District Form S. Fourt State of New Mexico

1000 Rio Brazos Re GAS PRISE Missaals and Natural Resources Department

Aztec, Wir 87470 OLL & GAS PRISE Missaals and Natural Resources Department

Submit 1 copy to Appropriate District

DEC 1 7 1998

OIL CONSERVATION DIVISION

2040 S. PACHECO Santa Fe, New Mexico 87505



PIT REMEDIATION AND CLOSURE REPORTSONS, DIV.

^ / / /	(1/1 /	ye ye and the second se					Ditarte of				
Operator:	Apache Co	rporation			_Telephone):	505-325-0	318			
Address:	2855 South	nside River Road, S	uite A, Farm	nington, Ni	/ 87401			···			
Facility or \	acility or Well Name:			Apache # 125 #9 Pit #1							
Location:	Unit or Qtr/0	Qtr Sec	M	Sec 36	T 25 N	R 4W	County	Rio Arriba			
Pit Type:	Separator:		Dehydrator	r	Other	Blow Pit					
Land Type	<u>:</u>	Jicarilla Tribal									
	Beginni	ing Pit Dimensions:	Length	30'	Width	30	Depth	4'			
Pit Location: (Attach dia		ng Pit Dimensions:	Length	36'	- Width	30'	Depth				
(Maon ala	Refere	nce:	Wellhead	xxx	Other						
	Footag	e from reference:		150'		_					
	Direction	on from reference:		162	Degrees	x	East	North			
							of West	South	xx		
	Groundwate	r:		-	Less than	50 feet		(20 points)			
(vertical distar					50 feet to 9			(10 points)			
contaminants high water ele groundwater)	evation of				Greater tha	an 100 feet		(0 points) _	0		
	Protection A						Yes	(20 points)			
domestic w		n a private or; less than water sources)					No	(0 points)	0		
	o Surface V				Less than 2			(20 points)_			
	distance to p	perenniai eams, creeks,			200 feet to			(10 points)			
	anals and dite				Greater tha	in Todo feet		(0 points) _	0		
-		,			RANKING	SCORE (TO	OTAL POIN	TS) -	00		

Date Remediation Sta	rted:	5/27/97		_Date Com	oleted:	5/30/97
Remediation Method: (Check all appropriate		Excavation	XXX	_Approx. cu	bic yards	320
sections)	Landfarmed		XX	_Insitu Biore	emediation	
		Other				
Remediation Location	ı:	Onsite	XX	Offsite		
(i.e. landfarmed onsite, name and location of offsite facility)						
General Description o	f Remedial Action:		Excavate	pit to 12', to	ook PID readings	
Spread soil	on location for rem	ediation.	Took soil s	samples.	Cell # 1 & 3 to be	e put back in pit.
Cell #2 to b	e spread on location	n				
			,	•		
Groundwater Encoun	tered:	No	X	Y es		Depth
Final Pit: Closure Sampling: (in multiple samples,	Sample location	<u></u>	4 point com	nposite taken f	rom pit sidewalls and	l pit bottom center
attach sample results and diagram of sample	Sample depth	12'	8 to 10" i	nto pit side	walls 10" into nit	hottom
locations and depths)			8 to 10" into pit sidewalls 10" into pit bottom			10:00 A.M.
	Sample Date Sample results		5/30/9	1	Sample Time	10:00 A.M.
	Benzene		(ppm)	ND		
	Total BTEX		(ppm)	ND	-	
	Field Headspace		(ppm)	14.2	_	
	TPH			ND	_	
Groundwater Sample		Yes		No		s attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO	VE IS TRU	E AND CON	IPLETE TO THE I	BEST OF MY
DATE	June 24, 1998		PRINTED	NAME	Jeff Cross	
SIGNATURE	Molion		_AND TITI	LE	Project Manage	
i (1					

District III 1000 Rio Brazos Rd Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION 2040 S. PACHECO

Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator:	Apache Corporation			Telephone	:	505-325-0	318	
Address:	2855 Southside River Road, Su	uite A, Farm	nington, NN	N 87401				
Facility or	Well Name:	Apache #	125 #9 Pit	:#2				
Location:	Unit or Qtr/Qtr Sec	M	Sec 36	T 25 N	R 4W	County	Rio Arriba	
Pit Type:	Separator:	_Dehydrato	r	Other	Blow Pit			
Land Type	: Jicarilla Tribal				·		-	
	Beginning Pit Dimensions:	Length	15'	Width	15	_ Depth	3'	
Pit Location: (Attach dia	Ending Pit Dimensions:	Length	20'	Width	20	_ Depth	<u>17'</u>	
(maon ale	Reference:	Wellhead	XX	Other				
	Footage from reference:		120'		-			
	Direction from reference:		250	Degrees		_East of	North _	
					XX	_West	South _	Х
Depth To	Groundwater:			Less than	50 feet		(20 points)	
(vertical dista	ance from			50 feet to			(10 points)	
contaminants				Greater th	an 100 feet		(0 points) _	0
high water ele groundwater)								:
	Protection Area:					Yes	(20 points)	
B *	200 feet from a private					No	(0 points)	0
	water source, or; less than from all other water sources)							
	To Surface Water:			Less than			(20 points)	
I '	Il distance to perennial ds, rivers, streams, creeks,				o 1000 feet an 1000 fee	\	(10 points) _ (0 points)	0
	anals and ditches)						•	U
				RANKING	SCORE (T	OTAL POIN	ITS) -	0

Date Remediation Started:		6/20/97		_Date Com	pleted:	6/21/97	
Remediation Method: (Check all appropriate		Excavation	xxx	_Approx. cu	ubic yards	207	
sections)	Landfarmed		XX	_Insitu Biore	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 17', to	ook PID readings.		
Spread soi	l on location for rem	ediation.	Took soil s	samples.	Cell # 1 & 3 to be	put back in pit.	
Cell #2 to b	e spread on location	1					
	•		- 112				
					<u>-</u>		
Groundwater Encoun	tered:	No		<u>(</u> Yes	D.	epth	
Final Pit: Closure Sampling: (in multiple samples,	Sample location		4 point com	posite taken f	rom pit sidewalls and	pit bottom center	
attach sample results and diagram of sample	Sample depth	17'	8 to 10" i	nto pit side	walls 10" into pit t	oottom	
locations and depths)	Sample Date Sample results		6/21/9	7	Sample Time	10:00 A.M.	
	Benzene		(ppm)	ND	<u>) </u>		
	Total BTEX		(ppm)	ND	<u>-</u>		
	Field Headspace		(ppm)	94	<u> </u>		
	TPH			3300\side	_		
Groundwater Sample	:	Yes		4200\BTM 		attach sample results)	
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO	VE IS TRU	E AND COM	MPLETE TO THE B	EST OF MY	
DATE	June 24, 1998		PRINTED	NAME	Jeff Cross		
SIGNATURE	eff lion		_AND TITI	.E	Project Manager		

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: M W PETROLEUM	Telephone505-325-0318				
Address: 304 N. BEHREND, FARMINGTON, N.M.	84701				
Facility or Well Name: JAT 125 # 9 PIT # 1					
Location: Unit or Qtr/Qtr Sec M SEC 36	T 25N R 4W County RIO ARRIBA				
Pit Type: Separator: Dehydrator	Other BLOW PIT				
Land Type: JIC. TRIBAL					
Pit Location: Pit Dimensions: Length <u>36'</u>	Width 30' Depth 12'				
(Attach diagram) Reference: Wellhead XXX	Other				
Footage from reference: 150'	 				
Direction from reference: 162	DegreesXEast North				
	of West South XX				
Depth To Groundwater:	Less than 50 feet (20 points)				
(vertical distance from	50 feet to 99 feet (10 points)				
contaminants to seasonal	Greater than 100 feet (0 points) 0				
high water elevation of groundwater)					
Distance to an Ephemeral Stream:	Less than 100 feet (10 points)				
(Downgradient dry wash greater than	Greater than 100 feet (0 points) 0				
ten feet in width					
Distance to Nearest Lake, Playa, or Watering Pond:	Less than 100 feet (10 points)				
(Downgradient lakes, playas and	Greater than 100 feet (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 100 feet (20 points)				
(Horizontal distance to perennial	100 feet to 1000 feet (10 points)				
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet (0 points) 0				
irrigation canals and ditches)	RANKING SCORE (TOTAL POINTS) 0				

Date Remedi	ation Start	ed: 5/2	27/97	_Date Comp	leted:	5.3	30-97	
Remediation		Excava	ation XXX	_Approx. cut	pic yards		320	
(Check all apposentions)	propriate	Landfar	med XX	Insitu Biore	mediation			
		Other	r	_	_			
Remediation (i.e. landfarm name and loc	ed onsite,		Onsite XX	_Offsite				
offsite facility)							
General Desc	cription of	Remedial Action	n: Excavate pit	to 12',took F	PID readings	s. spread	soil on	
	location fo	or remidiation. T	ook soil sampl	es. Cell#1	3 TOBE put	BACK IN	pit Cellt	2 70 Be
Groundwate			No xxx					
Final Pit:		Sample location	4 POINT	COMPOSITE	SAMPLE T	AKEN 8 T	O 10" INTO) PIT
Closure Sam (in multiple sa		SIDE	WALLS,GRAB	SAMPLE TA	KEN 10" INT	O PIT BO	OTTOM CE	NTER.
attach sample and diagram	e results							
locations and	•	ate	5/30/97		Sample Time		10:00AM	
	•		(1	ND	M/-4 5		(h)	
	Soil:	Benzene	(ppm)	•		Benzene	(ppb)	NA
		Total BTEX	(ppm)	ND	Т	oluene	(ppb)	NA
		Field Headspace	e (ppm)	14.2	Ethyli	benzene	(ppb)	NA
		TPH	(ppm)	ND\SIDES	Total	Xylenes	(ppb)	NA
Groundwate	r Sample:		Yes		XXX(I	If yes atta	ch sample i	results)
I HEREBY CI KNOWLEDG		AT THE INFORM	MATION ABOVE	IS TRUE A	ND COMPLE	TE TO T	HE BEST (OF MY
DATE	6-8	7-98	PRINTED	NAME	J	EFF CR	oss	
SIGNATURE	Je	7-98 Hwz	AND TITL	. Е	F	ROJECT	MANAGER	₹
		E PIT CLOSURE HE TRIBE PIT CL			URE IS APP	ROVEDI	N ACCORE	DANCE TO
APPROVED:	YES		NO	_(REASON)				
SIGNED:	Koo	C Man	D	DATE:	6-23-	-98		

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

PIT REMEDIATION AND CLOSURE REPORT

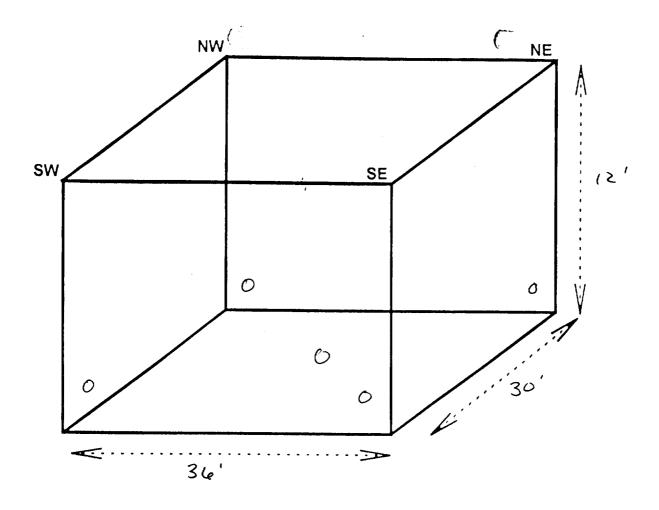
Address: 304 N. BEHREND, FARMINGTON, N.M. 84701 Facility or Well Name: JAT 125 # 9 PIT # 2 Location: Unit or Qtr/Qtr Sec M SEC 36 T 25N R 4W County RIO ARRIBA Pit Type: Separator: Dehydrator Other BLOW PIT Land Type: JIC. TRIBAL Pit Location: (Attach diagram) Reference: Wellhead XXX Other Footage from reference: 120' Direction from reference: 250 Degrees East North of	
Location: Unit or Qtr/Qtr Sec	
Pit Type: Separator: Dehydrator Other BLOW PIT Land Type: JIC. TRIBAL Pit Location:	
Land Type: JIC. TRIBAL Pit Location: Pit Dimensions: Length 20' Width 20' Depth 17' (Attach diagram) Reference: Wellhead XXX Other Footage from reference: 120' Direction from reference: 250 Degrees East North of	
Pit Location: Pit Dimensions: Length 20' Width 20' Depth 17' (Attach diagram) Reference: Wellhead XXX Other Footage from reference: 120' Direction from reference: 250 Degrees East North of	
(Attach diagram) Reference: Wellhead XXX Other Footage from reference: 120' Direction from reference: 250 Degrees East North of	
Direction from reference: 250 Degrees East North of	
XX West South X	
Depth To Groundwater: Less than 50 feet (20 points)	
(vertical distance from 50 feet to 99 feet (10 points)	_
contaminants to seasonal Greater than 100 feet (0 points) 0 high water elevation of groundwater)	
Distance to an Ephemeral Stream: Less than 100 feet (10 points)	
(Downgradient dry wash greater than Greater than 100 feet (0 points) 0 ten feet in width	
Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 points)	
(Downgradient lakes, playas and Greater than 100 feet (0 points) 0 livestock or wildlife watering ponds)	
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources) Yes (20 points) 0	
Distance To Surface Water: Less than 100 feet (20 points)	
(Horizontal distance to perennial 100 feet to 1000 feet (10 points)	
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0 irrigation canals and ditches)	
RANKING SCORE (TOTAL POINTS) 0	

					· · · · · · · · · · · · · · · · · · ·				
Date Remed	iation Star	rted:	6/20/9	7	Date Com	pleted:	6-2	1-97	
Remediation			Excavation	xxx	Approx. cu	ubic yards		207	
(Check all ap sections)	propriate		Landfarmed	XX	Insitu Bior	emediatio	n		
			Other						
Remediation		•	Onsite	eXX	Offsite				
(i.e. landfarm name and loc offsite facility	ation of				***				
General Des	cription of	f Remedia	l Action: Ex	ccavate pit	to 17',took	PID readi	ngs. spread	d soil on	
					les. Cella				/#270Be
Groundwate			No		34.5	d on loca	6110.		_
Final Pit:		Sample lo	ocation	4 POINT	COMPOSIT	E SAMPLE	E TAKEN 8	TO 10" INT	O PIT
Closure Sam (in multiple sa			SIDEWAL		SAMPLE TA				
attach sample and diagram	eresults	Sample d			into pit side v				-1416.
locations and	depths)		epiii / /					m.	
	Sample Dample re			6/21/9	7	Sample T	ime	10:00AM	
	Soil:	Benzene		(ppm)	ND	Water:	Benzene	(ppb)	NA
		Total BTE	EX	(ppm)	ND		Toluene	(ppb)	NA
		Field Hea	dspace	(ppm)	94	Et	hylbenzene	(ppb)	NA
		TPH		(ppm)	3300\SIDE 4200\BTM		tal Xylenes	(ppb)	NA
Groundwate	r Sample:		Yes	S			_(If yes atta	ach sample	results)
I HEREBY CE KNOWLEDG	RTIFY THE AND BE	IAT THE IN LIEF.	NFORMATI	ON ABOVE	IS TRUE A	ND COMP	PLETE TO 1	THE BEST	OF MY
DATE	6.	8-98		PRINTED	NAME		JEFF CR	oss	
SIGNATURE	Je	of lw	ы	_AND TITI	_E		PROJECT	MANAGE	R
AFTER REVII THE JICARIL	EW OF TH LA APACH	E PIT CLO IE TRIBE	SURE INFO	ORMATIO	N, PIT CLOS NANCE.	URE IS A	PPROVED	IN ACCOR	DANCE TO
APPROVED:	YES	X	_ NO)	_(REASON)				
SIGNED: -	Y	e M	. a	Ø	DATE:	4-7	3.90		
	Ture.	~ ' ' '	<u> </u>		_ DATE:	0-1	<u> </u>		

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

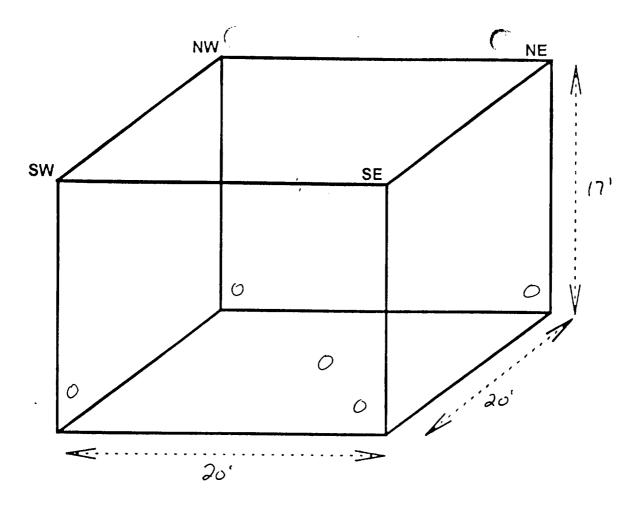
LOCATION		Jicarilla Apache Tribal EPO/OCD/BLM
LOCATION	JAT 125 # 9	Review and Approval
DIT 601		OCDBLM
PIT COUNT	2	EPO Representative
		Date of Review

	1010				Excavat			l .	
DIMEN	ISIONS	START: PIT	# 1 5/27/97, F	PIT # 2 6/20/97	FINISH:	IT # 1,5/30/9	PIT #2,6/21/9	97	
Ditt	W	<u> </u>	D			W	L	D	CU YDS
Pit 1	30'	30'	4'	Pit 1		30'	36'	12'	320
Pit 2	15'	15'	3,	Pit 2		20'	20'	17'	207
Pit 3				Pit 3					
		Pit 1 @ 8'	Pit 2 @ 7'	Pit 3 @			Pit 1 @ 12'	Pit 2 @ 17'	Pit 3 @
	Center	1800	2500+			Center	30	125	
₽	NW Corner	1550	2500+		þ	NW Corner	2	98	
- 1	NE Corner	1600	2500+			NE Corner	15	105	
D	SW Corner	1930	2500+		å F	SW Corner	18	77	
	SE Corner	1800	2500+		⊤ •	SE Corner	6	65	
NOTES	3:					oc come		1 03	<u> </u>
	5/27/97 STAF	RT EXCAVATI	ON ON PIT #	1,LIGHT STAI	JING DOV	A/N TO 8' DID	шси		
	5/28/97 EXC	AVATE PIT TO	O 10' LIGHT	STAINING AND		DID DEADING	CHICH	··	
	5/29/97 FXC	AVATE PIT TO	12' NO ST	AINING OR OD	ODOK, I	FID KEADING	o пісн.		
				PULLED OUT S		D DEADNICE	0005		
	0,00,01 2,00	NATE I II OI	DE WALLS, F	OLLED OUT S	TAINS, PI	D READINGS	GOOD		
	6/20/07 STAF	OT EVOAUATI	ON ON DIT "	2.00/4/41.72.7	D'5 ==	4500000000		·	
	6/21/07 EVO	NATE DOMA	UN UN PIT#	2 DOWN TO 7	, PID RE	ADINGS HIGH	l		
	0/21/91 EAC	AVAIE DOWN	110 17 PID I	READINGS GO	OD.				
	PIT#1,5/30/97			SOIL SAMPI	LING				
DATE:	PIT#2,6/21/9 7	Pit 1 @ 12'	Pit 2 @ 17'	SOIL SAMPL		IS RESULTS		PER LAB	ASSAIGAI
	PIT#2,6/21/9 7 Center	Pit 1 @ 12' 30	Pit 2 @ 17'			IS RESULTS TPH	ВЕТЕХ	PER LAB WITNESS	
	PIT#2,6/21/9 7	Pit 1 @ 12'	 		ANALYS		BETEX SIDE\BTM		ASSAIGAI DATE
	PIT#2,6/21/9 7 Center	Pit 1 @ 12' 30	125		ANALYS PIT	TPH	SIDE\BTM	WITNESS	DATE
	PIT#2,6/21/9 ? Center NW Corner	Pit 1 @ 12' 30 2	125 98		ANALYS PIT NO 1	TPH SIDE\BTM ND\ND	SIDE\BTM ND\ND	WITNESS JEFF C.	DATE 6/9/97
- d	PIT#2,6/21/9 7 Center NW Corner NE Corner	Pit 1 @ 12' 30 2 15	125 98 105		ANALYS PIT NO	TPH SIDE\BTM	SIDE\BTM	WITNESS	DATE
- d	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner	Pit 1 @ 12' 30 2 15 18	125 98 105 77	Pit 3 @	ANALYS PIT NO 1 2 3	TPH SIDE\BTM ND\ND 3300\4200	SIDE\BTM ND\ND	WITNESS JEFF C.	DATE 6/9/97
- d	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE	SIDE\BTM ND\ND	JEFF C. JEFF C.	DATE 6/9/97
P - D	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner	Pit 1 @ 12' 30 2 15 18	125 98 105 77	Pit 3 @	ANALYS PIT NO 1 2 3 OR CELL(TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS	SIDE\BTM ND\ND ND\ND	JEFF C. JEFF C. PER LAB	6/9/97 6/24/97
P I D	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL(ANALYSI PIT	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE	SIDE\BTM ND\ND	JEFF C. JEFF C.	DATE 6/9/97
P I D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner Center NW Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL(ANALYSI PIT NO	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS	SIDE\BTM ND\ND ND\ND	JEFF C. JEFF C. PER LAB	6/9/97 6/24/97
P I D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner Center NW Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL(ANALYS PIT NO 1	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS	SIDE\BTM ND\ND ND\ND	JEFF C. JEFF C. PER LAB	6/9/97 6/24/97
P I D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner Center NW Corner NW Corner NE Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL ANALYSI PIT NO 1 2	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS	SIDE\BTM ND\ND ND\ND	JEFF C. JEFF C. PER LAB	6/9/97 6/24/97
P I D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner Center NW Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE Pit 3 @	ANALYS PIT NO 1 2 3 OR CELL(ANALYSI PIT NO 1 2 3	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS TPH	SIDE\BTM ND\ND ND\ND	JEFF C. JEFF C. PER LAB	6/9/97 6/24/97
P D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SE Corner Center NW Corner NW Corner SE Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL(ANALYSI PIT NO 1 2 3 OR CELL(TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS TPH	SIDE\BTM ND\ND ND\ND BETEX	JEFF C. JEFF C. PER LAB WITNESS	6/9/97 6/24/97
P I D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner Center NW Corner NE Corner SW Corner SW Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE Pit 3 @	ANALYS PIT NO 1 2 3 OR CELL ANALYSI PIT NO 1 2 3 OR CELL ANALYSI	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS TPH (S) SAMPLE	SIDE\BTM ND\ND ND\ND BETEX	JEFF C. JEFF C. PER LAB	6/9/97 6/24/97
P I D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SW Corner SE Corner Center NW Corner NE Corner SW Corner SE Corner Center Corner Corner Corner Corner Corner Corner Corner Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL(ANALYSI PIT NO 1 2 3 OR CELL(ANALYSI PIT	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS TPH	SIDE\BTM ND\ND ND\ND BETEX	JEFF C. JEFF C. PER LAB WITNESS	6/9/97 6/24/97
P D DATE: P D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SE Corner Center NW Corner NE Corner SW Corner SE Corner Center NW Corner Corner Corner Corner SE Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL ANALYSI PIT NO 1 2 3 OR CELL ANALYSI	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS TPH (S) SAMPLE	SIDE\BTM ND\ND ND\ND BETEX	JEFF C. JEFF C. PER LAB WITNESS	6/9/97 6/24/97 DATE
P DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SE Corner Center NW Corner SE Corner SW Corner Corner SW Corner SW Corner SE Corner SW Corner SE Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL(ANALYSI PIT NO 1 2 3 OR CELL(ANALYSI PIT	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS TPH (S) SAMPLE	SIDE\BTM ND\ND ND\ND BETEX	JEFF C. JEFF C. PER LAB WITNESS	6/9/97 6/24/97 DATE
P D DATE: P D DATE:	PIT#2,6/21/97 Center NW Corner NE Corner SE Corner Center NW Corner NE Corner SW Corner SE Corner Center NW Corner Corner Corner Corner SE Corner	Pit 1 @ 12' 30 2 15 18 6	125 98 105 77 65	Pit 3 @ RE-SAMPLE Pit 3 @ RE-SAMPLE	ANALYS PIT NO 1 2 3 OR CELL(ANALYSI NO 1 2 3 OR CELL(ANALYSI PIT NO PIT NO	TPH SIDE\BTM ND\ND 3300\4200 (S) SAMPLE IS RESULTS TPH (S) SAMPLE	SIDE\BTM ND\ND ND\ND BETEX	JEFF C. JEFF C. PER LAB WITNESS	6/9/97 6/24/97 DATE



					= SA	MPLE AREA
WELL NA	МЕ .	JAT 125	#9 pit	#	_	
SAMPLE	DATE	5-30-				
NOTES	4 POIN1	COMPOSITE S	AMPLE TAKE	EN 8" TO 10" II	NTO PIT	
	SIDEW	ALL				
	1 POIN	T GRAB SAMPLI	E TAKEN 10"	TO 12" INTO	BOTTOM CEN	TER
					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

			·····			
				1 1 · · · · · · · · · · · · · · · · · ·		



				= SAMPLE AREA			
WELL NAI	ME	JAT 125 #9 P	it #2	<i>O' '''' 22 7 11 (2)</i>			
SAMPLE	DATE	6-21-97					
NOTES	4 P∩INI	COMPOSITE SAMBLE TAL	/ENLOU TO 400 IN	ITO DIT			
NOTES	4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT SIDEWALL						
	1 POIN	T GRAB SAMPLE TAKEN 10)" TO 12" INTO E	BOTTOM CENTER			
			A				
	· · · · · · · · · · · · · · · · · · ·						



ASSAIGAI ANALYTICAL LABORATORIES, INC.

JIN 2 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: June 11, 1997 15:09

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER #

: 9706040

WORK ID

: JICARILLA PIT CLOSURES

CLIENT CODE

: APA01

DATE RECEIVED : 06/04/97

ATTN: JEFF CROSS

Page: 1

BATCH ID

Lab ID: 9706040-01A

Sample ID: JAT 125 #9 PIT #1 SIDES

Collected: 05/30/97 10:00:00

Matrix: SOIL

Bampie ID. Gill 123 III === II						
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene Dir ange OG Soil/M8015 L Range OG in Soil	ND ND ND ND ND	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0020 0.0010	500 500 500 500 500 500	06/09/97 06/09/97 06/09/97 06/09/97 06/09/97	SBTXME167 SBTXME167 SBTXME167 SBTXME167 SBTXME167 SDRO31

Lab ID: 9706040-01B

Sample ID: JAT 125 #9 PIT #1 SIDES

Collected: 05/30/97 10:00:00

LIMIT

D F

DATE

ANAL

Matrix: SOIL

UNITS

TEST / METHOD

CANCELLED SAMPLE

N/A

RESULT

N/A

Lab ID: 9706040-02A

Sample ID: JAT 125 #9 PIT #1 BOTTOM

Collected: 05/30/97 10:30:00

Matrix: SOIL

Sample ID. ORI 123 #7 1	11 11 2011011					
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	0.0010 0.0010 0.0010 0.0020 0.0010	500 500 500 500 500 500	06/09/97 06/09/97 06/09/97 06/09/97 06/09/97	SBTXME167 SBTXME167 SBTXME167 SBTXME167 SBTXME167



Page: 2

D: 9706040-02B **Sample ID:** JAT 125 #9 PIT #1 BOTTOM

Collected: 05/30/97 10:30:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	50	25	06/07/97	SDRO31

William P. Biava President

WORKORDER COMMENTS

DATE : 06/11/97

WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific
 detection limit.

D F = Sample "dilution factor"

NT = Analyte "not tested" per client request.

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

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

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

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

REPORT COMMENTS



Chain of Custody Record

Project Manager / Contact __Jeff Cross_

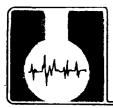
3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000

1910 N. BIG WIDLAND, TI (915) 570-

ALBUQUERQUE, NEW MEXICO 8/108 (505) 345-8964

MEL QUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	10:00 10:00
	After snalysit Comments: Output
Signature Company MLT Company MALT Resignature Company MALT Company MALT Reason Reason	



ASSAIGAI ANALYTICAL LABORATORIES, INC.

JUL 21 1997

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

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Report Generated:

June 30, 1997 16:49

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9706226

WORK ID

: JICARILLA PIT CLOSURES

CLIENT CODE

: APA01

DATE RECEIVED: 06/23/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706226-01A

Sample ID: JAT 125 #9 SIDES $\rho_1 + \frac{1}{2}$

Collected: 06/21/97 10:00:00

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	06/24/97	SBTXME172	
	ND	mg/kg	0.0050	100	06/24/97	SBTXME172	
	ND	mg/kg	0.0050	100	06/24/97	SBTXME172	
	ND	mg/kg	0.010	100	06/24/97	SBTXME172	
	ND	mg/kg	0.0050	100	06/24/97	SBTXME172	

Lab ID: 9706226-01B P.+ #2

Sample ID: JAT 125 #9 SIDES

Collected: 06/21/97 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	3300	mg/Kg	50	25	06/28/97	SDRO037

Lab ID: 9706226-02A

Sample ID: JAT 125 #9 BOTTOM

Collected: 06/21/97 10:15:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID	
BTEX/SW846 8020A					 		
Benzene	ND*	mg/kg	0.0050	1000	06/25/97	SMSVOA453	
Toluene	ND*	mg/kg	0.0050	1000	06/25/97	SMSVOA453	
Ethylbenzene	ND*	mg/kg	0.0050	1000	06/25/97	SMSVOA453	
P-&m-Xylene	ND*	mg/kg	0.010	1000	06/25/97	SMSVOA453	
O-Xylene	ND*	mg/kg	0.0050	1000	06/25/97	SMSVOA453	



Page: 2

(3 ID: 9706226-02B Sample ID: JAT 125 #9 BOTTOM $\rho_i + \frac{\pi}{2}$

Collected: 06/21/97 10:15:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	4200	mg/Kg	50	25	06/28/97	SDRO037

President

WORKORDER COMMENTS

DATE : 06/30/97 WORKORDER: 9706226

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

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 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

*Please note: Sample 02A was analyzed by GC/MS method SW846-8240.



Chain of Cus dy Record

Project Manager / Contact _Je手手_CYOSS_

Client Apache Corporation

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

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

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116 MELOUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320 Analysis Required After analysis, samples are to be: Received by Company 16/24/a7 × Ice Temp. Chemical Telephone No. (505) 774-6643 Relinquished by: Signature Fax No. (505) 774-6624 Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature) Printed Sample Sample / Star of Container 402 Glass 1,05 00:01 58-16. D 91:01 Received by: Company. Printed_ Resson 2 City/State/ZipEarmington, NM 87401 6-23.57 5:30 Ē JAT 125#9 Side> JAT 125 #9 Botten Address 304 N. Behrend Contract / Purchase Order / Quote Relinquished by: Signature . . , i

Stored over 30 days (additional fee)

Returned to customer

Disposed of (additional fee) Stored (30 days max)

Method of Shipment:

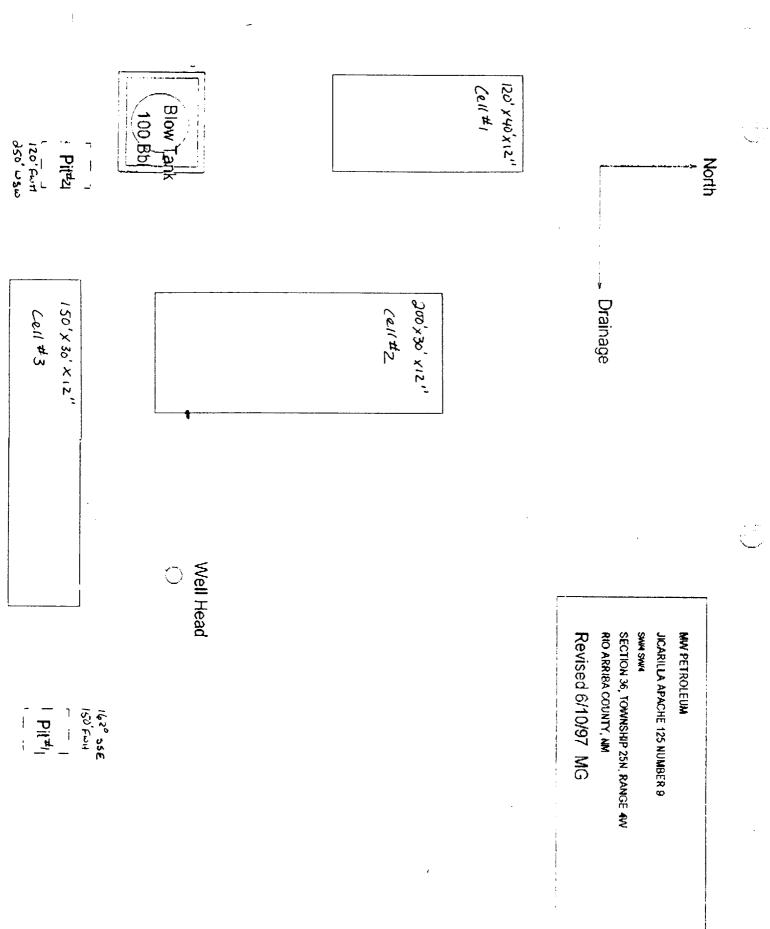
Special Instructions:

Shipment No.

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

ON-SITE SOIL REMEDIATION REPORT

Operator: MWP	ETROLEUM		_Telephone	505-325-0318						
Address:	2855 SOUTHSI	DE RIVER ROAD) / SUITE A / FARMING	GTON, N. M. 87401-7947						
Facility or Well Name	:JAT	125 # 9 CELL #	1							
Location: Unit or	Qtr/Qtr Sec _SW	\SW Sec 36	T 25N R 4W	County RIO ARRIBA						
Land Type	JIC. TRIBAL		<u>.</u>							
Date Remediation Sta	arted: 5-27-4	37	_Date Completed:	5/19/98						
Remediation Method:	Landfarmed	XXX	_Approx. cubic yards							
	Composted		_							
	Other	Re	mediated Soil	TO Be put Back is pt						
Depth to Groundwate	r:	(pts) 0	Final Clo	sure Sampling						
Distance to an Epher	neral Stream:	(pts) 0	Sampling Date:	<u>5/19/98</u> Time: <u>10:35PM</u>						
Distance to Nearest I or Watering Pond:	₋ake, Playa,	(pts)0	Sample Results:							
Wellhead Protection	Area:	(pts) 0	Field Headspace (ppm) TPH (ppm	ND ND Method M8015						
Distance To Surface	Water:	(pts)0	Other BTEX \S	,						
RANKING SCORE (TOTAL POINTS)	0	- Other billy to	(110)						
I HEREBY CERTIFY KNOWLEDGE AND		IATION ABOVE	S TRUE AND COMPL	ETE TO THE BEST OF MY						
DATE:	6/8/98	PRINTED	NAME	JEFF CROSS						
SIGNATURE	eff lion	TITLE	PROJEC	T MANAGER						
	AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.									
APPROVED:	res	NO	(REASON) WAR	as Bookful						
SIGNED:	JC Man	M DATE:	6-23-98	<u>/</u>						



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

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETF	ROLEUM			Telephone		505-325-0	318	
Address:		2855 SOUTH	ISIDE RIV	/ER ROAD	/ SUITE A	/FARMING	TON, N. M.	. 87401-79	47
Facility or We	ell Name:	J <i>A</i>	AT 125#	9 CELL#2	2		·	<u> </u>	
Location:	Unit or Qtr	/Qtr Sec	sw\sw	Sec 36	T 25N	R 4W	County	RIO ARR	IBA
Land Type		JIC. TRIBAL							
Date Remediation Started: 5-27-97 Date Completed: 5/19/98									
Remediation	Method:	Landfarmed		XXX	Approx. cu	bic yards	28	2	
		Composted							
		Other		Rem	rediated	BOIL TO	Be spre	don los	etion.
Depth to Gro	undwater:		(pts)	0		Final Clos	sure Sampl	ing	
Distance to a	ın Ephemera	al Stream:	(pts)	0	Sampling [Date:	5/19/98	_Time:	10:45PM
Distance to Nearest Lake, Playa, (pts) or Watering Pond:				0	Sample Re				
Wellhead Pro	otection Are	a:	(pts)	0	Field Headsp		<u>ND</u>	_	
Distance To	Surface Wa	ter:	(pts)	0	TPH	(ppm)	950	_Method	M8015
RANKING S	CORE (TOT	AL POINTS)		0	Other <u>BTEX \ SW846</u> , 8020A (ND)				
I HEREBY C KNOWLEDG		AT THE INFO	RMATIO	N ABOVE IS	I S TRUE AN	D COMPLE	те то тн	E BEST OF	- MY
DATE:		6/8/98	·	PRINTED	NAME		JEFF CR	oss	
SIGNATURE	Je	How		TITLE		PROJECT	MANAGE	R	
		E SOIL REME JICARILLA A	PACHE 7	TRIBE PIT	CLOSURE	ORDINANO	CE.		
APPROVED:	: YES	<u>×</u>	NO		(REASON)	Not f	or use	ar B	rekifel
SIGNED:	Law	C Man	10	1	6-2				-

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

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETE	M W PETROLEUM			_Telephor	ne	505-325-0318			
Address:		2855 SOUT	HSIDE RI	VER ROAD	/ SUITE A	A / FARMING	STON, N. M	1. 87401-79	47	
Facility or We	ell Name:		AT 125#	9 CELL#	3					
Location:	Unit or Qtr	/Qtr Sec _	sw\sw	Sec 36	T 25N	R 4W	_County	RIO ARR	IBA	
Land Type		JIC. TRIBAL								
Date Remedi	ation Starte	d: <i>(e-</i>	20-97		Date Cor	npleted:		5/19/98		
Remediation	Method:	Landfarmed		XXX	- Approx. c	cubic yards	10	47		
		Composted			•	·				
		Other		Dem	ediatea	Isoic TO	Beput	Brekis	o.t.	
Depth to Gro	undwater:		(pts)	0		Final Clo	sure Samp	oling	· · · · · · · · · · · · · · · · · · ·	
Distance to a	n Ephemera	al Stream:	(pts)	0	Sampling	ı Date:	5/19/98	_Time:	10:55PM	
Distance to N or Watering F		e, Playa,	(pts)	0	Sample Results:					
Wellhead Pro	otection Area	a:	(pts)	0	<u> </u>	space (ppm)	ND ND	_	1100/5	
Distance To S	Surface Wa	ter:	(pts)	0	TPH) <u>ND</u>		M8015	
RANKING SO	CORE (TOT	AL POINTS)		0	- Otne	er <u>BTEX \S</u>	VV846 , 80A	20A (ND)	
I HEREBY CI KNOWLEDG			RMATIO	N ABOVE I	I S TRUE A	ND COMPL	ETE TO TH	HE BEST OF	MY	
DATE:		6/8/98	 	PRINTED	NAME		JEFF CF	ROSS		
SIGNATURE	:	flun		TITLE	•	PROJEC	Γ MANAGE	ER		
AFTER REVI ACCORDAN			APACHE	TRIBE PIT	CLOSURE	E ORDINAN	CE.		11	
APPROVED:	YES		NO		_(REASO	MU (M	cua B	uc Kofi	\mathcal{J}	
SIGNED: S	ten	E Ma	0	DATE:	6-2	3-98			- -	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	_					
* AMOUNT OF SOIL UND	ERGOIN	G REMEDIATION	527	Yds.		
CELL No. 1			SampDATE 5/19/98	TPH ND	BTEX ND	
DIMENSIONS(LxWxH)	120' X	40' X 12"				
CELL LOCATION (dir. from we	ll head	NORTHWEST				
* DATE BEGAN: 5/27/9	17	_				
DATE TERMINATED (TPH <5,	000 ppm/B	TEX< 50 ppm/Benzene < 10 pp	om)5/19/98	3	-	
CELL No. 2			SampDATE 5/19/98	7PH 950	ND BTEX	
DIMENSIONS(LxWxH)	200' X	30' X 12"				
CELL LOCATION (dir. from we	ll head	WEST				
* DATE BEGAN: 5/27/9	17	<u> </u>				
DATE TERMINATED (TPH <5,	000 ppm/B	TEX< 50 ppm/Benzene < 10 pp	om) 5/19/98	3	-	
CELL No. 3	_		SampDATE 5/19/98	TPH ND	ND BTEX	
DIMENSIONS(LxWxH)	150' X	30' X 12"				
CELL LOCATION (dir. from we	ll head	SOUTH				
* DATE BEGAN: 6/20/9	7					
DATE TERMINATED (TPH <5,	000 ppm/B	TEX< 50 ppm/Benzene < 10 pp	om) 5/19/98	<u> </u>	-	
REMEDIATION RECORD: (Da						
5/30/97 TREAT CELLS # 1 & 2)-0 FERTILIZER,WATER,PLOV	W AND TILL SOIL.			
6/2/97 TILL SOIL ON CELLS #		DTILIZED MATER DI CAMANI	D. TILL COIL			
6/23/97 TREAT CELL # 3 WITH 6/23/97 WATER, PLOW AND T			D TILL SUIL.			
7/15/97 TILL SOIL ON ALL CE		TO THE WILL.				
8/7/97 WATER,PLOW AND TIL		LS.				
9/9/97 TILL ALL CELLS.			· 			
5/1/98 PLOWED ALL CELLS.	5/10/98 TIL	LED ALL CELLS. 5/18/98 PLO	W AND TILL ALL CE	LLS.		

^{*} FROM EXCAVATION REPORTS.

NOTES: DIMENSIONS: SAMPLE DATE: WELL NAME: 0 0 \bigcirc ALL SAMPLES TAKEN 10" TO 12" INTO CELL. JAT 125 #9 Cell #1 5-19-98 120' x 40' X12" 9 point composite sample 0 0 0 = SAMPLE AREA 0 0

NOTES: 0 0 ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 point composite sample 0 0 0 0 Ĭ 0 0

(

SAMPLE DATE: WELL NAME: DIMENSIONS: JAT 125#9 CON #2 5-19-98

= SAMPLE AREA

NOTES: 0 \bigcirc ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 point composte sample 0 0 ĭ 0 O 0 0

WELL NAME: SAT 125#9 Ce/1#3

SAMPLE DATE: 5-/9-58

DIMENSIONS: ,50' x 30' x/2"

...

* C 2

= SAMPLE AREA

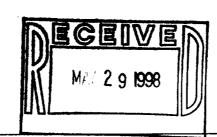


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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

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

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



Sample

Matrix

SOIL

	* explanation of codes
В	analyte detected in Method Blank
E	result is estimated
1	analyzed out of hold time
1	tentatively identified compound
3	subcontracted
-9	see footnote

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: APACHE CORPORATION
Project: 9805201 JICARILLA

JAT 125 #9 CELL #1

Client

Sample ID

William P. Biava: President of Assaigal Analytical Caboratories, Inc.

						Dilution	Detection			Run
raction	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	<u>Limit</u>	*	Sequence	<u>Date</u>
			SW846-8020 Volatiles							
805201-01A	X98285	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.484-7	05/22/98
	X98285	100-41-4	Ethylbenzene	ND	mg/Kg	50	0.005		XG.1998.484-7	
	X98285	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.484-7	
	X98285	•	p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.484-7	
	X98285	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.484-7	
			SW846-8015 Modified TPH							
805201-01B	X98286		Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.488-12	05/22/98
	JAT 125	5 #9 C	ELL #2		mple SOIL	-			Sample Collected	
	JAT 125	5 #9 C	ELL #2				Detection			
Sample ID	JAT 125	5 #9 C	ELL #2			Dilution Factor	Detection <u>Limit</u>	*		10:45:0
ample ID			ELL #2 SW846-8020 Volatiles	Ма	trix 301L	Dilution		*	Collected	10:45:0 Run
Fraction				Ма	trix 301L	Dilution		*	Collected	10:45:0 Run
Sample ID	QC Group	CAS#	SW846-8020 Volatiles	Ma <u>Result</u>	Units	Dilution <u>Factor</u>	<u>Limit</u>	*	Collected Sequence	10:45:0 Run <u>Date</u>
Sample ID	QC Group	CAS #	S W846-8020 Volatiles Benzene	Result	Units mg / Kg	Dilution Factor	<u>Limit</u>	*	Sequence XG.1998.484-8	10:45:0 Run <u>Date</u>
Sample ID	QC Group X98285 X98285	CAS #	SW846-8020 Volatiles Benzene Ethylbenzene	Result ND ND	Units mg / Kg mg / Kg	Dilution Factor	0.005 0.005	*	Sequence XG.1998.484-8 XG.1998.484-8	10:45:0 Run <u>Date</u>
Sample ID	QC Group X98285 X98285 X98285	CAS #	SW846-8020 Volatiles Benzene Ethylbenzene o-Xylene	Result ND ND ND	Units mg / Kg mg / Kg mg / Kg	Dilution Factor 50 50	0.005 0.005 0.005	*	Sequence XG.1998.484-8 XG.1998.484-8 XG.1998.484-8	10:45:0 Run <u>Date</u>
Client Sample ID Fraction 9805201-02A	QC Group X98285 X98285 X98285	71-43-2 100-41-4 95-47-6	SW846-8020 Volatiles Benzene Ethylbenzene o-Xylene p/m Xylenes	Result ND ND ND ND ND	Units mg / Kg mg / Kg mg / Kg mg / Kg mg / Kg	50 50 50	0.005 0.005 0.005 0.005	*	Collected Sequence XG.1998.484-8 XG.1998.484-8 XG.1998.484-8 XG.1998.484-8	<u>Date</u>

05/19/98

10:35:00

Sample

Collected

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client:

APACHE CORPORATION

Project: **9805201**

JICARILLA

Client Sample ID	JAT 12	5 #9 C	ELL #3		Sample S Matrix	OIL	•			Sample Collected	05/19/98 10:55:00
							Dilution	Detection			Run
Fraction	QC Group	CAS#		Result	<u>Un</u>	<u>its</u>	Factor	<u>Limit</u>	*	Sequence	<u>Date</u>
			SW846-8020 Volatiles								
9805201-03A	X98285	71-43-2	Benzene	ND	mg	/ Kg	50	0.005		XG.1998.484-9	05/22/98
	X98285	100-41-4	Ethylbenzene	ND	mg	/ Kg	50	0.005		XG.1998.484-9	
	X98285	95-47-6	o-Xylene	ND	mg	/ Kg	50	0.005		XG.1998.484-9	
	X98285	ļ	p/m Xylenes	ND	mg	/ Kg	50	0.01		XG.1998.484-9	
	X98285	108-88-3	Toluene	ND	mg	/ Kg	50	0.005		XG.1998.484-9	
			SW846-8015 Modified TPH								
9805201-03B	X98286	:	Diesel Range Organics	ND	mg	/ Kg	25	25		XG.1998.488-14	05/23/98

Page 2 of 2

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

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Client Apache Corporation

Chain of Custody Record

Project Manager/Contact Jeff Cross

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

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

Address 2855	55 Southside River RD.	D. Ste. Arelephone No. (505) 774-6643	Analysis Required
City / State / Z	Cly/State/ZipFarmington, NM 87401-7947	1-7947 Fax No. (505) 774-6624	
Project Name / Number	/ Number	Samplers: (Signature) fulf (uero	Remarks
Contract / Pur	Contract / Purchase Order / Quote		MA
FRACTION	Sample Number / Location Date	Time Sample Type / Size of Container Type Type Size of Container Temp. Chemical	
4		Ice	
6		h	
77	SAT125#9 cell#2 /	X 1	
233		X	
Se Contraction	SAT12 #9 Cell#3		
28	3	× / / / /	
Relinquished by:	Date	Relinquished by:	Daile Becelved by:
Signature 1	11 Loss 5.2258	Signature	Signature Signature
Printed	he Corp	Company AAL Company A 19 C	Time Printed Area Town
Reason	Dr.1		
			After analysis, samples are to be:
Method of Shipment:		Continents:	Disposed of (additional ;
Shipment No.			Stored (30 days max)
Special instructions:			Stored over 30 days (adia ree)
			- Returned to customer
		TOOL TOOL T	