Client:

QC

Project: strict

State of New Mexico -00 Rio Brazos Rd Energy; Minerals and Natural Resources Department

ztec. DEP87470: L & GAS INSPECTOR

QC Type JAN 27 1999 **OIL CONSERVATION DIVISION**

2040 S. PACHECO Santa Fe, New Mexico 87505

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

PIT REMEDIATION AND CLOSURE REPORT

1-1/1	Aller El	: 				0][I COM	MUG
	Apache Corporation \ MW Petr	roleum		_Telephone		505-325-0	DIST。 3 318	
Address:	2855 Southside River Road, St	uite A, Farm	nington, Ni	VI 87401				
Facility or	Well Name:	Jic Apach	e Tribal 39	6 #1 Pit #1				
Location:	Unit or Qtr/Qtr Sec	A	Sec 8	T 23 N	R 3W	_County	Rio Arriba	
Pit Type:	Separator:	Dehydrator	r	_Other	Blow Pit			
Land Type	e: Jicarilla Tribal							
	Beginning Pit Dimensions:	Length	20'	_ Width	20'	Depth	5'	
Pit Location: (Attach dia	•	Length	50'	Width	45'	_ Depth	9'	i
(/ titas	Reference:	Wellhead	XX	Other .	Separator			
	Footage from reference:		150'		-			
	Direction from reference:		100	Degrees	xx	_East	North	
						of West	South _	Х
Depth To	Groundwater:			Less than 5	50 feet		(20 points)	
(vertical dista				50 feet to 9	99 feet		(10 points)	
	s to seasonal			Greater tha	ın 100 feet		(0 points)	0
high water ele groundwater)		<u> </u>						
 Wellhead	Protection Area:					Yes	(20 points)	
(Less than	n 200 feet from a private			•			(20 points)_	0
	water source, or; less than from all other water sources)						_	
	To Surface Water:			Less than 2	200 feet		(20 points)	
	I distance to perennial			200 feet to			(10 points) _	
	ds, rivers, streams, creeks, anals and ditches)			Greater tha	n 1000 feet		(0 points)	0
	and and diones,			RANKING (SCORE (TC	OTAL POINT	TS) _	0

Date Remediation Sta	arted:	5/11/97	,	Date Com	pleted:	5/12/97
Remediation Method: (Check all appropriate	:	Excavation	xxx_	_Approx. cu	ıbic yards	417
sections)	Landfarmed	İ	XX	_Insitu Biore	emediation	
		Other				
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)		Onsite	e XX	_Offsite		
General Description o	of Remedial Action:		Excavate	pit to 4' bel	ow pit bottom,	30' off pit sides.
Lay soil ou	t on location in three	e dirt farm	cells. Lan	d farms 1,2	,& 3 to be sprea	d on location.
Pits are co	ntoured.					
Groundwater Encoun	tered:	No	XX	Yes		Depth
Final Pit: Closure Sampling:	Sample location		4 point com	posite sample	taken 8 to 10 " into	pit sidewalls,
(in multiple samples,		grab samı	ole taken 1	0" into pit t	ottom center.	
attach sample results and diagram of sample	Sample depth	9'	8 to 10" ir	ito pit sidev	valls 10" into pi	t bottom
locations and depths)	Sample Date Sample results		5/12/97		Sample Time	11:45 AM
	Benzene		(ppm)	ND		
	Total BTEX	٨	(ppm)	ND		
	Field Headspace		(ppm)	1.48		
	TPH			ND\Sides ND\BTM		
Groundwater Sample:		Yes		No.	XX (If ye	es attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND BI	HAT THE INFORMAT ELIEF.	ION ABOV	/E IS TRUE	AND COM	PLETE TO THE	BEST OF MY
DATE	August 10,1998		PRINTED	NAME	Jeff Cross	
SIGNATURE	flwn		AND TITL	E	Project Manage	er

C

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	Cor	poration \ MW Petr	oleum			Telephone	:		505-325-0	318	
Address:	2855 Sc	outh	side River Road, Su	uite A, Farm	nington,	NM	87401					
Facility or \	Well Nan	ne:		Jic Apach	e Triba	396	#1 Pit #2					
Location:	Unit or (Qtr/C	tr Sec	A	Sec 8		T 23 N	R	3W	County	Rio Arriba	
Pit Type:	Separat	or:	xxx	_Dehydrato	r		Other					
Land Type	:		Jicarilla Tribal			•						
	Beç	ginnii	ng Pit Dimensions:	Length		15'	Width	1	15'	Depth	1	,
Pit Location:		Endir	g Pit Dimensions:	Length	1	20'	Width		20'	_ Depth	n9'	
(Attach dia	-	efere	nce:	Wellhead			Other	Sep	arator			
	Fo	otag	e from reference:			75'		_				
	Dir	rectio	on from reference:		16	5	Degrees		хх	East	North	
										o _West	South	X
Depth To	Ground	wate	er:				Less than				(20 points)	
(vertical dista							50 feet to Greater th				(10 points) (0 points)	0
contaminant high water e groundwater	levation of			ä [†] .			Orodior in				(•	
Wellhead		ion /	Area:							Yes	(20 points)	
,			m a private or; less than							No	(0 points)	0
			water sources)									
Distance	To Surf	ace \	Nater:				Less than	200	feet		(20 points)	
(Horizonta	al distand	ce to	perennial				200 feet to				(10 points)	
lakes, por irrigation			reams, creeks,				Greater th	nan 1	uuu tee	∋ τ	(0 points)	0
ingation	Janais ai	iu ul	ionos)				RANKING	S SC	ORE (T	OTAL POI	NTS)	0

Date Remediation Sta	rted:	6/5/97		_Date Comp	oleted:	6/5/97
Remediation Method: (Check all appropriate		Excavation	XXX	_Approx. cu	bic yards	125
sections)	Landfarmed		XX	_Insitu Biore	emediation	
		Other		·-··		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	ı:	Onsite	XX	Offsite		
General Description o	of Remedial Action:		Excavate	pit to 5' bel	ow pit bottom, s	5' off pit sides.
Lay soil ou	t on location in three	e dirt farm	cells. Lan	d farms 1,2	,& 3 to be sprea	d on location.
Pits are cor	•					
Groundwater Encount	tered:	No	XX	<u>(</u> Yes		Depth
Final Pit:	Sample location		4 point com	ıposite sample	taken 8 to 10 " into	pit sidewalls,
Closure Sampling: (in multiple samples,		grab samp	ole taken 1	0" into pit k	oottom center.	
attach sample results and diagram of sample	Sample depth	9'	8 to 10" i	nto pit sidev	walls 10" into pit	t bottom
locations and depths)	Sample Date Sample results		6/5/97	7	Sample Time	12:00 PM
	Benzene		(ppm)	ND	-	
	Total BTEX	\$	(ppm)	ND		
	Field Headspace		(ppm)	19.18	-	
	ТРН			ND\Sides	-	
Groundwater Sample:	}	Yes		_ No	XX(If ye	es attach sample results)
I HEREBY CERTIFY TO KNOWLEDGE AND BI		TION ABOV	/E IS TRUI	E AND COM	IPLETE TO THE	BEST OF MY
DATE	August 10,1998		PRINTED	NAME	Jeff Cross	
SIGNATURE	Glus		AND TITL	.E	Project Manage	эг

V

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P. O. BOX 507 DULCE, NEW MEXICO 87528

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

PIT REMEDIATION AND CLOSURE REPORT

Operator:	ΜV	V PETROLEUM			_Telephone	505-	325-0318		
Address:	304	N. BEHREND, F	FARMINGT	ON, N.M.	84701				
Facility or We	ell Na	me:	JIC. TRIBA	AL 396#1	PIT#1			<u>.</u>	
Location:	Unit	or Qtr/Qtr Sec	A	SEC 8	T 23N	R 3W	County	RIO ARRIBA	4
Pit Type:	Sepa	arator:	Dehydrato	r	_Other		BLOW	PIT	
Land Type:		JIC. TRIBA	AL						
Pit Location:		Pit Dimensions:	Length	n <u>50'</u>	Width	45'	De	pth 9'	
(Attach diagra	am)	Reference:	Wellhead	XXX	_Other				
		Footage from ref	ference:	150'		_			
		Direction from re	eference:	100	_Degrees	XX	East	North _	
							West	of South _	X
Depth To Gr	round	dwater:			Less than			(20 points)	
(vertical distance					50 feet to		- ot	(10 points)_	
contaminants to		nal			Greater th	an 100 fe	દહા	(0 points) _	
high water elevat groundwater)	IUN OI								
Distance to	an E	phemeral Stream	1:		Less than	100 feet		(10 points)	
	nt dry	wash greater tha			Greater th	an 100 f	eet	(0 points)	0
Distance to	Near	est Lake, Playa,	or Waterin	g Pond:	Less than			(10 points)	
(Downgradie	nt lak	kes, playas and fe watering ponds)			Greater th	an 100 f	eet	(0 points)	0
Wellhead P						•	Yes	(20 points)	
		et from a private					No	(0 points)	0
		ource, or less than I other water sourc							
Distance To	Sur	face Water:			Less than			(20 points)	
`		ice to perennial	(C		100 feet to Greater th			(10 points) (0 points)	0
irrigation car		ers, streams, creek and ditches)	\ 0,						0
					KANKING	SCORE	(TOTAL F	-011110)	

Date Remediation Starte	d: 5/11/97		_Date Comple	eted:		5/12/97	
Remediation Method:	Excavation	XXX	_Approx. cubi	c yards		417	
(Check all appropriate sections)	Landfarmed	XXX	_ _Insitu Bioren	nediation			
	Other						
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		eXXX	_Offsite _				
General Description of I							
Lay soil ou	it on location in thi	ee dirt fan	m cells. <u>(</u> ຊມ <u>ເ</u> ວິກັດ	FARMS I	1, 2, 3, TO B	se spread	onlac.
Groundwater Encounte							-
Final Pit: Closure Sampling: (in multiple samples,	Sample location GRAB SA		COMPOSITE				SIDEWALL
ettach comple results	Sample depth G'		into pit side w				
locations and depths) Sample Da Sample res	te	5/12/9	07	Sample 1	li <u>me</u>	11:45 AM	<u> </u>
Soit:	Benzene	(ppm)	ND	Water:	Benzene	(ppb)	NA
	Total BTEX	(ppm)	ND		Toluene	(ppb)	NA
	Field Headspace	(ppm)	1.48	E	thylbenzene	(ppb)	NA
	TPH	(ppm)	ND\SIDE	T	otal Xylenes	(ppb)	NA
Groundwater Sample:	Ye	es	ND\BTM No	XXX	(If yes atta	ach sample	results)
I HEREBY CERTIFY TH KNOWLEDGE AND BE		TON ABOV	E IS TRUE A	ND COM	PLETE TO	THE BEST	OF MY
DATE	7/9/97	PRINTE	D NAME		JEFF CR	oss	
SIGNATURE	eff Cerr	AND TI	TLE		PROJEC	T MANAGE	ER
AFTER REVIEW OF THE JICARILLA APAC	IE PIT CLOSURE IN HE TRIBE PIT CLOS	FORMATION ORD	ON, PIT CLOS INANCE.	SURE IS	APPROVED	IN ACCO	RDANCE TO
APPROVED: YES	<u> </u>	10	(REASON)			
SIGNED:	EC. Man		DATE:		30-91	 7	<u> </u>

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P. O. BOX 507 DULCE, NEW MEXICO 87528

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: M	W PETROLEUM			_Telephone	505-3	25-0318		
Address: 304	N. BEHREND, F	-ARMINGTO	ON, N.M.	84701				
Facility or Well N	ame:	JIC. TRIBA	L 396#1	PIT # 2				
Location: Uni	it or Qtr/Qtr Sec	A	SEC 8	T 23N	R 3W	_County	RIO ARRIBA	
Pit Type: Ser	parator: XXX	Dehydrator		_Other				
Land Type:	JIC. TRIBA	AL .						
Pit Location:	Pit Dimensions:	Length	20'	Width	20'	Dept	th9'	
(Attach diagram)	Reference:	Weilhead	xxx	_Other				
	Footage from ref	ference:	75'		_			
	Direction from re	eference:	165	_Degrees	XX	East	North	
					·	West	South	Х
Depth To Groun	ndwater:			Less than	50 feet		(20 points)	
(vertical distance from				50 feet to			(10 points)	
contaminants to seaso				Greater th	an 100 fee	∍t	(0 points)	0
high water elevation of groundwater)	f							
Distance to an F	Ephemeral Stream	1:		Less than	100 feet		(10 points)	
1	ry wash greater tha				an 100 fee	et	(0 points)	0
	ırest Lake, Playa,	or Watering	Pond:	Less than			(10 points)	
(Downgradient la livestock or wildl	akes, playas and life watering ponds)	l		Greater th	nan 100 fee	et	(0 points)	0
 Wellhead Prote	ction Area:				Ye	es	(20 points)	
	eet from a private					10	(0 points)	0
domestic water s	source, or less than						•	
Distance To Su	rface Water:			Less than	100 feet		(20 points)	
(Horizontal dista					o 1000 fee	t	(10 points)	
lakes, ponds, riv	ers, strea ms, creek	κs,		Greater th	nan 1000 fe	eet	(0 points)	0
irrigation canals	and ditches)			RANKING	SCORE	(TOTAL PC	OINTS) _	0

Date Remediation Star	ted: 6/5/9°	7	_Date Com	oleted:		6/5/97	
Remediation Method:	Excavation	XXX	_Approx. cu	bic yards		125	
(Check all appropriate sections)	Landfarmed	ı xxx	Insitu Biore	emediation			
	Other						
Remediation Location: (i.e. landfarmed onsite,	Onsite	e <u>XXX</u>	_Offsite				
name and location of offsite facility)							
General Description of	Remedial Action: E	xcavate pit	to 5' below	pit bottor	n,5' off pit	sides.	
•	ut on location in thr						on Loc.
Groundwater Encounte		o xxx		WAS COM			-
Final Pit:	Sample location	4 POINT	COMPOSITI	E SAMPLE	TAKEN 10	" INTO PIT	SIDEWALL
Closure Sampling: (in multiple samples,			EN 10" INT				
attach sample results and diagram of sample	Sample depth Q'		nto pit side v			•	i.
locations and depths) Sample Da Sample re		6/5/97		Sample Ti		12:00pm	
Soil:		(n.m.m.)	MD	16/646 ***	Dannana	(mmh)	NIA.
3011.	Benzene	(ppm)	ND ND	Water:	Benzene	(ppb)	NA NA
	Total BTEX	(ppm)	ND	•	Toluene	(ppb)	NA
	Field Headspace	(ppm)	19.18	Eth	ylbenzene	(ppb)	NA NA
	TPH	(ppm)	ND\SIDE ND\BTM	Tot	tal Xylenes	(ppb)	NA
Groundwater Sample:	Yes	s		XXX	_(If yes atta	ich sample i	results)
I HEREBY CERTIFY TH KNOWLEDGE AND BEI		ON ABOVE	IS TRUE A	ND COMP	LETE TO 1	HE BEST (OF MY
DATE	7/9/97	_PRINTED	NAME		JEFF CR	oss	
SIGNATURE Ju	flun	_AND TITL	.E		PROJECT	MANAGER	₹
AFTER REVIEW OF TH THE JICARILLA APACE				URE IS AI	PPROVED	IN ACCORE	ANCE TO
APPROVED: YES	NO)	_(REASON)	:			
SIGNED: Kere	C. Maml	<u> </u>	DATE:	7-3	0-97	7	

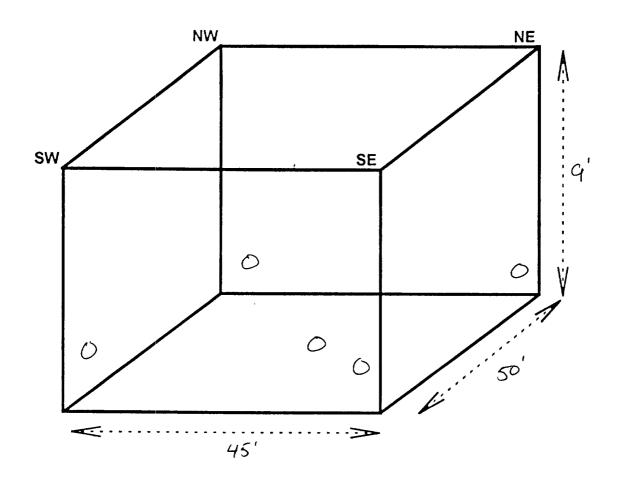
M W PETROLEUM/FARMINGTON DISTRICT FIT EXCAVATION AND CLOSURE REPORT

LOCATION JIC. TRIBAL 396 #1 Jicarilla Apache Tribal EPO/OCD/BLM Review and Approval

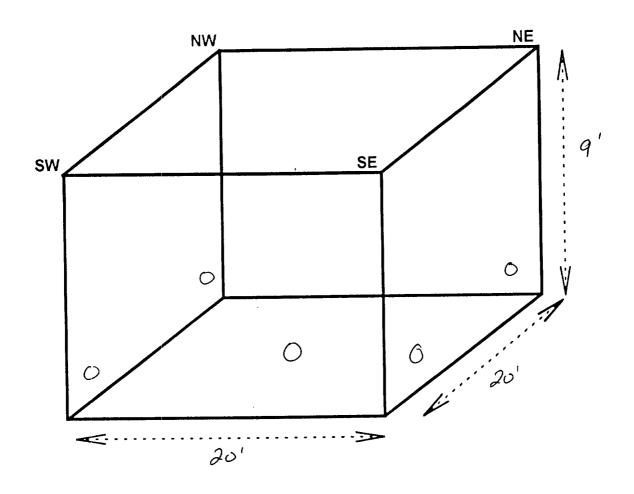
OCD-BLM

___2 PIT COUNT EPO Representative Date of Review

					Excavat	tion		7	
DIMEN	ISIONS	START: PIT	5/11/97 PI	12 6/5/97		: PIT1 5/12/97	PIT2 6/5/97		Т
32.00	W	L	D			W	L	T D	CU YDS
Pit 1	20'	20'	5'	Pit 1		50'	45'	9'	417
Pit 2	15'	15'	3'	Pit 2		20'	20'	9'	125
Pit 3				Pit 3					1 .20
DATE:	#1 5/12 #2 6/5	Pit 1 @ 9'	Pit 2 @ 8'	Pit 3 @	Date:#1	,5/12,#2,6/5/97	Pit 1 @ 9'	Pit 2 @ 9'	Pit 3 @
	Center	1.6	10			Center	1.6	28.5	
P	NW Corner	2.8	9.3		P	NW Corner	2.8	15.1	
1	NE Corner	3	4.8		7	NE Corner	3	3.4	
D	SW Corner	0	9.1		a F	SW Corner	0	22.5	
	SE Corner	0	6.2		7	SE Corner	0	26.4	
NOTES	3:								
	5/11/97 STAR	T EXCAVATION	ON ON PIT#	1 NO ODOR D	ETECTED	LIGHT STAIN	IING		
	EXCAVATE 4	BELOW PIT	BOTTOM,TA	KE PID READ	INGS				
				FROM SIDE V	VALLS				
	1 POINT GRA	B SAMPLE F	ROM BOTTO	M CENTER.					
<u></u>		-							
	6/5/97 START	EXCAVATION	ON ON PIT #2	LIGHT ODO	R,HEAVY	STAINING TO	2'		
	BELOW PIT E	BOTTOM, EX	CAVATE TO	6' BELOW PIT	BOTTO	, NO ODOR ,I	JGHT		
	STAINING. TA	KE PID REAI	DINGS @ 4' A	ND 6' BELOW	/ PIT BOT	TOM.			
	6/5/97 PULLE	D 4 POINT C	OMPOSITE F	ROM SIDE W	ALLS				
	1 POINT GRA							·	
							-		
	ALL SOILS F	ROM PITS #1	AND #2 WER	E LAID OUT	ON LOCAT	TION FOR LAN	D FARMING I	REMEDIATIO	N .
DATE:		5/12/97	6/5/97	SOIL SAMP	LING				
		Pit 1 @ 9'	Pit 2 @ 9'	Pit 3 @	ANALYS	IS RESULTS		PER LAB	ASSAIGAI
	Center	1.6	28.5		PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner	2.8	15.1		NO				DATE
- 1	NE Corner	3	3.4		1	ND	ND	JEFF C.	5/15/97
D	SW Corner	0	22.5	ø.	2	ND	ND	JEFF C.	6/10/97
	SE Corner	0	26.4		3			0211 0:	0/10/5/
				RE-SAMPLE	OR CELL	(S) SAMPLE		<u> </u>	
DATE:		Pit 1 @	Pit 2 @	Pit 3 @				PER LAB	
	Center				PIT	TPH	BETEX	WITNESS	DATE
P	NW Corner				NO			TALLIATOO	DATE
	NE Corner			1	1				
D	SW Corner				2				
	SE Corner				3	 			++
		·		RE-SAMPLE		(S) SAMPLE			
DATE:		Pit 1 @	Pit 2 @	Pit 3 @		IS RESULTS		PER LAB	
	Center		<u> </u>		PIT	TPH	BETEX		DATE
Р	NW Corner			 	NO	IFN	DCIEA	WITNESS	DATE
	NE Corner		···	 	1				
	SW Corner	-		 	2				
	SE Corner		·	 	3				
		1			1 3				



					_ =	SAMPLE AREA
WELL NAN	ΛE	JAT 396#1	P1+#1			
SAMPLE D	ATE	5-12-97				
NOTES	4 POIN	T COMPOSITE SAM	IPLE TAKEN	8" TO 10" IN	NTO PIT	
_	SIDEV					
	1 POI	NT GRAB SAMPLE T		12" INTO E	воттом с	ENTER
		,	1			
•					·············	
•			 			
-						
-				***************************************	· · · · · · · · · · · · · · · · · · ·	
•				· · ·		
-				····		



					= SAMP	LE AREA
WELL NAM	ИE	JAT 396#7	Pit #2			
SAMPLE D	DATE	6-5-97				
NOTES	4 POIN	T COMPOSITE S	AMPLE TAKE	N 8" TO 10" II	NTO PIT	
	SIDEV	VALL				
	1 POIN	IT GRAB SAMPLI	E TAKEN 10" 1	ΓΟ 12" INTO I	BOTTOM CENTER	₹
						
						-



ASSAIGAI ANALYTICAL LABORATORIES, INC.



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

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

Report Generated: May 21, 1997 15:05

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9705141

WORK ID

: JICARILLA PIT CLOSURES

CLIENT CODE

: APA01

DATE RECEIVED : 05/14/97

Page: 1

ATTN: JEFF CROSS

Lab ID: 9705141-01A

P.7 #1

Sample ID: JAT 396 #1 RES PIT BOTTOM

Collected: 05/12/97 11:45:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5 00	05/15/97	SBTXME162
Toluene	ND	mg/Kg	0.0010	50 0	05/15/97	SBTXME162
Ethylbenzene	ND	mg/Kg	0.0010	500	05/15/97	SBTXME162
P-&m-Xylene	ND	mg/Kg	0.0020	500	05/15/97	SBTXME162
O-Xvlene	ND	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010	500	05/15/97	SBTXME162

Lab ID: 9705141-01B

Sample ID: JAT 396 #1 RES PIT BOTTOM

Collected: 05/12/97 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	ND	mg/Kg	50	1.0	05/16/97	SDRO26

Lab ID: 9705141-02A

Sample ID: JAT 396 #1 RES PIT SIDES

Collected: 05/12/97 11:30:00

Matrix: SOIL

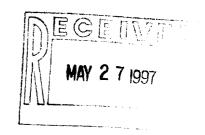
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	05/15/97	SBTXME162
Toluene	ND	mg/Kg mg/Kg mg/Kg mg/Kg	0.0010	500	05/15/97	SBTXME162
Ethylbenzene	ND	mg/Kg	0.0010	500	05/15/97	SBTXME162
P-&m-Xylene	ND	mg/Kg	0.0020	500	05/15/97	SBTXME162
O-Xylene	ND	mg/Kg	0.0010	500	05/15/97	SBTXME162



L. D: 9705141-02B Sample ID: JAT 396 #1 RES PIT SIDES

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	05/16/97	SDRO26

Biava



WORKORDER COMMENTS

DATE

: 05/21/97

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 Custod Record

ALBUQUERGUE, NEW MEXICO 87109
(505) 345-8864

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3332 WEDGEWOOD El. PASO, TEXAS 79025 (916) 530-6000

1910 N. BIG SPRING MIDLAND, TEXAS, 78704, AV 2 7 1997 (315) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MENDO 32328

Nollent Apache Corporation	Project Manager / Contact Jef-f- Cross-	CIUDAD JUAREZ, CHIMUAHUA MENDO 33328
o. 304 N. Behrend	Telephone No. (505) 774-6643	painting springer
	Fax No. (505) 774-6624	SA
Project Name / Number JICARILLA PIT CLOSURES	OSURES Samplers: (Signature)	
Contract / Purchase Order / Quote		
The second of th		
M. K. 1147.39, 27 R. O. 12 Cotton 5-12-57	11:45 50,6 402 6/433 IEE	
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141.00	the P. B.	Date Received by:
CIMIC CIMIC CONTRACTOR		
Jourse Corp.	Company All Company	Time
255		Reliabil
ر آم آم آم		After analyzia, semples are to be:
Tiebhod of Shipmenii:		
Essola Instructions:		Stored over 30 days (additional las)
		Returned to customer

LABORATORY



ASSAIGAI ANALYTICAL LABORATORIES, INC.

JUN 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 13, 1997 17:23

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

TO: 304 N. BEHREND

FARMINGTON, NM 87401

WORKORDER # : 9706070

WORK ID : JICARILLA PIT CLOSURES

CLIENT CODE : APA01 DATE RECEIVED : 06/09/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706070-01A

Sample ID: JAT 396 #1 PIT #2 SIDES

Collected: 06/05/97 12:00:00

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 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	06/10/97 06/10/97 06/10/97 06/10/97	SBTXME168 SBTXME168 SBTXME168 SBTXME168 SBTXME168

Lab ID: 9706070-01B

Sample ID: JAT 396 #1 PIT #2 SIDES

Collected: 06/05/97 12:00:00

Matrix: SOIL

Sample 15. 6111 550 W-						
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	06/12/97	SDRO32

Lab ID: 9706070-02A

Sample ID: JAT 396 #1 PIT #2 BOTTOM

Collected: 06/05/97 12:30:00

Matrix: SOIL

Sample ID: JAT 396 #1 PI	114441211 50					=	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID	
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&rn-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	06/10/97 06/10/97 06/10/97 06/10/97 06/10/97	SBTXME168 SBTXME168 SBTXME168 SBTXME168 SBTXME168	



Page: 2

L. D: 9706070-02B Sample ID: JAT 396 #1 PIT #2 BOTTOM

Collected: 06/05/97 12:30:00 **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	06/12/97	SDRO32

William P. Biava

WORKORDER COMMENTS

DATE : 06/13/97 WORKORDER:

DEFINITIONS/DATA QUALIFIERS

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

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

D_F = Sample "dilution factor"

 \overline{NT} = Analyte "not tested" per client request.

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

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

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

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

REPORT COMMENTS

Client Apache Corporation

Chain of Custouy Record

Project Manager / Contact <u>J eff Cross</u>

ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8964

1910 N. BIG S. MIDLAND, TEXA. (915) 570-1116

,05

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

MELQUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

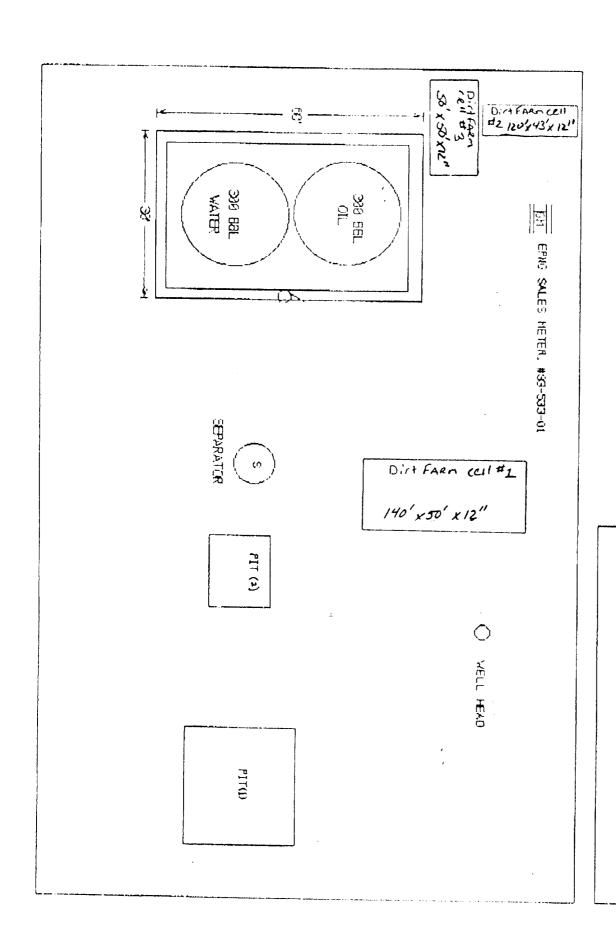
Remarks Sect Disposed of (additional fee)
Stored (30 days max)
Stored over 30 days (additional fee)
Returned to customer Scutt Analysis Required After analysis, samples are to be: Received by: Signature Company 8:0 m Preservation Temp. Chemical Signature & Multu AND Relinquished by: Printed Fax No. (505) 774-6624 Type / Size of Container 402 Glass Telephone No. (505) Project Name/NumberJICARILLA PIT CLOSURES Samplers: (Signature) Printed Chin Sample Type Company ALL SAT 396#1 Pit #2 Sides 6-5-97 (12:00) Soil Signature E E Received by: Comments: Reason Date Civ/State/zpEarmington, NM 87401 61,19 JAT 396 P. P. F. BOTEM Пm• Sample Number / Locadon Address 304 N. Behrend Contract / Purchase Order / Quote PRACTION thod of Shipment: icial Instructions: AC 181 rquished by:

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7

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pment No.



RIO ARRIBA COUNTY NY MW PETROLEUM

REVIEED 6/2/97 MG

BYANGER

ME/4 NE/4 LANSO # LAT 398 SECTION 8. TOWNSHIP 23N, RANGE 3W JICARILLA TRIBAL 356 NUMBER 1

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P. O. BOX 507 DULCE, NEW MEXICO 87528

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>M W PET</u>	TROLUEM			Telephone	505-325-0	0318	
Address:	2 855 SOUTHS	SIDE RI	IVER ROA	D /SUITE A/FARMING	TON, N.M.	87401-794	7
Facility or Well Name:	JA7	<u>Г 396 #</u>	# 1 CELL #1	1			
Location: Unit or Qt	etr/Qtr Sec	Α	Sec 8	T 23N R 3W	County	RIO ARRI	IBA
Land Type	JIC. TRIBAL						
Date Remediation Start	ted: 5/	/11/97		Date Completed:		6/10/98	
Remediation Method:	Landfarmed		XXX	Approx. cubic yards		220	
	Composted			<u>-</u>		<u></u> -:-	
	Other			SOIL TO BE SPREAD	D ON LOC/	ATION.	
Depth to Groundwater:		(pts))0	Final Clo	sure Sampl	ling	
Distance to an Ephemer	ral Stream:	•	0	Sampling Date:	_	_	9:40AM
Distance to Nearest Lake or Watering Pond:	te, Playa,	(pts)	0	Sample Results:			
Wellhead Protection Are	ea:	(pts)	0	Field Headspace (ppm)	0	-	
Distance To Surface Wa	ater:	(pts)	0	TPH (ppm)			M8015
RANKING SCORE (TO	TAL POINTS)		0	Other BTEX \SV	W846 , 8020	20A (ND)
I HEREBY CERTIFY TH KNOWLEDGE AND BEL	AT THE INFORM	MATIO	N ABOVE	IS TRUE AND COMPL	ETE TO TH	HE BEST O	FMY
DATE:	7/13/98		_PRINTED I	NAME	JEFF CRO	oss	
SIGNATURE / L	Alun		TITLE	PROJECT	MANAGE	<u>.R</u>	
AFTER REVIEW OF TH ACCORDANCE TO THE	IÉ SOIL REMEDI E JICARILLA AP/	IATION ACHE	TRIBE PIT	ATION. ON-SITE REM CLOSURE ORDINAN	MEDIATION CE.	IS APPRO'	VED IN
APPROVED: YES	·_X	NO.		(REASON)		<u>_</u>	-
SIGNED: Low	- Man	$\underline{\mathbb{Q}}$	DATE:	7-29-98	/		· -

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P. O. BOX 507 DULCE, NEW MEXICO 87528

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

ON-SITE SOIL REMEDIATION REPORT

Operator: MWF	PETROLUEM			Telephor	ne	505-325-0	0318	
Address:	1 855 SOUTHS	IDE RI	VER ROA		-	***		7
Facility or Well Nam	ne:JAT	Г 396 #	1 CELL#	2				
Location: Unit or	or Qtr/Qtr Sec	Α	Sec 8	T 23N	R 3W	County	RIO ARR	(IBA
Land Type	JIC. TRIBAL							
Date Remediation St	started: 5/	11/97		Date Com	npleted:		6/10/98	
Remediation Method	d: Landfarmed	_	XXX		cubic yards		120	
	Composted			_				
	Other			SOIL TO	BE SPREAL	D ON LOC	ATION.	
Depth to Groundwate	er:	(pts)	0	T	Final Clo	sure Samp	oling	
Distance to an Epher	meral Stream:	(pts)	0	Sampling		•	•	9:50AM
Distance to Nearest I or Watering Pond:	Lake, Playa,	(pts)	0	Sample R				
Wellhead Protection	Area:	(pts)	0	Field Headsp		0	_	
Distance To Surface	Water:	(pts)	0	TPH	W. 1 /		····	M8015
RANKING SCORE (1	TOTAL POINTS)		0	Other	er <u>BTEX\S\</u>	W846 , 802	20A (ND)
I HEREBY CERTIFY KNOWLEDGE AND I	BELIEF				ND COMPL	ETÉ TO TI	HE BEST C	F MY
DATE:	7/13/98		PRINTED	NAME		JEFF CR	oss	
SIGNATURE	Jeff (wo		TITLE		PROJECT	MANAGE	.R	
AFTER REVIEW OF ACCORDANCE TO T	THE SOIL REMED!	IATION ACHE	I INFORM/ TRIBE PIT	ATION. ON CLOSURE	N-SITE REN E ORDINAN	/EDIATION	IS APPRO	VED IN
APPROVED: Y	resX	NO.		_(REASON	1)			-
SIGNED: Kee	-CMa	$\underline{\mathscr{N}}$	DATE:	<u></u>	29-98	<u> </u>		-

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P. D. BOX 507 DULCE, NEW MEXICO 87528

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

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETF	ROLUEM			Telephone		505-325-0	318	<u>-</u>
Address:		2 855 SOUTHS	IDE RIV	ER ROAD	/SUITE A/	FARMING1	TON, N.M.	87401-7947	
Facility or W	/ell Name:			JAT 396 #	1 CELL # 3	3			
Location:		/Qtr Sec			T 23N	R3W	County	RIO ARRI	ВА
Land Type		JIC. TRIBAL							
Date Remed	diation Starte	ed: 6	/5/97		Date Com	pleted:		6/10/98	
Remediatio	n Method:	Landfarmed		XXX	_Approx. c	ubic yards		200	
		Composted			-				
		Other			SOIL TO	BE SPREA	D ON LOC	ATION.	
Depth to G	roundwater:		(pts)	0		Final Clo	sure Sam	pling	
-	an Epheme	ral Stream:	(pts)	0	Sampling	Date:	6/10/98	3_Time:	10:00AM
Distance to or Watering	Nearest Lak g Pond:	ke, Playa,	(pts)	0	Sample F		0		
Wellhead F	Protection Ar	ea:	(pts)	0	TPH	pace (ppm)		 Method	M8015
Distance T	o Surface W	ater:	(pts)	0				 020A (NI	
RANKING	SCORE (TO	TAL POINTS)		0	-	<u> </u>		<u>, </u>	
	CERTIFY T	HAT THE INFO	RMATIC	N ABOVE	IS TRUE	AND COMF	PLETE TO	THE BEST	OF MY
DATE:		7/13/98		PRINTE	NAME		JEFF C	ROSS	
SIGNATU	RE	floor	 	TITLE		PROJEC	T MANA	GER	
AFTER RE	EVIEW OF T	HE SOIL REME HE JICARILLA A	DIATIC	N INFORM	MATION. C T CLOSUR	ON-SITE RE RE ORDINA	MEDIATION NCE.	ON IS APPR	OVED IN
APPROVE	ED: YE	:s_ <u>X</u>	NO)	_(REASO	N)			_
SIGNED:	Kee	-C Ma		DATE:	7-	29-9	8		

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	JAT 396 # 1	·	_	
* AMOUNT OF SOIL UNDE	RGOING REMEDIATION	542	_Yds.	
CELL No. 1		SampDATE 6/10/98	TPH ND	BTEX ND
	•			
DIMENSIONS(LxWxH)	140' X 50' X 12"			
CELL LOCATION (dir. from well I	nead <u>WEST</u>			
* DATE BEGAN: 5/11/97				
DATE TERMINATED (TPH <5,00	00 ppm/BTEX< 50 ppm/Benzene < 10 ppm)	6/10/98	3	
		SampDATE	TPH	BTEX
CELL No. 2	-	6/10/98	ND	ND
	•			
DIMENSIONS(LxWxH)	120' X 43' X 12'			
CELL LOCATION (dir. from well I	head WEST			
· ·				
* DATE BEGAN: 5/11/97				
DATE TERMINATED (TPH <5,00	00 ppm/BTEX< 50 ppm/Benzene < 10 ppm)	6/10/98	3	
		SampDATE	TPH	BTEX
CELL No. 3		6/10/98	1600	ND
DIMENSIONS(LxWxH)	140' X 50' X 12"			
CELL LOCATION (dir. from well I	head <u>WEST</u>			
* DATE BEGAN: 6/5/97				
DATE TERMINATED (TPH <5,00	00 ppm/BTEX< 50 ppm/Benzene < 10 ppm)	6/10/98	3	-
REMEDIATION RECORD: (Date	, Treatment, Tilling)			
5/13/97 TREAT CELLS # 1, 2 WI	TH 46-0-0 FER TILIZER, WATER, PLOW AND	TILL SOIL.	: .	
5/22/97 PLOW AND TILL CELL #	· · · · · · · · · · · · · · · · · · ·			
6/2/97 WATER, PLOW AND TILL			ND 0	
7/10/97 PLOW AND TILL ALL TH	6-0-0 FERTILIZER. WATER ,PLOW AND TIL	L CELLS # 1,2 P	AND 3.	
8/19/97 PLOW AND TILL ALL TH				
4/28/98,4/29/98 PLOW AND TILL				
6/2/98,6/3/98 WATER,PLOW AN				

From excavation reports.

NOTES: 0 0 ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 14 point composite SAMPLE 0 0 0 0 0 Ō 0 \bigcirc 0

-

WELL NAME: (6-10-98)DIMENSIONS: (40'x38'x12'')

= SAMPLE AREA

2. 魔

NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 2 paret composite sample O

WELL NAME:
SAT 346 € 1 Cent € 2

SAMPLE DATE: 6-10-98

DIMENSIONS: 120' × 43' × 12"

= SAMPLE AREA

NOTES: SAMPLE DATE: DIMENSIONS: 0 0 ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 6-4-98 12 point composite sample 0 0 0 0 0 0 0 = SAMPLE AREA

WELL NAME: JAT 396 #1 cell #3





ASSAIGAI ANALYTICAL LABORATORIES, INC.

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**

	result is estimated analyzed out of hold time tentatively identified compound subcontracted		
В	analyte detected in Method Blank		
E	result is estimated		
Н	analyzed out of hold time		
V	tentatively identified compound		
S	subcontracted		
-9	see footnote		

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client:

APACHE CORPORATION

Project: 9806169

JICARILLA

1 Mase for president of Aseaigai Analytical Laboratories, Inc.

Client Sample ID	JAT 390	6 #1 C	ELL #1 	Sa Ma		Sample Collected	06/10/98 09:40:00			
						Dilution	Detection			Run
<u>Fraction</u>	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	Limit	*	Sequence	Date
			SW846-8020 Volatiles							
9806169-01A	X98325	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.536-14	06/15/98
	X98325	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.536-14	
	X98325	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.536-14	
	X98325		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.536-14	
	X98325	108-88-3	Toluene .	ND	mg / Kg	50	0.005		XG.1998.536-14	
			SW846-8015 Modified TPH							
9806169-01B Client	X98321		Diesel Range Organics	ND Sa	mg / Kg	25	25		XG.1998.555-5	06/20/98
	X98321 JAT 396	6 #1 C		Sa	mg / Kg mple SOIL ttrix		25		XG.1998.555-5 Sample Collected	06/20/98 06/10/98 09:50:00
Client		6 #1 C		Sa	mple SOII		25 Detection		Sample	06/10/98
Client		CAS#		Sa	mple SOII	-		*	Sample	06/10/98 09:50:00
Client Sample ID	JAT 396			Sa Ma	mple SOIL	Dilution	Detection	*	Sample Collected	06/10/98 09:50:00 Run
Client Sample ID	JAT 396		ELL #2	Sa Ma	mple SOIL	Dilution	Detection	*	Sample Collected	06/10/98 09:50:00 Run
Client Sample ID Fraction	JAT 396	CAS#	ELL #2 SW846-8020 Volatiles	Sa Ma <u>Result</u>	mple SOIL trix Units	Dilution Factor	Detection <u>Limit</u>	*	Sample Collected Sequence	06/10/98 09:50:00 Run <u>Date</u>
Client Sample ID Fraction	JAT 396 QC Group X98325	CAS #	ELL #2 SW846-8020 Volatiles Benzene	Sa Ma <u>Result</u> ND	mple SOIL trix Units mg/Kg	Dilution Factor	Detection <u>Limit</u>	*	Sample Collected Sequence XG.1998.536-15	06/10/98 09:50:00 Run <u>Date</u>
Client Sample ID Fraction	JAT 396 QC Group X98325 X98325	CAS #	ELL #2 SW846-8020 Volatiles Benzene Ethylbenzene	Sa Ma Result ND ND	mple SOIL Units mg / Kg mg / Kg	Dilution Factor	Detection Limit 0.005 0.005	*	Sample Collected Sequence XG.1998.536-15 XG.1998.536-15	06/10/98 09:50:00 Run <u>Date</u>
Client Sample ID <u>Fraction</u>	QC Group X98325 X98325 X98325	CAS #	SW846-8020 Volatiles Benzene Ethylbenzene o-Xylene	Sa Ma Result ND ND ND	Units mg / Kg mg / Kg mg / Kg	Dilution Factor 50 50	Detection Limit 0.005 0.005 0.005	*	Sample Collected Sequence XG.1998.536-15 XG.1998.536-15 XG.1998.536-15	06/10/98 09:50:00 Run <u>Date</u>
Client Sample ID Fraction	QC Group X98325 X98325 X98325 X98325	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	mple SOIL Units mg / Kg	Dilution Factor 50 50 50 50	Detection <u>Limit</u> 0.005 0.005 0.005 0.005	*	Sample Collected Sequence XG.1998.536-15 XG.1998.536-15 XG.1998.536-15 XG.1998.536-15	06/10/98 09:50:00 Run <u>Date</u>





ver 1.1 / 980406

Report Date

6/23/98 4:32:53 PM





Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: APACHE CORPORATION
Project: 9806169 JICARILLA

Client Sample ID	JAT 396	6 #1 C	ELL #3	Sa Ma	Sample Collected	06/10/98 10:00:00				
Fraction	QC Group	CAS#	SW846-8020 Volatiles	Result	<u>Units</u>	Dilution <u>Factor</u>	Detection <u>Limit</u>	*	Sequence	Run <u>Date</u>
9806169-03A	X98325	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.536-16	06/15/98
	X98325	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.536-16	00113/30
	X98325	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.536-16	
	X98325		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.536-16	
	X98325	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.536-16	
			SW846-8015 Modified TPH							
9806169-03B	X98321		Diesel Range Organics	1600	mg / Kg	25	25		XG.1998.555-7	06/20/98

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



Chain of Custody Record

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

762 8 -6AP

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

				·													_														
	Special instructions:	Shipment No.	Hethod of Shipment:	Ne ason			2	1	Relinquished by:								100	3	¢ ¢0	28	2A 3	SE.	IA C	FRACTION		Contract / Purch	Project Name / Number	The American Comments	City/State / Zin	Address 2855	client Apache
						A packe Para	EFF COOSS	11 Corp						***************************************				/	JAT356#/ Cell #3	1	JAT 356 #1 CC	1	JAT 396#1 cc11 #1	Sample Number / Location		Contract / Purchase Order / Quote	lumber	* 18 * III & 18 * 18 * 1	City/State/ZinParmi haton.	5 Southside	e Corporation
					7	Time		6/12/98	Date										1#3		CC11#2		25-01-9 1#	ation					NM 87401-7947	River RD,	on
			Comments	Hee	Company France		Printed /	Signature	Received by:									_	0000		9:50		4:40	. Time						1	
						T	Chr. T. Clark	Mr. (4) C							-							1 yoz	Soil 4 0:	Type Type/S		,	Samplers: (Sign	3	ax No. (505	Γelephone No	Project Manager
							Prite	SIO) Relli				-	4	ų						(4 oz glass	glass	Type / Size of Container		070	Samplers: (Signature) JEH-CLOS	,	Fax No. (505) 774-6624	Ste. ATelephone No. (505) 774-6643	Project Manager / Contact Jeff
				200	Company		Printed	Signature	Relinquished by:					0/15/00	,	-							ye tree	Yemp Chemical	1	,	(NOS		4	-6643	f Cross
								S. Car	Z				 				-		<u>-</u> У	<u>ー</u> ズ	 ×	 - ×	~ ×		4	01 CO	ntalnor	 - -		_	
			Auter amarys) · ·]]	7/7/	- C/p/cs	Date															7.5/.x/		20 20 10 -	∀ ///	1025/			
Returned to customer	Stored over 30 days (ad-	Stored (30 days max)	Disposed of (additional	NGASON) Company			Signature	Received by:															/ / /		//		/		Analysis Required	
	s (ad. tee)	<u>x</u>	onal				Mar.	1	•	- /	 / /				-													/ / /			
									\ \ \``															3		-Siev	Remarks		II.	en,	

7/10/98

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;

District I			State	of New Mexi	со					Form C-104	
P.O. Box 1980, Hobbs, I	NM 88241-1980	Energy, I	Minerals and I	Natural Reso	ources Departmer	ıt			Revised !	February 10, 1994	
District if						Insturctions on back					
P.O.Drawer DD, Artesia	NM 88211-0719	OIL (MOITAV	IDIVISION			;	Submit to Approp	riate District Office		
District III			P.C	. Box 2088	3					5 Copies	
1000 Rio Brazos Rd., Az	ztec, NM 87410		2040 S	outh Pach	eco						
District IV			Santa F	e, NM 87	7505				AMEND	ED REPORT	
P.O. Box 2088, Santa F	e, NM 87504-2088								•		
1	RFOL	JEST FOR AL	LOWABLE	AND AU	THORIZATIO	и то т	RANSP	ORT			
1 Operator name and							GRID Numbe				
Apache Co						0	00873				
•	Oak Blvd, Si	uite 100				3 R	eason for Filir	ng Code			
	X 77056-44					C	CH effec	tive August	1, 1998		
⁴ API Number		⁵ Pool Name						⁶ Pool Code			
30-039-231	86	LINDRITH	WEST - GA	ALLUP-DA	AKOTA	39189					
⁷ Property Code		8 Property Name					1	9 Well Number	Ť		
		JICARILLA	TRIBAL 3	96		_		3			
	[™] Surface L	ocation							r		
UI or lot no.	Section	Township	Range	Lot. idn	Feet from the		outh line	Feet from the	East/West line	County	
C	8	23N	3W	L	990	N_		1690	<u> </u>		
		ole Location	···		· · · · · · · · · · · · · · · · · · ·					O	
UI or lot no.	Section	Township	Range	Lot. ldn	Feet from the	North/S	outh line	Feet from the	East/West line	County	
12 Lse Code	13 Producir	ng Method Code	14 Gas Conr	nection Date	15 C-129 Permit Number	er 16 2	9 Effective Da	te 17	C-129 Exp	piration Date	
F	F	(4									
III. Oil and Gas	s Transporte	ers									
18 Transporter	1	19 Transporter Name			20 POD	²¹ O/G		²² POD ULSTR			
OGRID	GIANTE	and Address EFINING CO				0		and Desription	on		
0090108	POBOX	ETIMING CO							* **	****	
		GTON, NM 87	7400								
		NATURAL G									
007057	1		G	5	120 150 200	The Assessment	J acobi				
	į			101							
	FARMING	STON, NM									
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	l			1						, 1	

0090108	GIANT REFINING CO P O BOX 256		· · · · · · · · · · · · · · · · · · ·
	FARMINGTON, NM 87499		
007057	EL PASO NATURAL GAS CO P O BOX 4990	G	PEREEN
	FARMINGTON, NM		- 413
			JUL 2 0 ROW 4
			OIL COUL DAY
IV Produced V	Vater		·
²³ POD	24 PC	DD ULSTR Location and Description	

V. Well Comp	letion Data			
25 Spud Date	²⁶ Ready Date	27 TD	²⁸ PBTD	29 Perforations
30 Lie	ole Size	31 Casing & Tubing Size	32 Depth Set	33 Sacks Cement
FIC	ile Size	Cashing & Tubing Gize	Deptil Get	Sacind Scinetic
VI Well Test D)ata			

34 Date New Oil 35	Gas Delivery Date	36 Test Date	37 Test Length	38 Tbg. Pressure	³⁹ Csg.	Pressure
40 Choke Size 41	Oil	42 Water	43 Gas	44 AOF	⁴⁵ Tes	t Method
	the rules of the Oil Conservation Division on given above is true and complete to	-	Approved by:	DIL CONSERVAT		
Printed Name: Pamela M. Lo	eighton	0	Title: Si	UPERVISOR	DISTRICT #3	
Title: Sr Operations	s Clerk		Approval Date:	JUL 2	8 199 8	
Date: 7/10/98	Phone: 713-296-7	120				
⁴⁷ If this is a change of o	operator fill in the OGRID number and 422 MW Petro	name of the previous operator oleum Corporation				
Same	evious Operator Signature:	sto	Printed Name Pamela M. Lei	Title ighton Sr C	Operations Clerk	Date 7/10/98