Aztec, NMD 274101 7 1998

State of New Mexico

State of New Mexico

Rio Brazos Rd Energy, Minerals and Natural Resources Department State of New Mexico

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

### **OIL CONSERVATION DIVISION**

2040 S. PACHECO Santa Fe, New Mexico 87505

Approved PIT REMEDIATION AND CLOSURE REPORT

<u> </u>						JUL 0 15:	30
Operator: Apache Corporation			Telephone	:	50(3)254		DIV.
Address: 2855 Southside River Road, S	uite A, Farm	ington, NI	# 87401			DIST. 3	
Facility or Well Name:	Apache # 1	146 Pit #	1				
Location: Unit or Qtr/Qtr Sec	G	Sec 24	T 24 N	R 4W	County	Rio Arriba	
Pit Type: Separator:	Dehydrator		_Other	Tank Drai	n\Blow Pit	<u>.                                    </u>	
Land Type: Jicarilla Tribal							
Beginning Pit Dimensions:	Length	24	Width	30'	Dept	h <u>5.5'</u>	
Pit Location: Ending Pit Dimensions:	Length	26	_ Width	30'	Dept	h10'	
(Attach diagram) Reference:	Wellhead	XXX	_Other				
Footage from reference:		95	•	_			
Direction from reference:		110	_Degrees	XX	East	North	
					_West	of South	x
Depth To Groundwater: (vertical distance from contaminants to seasonal	<u>-</u>		Less than 50 feet to 9 Greater th			(20 points) (10 points) ( 0 points)	
high water elevation of groundwater)						•	
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)					Yes No	(20 points) ( 0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,				200 feet o 1000 feet an 1000 fee	et	(20 points) (10 points) ( 0 points)	0
irrigation canals and ditches)			RANKING	SCORE (T	OTAL PO	INTS)	0

Date Remediation Sta	rted:	10/16/95		_Date Comp	leted:	11/29/95
Remediation Method: (Check all appropriate		Excavation	XXX	_Approx. cul	oic yards _	142
sections)	Landfarmed		XX	_Insitu Biore	mediation _	
		Other				
Remediation Location (i.e. landfarmed onsite, name and location of	:	Onsite	XX	_Offsite		
offsite facility)						<del></del>
General Description o	f Remedial Action:		Excavate	pit to 10', to	ok PID read	lings.
Spread soil	on location for rem	ediation. 1	Took soil s	amples.	Pit back fil	led w/ fill dirt
		_				
				<u> </u>		
•						
Groundwater Encoun	tered:	No	XX	Yes		Depth
Final Pit:	Sample location		5 point com	posite taken fr	om pit sidewa	lls and pit bottom center
Closure Sampling: (in multiple samples,						
attach sample results and diagram of sample	Sample depth	10'	8 to 10" ii	nto pit sidev	valls 10" int	o pit bottom
locations and depths)	Sample Date		11/29/9	5	Sample Tim	e <u>1:48 P.M.</u>
	Sample results					
	Benzene		(ppm)	ND		
	Total BTEX		(ppm)	ND		
	Field Headspace		(ppm)	20.38		
	TPH			2600		
Groundwater Sample	:	Yes	,	_ No	XX(	(If yes attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABOV	/E IS TRU	E AND COM	PLETE TO	THE BEST OF MY
DATE	June 8, 1998		PRINTED	NAME	Jeff Cross	
SIGNATURE	flun		AND TITL	.E	Project Ma	nager

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, St	uite A, Farn	ningto	n, NN	87401				
Facility or	Well Name:	Apache #	146	Pit #2	2				
Location:	Unit or Qtr/Qtr Sec	G	Sec	24	T 24 N	R 4W	_County	Rio Arriba	<u> </u>
Pit Type:	Separator:	_Dehydrato	r		Other	Tank Dra	in\Blow Pit		
Land Type	e: Jicarilla Tribal								
	Beginning Pit Dimensions:	Length		21'	Width	24	<u>l'</u> Depth	3'	
Pit Location: (Attach dia	•	Length		21'	Width	24	Depth	6'	
(Allacii ula	Reference:	Wellhead	X	xx	Other				
	Footage from reference:			95'		-			
	Direction from reference:		1	80	Degrees		_East	North	
							of _West	South	XX
Depth To	Groundwater:				Less than	50 feet		(20 points)	
(vertical dista					50 feet to 9	99 feet		(10 points)	
,	s to seasonal				Greater that		t	( 0 points)	0
high water el								` ' ' -	
groundwater									
Wellhead	Protection Area:						Yes	(20 points)	
(Less than	a 200 feet from a private						No	( 0 points)	0
domestic v	water source, or; less than								
1000 feet	from all other water sources)								
Distance '	To Surface Water:				Less than	200 feet		(20 points)	
,	al distance to perennial				200 feet to			(10 points)	
	ids, rivers, streams, creeks,				Greater th	an 100 <mark>0 f</mark> e	et	( 0 points)	0
irrigation o	canals and ditches)				RANKING	SCORE (	TOTAL POIN	NTS)	0

Date Remediation Sta	rted:	10/16/95		Date Comp	leted:	11/29/95
Remediation Method: (Check all appropriate		Excavation	XXX	Approx. cub	oic yards	56
sections)	Landfarmed		XX	Insitu Biore	mediation _	
		Other				
Remediation Location	:	Onsite	XX	Offsite		
(i.e. landfarmed onsite, name and location of offsite facility)						
General Description o	f Remedial Action:		Excavate	pit to 6', too	k PID read	ings.
Spread soil	on location for rem	ediation. T	ook soil s	amples.	Pit back fi	lled w/ fill dirt
Groundwater Encoun	tered:	No	XX	Yes		Depth
Final Pit: Closure Sampling: (in multiple samples,	Sample location		5 point com	oosite taken fr	om pit <b>sidew</b> a	alls and pit bottom center
attach sample results	0	<u> </u>	0.4~ 40!! :	4	velle 40" in	to mit hottom
and diagram of sample locations and depths)	Sample depth	6'		<u> </u>		to pit bottom
	Sample Date Sample results		11/29/95	<del> </del>	Sample Tin	ne <u>1:32 P.M.</u>
	Benzene		(ppm)	ND		
	Total BTEX		(ppm)	ND		
	Field Headspace		(ppm)	14.48		
	TPH			37		
Groundwater Sample:	:	Yes		_ No	XX	(If yes attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO\	/E IS TRUE	AND COM	PLETE TO	THE BEST OF MY
DATE	June 8, 1998		PRINTED	NAME	Jeff Cross	5
SIGNATURE	eff cws		AND TITL	E	Project Ma	anager

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:	APA	CHE CORPORA	TION		_Telephone	·	505-32	5-0318				
Address:	2855	SOUTHSIDE R	IVER ROAI	D / SUITE /	A / FARMIN	GTO	N N.M.	87401-	794	7		
Facility or We	ell Na	me:	APACHE:	# 146 PIT #	1							
Location:	Unit	or Qtr/Qtr Sec	G	SEC 24	T 24N	R 4	w	County	,	RIO ARRIB	Α	
Pit Type:	Sepa	arator:	Dehydrato	r	_Other	TAN	NK DRA	AIN\BLC	)WI	PIT		
Land Type:		JIC. TRIBA	AL									
Pit Location:		Pit Dimensions:	Length	26'	Width		30'	De	epth	10'		
(Attach diagra	am)	Reference:	Weilhead	XXX	_Other							:
		Footage from ret	erence:	95'		_						
		Direction from re	ference:	110	_Degrees		хх	East	-6	North _		
								West	of	South _		(
Don'th To Co		lean de la company			Less than	EO fo	ot .			(20 points)		
Depth To Gr (vertical distance		water:			50 feet to					(10 points)		
`		al			Greater th					( 0 points)		)
contaminants to seasonal high water elevation of groundwater)					Greater than 100 reet (Openito)				·			
Distance to a	an Ep	hemeral Stream	:		Less than	100 f	feet			(10 points)		
	nt dry	wash greater tha			· · ·			( 0 points) _		)		
		est Lake, Playa, (	or Watering	g Pond:	• •			(10 points)				
(Downgradier	nt lake	es, playas and watering ponds)		_	Greater th	an 10	00 feet			( 0 points)	(	)
Wellhead Pro	otecti	ion Area:					Yes			(20 points)_		
1 '		t from a private					No			( 0 points) _		)
	domestic water source, or less than 1000 feet from all other water sources)											
Distance To	Surfa	ace Water:			Less than	100 f	feet			(20 points)		
		e to perennial			100 feet to					(10 points)		
lakes, ponds,	river	s, streams, creek	S,		Greater th	an 10	000 fee	t		( 0 points)	(	)
irrigation can	als an	nd ditches)			RANKING	scc	ORE (T	OTAL P	MO	ITS) _	(	0

<u> </u>							
Date Remediation Start	ted:10/16/95	5	_Date Comp	oleted:		11/29/95	
Remediation Method:	Excavation	XXX	_Approx. cu	bic yards		142	
(Check all appropriate sections)	Landfarmed	XX	_ _Insitu Biore	emediation _			
	Other						
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite	e <u>XX</u>	_Offsite				
General Description of	Remedial Action: Ex	cavate pit	to 10',took	PID reading	s. spread	soil on	
location f	for remidiation. Took	soil sampl	es. Ba	ckfilled	P.+ w/1	FILL DIRT	
Groundwater Encounte	ered: No	o <u>xxx</u>	_ Yes		Depth		-
Final Pit: Closure Sampling: (in multiple samples,	Sample location	5 point co	mposite take	en from pit s	idewalls ar	nd pit botton	n center.
attach sample results and diagram of sample	Sample depth (0)	8" to 10" i	into pit side v	walls ,10" int	o pit bottor	m	
locations and depths) Sample D Sample re	ate	11/29/95		_Sample Tin		1:48PM	
Soil:	Benzene	(ppm)	ND	_Water:	Benzene	(ppb)	NA
	Total BTEX	(ppm)	ND	_	Toluene	(ppb)	NA
	Field Headspace	(ppm)	20.38	_ Ethy	ylbenzene	(ppb)	NA
	ТРН	(ppm)	2600	_ Tota	al Xylenes	(ppb)	NA
Groundwater Sample:		es	<del></del>	XXX			
I HEREBY CERTIFY THE KNOWLEDGE AND BE		ON ABOVE	E IS TRUE A	AND COMPL	ETE TO T	HE BEST (	OF MY
DATE	5/27/98	_PRINTED	NAME		JEFF CR	oss	<del></del>
SIGNATURE	ff Cos	_AND TITL				MANAGE	
AFTER REVIEW OF THE JICARILLA APAC				SURE IS AP	PROVED	IN ACCORI	DANCE TO
APPROVED: YES	s_X NO	0	_(REASON	)	<u> </u>		
SIGNED:	-C Man	$\mathscr{U}_{\underline{}}$	DATE:	6-	2 - 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

## PIT REMEDIATION AND CLOSURE REPORT

Operator:	APA	CHE CORPORA	TION		Telephone	505-3	325-0318		
Address:	2855	SOUTHSIDE R	IVER ROAL	D / SUITE A	/ FARMIN	GTON N.I	M. 87401-794	47	
Facility or We	ell Na	me:	APACHE:	# 146 PIT #	2				
Location:	Unit	or Qtr/Qtr Sec	G	SEC 24	T 24N	R 4W	County	RIO ARRIB	A
Pit Type:	Sepa	arator:	Dehydrato	r	Other	LINE DF	RIP		
Land Type:		JIC. TRIB	<del></del>		<u>-</u>				
Pit Location: (Attach diagra	am)	Pit Dimensions:	Length	21'	Width	24'	Depth	6'	
(Allacii diagra	a111)	Reference:	Wellhead	XXX	Other				
		Footage from re	ference:	95'		-			
		Direction from re	eference:	180	Degrees		East	North _	
							of West	South _	XX
Depth To Gr	ound	lwater:			Less than	50 feet		(20 points)	_
(vertical distance					50 feet to	99 feet		(10 points)	
contaminants to s	easona	al			Greater that	an 100 fe	et	( 0 points) _	0
high water elevation groundwater)	on of								
Distance to a	an Ep	hemeral Strean	1:		Less than	100 feet		(10 points)	
(Downgradier	nt dry	wash greater tha			Greater than 100 feet ( 0 points			( 0 points)	0
ten feet in wid	JUI								
		est Lake, Playa,			Less than			(10 points)	
		es, playas and e watering ponds)			Greater the	an 100 tee	et	( 0 points) _	0
Wellhead Pro	otecti	ion Area:				Υe	es	(20 points)	
(Less than 20	0 fee	t from a private				N	lo	( 0 points)	0
		urce, or less than other water sourc							
Distance To	Surfa	ace Water:			Less than	100 feet		(20 points)	
(Horizontal di	istanc	e to perennial			100 feet to			(10 points)	
		s, streams, creek	KS,		Greater th	an 1000 fe	eet	( 0 points) _	0
irrigation cana	สเร สก	iu unones)			RANKING	SCORE	TOTAL POII	NTS) _	0

Date Remedi	iation Star	ted: 10/10	3/95	_Date Comp	leted:	11/29/9	5		
Remediation		Excavati	on XXX	_Approx. cul	bic yards	56			
(Check all ap sections)	propriate	Landfam	ned XX	_Insitu Biore	mediation				
		Other							
Remediation (i.e. landfarm name and loc	ed onsite, cation of	: Or	site XX	_Offsite					
offsite facility	•	Pemodial Action	Evenuate nit	ta 6' taak Di	D roadings er	aread coil on			
General Des	-	Remedial Action:	•						
	location	or remidiation. To	ok son sampi	es. DACK	filled Pitt	A) HII WET			
Groundwate	r Encount	ered:	No XXX	_ Yes		Depth	_		
Final Pit: Closure Sam (in multiple sa		Sample location	5 point co	mposite take	n from pit sidev	walls and pit botto	om center.		
attach sample	e results of sample	Sample depth 4	8" to 10" i	nto pit side w	alls ,10" into pi	t bottom.			
locations and	Sample Da Sample re		11/29/95	5	Sample Ti <u>me</u>	1:32PM			
	Soil:	Benzene	(ppm)	ND	Water: Ben	zene (ppb)	NA		
		Total BTEX	(ppm)	ND	Tolu	uene (ppb)	NA		
•		Field Headspace	(ppm)	14.48	Ethylber	nzene (ppb)	NA		
		ТРН	(ppm)	37	Total Xy	vlenes (ppb)	NA		
Groundwate	r Sample:		Yes	_ No	XXX (If y	es attach sample	e results)		
I HEREBY CI KNOWLEDG		IAT THE INFORMA	ATION ABOVE	IS TRUE A	ND COMPLETE	TO THE BEST	OF MY		
DATE		5/27/98	PRINTED	NAME	JEF	F CROSS			
SIGNATURE	SIGNATURE AND TITLE PROJECT MANAGER								
		IE PIT CLOSURE I HE TRIBE PIT CLO		•	URE IS APPRO	OVED IN ACCOR	RDANCE TO		
APPROVED:	YES		NO	_(REASON)					
			$\wedge \cap$	<u></u>					
SIGNED:	Low	C. Mam		_DATE:	6-2-9	78			

.

## APACHE CORPORATION FARMINGTON DISTRICT

SW CORNER

SE CORNER

PIT EXCAVATION AND CLOSURE REPORT JICARILLA APACHE TRIBAL EPO REVIEW AND APPROVAL LOCATION: APACHE 146 **EPO REPRESENTATIV** K.C.M. ΞE DATE OF REVIEW: 11/29/95 PIT COUNT: 2 **EXCAVATION** DIMENSIONS FINISH **START** CU.YDS. w, D' D' L' PIT 1 30' 24' PIT 1 26' 10' 142.0 5.5 30' 21' 6' 56.0 PIT 2 24' 3' PIT 2 24 21' PIT 3 PIT 3 PIT 3@ PIT 1@ 08' PIT 1@ 10' PIT 2@ 06' DATE: 10/16/95 PIT 2@ 06' PIT 3@ DATE: 11/29/95 CENTER CENTER 29.7 10.1 1483.0 64.3 701.0 27.8 P. NW CORNER 13.9 17.3 P. NW CORNER 19.6 I. NE CORNER **NE CORNER** 7.9 56.4 59.8 D. SW CORNER 988.0 50.9 D. SW CORNER 42.8 12.8 12.6 SE CORNER 314.0 49.3 SE CORNER 7.6 NOTES: 10/16/95 PIT 1 - Excavate to 10', staining w/strong odor to 8' PIT 2 - Excavate to 6', no staining slight odor to 4'. SOIL SAMPLING PER LAB: **ASSAIGAI** DATE: 10/16/95 PIT 1@ 10' PIT 2@ 06' PIT 3@ ANALYSIS RESULTS WITNESS DATE **CENTER** not taken PIT TPH **BTEX** 64.3 P. NW CORNER 27.8 NO. 10/16/95 NE CORNER 1200.0 0.17 IF&S 59.8 1

RE-SAMPLE OR CELL(S) SAMPLE DATE: 11/29/95 PIT 1@ 10' PIT 2@ 06' PIT 3@ ANALYSIS RESULTS PER LAB: CENTER WITNESS DATE 29.7 10.1 PIT TPH **BTEX** P. NW CORNER 13.9 17.3 NO. NE CORNER 7.9 2600.0 **JDT** 11/29/95 I. 19.6 1 ND SW CORNER 42.8 12.8 2 ND JDT 11/29/95 D. 37.0 SE CORNER 7.6 12.6 RE-SAMPLE OR CELL(S) SAMPLE

2

ND

50.9

49.3

IF&S

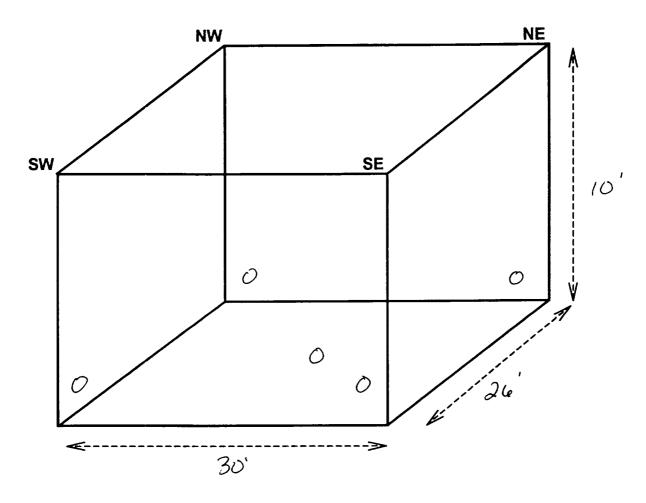
ND

10/16/95

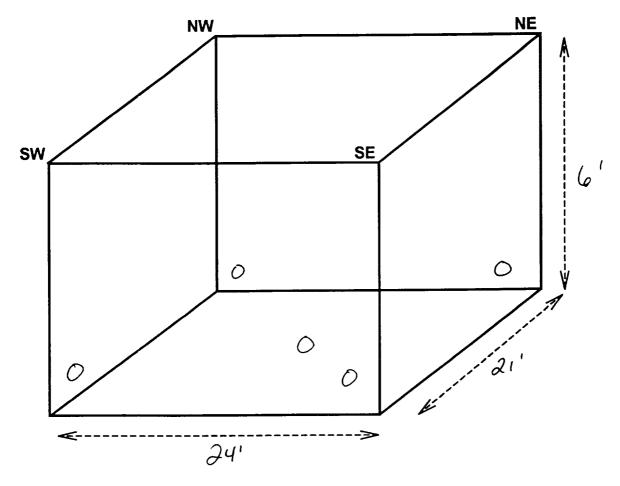
			N.D.	O/MIT EL O	C CLLL(5	J STAVILLE			
DAT	E:	PIT 1@	PIT 2@	PIT 3@	ANAL	YSIS RESU	ILTS	PER LAB:	
	CENTER				PIT	TPH	BTEX	WITNESS	DATE
P.	NW CORNER				NO.				
I.	NE CORNER								
D.	SW CORNER								
	SE CORNER								

11-29-95 4CM

		PIC	PID READINGS		Site Number: MW 146
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)	Notes:
10/16/95	_	10,	Center	1483	Began excavation, very sloppy during the first 2 feet. Following with a black to gray tight sand. Continued to excavated to 10 feet
10/16/95	-	10,	Bottom, N.W. Corner	701	with little change. Fluffed and rolled the bottom 2 feet, took PID readings and sampled.
10/16/95	-	10,	Bottom, N.E. Corner	56.4	
10/16/95	-	10,	Bottom, S.W. Corner	988	
10/16/95	τ-	10,	Bottom, S.E. Corner	314	
10/16/95	2	.9	Center	64.3	Excavated 3 feet, took PID readings, pit shows light brown sand
10/16/95	2	,9	Bottom, N.W. Corner	27.8	With light odol.
10/16/95	2	, O	Bottom, N.E. Corner	59.8	
10/16/95	2	, O	Bottom, S.W. Corner	50.9	
10/16/95	2	6	Bottom, S.E. Corner	49.3	
20/05/11	`	, <b>@</b> /	Centra	29,7	
			λ <sup>t</sup> ω	13,9	
			*4E	7,9	
			₩£	8.Ch	
			SE	7.10	
11/24/15	Ч	,9	Centr	10,1	
	_		wh	17,3	
			NE	19.6	
			200	12.8	
			3£	اع. الا	



			$\bigcirc$	= SAMPLE AREA
WELL NAM	۸E .	APACHE # 146 PIT # 1		
SAMPLE D	ATE	11/29/95		
NOTES	5 POIN	COMPOSITE SAMPLE TAKEN 8" TO 10" IN	TO PIT	
_	SIDEW	ALL AND PIT BOTTOM CENTER.		
•				
-				
•				
•				
•		A		
•				
•			<del></del>	



			$\bigcirc$	= SAMPLE AREA
WELL NAM	ΛE .	APACHE # 146 PIT # 2		
SAMPLE D	ATE	11/29/95		
NOTES	5 POIN	COMPOSITE SAMPLE TAKEN 8" TO 10" IN	го ріт	
	SIDEW	ALL AND PIT BOTTOM CENTER.		
•				
•	-			
•				
•			·-	
•	<u></u>			

\* ab ID: 9512029-09A mple ID: AP #112-H

Collected: 11/29/95 12:50:00 Matrix: SOIL

mple ID: AP #112-H		Matrix: SC	)IL			
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
BTEX/SW846 8020A O-Xylene	0.74	mg/Kg	0.0010	500	12/05/95	SBTXME092
Lab ID: 9512029-09B Sample ID: AP #112-H		Collected: Matrix: SO		5 12	:50:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	4400 12/05/95	mg/Kg N/A	5.0	250	12/07/95	SLFTD053
Lab ID: 9512029-10A Sample ID: AP #105		Collected: Matrix: So		95 13	:13:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
EX/SW846 8020A Enzene Foluene Ethylbenzene P-&m-Xylene O-Xylene	ND ND 0.63 1.3 1.4	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010 0.0010	500 500 500 500 500	12/05/95 12/05/95 12/05/95 12/05/95 12/05/95	SBTXME092 SBTXME092 SBTXME092 SBTXME092 SBTXME092
Lab ID: 9512029-10B Sample ID: AP #105		Collected: Matrix: So		95 13	:13:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_ <b>F</b>	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	4600 12/05/95	mg/Kg N/A	5.0	250	12/07/95	SLFTD053
Lab ID: 9512029-11A Sample ID	-2	Collected: Matrix: So		<b>357</b> 13	:32:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene hylbenzene &m-Xylene O-Xylene		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010 0.0010	500 500 500 500 500	12/05/95 12/05/95 12/05/95 12/05/95 12/05/95	SBTXME092 SBTXME092 SBTXME092 SBTXME092 SBTXME092

SLFTD053

Collected: 13:32:00 **JID:** 9512029-11B Matrix: SOIL Sample ID: 46 UNITS LIMIT D F DATE BATCH ID RESULT TEST / METHOD ANAL HCs DIESEL/CAL DHS 8015M 12/07/95 SLFTD053 mg/Kg 5.0 5.0 Diesel HCs DSL XT/CAL DHS 8015M 12/05/95 N/A Collected: 1729795113:48:00 Lab ID: 9512029-12A Matrix: SOIL Sample ID P #146-H BATCH ID UNITS LIMIT D F DATE TEST / METHOD RESULT ANAL BTEX/SW846 8020A 0.0010 500 12/06/95 SBTXME093 mg/Kg Benzene 12/06/95 0.0010 500 SBTXME093 Toluene mg/Kg 12/06/95 SBTXME093 Ethylbenzene mg/Kg 0.0010 500 12/06/95 SBTXME093 0.0010 500 mg/Kg P-&m-Xylene 12/06/95 SBTXME093 O-Xylene mg/Kg 0.0010 500 Collected: 13/29/95 13:48:00 **Lab ID:** 9512029-12B Sample ID: AB #14.6-HP+#1 Matrix: SOIL \_\_ST / METHOD RESULT UNITS LIMIT D F DATE BATCH ID ANAL HCs DIESEL/CAL DHS 8015M 5.0 250 12/07/95 SLFTD053 2600 mg/Kg Diesel HCs DSL XT/CAL DHS 8015M 12/05/95 Collected: 11/29/95 14:18:00 Lab ID: 9512029-13A Matrix: SOIL Sample ID: AP #114 RESULT UNITS LIMIT D F DATE BATCH ID TEST / METHOD ANAL BTEX/SW846 8020A 0.0010 500 12/05/95 SBTXME092 ND mg/Kg Benzene SBTXME092 0.0010 500 12/05/95 ND mg/Kg Toluene mg/Kg SBTXME092 Ethylbenzene 0.0010 500 12/05/95 0.81 SBTXME092 500 12/05/95 mg/Kg 0.0010 P-&m-Xylene 3.7 SBTXME092 2.3 mg/Kg 0.0010 500 12/05/95 O-Xylene Collected: 11/29/95 14:18:00 Lab ID: 9512029-13B Matrix: SOIL Sample ID: AP #114 DATE BATCH ID UNITS LIMIT D F TEST / METHOD RESULT ANAL HCS DIESEL/CAL DHS 8015M

mg/Kg

N/Ă

4200

12/05/95

HCs DSL XT/CAL DHS 8015M

5.0

500

12/07/95

. } SEFARATOR WELL HEAD DictFARM APACHE NUMBER 146 Lease # JAT 129 SECTION 24. TOWNSHIP 24N RANGE 4W 100 x40' X13" 3 RIO ARRIBA COUNTY, NM S S Revised 6/1/97 SW/4 NE/Y (G) APACHE 27 PITGS FRAME 割 ANCHE UNE DRIF 400 BBL 400 BBL OIL H20 î. Prr 110°ESE #1 95'FWH RECLABED

## 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>APACH</u>	E CORPORATION	٧		Telephone	e	505-325-0	318	· · · · · · · · · · · · · · · · · · ·
Address:	2855 SOUTHS	SIDE RI	VER ROAD	/SUITE A	/ FARMING	TON , N.M	. <b>87401-7</b> 9	47
Facility or Well Name:	:AP.	ACHE_	# 146					
Location: Unit or 0	Qtr/Qtr Sec	G	Sec 24	T 24N	R 4W	_County	RIO ARR	IBA
Land Type	JIC. TRIBAL						_	
Date Remediation Sta	rted: 10	)/16/95		Date Com	noleted:		5/14/98	
Remediation Method:		, 10,00		-	ubic yards			
Remediation Method.	Composted Other				ubic yaius		130	
Depth to Groundwater	<del>:</del>	(pts)	0		Final Clo	sure Samp	ling	
Distance to an Ephem	eral Stream:	(pts)	0	Sampling	Date:	5/14/98	_Time:	3:00PM
Distance to Nearest Lor Watering Pond:	ake, Playa,	(pts)	0	Sample F		ND		
Wellhead Protection A	\rea:	(pts)	0		pace (ppm)		— Mathad	M8015
Distance To Surface \	Nater:	(pts)	0		(ppm)		_	
RANKING SCORE (T	OTAL POINTS)		0	Otne	er <u>BTEX\S</u>	00040 , 002	20A ( NL	<u> </u>
I HEREBY CERTIFY KNOWLEDGE AND E		RMATIC	ON ABOVE	IS TRUE A	AND COMP	LETE TO T	HE BEST (	OF MY
DATE:	5/27/98		PRINTED	NAME		JEFF CF	ROSS	
SIGNATURE	ff Con		TITLE		PROJEC	T MANAGE	ER	
AFTER REVIEW OF ACCORDANCE TO T							N IS APPRO	OVED IN
APPROVED: Y	ES_X	NC		_(REASOI	N)			_
SIGNED:	E ( Man	M	DATE:	6-2	2-98			<b>-</b>

## APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	APACHE # 146		-	
* AMOUNT OF SOIL UNDE	RGOING REMEDIATION	198	Yds.	
CELL No. 1	-	SampDATE <b>5/14/98</b>	1300	BTEX ND
DIMENSIONS(LxWxH)	100' X 40' X 18"			
CELL LOCATION (dir. from well	head SOUTH			
* DATE BEGAN: 10/16/95	5			
DATE TERMINATED (TPH <5,0	00 ppm/BTEX< 50 ppm/Benzene < 10 ppm)	5/14/98	3	•
CELL No. 2	_	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH)				
CELL LOCATION (dir. from well	head			
* DATE BEGAN:				
DATE TERMINATED (TPH <5,0	00 ppm/BTEX< 50 ppm/Benzene < 10 ppm)			<del>-</del>
		SampDATE	TPH	BTEX
CELL No. 3	_			
DIMENSIONS(LxWxH)				
CELL LOCATION (dir. from well	head			
* DATE BEGAN:				
DATE TERMINATED (TPH <5,0	000 ppm/BTEX< 50 ppm/Benzene < 10 ppm)			<b>-</b>
REMEDIATION RECORD: (Date	e, Treatment, Tilling)			
11/3/95 TREAT SOIL WITH 28-	4-4 FERTILIZER, PLOW AND TILL SOIL.	SOIL		
6/17/97 TREAT SOIL WITH 46- 7/25/98 WATER , PLOW AND T	0-0 FERTILIZER,WATER , PLOW AND TILI FILL SOIL.			
8/13/98 TREAT SOIL WITH 29	LBS PHOSPHORUS,15LBS LIME, WATER	, PLOW AND TIL	L SOIL.	
5/5/98 PLOWED SOIL.				
5/11/98 TILL SOIL.				

From excavation reports.

= SAMPLE AREA  $\bigcirc$  $\bigcirc$ 0 ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 10 point composite somple 100' x40' x 18" ()SAMPLE DATE: DIMENSIONS: WELL NAME: *(*) 0 NOTES:

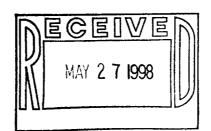


## ASSAIGAI ANALYTICAL LABORATORIES, INC.

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



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

Assaigai Analytical Laboratories, Inc.

## Certificate of Analysis

Client: APACHE CORPORATION

Project: 9805130 JICARILLA PIT CLOSURE

William P. Biava: President of Assaigai Analytikal Laborationes, Inc

Client Sample ID	APACH	E #14	6 CELL		Sample Matrix	SOIL	-		Sample Collected	05/14/98 15:00:00
Fraction	QC Group	CAS#		Result	. !	<u>Units</u>	Dilution Factor	Detection <u>Limit</u>	Sequence	Run <u>Date</u>
	-		SW846-8020 Volatiles							
9805130-01A	X98267	71-43-2	Benzene	ND	-	mg / Kg	50	0.005	 XG.1998.464-9	05/14/98
	X98267	100-41-4	Ethylbenzene	ND		mg / Kg	50	0.005	 XG.1998.464-9	
	X98267	95-47-6	o-Xylene	ND		mg / Kg	50	0.005	 XG.1998.464-9	
	X98267	:	p/m Xylenes	ND		mg / Kg	50	0.01	 XG.1998.464-9	
	X98267	108-88-3	Toluene	ND		mg / Kg	50	0.005	 XG.1998.464-9	
			SW846-8015 Modified TPH							
9805130-01B	X98268		Diesel Range Organics	1300		mg / Kg	25	25	 XG.1998.465-21	05/15/98



Page 1 of 1

<sup>\*\*\*</sup> Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. \*\*\*

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Slient Apache Corporation

Chain of Custody Record

Project Manager/Contact Jeff Cross

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

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

address 2855 Southside River RD.	C RD, Ste. ATelephone No. (505) 774-6643	Analysis Required
l not	Fax No. (505) 774-6,624	
Orolect Name / Number	Samplers. (Signature)	Nemarks
	•	
Sontract / Purchase Order / Quote	78	
FRACTION Sample Number / Location	Date Type Size of Container of Temp. Chemical City	
40m/e#140 cell	5-14583:00 Soil 4 oz alass ILe 1 X	
	7	
	)	
Inquished by: //	CIV	15 may 9 Bernamy 12 th Chara
Jet Class	Signature Scott Drath Printed Scott Pratt	Printed 12 web Childress
ompany Apache Corp.	Company HAAC	11:30 Company AALL
nossa.	Reason	After analysis, samples are to be:
the second of the second of	Comments	Disposed of (additional t
Harmort No.		Stored (30 days max)
necial instructions:		Stored over 30 days (addı tee)
		Returned to customer
	VACTABORAL	