District III

1000 Rio Brezos Rd Energy,
DETAIL MOLL So GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

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

REGEIVED

PIT REMEDIATION AND CLOSURE REPO

11/1/	wed !							(6)	ni zazad (1	1,000,00
Operator:	Apache Corporation				Telephone: 505-3			505-325-	(9)]][[(5(9)]]。 05-325-0318 _[1] [3 [3]。	
Address:	2855 Southside River Road, Su	ite A, Farm	ington	, NM	87401					
Facility or	Well Name:	Apache #	149 P	it #1						
Location:	Unit or Qtr/Qtr Sec	P	Sec 1	<u> </u>	T 24 N	R 4	W	County	Rio Arriba	
Pit Type:	Separator:	_Dehydrator	r		Other	Tank	Draiı	n\Blow Pi	<u>t</u>	
Land Type	e: Jicarilla Tribal								*****	
	Beginning Pit Dimensions:	Length		48'	Width	I	48'	Dep	th 6'	
Pit Location	-	Length		48'	Width		48'	- Dep	th <u>9'</u>	
(Attach di	Reference:	Wellhead	XX	X	Other					
	Footage from reference:			150'		-				
	Direction from reference:		25	0	Degrees			_East	North of	
						X	<u> </u>	_West	South	х
-	Groundwater:				Less than				(20 points)	
(vertical dis contaminan high water	its to seasonal				50 feet to Greater th				(10 points) (0 points)	
groundwate										•
(Less that	d Protection Area: an 200 feet from a private water source, or; less than t from all other water sources)							Yes No	(20 points) (0 points)	0
(Horizon	e To Surface Water: tal distance to perennial onds, rivers, streams, creeks, canals and ditches)				Less than 200 feet to Greater th	o 1000 nan 100	feet 00 fee	et	(20 points) (10 points) (0 points)	
					KANKING	3 3001	\ = (TOTAL PO	AINTO)	

Date Remediation Started:		11/6/95		Date Compl	eted:	1/30/95		
Remediation Method: (Check all appropriate		Excavation _	XXX	Approx. cub	ic yards		256	
sections)	Landfarmed		XX	Insitu Biorer	mediation			
		Other .						
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	:	Onsite _.	XX	Offsite				
General Description o	f Remedial Action:		Excavate	pit to 9', too	k PID readin	gs.		
Spread soil	on location for rem	ediation. T	ook soil s	amples.	Pit back fille	ed w/ fill dirt		
					. <u>.</u>			
Groundwater Encoun	tered:	No	XX	Yes		Depth		
Final Pit: Closure Sampling: (in multiple samples,	Sample location		5 point composite taken from pit sidewalls and pit bottom center					
attach sample results and diagram of sample	Sample depth	9'	8 to 10" i	nto pit sidev	ralls 10" into pit bottom			
locations and depths)	Sample Date		11/30/9		Sample Time 2:00 P.M.			
	Sample results				, - (r			
	Benzene		(ppm)	ND				
	Total BTEX		(ppm)	ND				
	Field Headspace		(ppm)	26.94				
	TPH			ND				
Groundwater Sample	:	Yes	S	No	XX(If yes attach	sample results)	
I HEREBY CERTIFY T KNOWLEDGE AND B		ATION ABO	VE IS TRU	E AND COM	IPLETE TO T	HE BEST O	MY	
DATE	June 8, 199	8	_PRINTE	NAME	Jeff Cross			
SIGNATURE	leff own		_ _AND TIT	LE	Project Mar	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, Suite A, Farmington, NM 87401										
Facility or Well Name:	Apache #	149 Pit	#2	····			· · · · · · · · · · · · · · · · · · ·			
Location: Unit or Qtr/Qtr Sec	Р	Sec 1	T 24 N	R 4W	County	Rio Arriba				
Pit Type: Separator:	Dehydrato	or	_Other	Line Drip						
Land Type: Jicarilla Tribal						··-				
Beginning Pit Dimensions:	Length	n2	4' Width	24	Depth	3'				
Pit Location: Ending Pit Dimensions:	Length	n2	4' Width	24	_ Depth	<u>7'</u>				
(Attach diagram) Reference:	Wellhead	XXX	_Other							
Footage from reference:		7	5'	_						
Direction from reference:		10	Degrees	X	_East	North	XX			
					of _West	r South _				
Depth To Groundwater:	******		Less than	50 feet		(20 points)				
(vertical distance from			50 feet to			(10 points)				
contaminants to seasonal			Greater th	an 100 feet		(0 points)	0			
high water elevation of groundwater)										
Wellhead Protection Area:					Yes	(20 points)				
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)					No	(0 points)	0			
Distance To Surface Water:			Less than	200 feet o 1000 feet		(20 points)				
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,						(10 points) (0 points)	0			
irrigation canals and ditches)		Greater than 1000 feet (0 points) RANKING SCORE (TOTAL POINTS)					0			

Date Remediation Sta	rted:	11/6/95		_Date Comp	leted:	11/30/95		
Remediation Method: (Check all appropriate		Excavation	XXX	_Approx. cub	oic yards	62		
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 7', too	k PID reading	gs.		
Spread soil	on location for rem	ediation. T	Took soil s	samples.	Pit back fille	d w/ fill dirt		
Groundwater Encoun	tered:	No	x	Yes		Depth		
Final Pit:	Sample location		5 point com	nposite taken fr	om pit sidewalls	and pit bottom center		
Closure Sampling: (in multiple samples, attach sample results								
and diagram of sample	Sample depth	7'	8 to 10" into pit sidewalls 10" into pit bottom					
locations and depths)	Sample Date Sample results		11/30/9	5	Sample Time	2:12 P.M.		
	Benzene		(ppm)	ND				
	Total BTEX		(ppm)	ND				
	Field Headspace		(ppm)	20.96				
	TPH			62				
Groundwater Sample	:	Yes		_ No	XX(If	yes attach sample results)		
I HEREBY CERTIFY T KNOWLEDGE AND B		TION ABO	/E IS TRU	E AND COM	PLETE TO TH	HE BEST OF MY		
DATE	June 8, 1998	l	PRINTED	NAME	Jeff Cross			
SIGNATURE	eff Cwn	· · · · · · · · · · · · · · · · · · ·	AND TITI	_E	Project Mana	ager		

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: APACHE CORPORATION Telephone 505-325-0318										
Address:	2855	SOUTHSIDE RI	VER ROAD	/ SUITE A	/ FARMIN	GTON N.M	. 87401-794	17		
Facility or We	II Na	me:	APACHE#	149 PIT #	1					
Location:	Unit	or Qtr/Qtr Sec	Р	SEC 1	T 24N	R 4W	County	RIO ARRIBA	\	
Pit Type:	Sepa	arator:	Dehydrator		_Other	TANK DR	AIN\BLOW	PIT		
Land Type: JIC. TRIBAL										
Pit Location:		Pit Dimensions:	Length	48'	Width	48'	Depth	9'	•	
(Attach diagra	am)	Reference:	Wellhead .	XXX	_Other					
		Footage from ref	erence:	150'		_				
		Direction from re	ference:	250	Degrees		_East	North _		
1 1 1 1						XX	of _West	South _	X	
Depth To Gre	ound	water:			Less than	50 feet		(20 points)		
(vertical distance t					50 feet to	99 feet		(10 points)		
contaminants to so		ai			Greater th	(0 points) _	0			
groundwater)	F.	. h C4			l oog than	100 fact		(10 points)		
(Downgradien	nt dry	hemeral Stream wash greater tha			Less than Greater th	(10 points) _ (0 points) _				
ten feet in wid	dth									
Distance to N	Neare	est Lake, Playa, o	or Watering	Pond:	Less than	100 feet		(10 points)_		
		es, playas and e watering ponds)			Greater th	an 100 feel	t	(0 points) _	0	
Wellhead Pro	otect	ion Area:				Yes	S	(20 points)		
		t from a private				No)	(0 points)		
		urce, or less than other water sourc	es)							
Distance To					Less than			(20 points)_		
		e to perennial				o 1000 feet		(10 points)_		
•		's, streams, creek	S,		Greater th	an 1000 fe	et	(0 points) _	0	
irrigation cana	สเร สเ	iu ditches)			RANKING	SCORE (TOTAL POI	NTS) _	0	

Date Remediation Starte	ed: <u>11/6/</u> 9	95	Date Comp	oleted:	11/30/95	
Remediation Method:	Excavation	XXX	Approx. cu	bic yards	256	_
(Check all appropriate sections)	Landfarme	ed XX	Insitu Biore	emediation		
	Other					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Ons	ite XX	Offsite			
General Description of	Remedial Action: I	Excavate pit	to 9',took P	ID readings. spread s	soil on	
location fo	or remidiation. Too	k soil sampl	es. Backl	Filled Pitw/ Fill	O.R.+	
Groundwater Encounte	ered:	No XXX	_ Yes	Depth		
Final Pit: Closure Sampling: (in multiple samples,	Sample location	5 point co	mposite tak	en from pit sidewalls a	nd pit bottom ce	nter.
attach sample results and diagram of sample locations and depths)				walls ,10" into pit botto Sample Time		
Sample Da Sample re		11/30/9	<u> </u>	_ Cample III <u>IIC </u>		
Soil:	Benzene	(ppm)	ND	_Water: Benzene	(ppb)	NA
	Total BTEX	(ppm)	ND	Toluene	(ppb)	NA
	Field Headspace	(ppm)	26.94	_ Ethylbenzene	(ppb)	NA
	ТРН	(ppm)	ND	_ Total Xylenes	(ppb)	NA
Groundwater Sample:	•	Yes	_ N	XXX (If yes att	ach sample resu	ılts)
I HEREBY CERTIFY THE KNOWLEDGE AND BE		TION ABOV	E IS TRUE	AND COMPLETE TO	THE BEST OF	MY
DATE	5/27/98	PRINTE	NAME	JEFF CF	ROSS	
SIGNATURE	, ,	AND TIT	LE	PROJEC	T MANAGER	
AFTER REVIEW OF THE JICARILLA APAC	HE PIT CLOSURE I THE TRIBE PIT CLO	NFORMATIO SURE ORDI	N, PIT CLO NANCE.	SURE IS APPROVED	IN ACCORDA	ICE
11112 0101 11 112 11 11 11	1		(== 100)	AIN.		
1	3 <u> </u>	NO	_(REASO	N)		

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:	APACHE CORPORATION Telephone 505-325-0318								
Address:	2855	SOUTHSIDE R	IVER ROA	D / SUITE	A / FARMIN	GTON N.M. 87	401-7947		
Facility or W	ell Na	me:	APACHE	# 149 PIT :	¥ 2				
Location:	Unit	or Qtr/Qtr Sec	P	SEC 1	T 24N	R 4W Co	ounty RIO ARRIBA		
Pit Type:	Separator:		_Dehydrato	or	_Other	LINE DRIP			
Land Type:		JIC. TRIBA	AL	·					
Pit Location:		Pit Dimensions:	Length	n <u>24'</u>	Width	124'	Depth 7'		
(Attach diagram)		Reference:	Wellhead	XXX	Other				
		Footage from re	ference:	75'		-			
		Direction from re	eference:	10	Degrees	XE	ast North _	хх	
						w	est South _		
Depth To G	round	lwater:			Less than	50 feet	(20 points)		
(vertical distance		awater.			50 feet to		(10 points)		
contaminants to		nal			Greater th	0			
high water eleva groundwater)	ition of								
Distance to	an F	phemeral Strean	n·		Less than	100 feet	(10 points)		
	ent dry	wash greater that			Greater t	(0 points) _			
Distance to	Near	est Lake, Playa,	or Waterin	ng Pond:	Less than	(10 points)_			
•		ces, playas and e watering ponds)		Greater t	han 100 feet	(0 points) _	0	
Wellhead P	rotec	tion Area:				(20 points)_			
domestic wa	(Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)					No	(0 points) _	0	
Distance To	o Sur	face Water:			Less thar	n 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)				
irrigation ca	inals a	and ditches)			RANKING SCORE (TOTAL POINTS)				

Date Remediation Start	ed : 11/6/95)	_Date Comp	leted:	11/30/95						
Remediation Method:	Excavation	XXX	_Approx. cut	oic yards	62	ļį					
(Check all appropriate sections)	Landfarmed	ХХ	_Insitu Biore	mediation							
	Other										
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite	e XX	_Offsite								
General Description of	Remedial Action: Ex	cavate pit	to 7',took P	D readings. spread	soil on						
location for remidiation. Took soil samples. BACK Filled Pit w/Fill Direct											
Groundwater Encountered: No xxx Yes Depth											
Final Pit: Closure Sampling: (in multiple samples,	Sample location	5 point co	omposite take	en from pit sidewalls a	and pit bottom cer	nter.					
attach sample results and diagram of sample locations and depths) Sample D	•			valls ,10" into pit botto							
Sample re											
Soil:	Benzene	(ppm)	ND	Water: Benzene	(ppb)	NA					
	Total BTEX	(ppm)	ND	Toluene	(ppb)	NA					
	Field Headspace	(ppm)	20.96	Ethylbenzene	e (ppb)	NA					
	ТРН	(ppm)	62	Total Xylenes	(ppb)	NA					
Groundwater Sample:	Ye	s	No	XXX(If yes at	tach sample resul	lts)					
I HEREBY CERTIFY THE KNOWLEDGE AND BE		ION ABOV	E IS TRUE A	ND COMPLETE TO	THE BEST OF N	ΛΥ					
DATE	5/27/98	PRINTE	NAME	JEFF C	ROSS						
SIGNATURE	off tron				T MANAGER						
AFTER REVIEW OF THE JICARILLA APAC	HE PIT CLOSURE INF HE TRIBE PIT CLOS	ORMATIO URE ORDI	N, PIT CLOS NANCE.	SURE IS APPROVED) IN ACCORDAN	CE TO					
APPROVED: YES	S No	0	(REASON)							
SIGNED:	C Monn	<u> </u>	DATE:	6-2-98							

,

APACHE CORPORATION FARMINGTON DISTRICT

I.

NE CORNER

SE CORNER

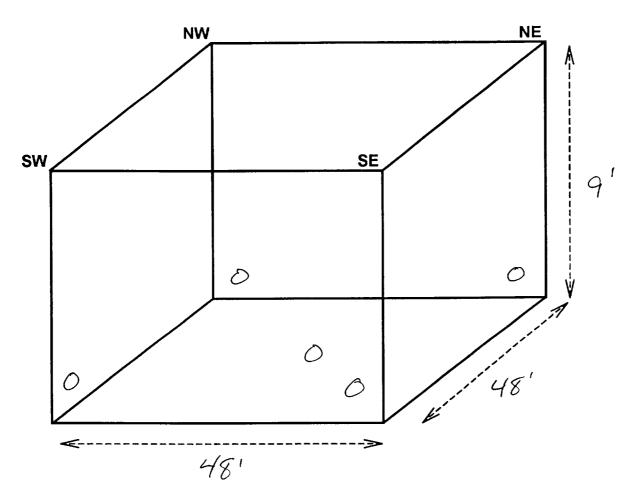
D. SW CORNER

PIT EXCAVATION AND CLOSURE REPORT JICARILLA APACHE TRIBAL EPO **REVIEW AND APPROVAL** LOCATION: APACHE 149 **EPO REPRESENTATIVE** DATE OF REVIEW: PIT COUNT: 2 **EXCAVATION DIMENSIONS START FINISH** L D CU.YDS. L D PIT 1 48 48' 6' PIT 1 48' 48' 9 25le 7° PIT 2 24' 24' 3° PIT 2 24' 24' 342 62 PIT 3 PIT 3 DATE:11/06/95 PIT1@09' PIT3@ PIT2@07' PIT3@ DATE:11/30/95 PIT1@09' PIT2@07' CENTER 107.0 260.0 CENTER 73.1 39.9 NW CORNER P. NW CORNER 36.0 P. 87.1 221.0 20.9 NE CORNER 78.6 143.0 NE CORNER 0.0 3.1 I. I. D. SW CORNER 78.3 257.0 D. SW CORNER 3.6 10.6 SE CORNER 98.1 241.0 SE CORNER 21.9 30.3 NOTES: 11/06/95 -PIT 1-Sandstone w/lt. brown staining to 8' PIT2-Sandstone w/no staining and slight odor. SOIL SAMPLING DATE:11/06/95 PIT1@09' PIT3@ PIT2@07' ANALYSIS RESULTS PER LAB: ASSAIGAI CENTER 107.0 260.0 PIT **TPH BETEX** WITNESS DATE P. NW CORNER 87.1 221.0 NO. I. NE CORNER 78.6 143.0 1 IF&S ND ND 11/06/95 D. SW CORNER 78.3 257.0 2 ND 0.330 IF&S 11/06/95 SE CORNER 98.1 241.0 3 RE-SAMPLE OR CELL(S) SAMPLE DATE:11/30/95 PIT1@ 09° PIT2@07' PIT3@ ANALYSIS RESULTS PER LAB: ASSAIGAI CENTER 73.1 39.9 PIT TPH BETEX WITNESS DATE NW CORNER 36.1 20.9 P. NO. NE CORNER I. 0.0 3.1 JDT 11/30/95 1 ND ND D. SW CORNER 3.6 10.6 62.0 ND JDT 11/30/95 SE CORNER 21.9 30.3 3 RE-SAMPLE OR CELL(S) SAMPLE DATE: PIT 1 PIT 2 PIT 3 ANALYSIS RESULTS PER LAB: CENTER PIT TPH BETEX WITNESS DATE P. NW CORNER NO.

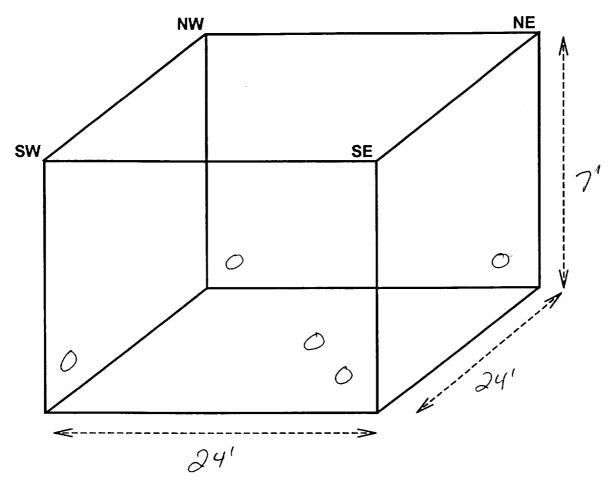
1

2

3



			= SAMPLE AREA						
WELL NAM	ΛE	APACHE # 149 PIT # 1							
SAMPLE DATE		11/30/95	_						
NOTES	5 POI	NT COMPOSITE SAMPLE TAKEN 8" TO 10" I	NTO PIT						
	SIDEWALL AND PIT BOTTOM CENTER								
•									
•									
•									
•									
•									
•									



				= SAMPLE AF	REA				
WELL NAN	ΛE	APACHE # 149 PIT # 2							
SAMPLE D	ATE	11/30/95							
NOTES -	5 PO	INT COMPOSITE SAMPLE TAKEN 8" TO 10	O" INTO P	IT					
	SIDE	SIDEWALL AND PIT BOTTOM CENTER							
			1.00						
			· ·						
-									
-									
•									

Lab ID: 9512029-18A nple ID: AP 149 1 01+#1

Collected: 1/30/95 14:00:00 Matrix: SOIL

in the in: Head and the least the le		Matrix: SC) T L			
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A O-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Lab ID: 9512029-18B Sample ID: AP: #149-H / ρ.+** Point		Collected: Matrix: SO		5 14	:00:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_ F	DATE ANAL	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: 9512029-19A Sample ID: 22 #149-0 ρ,+ = 2		Collected: Matrix: SO		95 ♥ 14	:12:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A nzene luene 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	500 500 500 500 500	12/06/95 12/06/95 12/06/95 12/06/95 12/06/95	SBTXME093 SBTXME093 SBTXME093 SBTXME093 SBTXME093
Lab ID: 9512029-19B Sample ID: A # #149-C * ρ, † #2		Collected: Matrix: SO		5 14	:12:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	62B 12/06/95	mg/Kg N/A	5.0	5.0	12/07/95	SLFTD054
Lab ID: 9512029-20A Sample ID: AP #117		Collected: Matrix: So		95 14	:35:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene %m-Xylene Yylene	ND ND ND 1.4 0.54	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	12/06/95 12/06/95 12/06/95 12/06/95 12/06/95	SBTXME093 SBTXME093 SBTXME093 SBTXME093 SBTXME093

CENERAL DRAINAGE 250° W3 W PIT(1) 150 FWH 200' XZV' XIZ" **466** BBI NCRTH CIL. LANDFARM 300 BBL HZO SEPARATOR PUMP JACK APACHE METER RUN WELL HEAD PIT(2) 76'Fω 10°NNE APACHE LINE DRIP

N. Kin

, 一、精神, ""。

APACHE NUMBER 149 Lease # JAT 126
SE/4 SE/W (F)
SECTION 1. TOWNSHIP 24N. RANCE 4W
RIO ARRIBA COUNTY. NM

Revised 8/1/97 MG

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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>APACHE</u>		Telephone)	505-325-0318				
Address:	Address: 2855 SOUTHSIDE RIVER ROAD/SUITE A / FARMINGTON , N.M. 87401-7947							
Facility or Well Name:	CHE #	149						
Location: Unit or Qt	r/Qtr Sec	P S	Sec 1	T 24N	R 4W	County	RIO ARRI	ВА
Land Type	JIC. TRIBAL	·						
Date Remediation Starte	6/95		Date Com	pleted:		5/12/98		
Remediation Method: Landfarmed			XXX	Approx. c	ubic yards		318	
	Composted Other	- -						
Depth to Groundwater:		(pts)	0		Final Clos	sure Samp	ling	
Distance to an Ephemer	ral Stream:	(pts)_	0	Sampling	Date:	5/12/98	_Time:	3:00PM
Distance to Nearest Lak or Watering Pond:	(pts)	0	Sample R					
Wellhead Protection Area:		(pts)_	0	Field Headspace (ppm) ND Method			- Mathad	M004 <i>E</i>
Distance To Surface Water:		(pts)_	0			ND Method M8015 W846 , 8020A (ND)		
RANKING SCORE (TO	_	0	Otne	BIEX 12	<u>vvo40</u> , ouz	OA (ND		
I HEREBY CERTIFY TH KNOWLEDGE AND BE	LIEF							PF MY
DATE:	5/27/98							
SIGNATURE	efflun	1	TITLE	*	PROJECT	MANAGE	R	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.								
APPROVED: YES	s_ <u>X</u>	NO_		(REASON	I)			-
SIGNED:	C Manu		DATE:	6	2-98	/		-

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE	APACHE # 149		_	
* AMOUNT OF SOIL UNDERGOING	G REMEDIATION	318	Yds.	
CELL No. 1		SampDATE 5/12/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) 200' X	20' X 12"			
CELL LOCATION (dir. from well head	NW			
* DATE BEGAN: 11/6/95	_			
DATE TERMINATED (TPH <5,000 ppm/B	TEX< 50 ppm/Benzene < 10 ppm	5/12/98	3	_
CELL No. 2		SampDATE	TPH	BTEX
DIMENSIONS(LxWxH)				
CELL LOCATION (dir. from well head				
* DATE BEGAN:	<u></u>			
DATE TERMINATED (TPH <5,000 ppm/B	TEX< 50 ppm/Benzene < 10 ppm)		_
CELL No 3		SampDATE	TPH	BTEX
DIMENSIONS(LxWxH)				
CELL LOCATION (dir. from well head				
* DATE BEGAN:				
DATE TERMINATED (TPH <5,000 ppm/B	TEX< 50 ppm/Benzene < 10 ppm)		_
REMEDIATION RECORD: (Date, Treatme				
11/6/95 TREAT SOIL WITH 28-4-4 FERT				
5/7/97 TREAT SOIL WITH 46-0-0 FERTIL 6/11/97 TILL SOIL.	IZER, WATER, PLOW AND TILL	SOIL.		- I' <u>-</u>
7/16/97 WATER AND TILL SOIL.			· · · · · · · · · · · · · · · · · · ·	
8/20/97 TREAT SOIL WITH 40LBS PHOS	SPHORUS, 19LBS LIME, WATER	PLOW AND TILL	SOIL.	
5/1/98 PLOW SOIL.			· · · · · · · · · · · · · · · · · · ·	
5/10/98 TILL SOIL.				1 N 1240

From excavation reports.

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

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

ALBUQUERQUE, NEW MEXICO 87109 (505) 345-8964

Client Apache Corporation	Project Manager / Contact Jeff Cross		
Address 2855 Southside River RD.), Ste. ATelephone No. (505) 774-6643	Analysis	Analysis Required
City/State/ZipFarmington, NM 87401-7947	-7947 Fax No. (505) 774-6624		
Project Name / Number	Samplers: (Signature) - Helf (LCD)		Remarks
Contract / Purchase Order / Quote	0000	// NA/2007/	
FRACTION Sample Number / Location State	Date Type Bize of Container Temp. Chemical		
1A Apacha #149 cc/ 5-17-48	76 3:00 Soil 4 oz glass ILee 1 X		
1 / / 51	1 1 4 oz a lass 1 1	×	
)		
Relinquished by:	Received by: Signature	Pale /S WAY 9 &	15 may of Signature (2h chizung
Apacha Corp.		16.30 °	Company A ALI
Reason	Reason		Reason WHY CY SIS
		After analysis, samples are to be:	alysis, samples are to be:
Method of Shipment:	Comments:	Speed 2	Cisposed of (source)
Shipment No.		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	o days many

LABORATORY

Special instructions:

tee)

Stored over 30 days (add Returned to customer



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: 9805122

JICARILLA PIT CLOSURE

William P. Biava: President of Assaigai Analytical Laboratolies, Inc.

Client Sample ID	APACH	E #149	CELL		mple SOIL	•			Sample Collected	05/12/98 15:00:00
						Dilution	Detection			Run
Fraction	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	Limit	*	Sequence	<u>Date</u>
		5	SW846-8020 Volatiles							
9805122-01A	X98267	71-43-2	Benzene	ND	mg/Kg	50	0.005		XG.1998.464-13	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.464-13	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.464-13	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.464-13	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.464-13	
		:	SW846-8015 Modified TPH							
9805122-01B	X98268		Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.465-12	05/15/98



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Coyote Reports

ver 1.1 / 980406

Report Date

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