	feet		(10 points)	
			esi Lake (es, playa		OI TTAICIIII	ig i oliu.	Greater th			t	(0 points)	0
,	_		e waterin)						-	
			_						V	_	(20 mainte)	
1			tion Area						Ye:		(20 points) _ (0 points)	0
`			et from a ource, or	•	1				No	J	(o points) _	J
			other wa									
Diet	nec Ta	· 6··-	face Wat	or:			Less than	100) feet		(20 points)	
			race vvat ice to per				100 feet 1				(10 points)	
1,			ers, strear		ks,		Greater t				(0 points)	0
	-		and ditche		·		RANKING	G SC	ORE (TOTAL P	OINTS)	0
									<u> </u>			

Date Remediation Start	ted: 8/26/97		Date Compl	eted:	8.	26-97	
Remediation Method:	Excavation	XXX_	_Approx. cub	oic yards		60	
(Check all appropriate sections)	Landfarmed	XX	Insitu Biore	mediation			
	Other						
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite	e XX	Offsite				
General Description of	Remedial Action: Ex	cavate pit 1	to 8',took Pl	D readings	s. spread s	oil on	
location f	or remidiation. Took	soil sample	es.				
Groundwater Encount	ered: No	XXX	_ Yes_		Depth		
Final Pit: Closure Sampling:	Sample location		mposite take				
(in multiple samples, attach sample results		GRAB SA	MPLE TAKE	N FROM F	PIT BOTTO	M CENTER	•
and diagram of sample locations and depths)	Sample depth &	8" to 10" ii	nto pit side w	alls ,10" in	to pit bottor	m.	
Sample D Sample re		8/26/97		Sample Tir	me	4:00PM	
Soil:	Benzene	(ppm)	ND	Water:	Benzene	(ppb)	NA
	Total BTEX	(ppm)	ND		Toluene	(ppb)	NA
	Field Headspace	(ppm)	53.76	Eth	ylbenzene	(ppb)	NA
	TPH	(ppm)	ND	Tota	al Xylenes	(ppb)	NA NA
Groundwater Sample:	Yes	s	_ No	XXX	(If yes atta	ich sample i	results)
I HEREBY CERTIFY TH KNOWLEDGE AND BE		ON ABOVE	IS TRUE A	ND COMP	LETE TO T	THE BEST (OF MY
l	•	PRINTED	NAME		JEFF CR	OSS	
DATE 9	Muso		.E		PROJECT	MANAGE	₹
AFTER REVIEW OF TH							
THE JICARILLA APAC			•	OKE IO AI	. KOVED	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
APPROVED: YES	s_X NO	D	_(REASON)	l			
	0 7 2	1				<u></u> -	
SIGNED:	(Ma		DATE:	1(-1	3-98	,	

•

Scale Inch Equals 50 Feet

Dehy Meter

Well Head

Former Land Farm

August 20, 1997 Soil Final Disposition

WILLIAMS FIELD SERVICES
LANDFARM LOCATION MAP
Jicarilla Apache 118 Unit 10
Unit H Sec 35 Twn 26N Rng 3W

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

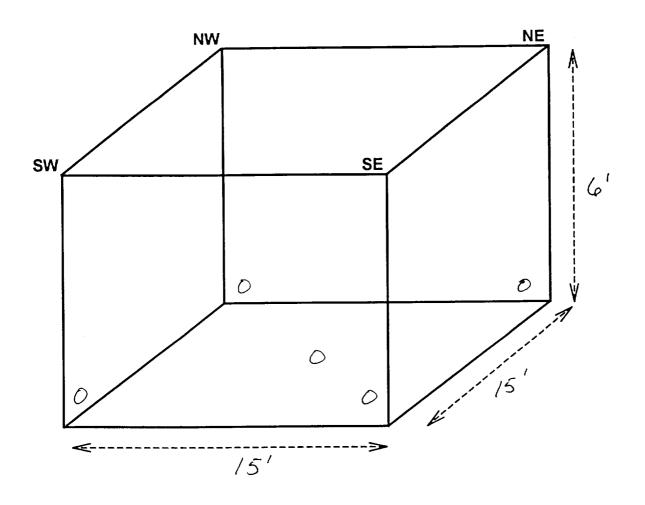
JAT A-118 # 10

LOCATION

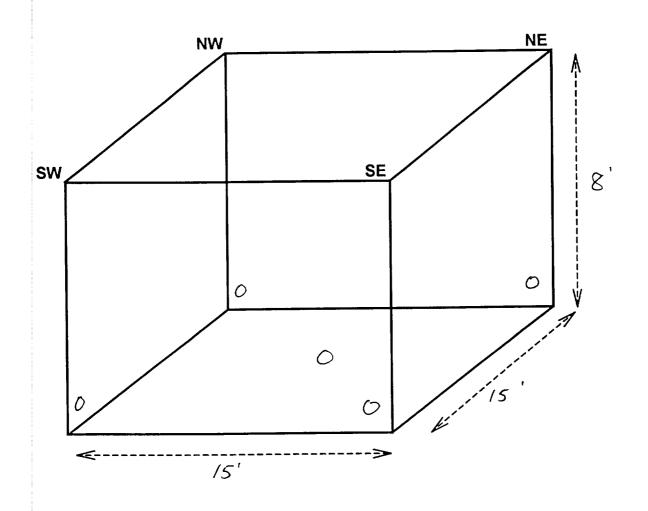
				_		OCD-BLM	• •		
PIT C	TNUC	3				EPO Represe	ntative		
			_			Date of Revie	w		
								•	
511 i=11	START:		97 PIT#3 8/26	5/97	FINISH:	PIT#1 8/22/97		<u> </u>	· · · · · · · · · · · · · · · · · · ·
DIMEN		PIT#2 8/25/9	•	The state of the s	11.45.46 5.44 1.4566.4		PIT#3 8/26/97		0111/00
D:4	W	L 101	D		Statistics (State	W	451	D	CU YDS
Pit 1	10'	10'	3'	Pit 1		15'	15'	6'	25
Pit 2	10'	10'	2'	Pit 2		15'	15'	8'	50
Pit 3	15'	15'	3'	Pit 3		18'	18'	8'	60
*************		Pit 1 @	Pit 2 @	Pit 3 @	***************************************		Pit 1 @ 6'	Pit 2 @ 8'	Pit 3 @ 8'
	Center	 	_			Center	54.5	48.5	78.1
P	NW Corner		<u> </u>		P	NW Corner	6.6	25.7	31.5
1	NE Corner	<u> </u>			1	NE Corner	65.7	40.4	59.8
D	SW Corner				D	SW Corner	50.1	38.4	46.8
	SE Corner		<u></u>	1		SE Corner	45.9	35.4	52.6
NOTES									
	8/22/97 EXC/	AVATED PIT :	# 1 , NO STAII	NING OR ODO	R,PID RE	ADINGS GOO	D , HIT BED R	OCK.	
	8/25/97 STAF	RT EXCAVAT	ION ON PIT#	2, NO STAININ	G OR OD	OR.			
	8/26/97 FINIS	SH EXCAVAT	ION ON PIT#	2, PID READIN	IGS GOO	D.			
	8/26/97 EXC/	AVATE PIT #	3 LIGHT STAI	NING AND OD	OR, EXC	AVATE TO BE	DROCK, PID I	READINGS G	DOD.
	SAMP DATE	8/22/97	8/26/97	8/26/97					
		Pit 1 @ 6'	Pit 2 @ 8'	Pit 3 @ 8'	ANALYS	IS RESULTS		PER LAB	Assaigai
	Center	54.5	48.5	78.1	PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner	6.6	25.7	31.5	NO				
1	NE Corner	65.7	40.4	59.8	1	ND	ND	J.C.	8/29/97
D	SW Corner	50.1	38.4	46.8	2	ND	ND	J.C.	9/2/97
	SE Corner	45.9	35.4	52.6	3	ND	ND	J.C.	9/2/97
	·	<u> </u>		RE-SAMPLE			l		
DATE:		Pit 1 @	Pit 2 @	Pit 3 @		IS RESULTS		PER LAB	
	Center	1	1	1	PIT	TPH	BETEX	WITNESS	DATE
ρ	NW Corner			-	NO	1111	BETEX	William	DATE
1	NE Corner	 	 	 	1				
D	SW Corner	 	<u> </u>	 	2				
w	SE Corner	 			3				
	JUL COMMEN		<u> </u>	RE-SAMPLE		(S) SAMPLE	1	<u> </u>	L
DATE:		Pit 1 @	TDit 2 @			IS RESULTS		PER LAB	
DATE.	Contai	Tru (W	Pit 2 @	Pit 3 @			DETEV	T	DATE
-	Center		4	- 	PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner	 			NO		1	ı	I
i	NE Corner	<u> </u>	1		1	ļ			
D	SW Corner		 		2		 		
	SE Corner				3		<u></u>	<u> </u>	1

Jicarilla Apache Tribal EPO/OCD/BLM

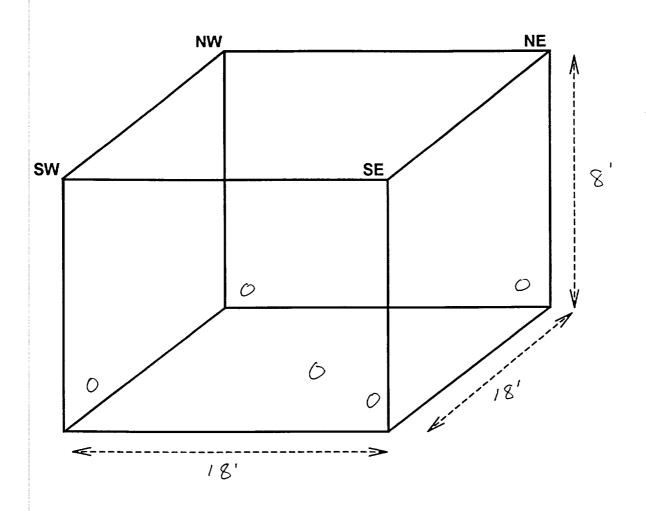
Review and Approval



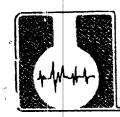
					=	SAMPLE AREA
WELL NA	ME	JAT A118 # 10 PI	Γ#1			
SAMPLE	DATE	8/22	2/97			
NOTES	4 POI	NT COMPOSITE SA	MPLE TAKEN	B" TO 10" IN	TO PIT	
	SIDE	WALL				·;
	1 PO	INT GRAB SAMPLE	TAKEN 10" TO	12" INTO B	оттом с	ENTER
	HIT BED	ROCK	····			
	•	7.41			<u> </u>	



			= SAMPLE AREA
WELL NA	ME	JAT A118 # 10 PIT # 2	
SAMPLE DATE		8/26/97	
NOTES	4 POIN	T COMPOSITE SAMPLE TAKEN 8" TO	IO" INTO PIT
	SIDEV	VALL	
	1 POIN	NT GRAB SAMPLE TAKEN 10" TO 12" IN	ITO BOTTOM CENTER
	HIT BEDR	OCK	



			= SAMPLE AREA
WELL NA	ME	JAT A118 # 10 PIT # 3	
SAMPLE I	DATE	8/26/97	<u></u>
NOTES	4 POIN	T COMPOSITE SAMPLE TAKEN 8" TO 10	O" INTO PIT
	SIDEW	/ALL	
M 44 M 10 M 10 M 10 M 10 M 10 M 10 M 10	1 POIN	IT GRAB SAMPLE TAKEN 10" TO 12" IN	O BOTTOM CENTER
	F		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HIT BEDR	оск	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			



ASSAIGAI ANALYTICAL LABORATORIES, INC.

SEP 1997 HECZIYED

7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • (505) 345-7259

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

Report Generated:

September 3, 1997 10:19

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9708256

WORK ID :

: JICARILLA PIT CLOSURES

CLIENT CODE

: APA01

DATE RECEIVED : 08/27/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708256-01A

Sample ID: A118 #10 PIT #1 SIDES

Collected: 08/22/97 14:30:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND	mg/kg	0.0050	100	08/29/97	X97234
	ND	mg/kg	0.0050	100	08/29/97	X97234
	ND	mg/kg	0.0050	100	08/29/97	X97234
	ND	mg/kg	0.010	100	08/29/97	X97234
	ND	mg/kg	0.0050	100	08/29/97	X97234

Lab ID: 9708256-01B

Sample ID: A118 #10 PIT #1 SIDES

Collected: 08/22/97 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	08/28/97	SDRO050

Lab ID: 9708256-02A

Sample ID: A118 #10 PIT #1 BOTTOM

Collected: 08/22/97 15:00:00

Matrix: SOIL

Sample ID: All 8 #10 Pli	#I BOITON	TIZECT MATERIAL CO.					=
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	08/29/97 08/29/97 08/29/97 08/29/97 08/29/97	X97234 X97234 X97234 X97234 X97234	



Page: 2

() ID: 9708256-02B Sample ID: A118 #10 PIT #1 BOTTOM

Collected: 08/22/97 15:00:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	08/28/97	SDRO050

President

WORKORDER COMMENTS

DATE : 09/03/97 WORKORDER: 9708256

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"

 $\overline{N}T$ = 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

Please note that all BTEX analyses were performed by method SW846-8240.

Chain of Cust 1y Record

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

Client Apache Corporation

ALBUOUERQUE, NEW MEXICO 87: (505) 345-8964

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

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

6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320 **MELQUIADES ALANIS**

Jarrahio Stored over 30 days (additional fee) Disposed of (additional fee) Analysis Required Returned to customer Stored (30 days max) After analysis, samples are to be: Received by: 27 Ang 9 Figuature. Company Reason 16:30 × 5.011 ICE Temp. Chemical Preservation Telephone No. (505) 774-6643 Relinquished by: Signeture_ Company. Reason Fax No. (505) 774-6624 Type / Size of Container 402 Glass Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature) Ses 7 Sample Type , Ř 4118#10 P. +#1 Sides 8-22-97 2:30 3:00 Ě Received by: Comments: Company. Reason ... Osts 8-22-57 City/State/ZipEarmington, NM 87401 12:45 Allto P. 1th Ballen Date Sample Number / Location Address 304 N. Behrend Contract / Purchase Order / Quote Wethod of Shipment: Special Instructions: Relinquished by: $\theta \iota$ AAL FRACTION HUMBER Shipment No. Company ... Reason _



ASSAIGAI ANALYTICAL LABORATORIES, INC.



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

Report Generated:

September 3, 1997 13:38

CERTIFICATE OF ANALYSIS **RESULTS BY SAMPLE**

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9708258

WORK ID

: JICARILLA PIT CLOSURES

CLIENT CODE

: APA01

DATE RECEIVED : 08/27/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708258-01A

Sample ID: A118 #10 PIT #2 SIDES

Collected: 08/26/97 10:00:00

Matrix: SOIL

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	50 50 50 50 50 50	09/02/97 09/02/97 09/02/97 09/02/97 09/02/97	X97235 X97235 X97235 X97235 X97235

Lab ID: 9708258-01B

Sample ID: A118 #10 PIT #2 SIDES

Collected: 08/26/97 10:00:00

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	25	25	08/28/97	SDRO050

Lab ID: 9708258-02A

Sample ID: A118 #10 PIT #2 BOTTOM

Collected: 08/26/97 10:30:00

Matrix: SOIL

Sample ID. Allo #10 111	πZ DO110					
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluere 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	50 50 50 50 50	09/02/97 09/02/97 09/02/97 09/02/97 09/02/97	X97235 X97235 X97235 X97235 X97235



Collected: 08/26/97 10:30:00

Sample I	D:A118 #10 PIT #	2 BOTTOM	Matrix: So	DIL	, 10		
rest /	METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Rang Diesel Ran	e OG Soil/M8015 ge OG in Soil	ND	mg/Kg	25	25	08/28/97	SDRO050
	9708258-03A D: A118 #10 PIT #	3 SIDES	Collected: Matrix: SO		97 16	:00:00	
rest /	METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW8- Benzene Toluene Ethylbenze P-&m-Xyle O-Xylene	ne	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	50 50 50 50 50	09/02/97 09/02/97 09/02/97 09/02/97 09/02/97	X97235 X97235 X97235 X97235 X97235
	9708258-03B D: A118 #10 PIT ‡	3 SIDES	Collected: Matrix: So		97 16	:00:00	
3T /	METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Rang Diesel Ran	e OG Soil/M8015 ge OG in Soil	ND	mg/Kg	25	25	08/28/97	SDRO050
	9708258-04A D: A118 #10 PIT #	BOTTOM	Collected: Matrix: So		97 16	:30:00	
rest /	METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW8 Benzene Toluene Ethylbenze P-&m-Xylo O-Xylene	ne	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	50 50 50 50 50	09/02/97 09/02/97 09/02/97 09/02/97 09/02/97	X97235 X97235 X97235 X97235 X97235
	9708258-04B D: A118 #10 PIT ‡	3 BOTTOM	Collected: Matrix: So		97 16	:30:00	
TEST /	METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
	e OG Soil/M8015 ge OG in Soil	ND	mg/Kg	25	25	08/28/97	SDRO050

Milliam P. Biava
President

WORKORDER COMMENTS

DATE

: 09/03/97

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 Custc y Record

Project Manager / Contact __<u>Jeff__Cross</u>

Client Apache Corporation

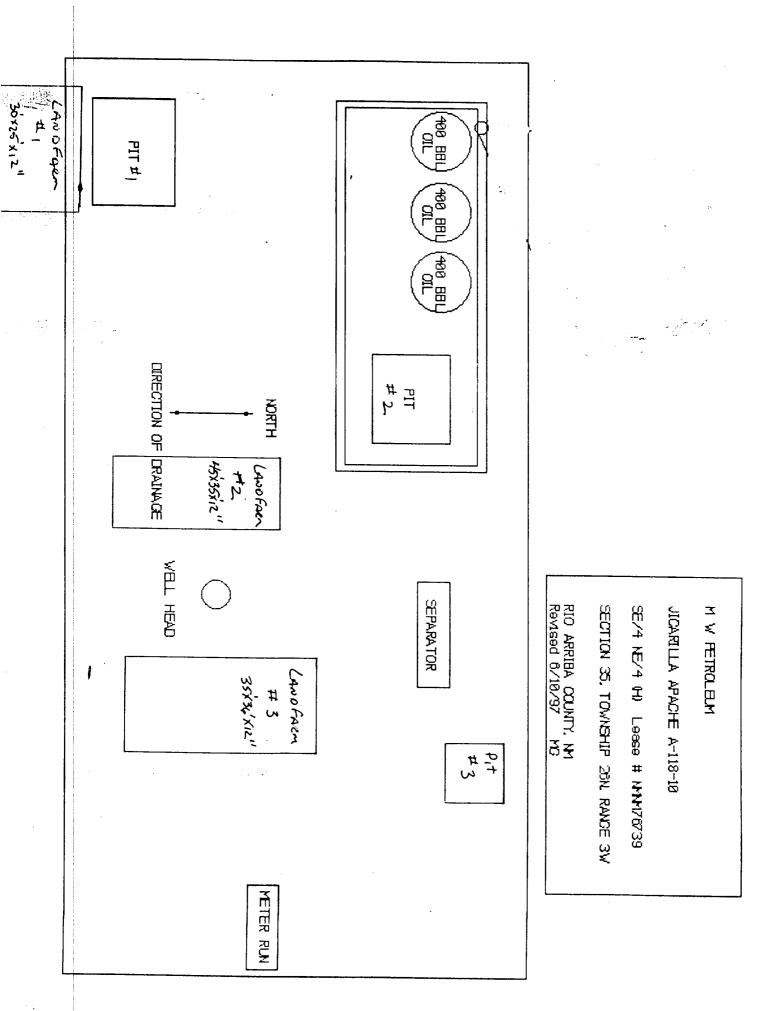
Page

ALBUQUERQUE, NEW MEXICO 87105 (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

Address 304 N. Behrend		Telephone No. (505) 774-6643	Analysis Required
City/State/ZipEarmington, NM 87401	NM 8740J	Fax No. (505) 774-6624	
Project Name / Number JICARILLA PIT CLOSURES	A PIT CI	Samplers: (Signature) Life Make	Melinere Remarks
Contract / Purchase Order / Quote			100 / 20 / 20 / 20 / 20 / 20 / 20 / 20 /
Fleid Fleid Sample Number / Locardon	don Sala	Time Sample Type / Size of Container Temp. Chemical	
1/2 A118#0P. 4#25.45 8.2.97 10:00 50.1	5.des 8.x	402 610 55	×
(8)	,,		×
24 A119# W.P. +#3 BeTTE	Better	() () () () () ()	×
	`		×
3A 4118#OP.T#35.des	Sides	00:3	×
3.18	1		×
4A 41/8#10P.1*313ctter	ofter	4.30	×
18 " N			X
	-		
1			
telinquished by	Date 0		27 Aug 9 Translood by:
42660005	7-17-9	Amendic Track	1
" Spach	Time (7, 2)	AAC Company	Time Films Company AAL
Reason	,,,2/	Reason	Nesson
			After analysis, samples are to be:
Nethod of Shipment:		Comments:	Disposed of (additional fee)
Shipment No.			Stored (30 days max)
Special Instructions:			Stored over 30 days (additional fee)
			☐ Returned to customer



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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>M W PETR</u>	OLUEM			Telephor	ne	505-325-0	318	
Address:	2855 SOUTHSIE	DE RI	VER ROAD	SUITE A	VFARMING	TON, N.M.	87401-7947	
Facility or Well Name:	JAT /	A118 :	# 10 CELL	#1				
Location: Unit or Qtr/	Qtr SecI	Η	SEC 35	T 26N	R 3W	_County	RIO ARRI	ВА
Land Type	JIC. TRIBAL							
Date Remediation Started	d: 8/2	2/97		Date Co	mpleted:		8/18/98	***
		2101	xxx		cubic yards	<u></u>		
	Landfarmed			_Approx.	cubic yaius			
	Composted Other			- REMEDI	IATED SOIL	PUT BACK	(IN PIT	
	Ottlei			T(EIIIED)				
Depth to Groundwater:		(pts)	0		Final Clo	sure Samp	oling	
Distance to an Ephemera	al Stream:	(pts)	0	Samplin	g Date:	8/18/98	_Time:	11:10AM
Distance to Nearest Lake	e, Playa,	(pts)		Sample	Results:			
or Watering Pond:				Field Head	space (ppm)	0		
Wellhead Protection Area	a:	(pts)	0	TPH	(ppm	n) ND	Method	M8015
Distance To Surface Wa	ter:	(pts)	0	Oth	er BTEX \S	SW846 , 80	20A (NI)
RANKING SCORE (TOT	TAL POINTS)		0					
I HEREBY CERTIFY TH KNOWLEDGE AND BEL		MATIC	ON ABOVE	IS TRUE	AND COMP	LETE TO	THE BEST (OF MY
DATE:	9/14/98		_PRINTEC	NAME		JEFF CI	ROSS	
SIGNATURE	ff Cron		_TITLE		PROJEC	T MANAG	ER	
AFTER REVIEW OF TH ACCORDANCE TO THE							N IS APPR	OVED IN
APPROVED: YES		NC)	_(REASC	ON)			
SIGNED:	C Ma		MATE:	<u> </u>	-13-9	Bock 18	- fill	

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

ON-SITE SOIL REMEDIATION REPORT

Operato	or: MWPET	ROLUEM			Telephon	e	505-325-0	318	
Addres	s:	2855 SOUTH	ISIDE RIV	ER ROAD	/SUITE A	/FARMING	TON, N.M.	87401-7947	,
Facility	or Well Name:	JA	AT A118#	A118 # 10 CELL # 2					
Locatio	n: Unit or Q	tr/Qtr Sec _	Н	SEC 35	T 26N	R 3W	_County	RIO ARRI	ВА
Land T	уре	JIC. TRIBAL	·						
						·			
Date R	emediation Start	led:	8/25/97		_Date Con	npleted:		8/18/98	
Remed	liation Method:	Landfarmed	-	XXX	_Approx. o	cubic yards		50	
		Composted	_		_				
		Other			REMEDIA	ATED SOIL	PUT BACK	(IN PIT	
Denth	to Groundwater:		(pts)	0		Final Clo	sure Samı	oling	
and a second		and Ot-	•		Compline				11:20AM
Distanc	ce to an Epheme	erai Stream:	(pts)			g Date:	0/10/90	IIIIIE.	11.20/191
	ce to Nearest La ering Pond:	ke, Playa,	(pts)	0	Sample F	Results:			
D. La serial	ead Protection A	rea:	(pts)	0	Field Heads	space (ppm)	0		
					ТРН	(ppm	n) <u>ND</u>	Method	M8015
Distan	ce To Surface W	/ater:	(pts)	0	Oth	er BTEX \S	SW846 , 80	20A (N)
RANK	ING SCORE (TO	OTAL POINTS)	0	-				
	EBY CERTIFY T VLEDGE AND B		ORMATIO	N ABOVE	IS TRUE	AND COMP	LETE TO	THE BEST (OF MY
DATE:	: <u> </u>	9/14/98		PRINTED	NAME		JEFF C	ROSS	
SIGNA	ATURE	Jeff Cro	>	TITLE		PROJEC	T MANAG	ER	
	R REVIEW OF THE RDANCE TO THE							N IS APPR	OVED IN
APPR	OVED: YE	s X	NO		_(REASO	N)		7//	_
SIGN	ED:	=Chla		DATE:	<u>usl</u> _//-	co 6	Rarek.	Jull -	

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

ON-SITE SOIL REMEDIATION REPORT

Opera	tor:	M W PETE	ROLUEM			_Telephor	ne	505-325-0	0318	
Addres	\$ S:		2855 SOUT	HSIDE RIV	ER ROAL	SUITE /	A/FARMING	TON, N.M.	87401-7947	7
Facility	y or We	ell Name:	J	IAT A118 #	10 CELL	#3				
Locati	on:	Unit or Qtr	/Qtr Sec _	Н	SEC 35	T 26N	R 3W	County	RIO ARR	IBA
Land 7	Гуре		JIC. TRIBA	L						
	Addition to the same of the sa	inting Otal		9/26/07		Data Ca	moleted:		8/18/98	
Date F	kemed	iation Starte	ed:	8/20/91		_	mpleted:			
Rerne	diation	Method:	Landfarmed	١.	XXX	_Approx.	cubic yards		60	
	to reachest to test to		Composted	,		_				
	MATERIAL TOTAL CONTRACTOR		Other			REMED	IATED SOIL	TO SPRE	AD ON LOC	CATION
Depth	to Gro	oundwater:		(pts)	0		Final Clo	sure Sam	pling	
Distar	ce to a	an Ephemer	ral Stream:	(pts)	0	Samplin	g Date:	8/18/98	Time:	11:30AM
8	i	Nearest Lak	e, Playa,	(pts)		Sample	Results:			
or Wa	tering	Pond:			0	Field Head	Ispace (ppm)	0		
Wellh	ead Pr	otection Are	ea:	(pts)	0	- TPH	l (ppn	n) 960	Method	M8015
Dista	nce To	Surface Wa	ater:	(pts)	0		ner BTEX \			· · ·
RAN	KING S	CORE (TO	TAL POINTS	5)	0	_	IEI DILX TO	311040,00	5207	
•	!	CERTIFY TH	HAT THE INF	ORMATIC	N ABOVE	IS TRUE	AND COMP	PLETE TO	THE BEST	OF MY
DATE	•		9/14/98		PRINTE	NAME		JEFF C	ROSS	
SIGN	ATUR	<u> </u>	of lion		TITLE		PROJEC	T MANAG	SER	
			HE SOIL REM E JICARILLA						N IS APPR	OVED IN
APP	ROVED): YES	s_ <u>X_</u>	NO		_(REAS	ON)			. / !
SIGN	ED: <	Ken	C Me		_DATE:	<u>ua</u>	e as	Bac 98	KJul	<u> </u>

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	JAT A118 # 10		•	
* AMOUNT OF SOIL UNDERGOIL	NG REMEDIATION	135	Yds.	
		SampDATE	TPH	BTEX
CELL No. 1		4/28/98	1800	ND
CELL INO.		6/14/98	1600	ND
001 V	051 V 40!!	8/18/98	ND	ND
DIMENSIONS(LxWxH) 30' X	25' X 12"	0/10/90	IND	ND
CELL LOCATION (dir. from well head	WEST			
* DATE BEGAN: 8/22/97				
DATE TERMINATED (TPH <5,000 ppm/	BTEX< 50 ppm/Benzene < 10 ppm)	8/18/98	3	
		SampDATE	TPH	BTEX
CELL No. 2		4/28/98	1300	ND
OCC		6/14/98	1500	ND
DIMENSIONS(LxWxH) 45' X	35' ¥ 12"	8/18/98	ND	ND
DIMENSIONS(EXVXH) 45 X	33 7 12	0.10/00		
CELL LOCATION (dir. from well head	WEST			
OEEE EGO/TION (dii. Hom won nead				
* DATE BEGAN: 8/25/97				
DATE TERMINATED (TPH <5,000 ppm	/BTEX< 50 ppm/Benzene < 10 ppm)	8/18/98	3	-
		SampDATE	TPH	BTEX
CELL No. 3		4/28/98	2600	ND
CELL IVO.		6/14/98	2900	ND
251	201 V 409	8/18/98	960	ND
DIMENSIONS(LxWxH) 35' X	. 36 X 12	0/10/30	300	110
CELL LOCATION (dir. from well head	EAST			
				<u> </u>
* DATE BEGAN: 8/26/97				<u> </u>
DATE TERMINATED (TPH <5,000 ppm	/BTEX< 50 ppm/Benzene < 10 ppm)	8/18/9	8	-
REMEDIATION RECORD: (Date, Treat	ment, Tilling)			
8/29/97 TREAT CELLS WITH 46-0-0 FE	ERTILIZER,WATER,PLOW AND TILL	SOIL.		
9/23/97 PLOW AND TILL SOIL.				
4/23/98 PLOWED SOIL CELLS.		MAND THE CO	<u></u>	
4/24/98 TILLED SOIL CELLS.	8/4/98 WATER,PLO			
5/17/98 PLOWED SOIL CELLS.	8/17/98 PLOW AND	TILL SOIL CELL	.o.	
5/18/98 TILLED SOIL CELLS.	OFILE			
6/12/98 WATER, PLOW AND TILL SOIL				-
7/8/98 PLOW CELLS. 7/23/98 TILL SO	IL UELLO.			

From excavation reports.

WELL NAME: SAMPLE DATE: DIMENSIONS:	A118 #10 Cell #1 8-18-98	O = SAMPLE AREA
0		
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL.	

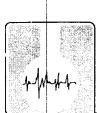
DIMENSIONS:	45' x 35' x 12"	
0		
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL. Spowt composite sample	

A118 #10 Cell #2 8-18-98 45' x35' x12" = SAMPLE AREA

WELL NAME: SAMPLE DATE:

WELL NAME: SAMPLE DATE: DIMENSIONS:	A118 #10 ceil #3 8-18-98 35' x36' x12"	O = SA	= SAMPLE AREA
			,
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL.		

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ASSAIGAI ANALYTICAL LABORATORIES, INC.



7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8904

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: AF

APACHE CORPORATION

Project: 9808196

JICARILLA PIT CLOSURES

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

Client Sample ID	A118 #1	0 CEL	L #1		mple SOIL	-			Sample Collected	08/18/98 11:10:00
	A DEBLICA WILLIAM					Dilution	Detection			Run
<u>Fraction</u>	QC Group	CAS#		Result	<u>Units</u>	Factor	<u>Limit</u>	*	<u>Sequence</u>	<u>Date</u>
			Test: SW846 8015A/8020A GRO	/ Purgeable Aroma	atics					
9808196-01A	X98392	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.704-11	08/21/98
	X98392	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.704-11	
	X98392	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.704-11	
	X98392		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.704-11	
	X98392	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.704-11	
			Test: SW846 8015A Diesel Rang	ge Organics by GC	/FID		i			
			Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.700-11	08/22/98
9808196-01B	X98391					J	<u></u>			
Client	A118 #1	10 CEL			mple SOIL	_	· · · · · · · · · · · · · · · · · · ·		Sample Collected	08/18/98 11:20:00
		10 CEL				- Dilution	Detection			
Client Sample ID		O CEL					Detection <u>Limit</u>	*		11:20:00
Client Sample ID	A118 #1	CAS#	L #2	Ma <u>Result</u>	<u>Units</u>	Dilution		*	Collected	11:20:00 Run
Client Sample ID	A118 #1	CAS#	L #2 Test: SW846 8015A/8020A GRO	Ma <u>Result</u>	Units atics	Dilution		*	Collected	11:20:00 Run
Client Sample ID Fraction	A118 #1	CAS#	L #2 Test: SW846 8015A/8020A GRO Benzene	Result O / Purgeable Arom	<u>Units</u>	Dilution <u>Factor</u>	<u>Limit</u>	*	Collected Sequence	11:20:00 Run <u>Date</u>
Client Sample ID Fraction	A118 #1	CAS #	L #2 Test: SW846 8015A/8020A GRO Benzene Ethylbenzene	Result O / Purgeable Arom	Units atics mg/Kg	Dilution Factor	<u>Limit</u>	*	Sequence XG.1998.704-12	11:20:00 Run <u>Date</u>
Client Sample ID Fraction	A118 #1 QC Group X98392 X98392	CAS#	L #2 Test: SW846 8015A/8020A GRO Benzene	Result O / Purgeable Aromo ND ND	Units atics mg/Kg mg/Kg	Dilution Factor	0.005 0.005	*	Sequence XG.1998.704-12 XG.1998.704-12	11:20:00 Run <u>Date</u>
Client Sample ID Fraction	QC Group X98392 X98392 X98392	CAS#	L #2 Test: SW846 8015A/8020A GRO Benzene Ethylbenzene o-Xylene	Result O / Purgeable Arom ND ND ND	Units atics mg/Kg mg/Kg mg/Kg	Dilution Factor 50 50	0.005 0.005 0.005	*	XG.1998.704-12 XG.1998.704-12 XG.1998.704-12	11:20:00 Run <u>Date</u>
Client Sample ID Fraction	QC Group X98392 X98392 X98392 X98392	71-43-2 100-41-4 95-47-6	L #2 Test: SW846 8015A/8020A GRO Benzene Ethylbenzene o-Xylene p/m Xylenes	Result O / Purgeable Arom. ND ND ND ND ND ND ND	Units atics mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	50 50 50 50	0.005 0.005 0.005 0.005	*	XG.1998.704-12 XG.1998.704-12 XG.1998.704-12 XG.1998.704-12	11:20:00 Run <u>Date</u>



Client Reports

2.0

Report Date

8/25/98 10:01:27 AM



Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client:

APACHE CORPORATION

Project: 9808196

JICARILLA PIT CLOSURES

Client Sample ID	A118 #1	10 CEL	L #3	Sar Ma	nple SOIL	-			Sample Collected	08/18/98 11:30:00
						Dilution	Detection			Run
<u>Fraction</u>	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	Limit	*	<u>Sequence</u>	Date
	NA COMPA AND ADDRESS OF THE ADDRESS		Test: SW846 8015A/8020A GR	O / Purgeable Aroma	tics					
9808196-03A	X98392	71-43-2	Benzene	ND	mg / Kg	50	0.005)	XG.1998.704-13	08/21/98
	X98392	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.704-13	
	X98392	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.704-13	
	X98392		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.704-13	
	X98392	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.704-13	
	TO LINE A REAL PROPERTY.	-	Test: SW846 8015A Diesel Ran	nge Organics by GC/	FID					
9808196-038	X98391	í	Diesel Range Organics	960	mg / Kg	25	25		XG.1998.700-13	08/22/98

^{***} 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. ***

Chain of Custody Record

2013 was | D. . . |

_ Project Manager / Contact_Jeff_Cross----

pache Corporation

idness 2855	signess 2855 South Sigh River Roll STE. A Telephone No. (505) 774-6643	1201. STE.	4	, Telepi	hon e No. <u>(505)</u> 774	1-664	آ ا	,			,	>	Analysus Required	berauge			
y/State/	y/State/ZpEarmington, NM_87401-7947_ Fax No. (505) 774-6624	7401-79	77	Fax N	<u> </u>	24		•	_	`							
oject Name	oject Name / Number JICARILLA PIT CLOSURES Samplers: (Signature)	r crosu	ES.	Sampl	ers: (Signature)	A Cuc	.3	•	leinere				\				Remarks
ntract / Pu	ntract / Purchase Order / Quote				7	•			or con	\leq	\ \\S\2	_	<u> </u>		\	\	
								<u></u>	>> >>	2	<u> </u>	<u> </u>	\	\	_		
MOL DEE	Field / market			Sample	1	Pres	Preservation	_	9	2	_	_	\	<u> </u>	_		
ACHBER S	Sample Number/ Countries .	-		Type	Type / Size of Compliner	Temp.	Chemical		~	Z	_	\	<u>'</u>	_	\		
D	A118#10 Cell#1	8-1848 1	i)o	<u>کيٰ ا</u>	8-1846 11:10 Spil 402 91ASS		Tie	_	<u>×</u>			\neg		-			
ā	_	-	<u>.;</u>	\$0./ 	11:10 Spit Hos Class		727			-		-			\dashv		

Returned to customer			
Stored over 30 days (additional fee)			
Stored (30 days max)			MARKATA MARKATA MARKATAN MARKAT
Disposed of (additional fee)		Comments	
After analysis, samples are to be:			
1745 Company & 21 TOCO. OC	Reason Arialysis	The state of the s	1015
	₽		
BASYS Signature	Signature Den P. History	Signature WAN. P. History	16/51/01
	,		
3		1 /1:50	
	- x	11:30	18#10 Cell #3
		11:20	
	 X 		15#10 Cell #2
	丁ce	11:10 Soil HOZ GlASS	
		8th llip soil Hoz glass	8#10 Cel1#1 8-18%
	Preservation / Chemical	te Time Sample Type / Size of Container	Field Location . Date
	~<1		e Order / Quote
 Manufis Remarks	Container	OSURES Samplers: (Signature)	mberJICARILLA PIT CLOSURES
	\ <u>\</u>	1	
	_		rminaton NM 87401-7647

22/29

22

B

LABORATORY

al Instructions:

WATE NO.

d of Shipment

APACH

335

Wayned by: A

ALBUQUEHQUE NEW MEXICO 87109 (505) 245-8964

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

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

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CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320