District III State of New Mexico

1000 Rio Brazos Rd Energy, Minerals and Natural Resources Department

Aztec NM 87410 C & CAS INSTECTOR

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

DEC 1 7 1998

OIL CONSERVATION DIVISION

2040 S. PACHECO Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT ONL GOM. DIV.

Operator:	Apache Co		_ Telep	:		505	505-325-0318							
Address:	2855 South	hside River Road, S	suite A, Farn	ningt	on, N	M 874	01							
Facility or V			Apache #		Pit #									
Location:	Unit or Qtr/0	Qtr Sec	0	Sec	2	T 24	N	R	4W	Cou	nty	Rio Arri	ba	
Pit Type:	Separator:	XXX	Dehydrator	л <u> </u>		_Other	r .			-				
Land Type:		Jicarilla Tribal												
	Beginni	ing Pit Dimensions:	Length		36'	<u> </u>	 Width_		30'	,	Depth		4'	
Pit Location: (Attach diag	Endir ıram)	ng Pit Dimensions:	Length	J	38'	<u>.</u> v	- Width _		23'	_	Depth		0'	
(r mas.: a.z.o	Referer	nce:	Wellhead	X	XX_	_Other	-						_	
! !	Footag [,]	ge from reference:			85'									
	Directic	on from reference:			248	_Degre	es _			East		North		
							_	X	X	- West	of t	South		х
Depth To G		r:				Less ti	han 5(n fee	+			(00 = sint	-	
(vertical distanc	ce from					50 feet						(20 points (10 points	· -	
contaminants to						Greate						(0 points	·	0
high water elev: groundwater)	ation of											(o po	′	
Wellhead P						-				Yes		(20 points	-1	
(Less than 2	00 feet from	າ a private				•				No		(20 points	·	0
domestic wa 1000 feet fro	er source, on all other	or; less than water sources)								• • •		(0 00	′	
Distance To Horizontal d						Less th						(20 points		
akes, ponds,	, rivers, stre	eams, creeks,				Greate						(10 points (0 points)	·	0
rrigation can	als and und	nes)			1	RANKII	ING S	COR	E (TO	TAL F		•		0

1						
Date Remediation Sta	arted:	11/17/95		Date Com	npleted:	11/19/95
Remediation Method (Check all appropriate		Excavation .	xxx	_Approx. c	cubic yards	270
sections)	Landfarmed	1	XX	_Insitu Bior	remediation	
		Other				
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)		Onsite	xx	Offsite		
General Description o	of Remedial Action:		Excavate	pit to 10', 1	took PID readings	i.
Spread soi	il on location for remo	ediation. T	ook soil s	amples.	Pit back filled w	/ fill dirt
		···				
	·					
Groundwater Encoun	tered:	No_	xx	Yes	s D	Depth
Final Pit: Closure Sampling: (in multiple samples,	Sample location	.!	5 point com	posite taken f	from pit sidewalls and	I pit bottom center
attach sample results and diagram of sample	Sample depth	10' 8	8 to 10" ir	ofo nit side	walls 10" into pit I	hattam
locations and depths)	Sample Date	_				
	Sample results	-	12/14/95		_Sample Time	3:30 P.M.
	Benzene	1	(ppm)	ND	<u>'</u>	
	Total BTEX	((ppm)	0.575	<u>, </u>	
	Field Headspace	((ppm)	25.42	<u>.</u>	
	TPH			1200	1	
Groundwater Sample:		Yes_		No		s attach sample results)
I HEREBY CERTIFY TH KNOWLEDGE AND BE	AAT THE INFORMATI	ION ABOVE	IS TRUE	AND COM	PLETE TO THE B	EST OF MY
DATE	June 8, 1998	F	PRINTED N	NAME	Jeff Cross	
SIGNATURE	of lun		AND TITLE	Ē	Project Manager	

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: A	pache Corporation				Telephone) :	505-325-	0318	
Address: 28	355 Southside River Road, Su	ite A, Farn	ningto	on, NN	/i 87401				
Facility or We	ell Name:	Apache #	102	Pit #	2				
Location: Ur	nit or Qtr/Qtr Sec	0	Sec	2	T 24 N	R 4W	_County	Rio Arriba	
Pit Type: Se	eparator:	Dehydrato	r		Other	Tank Drai	in		
Land Type:	Jicarilla Tribal								
	Beginning Pit Dimensions:	Length		45'	Width	45	Dept	h	
Pit Location: (Attach diagra	Ending Pit Dimensions:	Length		47'	. Width	47	_ Dept	h10'	
(maon alagra	Reference:	Wellhead	x	xx_	Other				
	Footage from reference:			95'		_			
	Direction from reference:		1:	56	Degrees	X	_East	North	
							_West	of South	xx
Depth To Gro					Less than	50 feet		(20 points)	
(vertical distance					50 feet to 9			(10 points)	
contaminants to s high water elevati					Greater tha	an 100 feet		(0 points)	0
groundwater)									
	otection Area:						Yes	(20 points)	
	0 feet from a private er source, or; less than						No	(0 points)	0
	n all other water sources)								
	Surface Water:				Less than 2			(20 points)	
	stance to perennial rivers, streams, creeks,				200 feet to		1	(10 points)	
	els and ditches)				Greater tha	ali iuuu tee	ι	(0 points) _	0
					RANKING	SCORE (TO	OTAL POI	NTS)	0

Date Remediation St	arted:	11/18/95		_Date Con	npleted:	11/19/95
Remediation Method (Check all appropriate		Excavation -	xxx	_Approx. c	cubic yards	451
sections)	Landfarmed	i	XX	_Insitu Bio	premediation	
		Other				
Remediation Locatio (i.e. landfarmed onsite name and location of		Onsite	XX	_Offsite		
offsite facility)			•			
General Description	of Remedial Action:		Excavate r	oit to 10',	took PID readings.	
Spread so	il on location for reme				Pit back filled w/	
Groundwater Encoun	itered:	No_	XX	Yes	s De	epth
Final Pit: Closure Sampling: (in multiple samples,	Sample location	<u>.</u>	5 point comp	osite taken f	from pit sidewalls and p	oit bottom center
attach sample results and diagram of sample locations and depths)	Sample depth	10' 8	B to 10" int	o pit side	ewalls 10" into pit bo	ottom
ocations and depins)	Sample Date Sample results	-	12/14/95		_Sample Time	3:40 P.M.
	Benzene	((ppm) _	ND	<u>)</u>	
	Total BTEX	(1	(ppm)	ND	<u>)</u>	
	Field Headspace	(1	(ppm) _	12.3	<u>.</u>	
	TPH		_	600	· I	
Groundwater Sample:		Yes		No		attach sample results)
HEREBY CERTIFY THE KNOWLEDGE AND BE	AT THE INFORMATI	ON ABOVE	IS TRUE #	AND COM	PLETE TO THE BE	ST OF MY
DATE	June 8, 1998	Р	PRINTED NA	AME	Jeff Cross	
SIGNATURE	flun	A	AND TITLE	•	Project Manager	

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

PIT REMEDIATION AND CLOSURE REPORT

Pit Type: Separator: XX Dehydrator Other Land Type: JIC. TRIBAL Pit Location: Pit Dimensions: Length 38' Width 32' Depth 1	ARRIBA
Facility or Well Name: APACHE # 102 PIT # 1 Location: Unit or Qtr/Qtr Sec O SEC 2 T 24N R 4W County RIO / Pit Type: Separator: XX Dehydrator Other Land Type: JIC. TRIBAL Pit Location: Pit Dimensions: Length 38' Width 32' Depth 1 (Attach diagram) Reference: Wellhead XXX Other	0'
Location: Unit or Qtr/Qtr Sec O SEC 2 T 24N R 4W County RIO A Pit Type: Separator: XX Dehydrator Other Land Type: JIC. TRIBAL Pit Location: Pit Dimensions: Length 38' Width 32' Depth 1 (Attach diagram) Reference: Wellhead XXX Other	0'
Pit Type: Separator: XX Dehydrator Other Land Type: JIC. TRIBAL Pit Location: Pit Dimensions: Length 38' Width 32' Depth 1 (Attach diagram) Reference: Wellhead XXX Other	0'
Land Type: JIC. TRIBAL Pit Location: Pit Dimensions: Length 38' Width 32' Depth 1 (Attach diagram) Reference: Wellhead XXX Other	
Pit Location: Pit Dimensions: Length 38' Width 32' Depth 1 (Attach diagram) Reference: Wellhead XXX Other	
(Attach diagram) Reference: Wellhead XXX Other	
Footage from reference: 85'	1
	1
Direction from reference: 248 Degrees East North of	·
XX West South	h <u>X</u>
Depth To Groundwater: Less than 50 feet (20 pe	oints)
(20 p.	oints)
contaminants to seasonal Greater than 100 feet (0 po	
high water elevation of groundwater)	//// U
	oints)
(Downgradient dry wash greater than Greater than 100 feet (0 poten feet in width	oints) 0
Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 po	oints)
(Downgradient lakes, playas and Greater than 100 feet (0 po livestock or wildlife watering ponds)	oints) 0
Wellhead Protection Area: Yes (20 pc	oints)
(Less than 200 feet from a private No (0 po	· · · · · · · · · · · · · · · · · · ·
domestic water source, or less than 1000 feet from all other water sources)	
Distance To Surface Water	oints)
(Lorizontal distance to the control of the control	oints)
akes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 po	, <u></u>
rrigation canals and ditches)	
RANKING SCORE (TOTAL POINTS)	0

Date Remediation	on Started:	11/17/95	5	_Date Cor	npleted:	·	11/19/95	5
Remediation Me (Check all approp		Excavation	xxx	_Approx.	cubic yards		270	
sections)	ласе	Landfarmed	XX	_Insitu Bio	remediation	l		
		Other						
Remediation Lo (i.e. landfarmed on name and location offsite facility)	onsite,	Onsite	XX	Offsite				
General Descrip	tion of Remedia	l Action: Ex	cavate nit	to 10' tool	r PID readin	ne enros	d eail an	
	ation for remidia							<u> </u>
Groundwater En		No		_ Ye		Depti		
Final Pit: Closure Samplin (in multiple sampl	es,	ocation	5 point co	mposite tal	en from pit	sidewalls a	nd pit botto	m center.
attach sample res and diagram of sa locations and dep	imple Sample d ths)	lepth			walls ,10" in		m.	
	nple Date nple results	-	12/14/95	<u> </u>	_Sample Ti	me	3:30PM	
Soil	: Benzene		(ppm)	ND	_Water:	Benzene	(ppb)	NA
3	Total BTE	EX	(ppm)	0.575	_	Toluene	(ppb)	NA
	Field Hea	dspace	(ppm)	25.42	_ Eth	ylbenzene	(ppb)	NA_
	TPH		(ppm)	1200	_ Tota	al Xylenes	(ppb)	NA
Groundwater Sar	mple:	Yes		. No	XXX	(If yes atta	ich sample i	results)
I HEREBY CERTI KNOWLEDGE AN	FY THAT THE IN ID BELIEF.	FORMATIO	N ABOVE	IS TRUE A	ND COMPL	ETE TO T	HE BEST (OF MY
DATE	4/29/98	3	PRINTED	NAME		JEFF CR	oss	
SIGNATURE	Jeff lw	7	AND TITLI	E		PROJECT	MANAGER	R
AFTER REVIEW (THE JICARILLA A	OF THE PIT CLO APACHE TRIBE I	SURE INFO	RMATION RE ORDINA	, PIT CLOS	SURE IS AP	PROVED I	N ACCORD	ANCE TO
APPROVED:	YES	NO_		(REASON))			
SIGNED:	Lear Co) Na		DATE:	5-7	-98		

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

PIT REMEDIATION AND CLOSURE REPORT

Operator:	APA	ACHE CORPORA	TION		_Telephone	e505-3	25-0318		
Address:	285	5 SOUTHSIDE R	IVER ROA	AD / SUITE	A / FARMIN	IGTON N.N	Л. 87401 - 7	947	
Facility or W	ell Na	ame:	APACHE	# 102 PiT :	# 2				
Location:	Unit	or Qtr/Qtr Sec	_ 0	SEC 2	T 24N	R 4W	_County	RIO ARRIB	A
Pit Type:	Sep	earator:	_Dehydrat	or	_Other	TANK DE	RAIN		
Land Type:		JIC. TRIB	AL				· · · · · · · · · · · · · · · · · · ·		
Pit Location: (Attach diagn		Pit Dimensions:	Lengt Wellhead		Width _Other	47'	Dept	th <u>10'</u>	
		Footage from res		95' 156	Degrees	X	_East	North	
							_West	of South _	хх
Depth To Gr	round	dwater:			Less than	50 feet	·	(20 points)	·
(vertical distance	from				50 feet to			(10 points)	
contaminants to s	season	al			Greater th	an 100 fee	t	(0 points)	0
high water elevati groundwater)	ion of							· · · · · -	
Distance to a	an Er	ohemeral Stream	:		Less than	100 feet		(10 points)	
		wash greater tha				an 100 fee	t	(0 points)	0
ten feet in wid		•	•					(o poo) _	
Distance to I	Neare	est Lake, Playa, d	or Waterin	a Pond:	Less than	100 feet		(10 points)	
(Downgradier	nt lak	es, playas and		•		an 100 feet	t	(0 points)	0
livestock or w	vildlife	e watering ponds)						` ' _	
Wellhead Pro	otect	ion Area:				Yes	2	(20 points)	
		t from a private				No		(0 points)	0
		urce, or less than				140	•	(o points) _	
1000 feet from	m all	other water source	es)						
Distance To	Surfa	ace Water:			Less than	100 feet		(20 points)	
		e to perennial				1000 feet		(10 points)	
		s, streams, creeks	s,		Greater tha	an 1000 fee	et	(0 points)	0
irrigation cana	als ar	nd ditches)			RANKING	SCORE (T	OTAL POI	INTS)	0

Date Remediation Sta	arted:11/18	3/95	_Date Com	pleted:	11/19/95	
Remediation Method	: Excavation	on XXX	_Approx. c	ıbic yards	451	
(Check all appropriate sections)	Landfarm	ned XX	_Insitu Bior	emediation		
	Other					
Remediation Location (i.e. landfarmed onsite name and location of offsite facility)		site XX	_Offsite			
General Description (of Remedial Action:	Excavate pit	to 10',took	PID readings. spre	ad soil on	
İ	for remidiation. To			As Brek Filleo w/		-
Groundwater Encoun	tered:	No xxx		De _l		_
Final Pit: Closure Sampling: (in multiple samples,	Sample location	5 point co	mposite take	en from pit sidewalls	and pit bottor	m center.
attach sample results and diagram of sample locations and depths)	Sample depth	8" to 10" i	nto pit side v	valls ,10" into pit bot	tom.	
Sample r		12/14/95	<u> </u>	Sample Time	3:40PM	
Soil:	Benzene	(ppm)	ND_	Water: Benzene	e (ppb)	NA
	Total BTEX	(ppm)	ND	Toluene	(ppb)	NA
	Field Headspace	(ppm)	12.3	Ethylbenzen	e (ppb)	NA
	TPH	(ppm)	600	Total Xylene	s (ppb)	NA
Groundwater Sample:	Y	'es	_ No	XXX (If yes at	tach sample r	esults)
I HEREBY CERTIFY TI KNOWLEDGE AND BE	HAT THE INFORMA	TION ABOVE	IS TRUE A	ND COMPLETE TO	THE BEST O	OF MY
DATE	4/29/98	PRINTED	NAME _	JEFF C	ROSS	
SIGNATURE	flon	AND TITL	E _	PROJEC	T MANAGER	
AFTER REVIEW OF THE JICARILLA APAC	HE PIT CLOSURE IN	FORMATION SURE ORDINA	, PIT CLOS ANCE.	URE IS APPROVED	IN ACCORD	ANCE TO
APPROVED: YES	<u> </u>	10	(REASON)		····	
SIGNED:	=CMa		DATE:	5-7-98		

APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION:

APACHE 102

PIT COUNT:

2

JICARILLA APACHE TRIBAL EPO REVIEW AND APPROVAL

EPO REPRESENTATIVE DATE OF REVIEW: /2 - 2

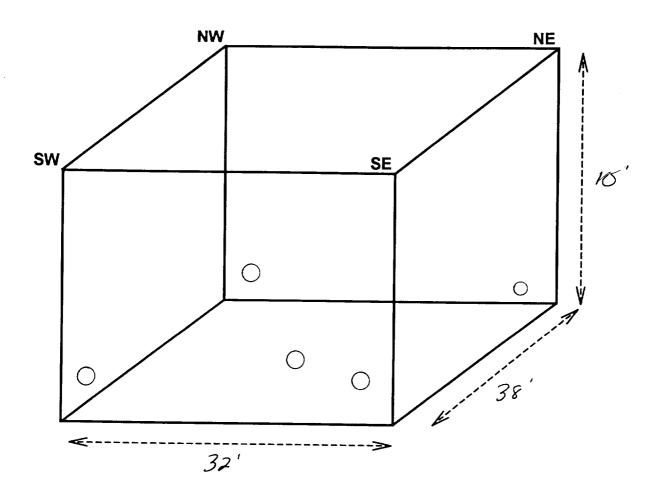
* Kim

1

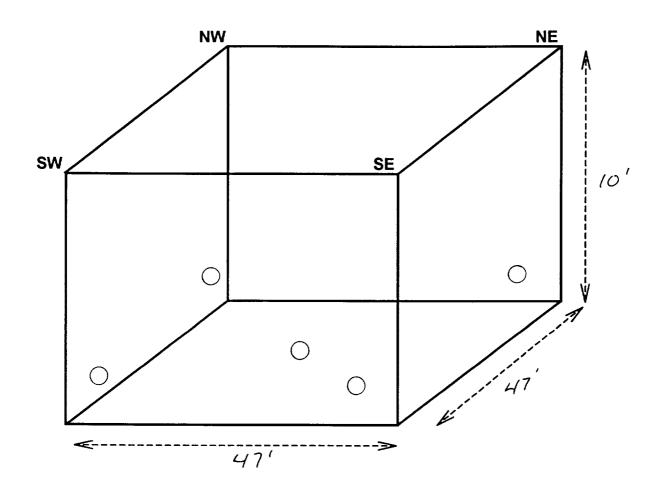
n.	Mario Cara			EXCAVAT	ION			7		
עונו	MENSIONS	START				FINISH			1	
DITT	W	L	D			W	L	D	CU.	YDS
	1 30'	36	4'	PIT 1		32'	38'	10'	270	
	2 45'	45'	4.5'	PIT 2		47'	47	10'	12,0	45
PIT				PIT 3				1-3	 	73.
DA.	TE: 11/16/95	PIT1@09'	PIT2@09'	PIT3@	DA'	TE: 11/17/95	PIT1@10'	PIT2@10'	PIT3@	==
	CENTER	280.0	237.0			CENTER	240.0			
P.	NW CORNER	140.0	62.9		⊣ թ.	NW CORNER	117.0			
I.	NE CORNER	85.8	103.0		٦,	NE CORNER	51.6			
D.		304.0	128.0			SW CORNER	280.0		 	
<u>ingsise</u>	SE CORNER	275.0	307.0		┨~`;	SE CORNER	258.0	 	 -	
ro <i>v</i>	ES:			<u>. </u>		DE CORTLER	238.0	135.0	L	
	11/17/95-	PIT 1 - Dark t	o lt. staining 4'	-8'						
		PIT 2 - No sta								
	*NOTE high BTI	EX level pit 1. 7	To be re-tested	@ time of wit	nessec	d sampling				
				SOIL SAMPI	ING	- camping.				
AT		PIT1@10'		PIT3@		LYSIS RESUL	TS	PER LAB:	A CCATC	
	CENTER	240.0	121.0		PIT	TPH T	BETEX	WITNESS	ASSAIGA	l T
P.	NW CORNER	117.0	28.1		NO.	1111	DETEA	WITHESS	DAT	
I.	NE CORNER	51.6								
D.	SW CORNER		79.6		1	4200.0	100.0	IE & C	444067	
		280.0			1 2	4200.0	100.0		11/19/95	
	SECORNER	280.0 258.0	94.7		2	4200.0 260.0	100.0 ND		11/19/95 11/19/95	
		258.0	94.7 135.0	OB CELL	2	260.0				
ATI	SE CORNER	258.0	94.7 135.0 RE-SAMPLE		2 3 S) SAI	260.0 MPLE	ND	IF&S	11/19/95	E
ATI	SE CORNER	258.0 F PIT1@10'	94.7 135.0 RE-SAMPLE PIT2@10'	OR CELL(S	2 3 5) SAI ANA	260.0 MPLE LYSIS RESUL	ND TS	IF&S PER LAB: A	11/19/95 SSAIGA	E
	SE CORNER : 12/14/95	258.0 FPIT1@10' 53.7	94.7 135.0 RE-SAMPLE PIT2@10' 12.3		2 3 6) SAI ANA PIT	260.0 MPLE	ND TS	IF&S	11/19/95	E
Р.	SE CORNER E: 12/14/95 CENTER	258.0 F PIT1@10'	94.7 135.0 RE-SAMPLE PIT2@10'		2 3 5) SAI ANA	260.0 MPLE LYSIS RESUL	ND TS	PER LAB: A	11/19/95 SSAIGA	E

P.	ARU CORNE				1 4 4 4 1	1111	DEIEA	IWIINESS	DATE
	NW CORNER	4.1	8.5		NO.				ZITE.
1,000 (10.00)	NE CORNER	11.1	12.7		1	1200	.575	TDT	W. C.
D.	SW CORNER	18.7	13.3		1 2	, , , , , , , , , , , , , , , , , , , ,	00/0	JDT	12/14/95
	SE CORNER	39.5 .	14.7		2	600		427	12/14/95
			RE-SAMPLI	E OR CELL	S) SA	MPLE			
DATI		PIT 1	PIT 2			LYSIS RESUI	TS	PER LAB:	
	OFFI								

DATE:	PIT 1	PIT 2	PIT 3	ANAI	YSIS RESU	LTS	PER LAB:	
P. NW CORNER				PIT	TPH	BETEX	WITNESS	DATE
I. NE CORNER				NO.				
D. SW CORNER				1				
SE CORNER				2				
- John State				3				



			\bigcirc	= SAMPLE AREA
WELL NAM	ΙE	APACHE # 102 PIT # 1	_	
SAMPLE D	ATE	12/14/95	_	
NOTES _	5 POIN	T COMPOSITE SAMPLE TAKEN 8" TO 10"	INTO PIT	
	SIDEV	VALL, AND PIT BOTTOM CENTER.		
_				
_				
_				
_				
				



			\bigcirc	= SAMPLE AREA
WELL NAI	ME	APACHE # 102 PIT # 2		
SAMPLE	DATE	12/14/95	. <u></u>	
NOTES	5 POII	NT COMPOSITE SAMPLE TAKEN 8" TO 10"	INTO PIT	
	SIDE	WALL, AND PIT BOTTOM CENTER.		
				-

				· · · · · · · · · · · · · · · · · · ·
				····

__o ID: 9511228-05A Sample I

TEST / METHOD

HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M Collected: 11/17/95 14:45:00

Sample I	Matrix: So	atrix: 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 76 24	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010 0.0010	10000 10000 10000 10000 10000	11/28/95 11/28/95 11/28/95 11/28/95 11/28/95	SBTXME090 SBTXME090 SBTXME090 SBTXME090 SBTXME090
Lab ID: 9511228-05B Sample ID: AP#102-H		Collected: Matrix: SO	11/17/9 DIL	95 14	:45:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	4200 11/28/95	mg/Kg N/A	5.0	500	11/30/95	SLFTD052
Lab ID: 9511228-06A Sample ID: AP#102-C		Collected: Matrix: SO	11/20/9 PIL	95 14	:18:00	
LEST / 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	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010 0.0010	50 50 50 50 50	11/27/95 11/27/95 11/27/95 11/27/95 11/27/95	SBTXME090 SBTXME090 SBTXME090 SBTXME090 SBTXME090
Lab ID: 9511228-06B Sample ID: AP#102-C		Collected: Matrix: SO	11/20/9 IL	5 14:	:18:00	

UNITS

mg/Kg N/A LIMIT

5.0

50

RESULT

260 11/28/95

> James A. Seely Operations Manager

D_F DATE

ANAL

11/30/95

BATCH_ID

SLFTD052

SBTXME097 SBTXME097 SBTXME097 SBTXME097

() ID: 9512195-07A cample ID: AP #154

BTEX/SW846 8020A

uene

-inylbenzene

P-&m-Xylene

Collected: 12/14/95 15:05:00 Matrix: SOIL

======================================		Matrix: S	OIL			
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Ethylbenzene P-&m-Xylene O-Xylene	ND ND ND	mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010	100 100 100	12/27/95 12/27/95 12/27/95	SBTXME097 SBTXME097 SBTXME097
Lab ID: 9512195-07B Sample ID: AP #154		Collected: Matrix: So	12/14/9 DIL	95 15	:05:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	840 12/21/95	mg/Kg N/A	5.0	100	01/05/96	SLFTD57
Lab ID: 9512195-08A Sample ID: AP #103		Collected: Matrix: So	12/14/9 DIL	95 15	:20:00	
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 0.0010 0.0010	50 50 50 50 50	12/27/95 12/27/95 12/27/95 12/27/95 12/27/95	SBTXME097 SBTXME097 SBTXME097 SBTXME097 SBTXME097
Lab ID: 9512195-08B Sample ID: AP #103		Collected: Matrix: SO	12/14/9)IL	5 15	:20:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	550 12/21/95	mg/Kg N/A	5.0	100	01/05/96	SLFTD57
Lab ID: 9512195-09A Sample ID: AP #102-H		Collected: Matrix: SO		5 15	:30:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID

mg/Kg mg/Kg mg/Kg mg/Kg

ND

0.085

0.23

 $0.0010 \\ 0.0010$

0.0010

0.0010

50 50 50

50

12/27/95 12/27/95 12/27/95

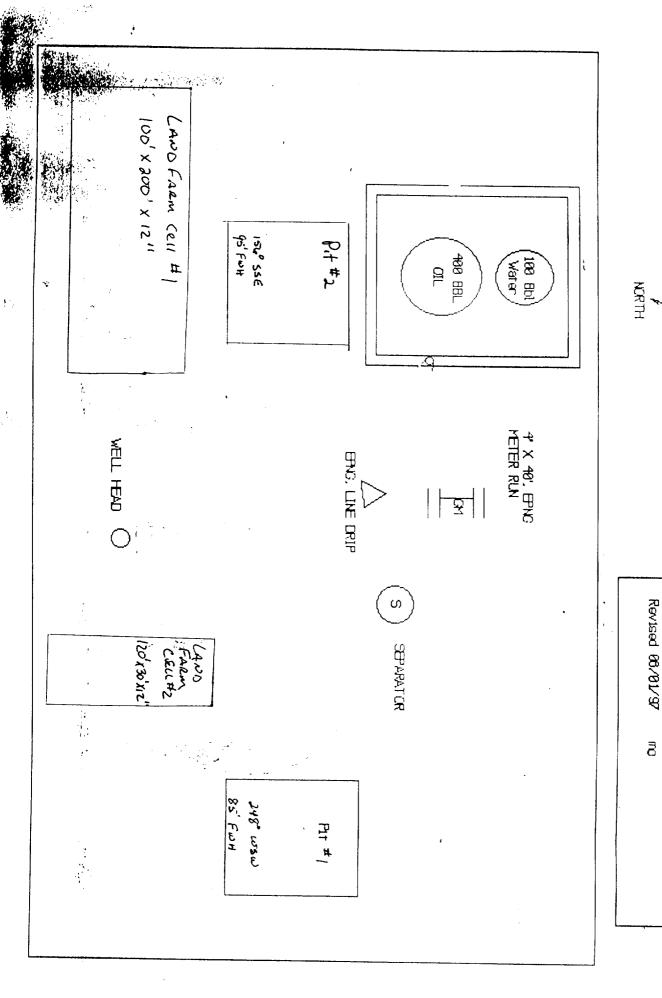
12/27/95

) ID: 9512195-09A

Collected: 12/14/95 15:30:00

Sample ID: AP #102-H		Matrix: S	01L	90 10	:30:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
BTEX/SW846 8020A O-Xylene	0.26	mg/Kg	0.0010	50	12/27/95	SBTXME097
Lab ID: 9512195-09B Sample ID: AP: #102-H		Collected: Matrix: So	12/14/9 OIL	95 15	:30:00	
rest / method	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	1200 12/21/95	mg/Kg N/A	5.0	100	01/05/96	SLFTD57
Lab ID: 9512195-10A Sample ID: 472#102-C		Collected: Matrix: So	12/14/9 DIL	95 15	:40:00	
rest / method	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
EX/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 0.0010 0.0010	100 100 100 100 100	12/27/95 12/27/95 12/27/95 12/27/95 12/27/95	SBTXME097 SBTXME097 SBTXME097 SBTXME097 SBTXME097
ab ID: 9512195-10B Sample ID: AP #102-C		Collected: Matrix: So	12/14/9)IL	5 15	:40:00	
EST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
ICs DIESEL/CAL DHS 8015M Diesel ICs DSL XT/CAL DHS 8015M	600 12/21/95	mg/Kg N/A	5.0	50	01/05/96	SLFTD57
cab ID: 9512195-11A cample ID: AP #123		Collected: Matrix: SC	12/14/9)IL	5 15:	:55:00	
EST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TEX/SW846 8020A Benzene Toluene 'thylbenzene '	ND ND ND 0.18 0.085	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010 0.0010	50 50 50 50 50	12/27/95 12/27/95 12/27/95 12/27/95 12/27/95	SBTXME097 SBTXME097 SBTXME097 SBTXME097 SBTXME097

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116 MELQUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320 ALBUQUERQUE, NEW MEXICO 871*7
(505) 345-8964 Stored over 30 days (additional fee) Hours Disposed of (additional fee) Stored (30 days max) Returned to customer After analysis, samples are to be: Analysis Required Signature Bacelved by: Company. 3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000 Reason P 400 44 30 $\overline{\omega}$ Time Chain of Custr 1y Record Non Project Manager / Contact John Iny lok Chemical 108 くく Preservation Telephone No. (5cs) 325 - 037 & Relinquished by: Signature 325-0325 Temp. Company. Printed Reason 5/455 Type / Size of Container Samplers: (Signature) Fax No. (525) 402 Lab Job no.: Sample Type <u>``</u> 95617 9.55 9.55 15.42 1.20 16:30 16:30 2:55 2:55 21.61 2:18 E E 5.18 Comments: Received by: 10/28 Company. Date : Project Name / Number DIA Rangedory (161) 15 10 11/15 Client Apachie Caporation ξ 2 Address 304 N. BEhren A Time Date Field Location City/State/Zip FAKMING Com Contract / Purchase Order / Quote ___ AP# 143- H 11P 102 H. 175 102. C. AP# 143-C 143-AP# 143.C Mary 102. H 104 162. C 707 AP # 107 <u>U</u> 1. 37. F. S. J. Lynagmos FULL APH F C APA 9 Jethod of Shipment: pecial instructions; 1886 Chris OCH 50 50 inquished bo 7 X C 1. 12-P. T.C. HAY! 1 hipment No. 74.47 1 eason _



APACHE RIO ARRIBA COUNTY, NY SECTION 2 TOWNSHIP 24N RANGE 4W APACHE NUMBER 182 Lesse # JAT 128

CENERAL DRAININGE

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

ON-SITE SOIL REMEDIATION REPORT

Operator: APACHE	CORPORATION	٧		_Telephon	ne	505-325-0	0318	
Address:	2855 SOUTHS	SIDE RI	VER ROAL)/SUITE A	/ FARMING	STON, N.M	l. 87401-79	47
Facility or Well Name:			# 102 CEL					
Location: Unit or Qtr	/Qtr Sec	0	Sec 2	T 24N	R 4W	_County	RIO ARRI	IBA
Land Type	JIC. TRIBAL							
Date Remediation Starte	ed: 11	/17/95		Date Con	npleted:		9/9/97	
Remediation Method:	Landfarmed		XXX	_Approx. c	ubic yards		740	
	Composted Other			-				
Depth to Groundwater:		(pts)	0		Final Clos	sure Samp	ling	
Distance to an Ephemera	al Stream:	(pts)	0	Sampling	Date:	9/9/97	_Time:	12:00PM
Distance to Nearest Lake or Watering Pond:	, Playa,	(pts)	0	Sample R	tesults:			
Wellhead Protection Area	a:	(pts)	0	Field Headsp	pace (ppm)	ND	<u>-</u>	
Distance To Surface Wat	ter:	(pts)	0	TPH	(ppm)	4400	_Method	M8015
RANKING SCORE (TOT	AL POINTS)	-	0	Other	BTEX \S	W846 , 802	0A (ND)
I HEREBY CERTIFY THA KNOWLEDGE AND BEL	AT THE INFORI IEF	MATIO	N ABOVE I	S TRUE A	ND COMPL	ETE TO TH	HE BEST O	FMY
DATE:	4/29/98		PRINTED I	NAME		JEFF CR	oss	
SIGNATURE Jef	Llion		TITLE .		PROJECT	MANAGE	R	
AFTER REVIEW OF THE ACCORDANCE TO THE	SOIL REMEDI JICARILLA AP/	ACHE 1	INFORMA	TION. ON CLOSURE	-SITE REM ORDINANO	EDIATION CE.	IS APPRO	VED IN
APPROVED: YES_	\times	NO_	 	(REASON)			
BIGNED:	-CMa-		DATE:	S -	1-98			

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>APACHE</u>	E CORPORATION	1	<u> </u>	_Telephor	ne	505-325-0	0318	
Address:	2855 SOUTHSI	IDE R	IVER ROAL	D/SUITE A	4 / FARMING	STON , N.M	l. 87401-79	47
Facility or Well Name:	APA	ACHE	# 102 CEL	LL#2				
Location: Unit or Q	Qtr/Qtr Sec	0	Sec 2	T 24N	R 4W	County	RIO ARRII	IBA
Land Type	JIC. TRIBAL							
Date Remediation Star	ted: 11/	/17/95		_Date Con	mpleted:		9/9/97	
Remediation Method:	Landfarmed		xxx	_Approx. (cubic yards		133	
	Composted							
	Other							
Depth to Groundwater:		(pts))0		Final Clo	sure Samp	oling	
Distance to an Epheme	eral Stream:	(pts)) 0	Samplinç	g Date:	9/9/97	_Time:	12:15PM
Distance to Nearest Lal or Watering Pond:	ke, Playa,	(pts)	0	Sample F				
Wellhead Protection Ar	rea:	(pts))0	_	space (ppm)	ND	-	
Distance To Surface W	/ater:	(pts))0			980	_	M8015
RANKING SCORE (TO	OTAL POINTS)		0	Othe	er <u>BTEX</u> \S	W846 , 802	<u>20A (ND</u>)
I HEREBY CERTIFY TI KNOWLEDGE AND BE		MATIC	ON ABOVE	IS TRUE /	AND COMPI	LETE TO TI	HE BEST O	FMY
DATE:	4/29/98		_PRINTED I	NAME		JEFF CR	.oss	
SIGNATURE	efflion		_TITLE		PROJECT	r Manage	<u>:R</u>	
AFTER REVIEW OF TH ACCORDANCE TO TH							I IS APPRO'	VED IN
APPROVED: YES	s_ <u>></u>	NO)	_(REASOI	N)			_
SIGNED:	-CMan		DATE:	<u> </u>	- 7-98			-

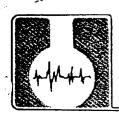
APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE			
* AMOUNT OF SOIL UNDERGOING REMEDIATION	N873	_Yds.	
CELL No1	SampDATE 9/9/97	TPH 4400	BTEX ND
DIMENSIONS(LxWxH) 100' X 200' X 12"			
CELL LOCATION (dir. from well head <u>EAST</u>			
* DATE BEGAN:			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benze	ne < 10 ppm) 9/9/97	7	·
CELL No. 2	SampDATE 9/9/97	7PH 980	BTEX ND
DIMENSIONS(LxWxH) 120' X 30' X 12"			
CELL LOCATION (dir. from well head WEST			
VEST	-		
* DATE BEGAN: <u>11/17/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzel	ne < 10 ppm)9/9/97	7	•
CELL No. 3	SampDATE	TPH	BTEX
CELL NO.			
DIMENSIONS(LxWxH)			
CELL LOCATION (dir. from well head			
* DATE BEGAN:			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzer	ne < 10 ppm)		
REMEDIATION RECORD: (Date, Treatment, Tilling)			
11/25/95 TREAT WITH 28-4-4 FERTILIZER, PLOW AND TILL			
5/5/97 TREAT SOIL WITH 46-0-0 FERTILIZER, WATER PLO 6/3/97 PLOW AND TILL SOIL.	W AND TILL SOIL.		
6/23/97 TILL SOIL.			
7/16/97 WATER , PLOW AND TILL SOIL.			
8/25/97 TILL SOIL.			
9/8/97 WATER , PLOW AND TILL SOIL.			

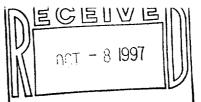
From excavation reports.

WELL NAME: SAMPLE DATE: DIMENSIONS:	APACHE # 102 CELL # 1 9/9/97 100' X 200' X 12"		0	= SAMPLE AREA
0		0		\bigcirc
0				
		0		
0				0
NOTES:	ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 POINT COMPOSITE SAMPLE.	ELL.		

				SA DIN
NOTES:	0	\bigcirc		WELL NAME: SAMPLE DATE: DIMENSIONS:
ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 POINT COMPOSITE SAMPLE.				APACHE # 102 CELL # 2 9/9/97 120' X 30' X 12"
VTO CELL.	0			
	0		0	= 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

Report Generated:

September 23, 1997 10:34 CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION

Sample ID: APACHE 102 CELL 1

WORKORDER # : 9709112

TO: 2855 SOUTHSIDE RIVER RD STE AWORK ID

AWORK ID : JICARILLA PIT CLOSURES

FARMINGTON, NM 87401-7947

CLIENT CODE : APA01

DATE RECEIVED : 09/12/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9709112-01A

Collected: 09/09/97 12:00:00

Matrix: SOIL

TEST / METHOD RESULT UNITS LIMIT DATE BATCH ID ANAL BTEX/SW846 8020A Benzene ND mg/kg 0.0050 100 09/14/97 X97262 Toluene ND mg/kg 0.0050 100 09/14/97 X97262 Ethylbenzene ND mg/kg 0.0050 100 09/14/97 X97262 P-&m-Xylene ND mg/kg 0.010 100 09/14/97 X97262 O-Xylene ND mg/kg 0.0050 100 09/14/97 X97262

Lab ID: 9709112-01B

Sample ID: APACHE 102 CELL 1

Collected: 09/09/97 12:00:00

Matrix: SOIL

						
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	4400	mg/Kg	25	25	09/18/97	SDRO53

Lab ID: 9709112-02A

Sample ID: APACHE 102 CELL 2

Collected: 09/09/97 12:15:00

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	09/14/97	X97262
	ND	mg/kg	0.0050	100	09/14/97	X97262
	ND	mg/kg	0.0050	100	09/14/97	X97262
	ND	mg/kg	0.010	100	09/14/97	X97262
	ND	mg/kg	0.0050	100	09/14/97	X97262



Page: 2

Lat ID: 9709112-02B
Sample ID: APACHE 102 CELL 2

Collected: 09/09/97 12:15:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	980	mg/Kg	25	25	09/18/97	SDRO53

William P. Biava
President

WORKORDER COMMENTS

DATE

: 09/23/97

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

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116 A state - A 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320 ALBUQUERQUE, NEW MEXICO 871: 4 MELQUIADES ALANIS Stored over 30 days (additional fee) Disposed of (additional fee) Analysts Required Stored (30 days max) Returned to customer After analysis, samples are to be 3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000 12 Spt. 6 Signature Сомрану Printed Reason 10:30 Ë Oate 000 Kar \times Scott PrATT こここと ↢ Jean AAK Chemical Project Manager / Contact <u>Jeff Cross</u> 14 Preservation IRC Telephone No. (505) 774-6643 Relinquished by: Temp. Signature Fax No. (505) 774-6624 Company. Printed Reason • Type / Size of Container 402 9/6.5 Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature) 🗸 402 dus 4 02 2/455 220 4 52 Jun しょみは Leb job no : __ Sample 12:00 2:1 1/8/07 12 cas 9 / 10 / 12 S.L 1/3/97 1205 8.2 Tage Signature Received by: Comments: Company. Printed Reason 18/2/ O.te City/State/ZipEarmington, NM 87401 611.2 102 call 1 Client Apache Corporation ; 9 Ë Sample Number / Location ` Address 304 N. Behrend Contract / Purchase Order / Quote 101 1. P. Cale A Pache > Method of Shipment: OSA pecial instructions; せっ definguished by: Shipment No. Company_ Reason __ Signature

LABORATORY

4.5