State of New Mexico 1000 **शृंद्र р**ख्युष्ट हुन्। & GA**STNEDE OT OR** als and Natural Resources Department Submit 1 copy to Appropriate District

Aztec, NM 87410

DEC 1 7 1398

OIL CONSERVATION DIVISION

2040 S. PACHECO Santa Fe, New Mexico 87505

and 1 copy to Santa Fe Office

Approved REMEDIATION AND CLOSURE REPORT

//_											
Operator:	Apache Cor	poration				_Telephone) :		505-325-0	(ON), D 318 F. 3	
Address:	2855 Souths	side River Road, S	uite A, Farm	ningto	on, Ni	M 87401		<u> </u>		* * * * * * *	State of the second second
Facility or	Well Name:		Apache #	112	Pit #	#1					
Location:	Unit or Qtr/C	tr Sec	<u> </u>	Sec	24	T 24 N	R	4W	County	Rio Arriba	
Pit Type:	Separator:		Dehydrato	r		_Other	Tar	ık Drai	n\Blow Pit		
Land Type	<u>:</u>	Jicarilla Tribal									
	Beginnir	ng Pit Dimensions:	Length		42	<u>'</u> Width)	42'	Depth	5.5'	'.'
Pit Location: (Attach dia		g Pit Dimensions:	Length		42	' Width		42'	Depth	10'	
(rittaori aid	Referer	nce:	Wellhead	X	(XX	_Other					
	Footage	e from reference:			145		_				
	Direction	on from reference:		3	344	Degrees			East	North	ХX
								XX	of _West	South	
Depth To	Groundwate	r:				Less than	50 fe	eet		(20 points)	
(vertical dista						50 feet to	99 fe	et		(10 points)	·
contaminants						Greater th	an 1	00 feet		(0 points)	0
high water el groundwater)											
Wellhead	Protection A	rea:							Yes	(20 points)	
	200 feet from								No	(0 points)	0
	water source, from all other	or; less than water sources)									
Distance '	To Surface V	Vater:				Less than	200	feet		(20 points)	
(Horizonta	ıl distance to _l	perennial				200 feet to				(10 points)	
	ids, rivers, str canals and dit	eams, creeks,				Greater th	an 1	000 fee	et	(0 points)	0
in igation o	and and all	oo,				RANKING	SC	ORE (T	OTAL POIN	ITS)	0

Date Remediation Sta	rted:	10/10/95		_ Date Comp	oleted:	11/29/95
Remediation Method: (Check all appropriate		Excavation	XXX	_Approx. cu	bic yards	294
sections)	Landfarmed		XX	_Insitu Biore	emediation	
		Other	-			
Remediation Location	ı:	Onsite	XX	_Offsite		
(i.e. landfarmed onsite, name and location of offsite facility)						
General Description o	f Remedial Action:		Excavate	pit to 10', to	ook PID readings	<u>. </u>
Spread soil	on location for rem	ediation.	Took soil :	samples.	Pit back filled w	/ fill dirt
Groundwater Encoun	tered:	No	X	X Yes		Depth
Final Pit:	Sample location		5 point con	nposite taken f	rom pit sidewalls and	d pit bottom center
Closure Sampling: (in multiple samples,						
attach sample results and diagram of sample	Sample depth	10'	8 to 10" i	nto pit side	walls 10" into pit	bottom
locations and depths)	Sample Date Sample results		11/29/9	5	Sample Time	12:38 P.M.
	Benzene		(ppm)	ND	-	
	Total BTEX		(ppm)	3.2	<u>.</u>	
	Field Headspace		(ppm)	18.14	<u>.</u>	
	ТРН			4400	<u>_</u>	
Groundwater Sample	:	Yes	s	No	XX (If yes	s attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO	VE IS TRU	IÈ AND CON	IPLETE TO THE I	BEST OF MY
DATE	June 8, 1998	<u> </u>	PRINTE	NAME	Jeff Cross	
SIGNATURE	efflion		_AND TIT	LE	Project Manage	r

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): :	505-32	25-0318	
Address:	2855 Southside River Road, S	uite A, Farm	ningto	n, NN	87401				
Facility or \	Well Name:	Apache #	112	Pit#	2				
Location:	Unit or Qtr/Qtr Sec	c	Sec	24	T 24 N	R 4W	County	Rio Arriba	
Pit Type:	Separator:	_Dehydrato	r	 .	Other	Drip Pi	<u> </u>		
Land Type	: Jicarilla Tribal								
	Beginning Pit Dimensions:	Length		15'	Width	1	15' De	epth 3'	
Pit Location: (Attach dia	Ending Pit Dimensions:	Length		15'	Width	1	<u>15'</u> Do	epth6'	
(Attach dia	Reference:	Wellhead	X	XX	Other				
	Footage from reference:			1500	,	_			
	Direction from reference:			10	Degrees	<u>xx</u>	East	North of	XX
							West	South	
Depth To	Groundwater:				Less than	50 feet		(20 points)	
(vertical dista					50 feet to	99 feet		(10 points)	
contaminants	s to seasonal				Greater th	an 100 fe	eet	(0 points) ₋	0
high water el- groundwater)									
Wellhead	Protection Area:						Yes	(20 points)	
domestic v	a 200 feet from a private water source, or; less than from all other water sources)						No	(0 points) ₋	0
	To Surface Water:				Less than			(20 points)	
	al distance to perennial				200 feet to Greater th			(10 points) (0 points)	0
	nds, rivers, streams, creeks, canals and ditches)								_
					RANKING	SCORE	(TOTAL F	POINTS)	0

Date Remediation Sta	rted:	10/10/95		_Date Comple	ted:	11/29/95
Remediation Method: (Check all appropriate		Excavation	XXX	_Approx. cubic	yards	27
sections)	Landfarmed		XX	_Insitu Biorem	ediation	
		Other		_		
Remediation Location):	Onsite	xx	_Offsite		
(i.e. landfarmed onsite, name and location of offsite facility)						
General Description o	of Remedial Action:		Excavate	pit to 6', took	PID readings.	·
Spread soil	on location for rem	ediation. 1	Took soil s	samples. Pi	it back filled w/	fill dirt
					, , ,	
	 -				<u> </u>	
Groundwater Encoun	tered:	No	x	<u>(</u> Yes_	D	epth
Final Pit:	Comple leastion		F I 4			
Closure Sampling: (in multiple samples,	Sample location		9 point con	iposite taken iron	i pit sidewalis aliu	pit bottom center
attach sample results and diagram of sample	Sample depth	6'	8 to 10" i	nto pit sidewa	lls 10" into pit	bottom
locations and depths)	Sample Date Sample results		11/29/9	5S	ample Time	12:38 P.M.
	Benzene		(ppm)	ND		
	Total BTEX		(ppm)	ND		
	Field Headspace		(ppm)	17.08		
	ТРН			260		
Groundwater Sample	:	Yes		_ No _	XX (If yes	attach sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO	VE IS TRU	E AND COMPI	ETE TO THE E	BEST OF MY
DATE	June 8, 1998		PRINTED	NAME J	eff Cross	
SIGNATURE	efflion		AND TITI	.E <u>Р</u>	roject Manager	<u> </u>

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

PIT REMEDIATION AND CLOSURE REPORT

Operator:	APA	CHE CORPORA	TION		_Telephone	5	505-32	25-0318		
Address:	2855	SOUTHSIDE R	IVER ROA	D / SUITE A	\ / FARMIN	GTON	<u>N.M</u>	. 87401-79	947	
Facility or We	ell Na	me:	APACHE	# 112 PIT #	1					
Location:	Unit	or Qtr/Qtr Sec	c	SEC 24	T 24N	R 4\	w	County	RIO ARRIB	A
Pit Type:	Sepa	arator:	Dehydrato	r	_Other	TAN	K DR	AIN\ BLO\	W PIT	
Land Type:		JIC. TRIBA	AL							
Pit Location: (Attach diagra	am)	Pit Dimensions:	Length Wellhead	XXX	_ Width _Other	4	42'	Dep	th <u>10'</u>	
		Footage from re		344	_Degrees				North _	XX
							X	_West 	South _	
Depth To Gr		lwater:			Less than				(20 points)	
(vertical distance		al.			50 feet to 9 Greater that				(10 points) _ (0 points)	
contaminants to s high water elevati groundwater)		aı			Greater III	ali IV	v ieel		(o points) _	
Distance to	an Er	ohemeral Stream	1:		Less than	100 fe	eet		(10 points)_	
1	nt dry	wash greater tha			Greater tha	an 10	0 feet		(0 points)	0
		est Lake, Playa, (-	Less than				(10 points)	
		es, playas and e watering ponds)			Greater the	an 10	0 feet		(0 points) _	0
 Wellhead Pr	otect	ion Area:					Yes		(20 points)	
		et from a private					No		(0 points)	
		urce, or less than other water source								
Distance To	Surfa	ace Water:			Less than	100 fe	eet		(20 points)	
		ce to perennial			100 feet to	1000) feet		(10 points)	
		s, streams, creek	S,		Greater th	an 10	00 fee	et	(0 points)	0
irrigation can	ais ar	na aitches)			RANKING	sco	RE (T	OTAL PC	NTS)	0

Date Remediation	on Start	ed: <u>10/1</u>	0/95		_Date Comp	oleted:		11/29/95	
Remediation Me	ethod:	Excava	tion _	XXX	_Approx. cu	bic yards		294	
(Check all appropections)	priate	Landfan	med	XX	- Insitu Biore	emediation			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Other	-						
Remediation Lo	veation:		-	XX					
(i.e. landfarmed on a control of the	onsite,	Ö	113110_						
General Descrip	otion of	Remedial Action	: Exc	avate pit	to 10',took l	PID readir	ıgs. spread	soil on	
		or remidiation. T					w/Fill C	_	
—- Groundwater E				xxx			•		
	Hooding	iicu.	110	AAA			- ⁻ '		
Final Pit: Closure Sampli (in multiple samp	ples,	Sample location	•	5 point co	mposite take	en from pit	sidewalls ar	nd pit bottom	ı center
attach sample re and diagram of s	sults sample	Sample depth /	D'	8" to 1 <u>0"</u> i	nto pit s <u>ide v</u>	valls ,10" i	nto pit botto	m <u></u>	
locations and de		•	•					12:38PM	
	ample res						<u> </u>		
So	oil:	Benzene		(ppm)	ND	Water:	Benzene	(ppb)	NA
		Total BTEX		(ppm)	3.2	•	Toluene	(ppb)	NA
		Field Headspace		(ppm)	18.14	_ Eti	hylbenzene	(ppb)	NA
		TPH		(ppm)	4400	_ To	tal Xylenes	(ppb)	NA
Groundwater S	ample:		Yes		No	xxx_	_(If yes atta	nch sample r	esults)
I HEREBY CER	TIFY TH	AT THE INFORM	IATIO	N ABOVE	IS TRUE A	ND COMP	LETE TO T	HE BEST (OF MY
KNOWLEDGE A	AND BEI	LIEF.							
DATE		5/26/98		PRINTED	NAME		JEFF CR	oss	
SIGNATURE	- 14	ff Cun		AND TITI	LE		PROJECT	MANAGE	₹
AFTER REVIEW	V OF TH	E PIT CLOSURE HE TRIBE PIT CL	INFC OSU	RMATIO	N, PIT CLOS NANCE.	SURE IS A	PPROVED	IN ACCORE	ANCE
APPROVED:	YES	<u>X</u>	NO		_(REASON)			
	,			1					
		CMa-		/ IU /	 -		_		

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

PIT REMEDIATION AND CLOSURE REPORT

Address: 2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON N.M. 87401-7947 Facility or Well Name: APACHE # 112 PIT # 2 Location: Unit or Otr/Otr Sec	Operator: AP	PACHE CORPORAT	ION		Telephone	505-32	5-0318		
Location: Unit or Qtr/Qtr Sec	Address: 28	55 SOUTHSIDE RI	VER ROAD	/ SUITE A	/ FARMING	GTON N.M.	87401-794	7	
Pit Type: Separator: Dehydrator Other DRIP PIT Land Type: JIC. TRIBAL Pit Location: (Attach diagram) Reference: Wellhead XXX Other Footage from reference: 1500 Direction from reference: 40 Degrees X East North Of West South Depth To Groundwater: (vertical distance from 50 feet to 99 feet (10 points) Contaminants to seasonal high water elevation of groundwater) Distance to an Ephemeral Stream: Less than 100 feet (0 points) Other (10 points) Contaminants distance from Greater than 100 feet (10 points) Other Other (10 points) Other Other (10 points) Other Other Other (10 points) Other O	Facility or Well N	Name:	APACHE#	112 PIT #	2				
Pit Location: Pit Dimensions: Length 15' Width 15' Depth 6' Reference: Wellhead XXX Other Footage from reference: 1500 Direction from reference: 40 Degrees X East North of West South Depth To Groundwater: Less than 50 feet (20 points) (vertical distance from contaminants to seasonal high water elevation of groundwater) Distance to an Ephemeral Stream: Less than 100 feet (10 points) (Downgradient dry wash greater than ten feet in width Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 points) (10 poi	Location: Un	nit or Qtr/Qtr Sec	C S	SEC 24	T 24N	R 4W	County	RIO ARRIBA	
Pit Location: Pit Dimensions: Length 15' Width 15' Depth 6' Reference: Wellhead XXX Other Footage from reference: 1500 Direction from reference: 40 Degrees X East North XX Of West South Depth To Groundwater: (20 points) (10 point	Pit Type: Se	eparator:	Dehydrator_	· -	Other	DRIP PIT			
Reference: Wellhead XXX Other Footage from reference: 1500 Direction from reference: 40 Degrees X East North of West South Depth To Groundwater: Less than 50 feet (20 points) Contaminants to seasonal Greater than 100 feet (10 points) Other (10 points) Contaminants to seasonal Greater than 100 feet (10 points) Contaminants dry wash greater than Greater than 100 feet (10 points) Other (10 points) Contaminants to seasonal Greater than 100 feet (10 points) Other (10 points) Contaminants dry wash greater than Greater than 100 feet (10 points) Other	Land Type:	JIC. TRIBA	.L						
Direction from reference: 40 Degrees X East North of West South Depth To Groundwater: Less than 50 feet (20 points) contaminants to seasonal high water elevation of groundwater) Distance to an Ephemeral Stream: Less than 100 feet (0 points) Companient dry wash greater than 100 feet (10 points) Companient dry wash greater than 100 feet (10 points) Companient dry wash greater than 100 feet (10 points) Companient dry wash greater than 100 feet (10 points) Companient dry wash greater than 100 feet (10 points) Companient lakes, playas and Companient lakes, playas)	_			15'	Depth	6'	
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater) Distance to an Ephemeral Stream: (Downgradient dry wash greater than 100 feet Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and Of West South Of West South Cappints Less than 50 feet (10 points) Greater than 100 feet (10 points) Of West South Of West South Of West South Of West South Of Cappints Of West South Of Cappints Of Cappints Of West South Of Cappints Of		Footage from ref	erence: _	1500		-			
Depth To Groundwater: (vertical distance from 50 feet to 99 feet (10 points) contaminants to seasonal high water elevation of groundwater) Distance to an Ephemeral Stream: (Downgradient dry wash greater than Greater than 100 feet (10 points) 0 contaminants to seasonal (10 points) contaminants to seasonal con		Direction from re	ference: _	40	Degrees	X	-		ХХ
(vertical distance from 50 feet to 99 feet (10 points)									
(vertical distance from 50 feet to 99 feet (10 points)	Denth To Grow	ndwater:			Less than	50 feet		(20 points)	
contaminants to seasonal high water elevation of groundwater) Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and Greater than 100 feet (10 points) (0 points) (10 points) (10 points) (10 points) (10 points) (10 points) (10 points)	l '								
(Downgradient dry wash greater than Greater than 100 feet (0 points) 0 ten feet in width Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 points) (Downgradient lakes, playas and Greater than 100 feet (0 points) 0	high water elevation o				Greater tha	an 100 feet		(0 points)	0
(Downgradient dry wash greater than Greater than 100 feet (0 points) 0 ten feet in width Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 points) (Downgradient lakes, playas and Greater than 100 feet (0 points) 0	Distance to an	Enhamoral Stream			Less than	100 feet		(10 points)	
(Downgradient lakes, playas and Greater than 100 feet (0 points)	(Downgradient d	lry wash greater that							
(Downgradient lakes, playas and Greater than 100 feet (0 points)	Distance to Nea	arest Lake Playa (or Watering	Pond:	Less than	100 feet		(10 points)	
	(Downgradient la	akes, playas and	_					· · · —	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources) Yes (20 points) 0 1000 feet from all other water sources)	(Less than 200 for domestic water s	eet from a private source, or less than	es)					· · · · —	0
Distance To Surface Water: Less than 100 feet (20 points)	Distance To Su	ırface Water:			Less than	100 feet		(20 points)	
(Horizontal distance to perennial 100 feet to 1000 feet (10 points)									
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points)	I,	-	S,		Greater th	an 1000 fee	et	(0 points)	0
irrigation canals and ditches) RANKING SCORE (TOTAL POINTS) 0	irrigation canals	and ditches)			RANKING	SCORE (T	OTAL POI	NTS)	0

					<u> </u>	_			
Date Remedi	ation Start	ted:	10/10/95		_Date Comp	oleted:		11/29/95	
Remediation			Excavation	XXX	_Approx. cu	bic yards		27	
(Check all app sections)	ргорпате	La	ndfarmed	XX	_Insitu Biore	emediation	·		
			Other						
Remediation (i.e. landfarmoname and loc offsite facility)	ed onsite, ation of		Onsite	XX	_Offsite				
General Desc	cription of	Remedial A	ction: Ex	cavate pit	to 6',took P	ID reading	gs. spread s	soil on	
,	location fo	or remidiati	on. Took	soil samp	les. P.+	BACK	Filled w	Fill Dir	
Groundwate	r Encounte	ered:	No	XXX	_ Yes		_ Depth		•
Final Pit: Closure Sam (in multiple sa		Sample loc	ation	5 point co	omposite take	en from pit	sidewalls a	nd pit botton	n center.
attach sample and diagram locations and	e results of sample depths)		pth <i>Le</i>		into pit side v				
	Sample Da			11/29/9	5	Sample T	ıme	12:38PM	
	Soil:	Benzene		(ppm)	ND	_Water:	Benzene	(ppb)	NA
		Total BTEX	((ppm)	ND	_	Toluene	(ppb)	NA
		Field Head	space	(ppm)	17.08	_ Et	hylbenzene	(ppb)	NA
		TPH		(ppm)	260	_ то	otal Xylenes	(ppb)	NA
Groundwate	r Sample:		Yes	·	_ No	XXX	_(If yes atta	ach sample	results)
I HEREBY C KNOWLEDG			FORMATION	ON ABOV	E IS TRUE A	ND COM	PLETE TO 1	THE BEST (OF MY
DATE		5/26/98		PRINTE	NAME		JEFF CR	oss	
SIGNATURE	7/0	Hlor,		_AND TIT				MANAGE!	
AFTER REVI						SURE IS A	APPROVED	IN ACCOR	DANCE TO
APPROVED:	YES	×	NO		_(REASON)			
	./	h ∽ - 1		16	DATE:	<i>f</i> -	00/		
SIGNED:	Kete	-C)//	(an		DATE:	6-2	78		

-

APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 112 PIT COUNT: 2

CENTER

P. NW CORNER

I. NE CORNER D. SW CORNER SE CORNER

JICARILLA APACHE TRIBAL EPO **REVIEW AND APPROVAL**

EPO REPRESENTATIV K.C.

DATE

WITNESS

DATE OF REVIEW:

11/29/95

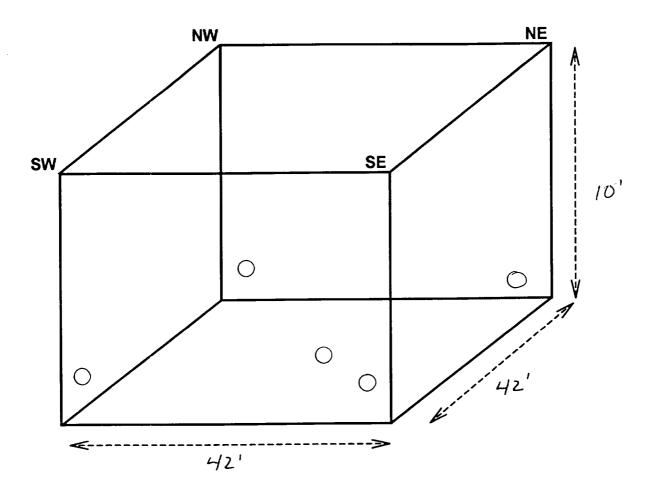
DIM				EXCAVAT	ION			J	,
	ENSIONS	STAF	Т				FINISH	<u> </u>	
	W'	Ľ,	D'			W'	L'	D,	CU.YDS.
PIT 1	42'	42'	5.5'	PIT 1		42'	42'	10'	294
PIT 2	15'	15'	3'	PIT 2		15'	15'	6'	27
PIT 3				PIT 3					
DAT	E: 10/10/95	PIT 1@ 09'	PIT 2@	PIT 3@	DA'	ΓE: 11/29/95	PIT 1@ 10'	PIT 2@ 06'	PIT 3@
	CENTER	266.0				CENTER	9.6	18.9	
P.	NW CORNER	208.0			P.	NW CORNER	17.3	3.3	
Ι.	NE CORNER	308.0			I.	NE CORNER	21.3	14.3	
D.	SW CORNER	512.0			D.	SW CORNER	14.6	0.0	
	SE CORNER	838.0				SE CORNER	27.9	48.9	
TO	ES:								
				SOIL SAMI	PLING				
DAT	E: 10/10/95	PIT 1@ 09°	PIT 2@	SOIL SAMI		ALYSIS RESU	LTS	PER LAB:	ASSAIGAI
DAT	E: 10/10/95 CENTER	PIT 1@ 09' 266.0	PIT 2@				LTS BTEX	PER LAB:	ASSAIGAI DATE
DAT P.	,		PIT 2@		AN	ALYSIS RESU	T		
	CENTER	266.0	PIT 2@		AN PIT	ALYSIS RESU	BTEX		
Р.	CENTER NW CORNER	266.0 208.0 308.0	PIT 2@		AN PIT NO	ALYSIS RESU TPH	BTEX	WITNESS	DATE
P. I.	CENTER NW CORNER NE CORNER	266.0 208.0 308.0 512.0	PIT 2@		AN PIT NO	ALYSIS RESU TPH	BTEX	WITNESS	DATE
P. I.	CENTER NW CORNER NE CORNER SW CORNER	266.0 208.0 308.0	PIT 2@	PIT 3@	AN PIT NO.	ALYSIS RESU TPH 5300.0	BTEX	WITNESS	DATE
P. I. D.	CENTER NW CORNER NE CORNER SW CORNER SE CORNER	266.0 208.0 308.0 512.0 838.0	PIT 2@	PIT 3@ AMPLE OR	AN PIT NO 1	TPH 5300.0 L(S) SAMPLE	10.9	WITNESS IF&S	DATE 10/10/95
P. I. D.	CENTER NW CORNER NE CORNER SW CORNER	266.0 208.0 308.0 512.0	RE-S PIT 2@ 06'	PIT 3@	AN PIT NO 1	TPH 5300.0 L(S) SAMPLE ALYSIS RESU	10.9	WITNESS IF&S	DATE
P. I. D.	CENTER NW CORNER NE CORNER SW CORNER SE CORNER E: 11/29/95	266.0 208.0 308.0 512.0 838.0 PIT 1@ 10'	RE-S PIT 2@ 06' 18.9	PIT 3@ AMPLE OR	AN PIT NO 1 CELI	TPH 5300.0 L(S) SAMPLE ALYSIS RESU	BTEX 10.9 LTS	WITNESS IF&S PER LAB:	DATE 10/10/95 ASSAIGAI
P. I. D.	CENTER NW CORNER NE CORNER SW CORNER SE CORNER E: 11/29/95 CENTER	266.0 208.0 308.0 512.0 838.0 PIT 1@ 10' 9.6	RE-S PIT 2@ 06' 18.9 3.3	PIT 3@ AMPLE OR	AN PIT NO. 1 CELI AN PIT	TPH 5300.0 L(S) SAMPLE ALYSIS RESU	BTEX 10.9 LTS BTEX	WITNESS IF&S PER LAB:	DATE 10/10/95 ASSAIGAI
P. I. D.	CENTER NW CORNER NE CORNER SW CORNER SE CORNER E: 11/29/95 CENTER NW CORNER NE CORNER	266.0 208.0 308.0 512.0 838.0 PIT 1@ 10' 9.6 17.3 21.3	RE-S PIT 2@ 06' 18.9 3.3 14.3	PIT 3@ AMPLE OR	AN PIT NO. 1 CELL AN PIT NO.	TPH 5300.0 L(S) SAMPLE ALYSIS RESU TPH	BTEX 10.9 LTS BTEX	IF&S IF&S PER LAB: WITNESS	DATE 10/10/95 ASSAIGAI DATE
P. I. D. DAT P. I.	CENTER NW CORNER NE CORNER SW CORNER SE CORNER E: 11/29/95 CENTER NW CORNER NE CORNER SW CORNER	266.0 208.0 308.0 512.0 838.0 PIT 1@ 10' 9.6 17.3 21.3	RE-S PIT 2@ 06' 18.9 3.3 14.3 0.0	PIT 3@ AMPLE OR	AN PIT NO. 1 CELL AN PIT NO. 1	TPH 5300.0 L(S) SAMPLE ALYSIS RESU TPH 4400.0	LTS BTEX 3.2	IF&S IF&S PER LAB: WITNESS JDT	DATE 10/10/95 ASSAIGAI DATE 11/29/95
P. I. D. DAT P. I.	CENTER NW CORNER NE CORNER SW CORNER SE CORNER E: 11/29/95 CENTER NW CORNER NE CORNER	266.0 208.0 308.0 512.0 838.0 PIT 1@ 10' 9.6 17.3 21.3	RE-S PIT 2@ 06' 18.9 3.3 14.3 0.0 48.9	AMPLE OR	AN PIT NO 1 CELL AN PIT NO 1 2	TPH 5300.0 L(S) SAMPLE ALYSIS RESU TPH 4400.0	LTS BTEX 3.2	IF&S IF&S PER LAB: WITNESS JDT	DATE 10/10/95 ASSAIGAI DATE 11/29/95

PIT

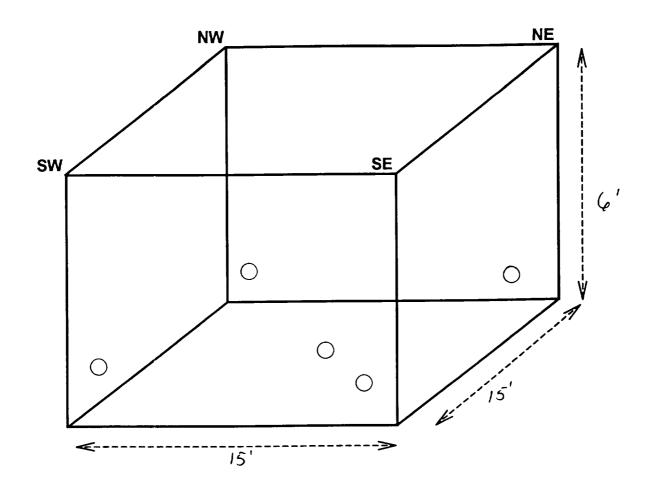
NO.

TPH

BTEX



				\bigcirc	= SAMPLE AREA
WELL NAM	ΛE	APACHE # 112 PIT # 1			
SAMPLE D	ATE	11/29/95			
NOTES	5 POI	NT COMPOSITE SAMPLE TAKEN 8" TO) 10" INT	O PIT	
	SIDE	WALL AND PIT BOTTOM CENTER			
					
	<u> </u>				



			= SAMPLE AREA
WELL NAM	ΛE	APACHE # 112 PIT # 2	<u>.</u>
SAMPLE D	ATE	11/29/95	-
NOTES		IT COMPOSITE SAMPLE TAKEN 8" TO 10" IN	ITO PIT
,			

b ID: 9512029-07A

Collected: 11/29/95 12:18:00

b ID: 9512029-07A Sample ID: AP #147-H			Collected: Matrix: SC		95 12	:18:00	
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	500 500 500	12/05/95 12/05/95 12/05/95	SBTXME092 SBTXME092 SBTXME092
Lab ID: 9512029-07B Sample ID: AP #147-H			Collected: Matrix: SO		95 12	:18:00	
TEST / METHOD		RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	-	ND 12/05/95	mg/Kg N/A	5.0	50	12/07/95	SLFTD053
Lab ID: 9512029-08A Sample I	P.+#2		Collected: Matrix: SO		95 12	:38:00	
TEST / METHOD		RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&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
Lab ID: 9512029-08B Sample ID: 9512029-08B	P.+#2		Collected: Matrix: So		95 12	:38:00	
TEST / METHOD		RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M		12/05/95	mg/Kg N/A	5.0	25	12/07/95	SLFTD053

Lab ID: 9512029-09A
Sample ID: A

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

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
X/SW846-8020A izene r oluene Ethylbenzene P-&m-Xylene		mg/Kg mg/Kg mg/Kg mg/Kg	0.0010 0.0010 0.0010 0.0010	500 500 500 500	12/05/95 12/05/95 12/05/95 12/05/95	SBTXME092 SBTXME092 SBTXME092 SBTXME092

Sample ID: AP .**b ID:** 9512029-09A

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

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
BTEX/SW846 8020A O-Xylene	Salari -	mg/Kg	0.0010	500	12/05/95	SBTXME092

Lab ID: 9512029-09B. Sample ID: A

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

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	12/05/95	mg/Kg N/A	5.0	250	12/07/95	SLFTD053

Lab ID: 9512029-10A Sample ID: AP #105

Collected: 11/29/95 13:13:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
EX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
	0.63	mg/Kg	0.0010	500	12/05/95	SBTXME092
	1.3	mg/Kg	0.0010	500	12/05/95	SBTXME092
	1.4	mg/Kg	0.0010	500	12/05/95	SBTXME092

Lab ID: 9512029-10B Sample ID: AP #105

Collected: 11/29/95 13:13:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	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: AP #146-C **Collected:** 11/29/95 13:32:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE	BATCH_ID
BTEX/SW846-8020A Benzene luene aylbenzene P-&m-Xylene O-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092

Chain of Custc 1y Record

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

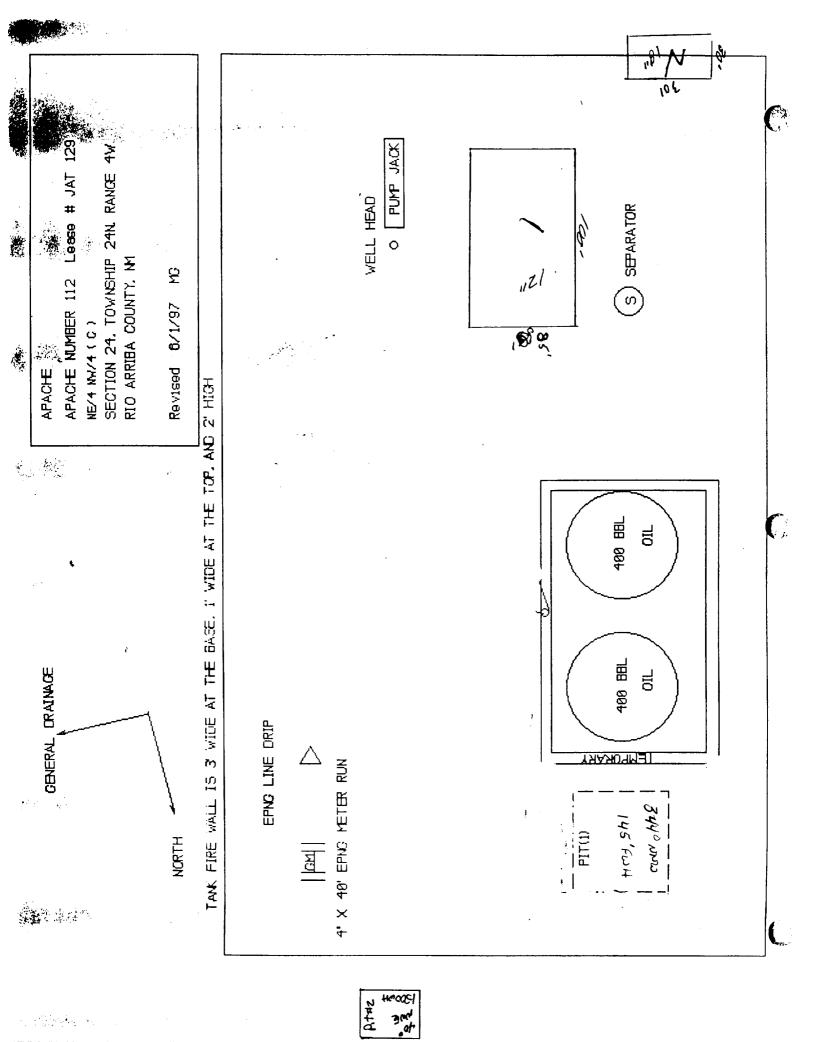
1910 N. BIG SPRING MIDLAND, TEXAS 797 (915) 570-1116

ALBUQUERQUE, NEW MEXICO 8710° (505) 345-8964

MELQUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Project Manager / Contact SONY 191 OF	Telephone No. 5751375-0318	M. Fax No. (505) 325-0325 / 1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Samplers: (Signature)		
Client Apoche Corporation	Address 204 N. Benrend	City/State/Zip Fax MINGHON A. MI.	Project Name / Number	Contract / Purchase Order / Quote	

		e)		· ·
	A STATE OF THE STA		Received by: Signature Printed (LIVCL N. (CLI)	After analysis, samples are to be: Disposed of (additional fee) Stored (30 days max) Stored over 30 days (additional fee) Returned to customer
			1 Date 2 '4'	After ans
Samplers: (Signature) 355-	10.50		Received by: Signature Signature Company Feason Feason For the Company Feason Feason For the Company Feason For the Company Feason For the Company For the Company Feason For the Company For the	Comments:
Project Name / Number At Demichan Contract / Purchase Order / Quote	11134 O A P # 110 C C C C C C C C C C C C C C C C C C	40+ 40+ 40+ 100+ 100+ 100+ 100+ 100+ 100	10.9.8. A D# 113-14 12.9.8. A D# 146-C Inquished by: Inned Se C c cost And c 50 460 Company Indian Fire & 50 460 11,00,600	Aethod of Shipment:



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

ON-SITE SOIL REMEDIATION REPORT

Operator: APA	CHE CORPORA	ATION		Telephone	e	505-325-0	318	
Address:	2855 SO	UTHSIDE RI	VER ROAD	SUITE A	/ FARMING	TON, N.M	. 87401-79	47
Facility or Well Na	ıme:	APACHE	# 112 CELL	_#1				
Location: Unit	or Qtr/Qtr Sec	C	Sec 24	T 24N	R 4W	County	RIO ARRI	ВА
Land Type	JIC. TRI	BAL						
Date Remediation	Started:	10/10/95		_Date Com	npleted:		5/14/98	
Remediation M eth	od: Landfarm	ned	XXX	Approx. c	ubic yards		250	
	Compost Other	ed		-				
Depth to Groundw	ater:	(pts)	0		Final Clo	sure Samp	oling	
Distance to an Ep	hemeral Stream	: (pts)	0	Sampling	Date:	5/14/98	_Time:	2:45PM
Distance to Neare or Watering Pond	•	(pts)	00	Sample F		ND		
Wellhead Protecti	ion Area:	(pts)	0		pace (ppm)		— Method	M8015
Distance To Surfa	ace Water:	(pts)	0	TPH		1800		
RANKING SCOR	E (TOTAL POIN	ITS)	0	- Othe	er BTEX \S	747040 , OU		· /
I HEREBY CERT KNOWLEDGE AI		NFORMATIC	N ABOVE	IS TRUE A	AND COMP	LETE TO T	THE BEST (OF MY
DATE:	5/26/9	98	PRINTED	NAME		JEFF CF	ROSS	·
SIGNATURE	Jeff lio	>	TITLE		PROJEC	T MANAG	ER	
AFTER REVIEW ACCORDANCE 1							N IS APPRO	OVED IN
APPROVED:	YES	NC)	_(REASOI	N)	 		_
SIGNED:	05-6-	Mound	/ DATE:	6	-2-99	S		_

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

ON-SITE SOIL REMEDIATION REPORT

Operator: APACHE CORPORATION	ON	_Telephone	505-325-0318
Address: 2855 SOUTH	ISIDE RIVER ROAD)/SUITE A / FARMING	TON , N.M. 87401-7947
Facility or Well Name:A	PACHE # 112 CELI	_#2	
Location: Unit or Qtr/Qtr Sec _	C Sec 24	T 24N R 4W	County RIO ARRIBA
Land TypeJIC. TRIBAL	<u> </u>		
Date Remediation Started:	10/10/95	_Date Completed:	5/14/98
Remediation Method: Landfarmed	XXX	_Approx. cubic yards	71
Composted		_	
Other			
Depth to Groundwater:	(pts) 0	Final Clo	sure Sampling
Distance to an Ephemeral Stream:	(pts)0	Sampling Date:	<u>5/14/98</u> Time: <u>2:50PM</u>
Distance to Nearest Lake, Playa,	(pts)	Sample Results:	
or Watering Pond:	0	Field Headspace (ppm)	ND_
Wellhead Protection Area:	(pts) <u>0</u>	TPH (ppm) ND Method M8015
Distance To Surface Water:	(pts)0		:W846 , 8020A (ND)
RANKING SCORE (TOTAL POINTS)	0	Other BIEX 10	(115)
I HEREBY CERTIFY THAT THE INFO KNOWLEDGE AND BELIEF	ORMATION ABOVE	IS TRUE AND COMP	LETE TO THE BEST OF MY
DATE: <u>5/26/98</u>	PRINTED	NAME	JEFF CROSS
SIGNATURE Seff (100)	TITLE	PROJEC	T MANAGER
AFTER REVIEW OF THE SOIL REM ACCORDANCE TO THE JICARILLA	EDIATION INFORM	ATION. ON-SITE RE	MEDIATION IS APPROVED IN
APPROVED: YES	NO	_(REASON)	
SIGNED: Leve Man	DATE:	6-2-98	/

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	APACHE # 112		_	
* AMOUNT OF SOIL UNDERGO	NG REMEDIATION	321	Yds.	
CELL No. 1		SampDATE 5/14/98	1800	BTEX ND
DIMENSIONS(LxWxH) 100'	X 85' X 12"			
CELL LOCATION (dir. from well head	WEST		ļ	
* DATE BEGAN: 10/10/95				
DATE TERMINATED (TPH <5,000 ppm	/BTEX< 50 ppm/Benzene < 10 ppm	5/14/98	3	-
		SampDATE	TPH	BTEX
CELL No. 2		5/14/98	ND	ND
DIMENSIONS(LxWxH) 30' X	(30' X 12"			
CELL LOCATION (dir. from well head	SOUTH WEST		-	
CELE LOCATION (dir. nom wen nead	300111 WEST			
* DATE BEGAN: 10/10/95				
DATE TERMINATED (TPH <5,000 ppm	/BTEX< 50 ppm/Benzene < 10 ppm	5/14/9	8	•
		SampDATE	TPH	BTEX
CELL No. 3		•		
DIMENSIONS(LxWxH)				
CELL LOCATION (dir. from well head				
* DATE BEGAN:				
DATE TERMINATED (TPH <5,000 ppm	n/BTEX< 50 ppm/Benzene < 10 ppm	1)		-
REMEDIATION RECORD: (Date, Treati	ment, Tilling)			
10/10/95 TREAT SOIL WITH 28-4-4 FE		TILL SOIL.		
6/10/97 TREAT SOIL WITH 46-0-0 FER				
6/18/97 WATER ,PLOW AND TILL SOI	<u>L</u>			
5/5/98 PLOW SOIL. 5/11/98 TILL SOIL.			· · ·	
3/11/30 TILE 30IL.				

From excavation reports.

NOTES: 0 Ò ALL SAMPLES TAKEN 10" TO 12" INTO CELL. point composite simple 9 0 ĭ 0 O 0 0

WELL NAME: Apache #1/2 cell #1

SAMPLE DATE: 5-14-98

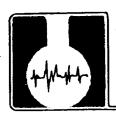
DIMENSIONS: 100' x85' x12

= SAMPLE AREA

NOTES: 0 ALL SAMPLES TAKEN 10" TO 12" INTO CELL. Downt composite stable 0 0

WELL NAME: $A\rho Ache^{\#1/2}$ Cell $^{\#2}$ SAMPLE DATE: 5-/4-98DIMENSIONS: $30' \times 30' \times 12$

= SAMPLE AREA

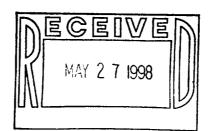


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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

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

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



	* 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: 9805128

JICARILLA PIT CLOSURE

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

Client Sample ID	APACH	E #112	2 CELL #1		mple SOIL	-			Sample Collected	05/14/98 14:45:00
						Dilution	Detection			Run
Fraction	QC Group	CAS#		Result	<u>Units</u>	Factor	<u>Limit</u>	*	Sequence	. <u>Date</u>
			SW846-8020 Volatiles							
9805128-01A	X98267	71-43-2	Benzene	ND	mg/Kg	50	0.005		XG.1998.464-19	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.464-19	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.464-19	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.464-19	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.464-19	
			SW846-8015 Modified TPH							
9805128-01B	X98268		Diesel Range Organics	1800	mg/Kg	25	25		XG.1998.465-18	05/15/98
Client Sample ID	AFACII		2 CELL #2	M:	ample SOIL				Collected	14:50:00
						Dilution	Detection			Run
Fraction	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	<u>Limit</u>	*	Sequence	<u>Date</u>
			SW846-8020 Volatiles							
9805128-02A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.464-20	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.464-20	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.464-20	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.464-20	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.464-20	
			SW846-8015 Modified TPH							
9805128-028	X98268		Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.465-19	05/15/98
			County Panarts	vor 1 1 / 0			Pon	ort Da	to EM0/00 A	:44:59 PM

Page 1 of 2

Coyote Reports

ver 1.1 / 980406

Report Date

5/20/98 4:44:59 PM



05/44/09



Chain of Custody Record

Project Manager / Contact Jeff Cross

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

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

Client Apache	e Corporation			<u> </u>	oject Mar	Project Manager / Contact Jeff	ct Jeff	Cross	10								
Address 2855	5 Southside River RD.	er RD		e ATe	Ste. ATelephone	No. (505) 774-6643	774-	6643					Analysis Required	quired			
City / State / Zip.	Cliy/State/Zip Parmington, NM 87401-7947_	87401	-794		× No. (5	Fax No. (505) 774-6624	1-6624									-	
Project Name / Number	lumber			S.	Samplers:	(Signature)		Res P		Journal of the State of the Sta	X	\ \ \				Remarks	
Contract / Purch	Contract / Purchase Order / Quote					7				18		700				* * * * * * * * * * * * * * * * * * *	
FRACTION	Sample Number / Location 1995 187 Date 18	Date	•mt	\vdash	Sample, Style Type	Type / Bize of Container	3	Temp. : Chemi	mical /		//						
`	1 packe #112 call#1	514	5-1495 2:45 Soil	15.50	ii 4	oz alass	88	H	9	×	+						
3/	/				7	4 oz a 1855	3			×							
24	4 packe # 112 cell#2		2350	a		<u>1</u>		+		×			_				
232		_	_					-		× -							
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Relinquished by:	Date		Received by:) Py:	\mathcal{L}		Reling	Relinquished by:	1	0		Date	£ 6	ved by:	7	ر پر	
Signature		8-18-28	Signature]]			Bignature	V	3		ar i	1	1 1 Sign	aturo Por La		**	
Printed Company	Horole Corp. 9.	Time 9:30	Printed		44	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Printed Company	Àu.	44	7		JI:30	Com	Time Company A-A-L			
Reason			Reason				Reston	-			1		Reason	non			
Hethod of Shloment:			Comments:	its:							4	tter analysi	After analysis, samples are to be: Disposed of (additto	s, samples are to be: Disposed of (additional			
Shipment No.													Stored (30 days max)	đays max)			
Special Instructions:													Stored ove	Stored over 30 days (ado	(c ree)		
			_										Returned to customer	o customer			
							14000	200									