Denny S. Fourt, DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

Jicarilla Apache Tribe Environmental Protection Office P.O. Box 507 Dulce, New Mexico 87528



Approved

Pit Remediation and Closure Report

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Operator:	Burlington Reso	urces	Teleph	one:	(505)	326-9700		
Address:	P.O. Box 4289,	Farmingt	ton, NM 8749	9-4289				
Facility or Well	Name:	Jicarilla 96	# 6A		DP#	29232 A		
Location:	Unit or Qtr/QTR	Sec "E" Se	ec 2, T 26 N,	R3W	Count	ty	Rio A	rriba
Pit Type:	Separator: X	Dehydrato	r: Other:					
Land Type:			<u> </u>					
								·
Pit Location:	Pit dimensions:	length: 22	ft width:	18 ft	depth	: 3 ft		
(Attach Diagran	n)							
	Reference:	wellhead: 3	X other:			·	-	
Footag	ge from reference:	103 fe	et	·····	•			
Direction	on from reference:	130	Degree	s	East	North	<u>X</u>	
						of		
					West	South		
								
Depth To Grou				ın 50 feet		(20 points)		
(Vertical distan				to 99 feet		(10 points)		•
contaminants to			Greater than	100 feet		(0 points)		0
high water elev	ations of							
groundwater)								
Distance to an	Ephemeral Stream	٠.	l acc thar	n 100 feet		(10 points)		
	dry wash greater t		Greater than			(0 points)		0
ten feet in width	•	ırıqırı	Orealer trial	1 100 1661		(o points)		
terriect in widt	'/							
Distance to Ne	arest Lake, Playa,	or Watering	g Less thar	100 feet		(10 points)		
	adient lakes, playa		Greater Than			(0 points)		0
, ,	dlife watering pond	•				(-		
	and watering period	,						
 Wellhead Prote	ection Area:			Yes		(20 points)		
1	feet from a private	•		No		(0 points)		0
`	source, or less th					, ,		
	all other water sou							
		,						
Distance To Su	ırface Water:		Less than	100 feet		(20 points)		
(Horizontal dist	ance to perennial		100 feet to	1000 feet		(10 points)		
lakes, ponds, ri	ivers, streams, cre	eks,	Greater than	1000 feet		(0 points)		0
irrigation canal								
			RANKING	SCORE (TOTA	L SCORE):		0

Jicarilla Apache Tribe Environmental Protection Office P.O. Box 507 Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started:	8/22/96	Date Completed		
Remediation Method:	Excavation:	X	Approx. cubic yards:	150
(Check all appropriate	Landfarmed:	X	Insitu Bioremediation:	
sections)	Other:			
Remediation Location:	On-site:	X	Off-site:	
(I.e. landfarmed on site,				
name and location of				
off site location)				
General Description of Remedial	Action: Excav	ated contaminate	ed material down to san	dstone.
Groundwater Encountered:	No: X	Yes:	Depth:	
Final Pit	Sample location	: See Pit Closure	Verification sheet	
Closure Sampling:				
(If multiple samples,				
attach sample results				
and diagram of sample	Sample depth:	9 ft		
locations and depths.)	Sample date:	8/22/96	Sample time:	11:45
Sample Results:			-	
Soil:			Water:	i
Benzene (ppm)	0.57	_	Benzene (ppb)	
Total BTEX (ppm)	46.97	_	Toluene (ppb)	
Field Headspace (ppm)	147	_ Et	thylbenzene (ppb)	
TPH (ppm)	3,190	To	otal Xylenes (ppb)	
Groundwater Sample:	Yes:	_	No: X	
(If yes, attach sample results.)		_		
I HEREBY CERTIFY THAT TH	IE INFORMATI	ON ABOVE IS	TRUE AND COMPLE	TE TO
THE BEST OF MY KNOWLED	GE AND BELI	EF		
# 				
DATE 5 22 96	PRINTEI	NAME 4	Gun L Garrel	con
•			·	
SIGNATURE 1. / T.	AND	TITLE Loci	ie Cipmenter-H	
AFTER REVIEW OF THE PIT	CLOSURE IN	ORMATION PI	T CLOSURE IS APP	ROVED
IN ACCORDANCE TO THE J	CARILLA APA	CHE TRIBE PIT	CLOSURE ORDINA	NCE
A DDD 01/20 1/20	/DEACON	`		
APPROVED: YES X NO	- WASUN	<i></i>		
SIGNED: KOLL Ma	DAT	E:	6	

PIT CLOSURE VERIFICATION SHEET

Location: Scarilla 96 6 A DP = Contractor: Philips Env Consultant Initials: Date Started: 8-22-96 Date Finished:	29232A Lease No. BLn #09-000096
Excavation & Soil Information Dimensions (approx.): 23 FT. x 22 FT. Soil Remediated M On Site Off Site If off site	x <u>08</u> FT. Deep Cubic Yards: (bcy) <u>150</u> e name location (s)
PIT PERIMETER	
N	PIT PROFILE
Steel (5) 5 F (3) Steel (2) Steel (3) OVM Results:	718 ppm 15 ft 194 ppm 5 ft Sandstone *Bottom of Pit is slauted 5 ft to 9 ft.

OVIT RESUITS:								
Sample ID	1	2	3	4	1 5	-	T -	T
Headspace PID (ppm)	27	1/12	1219	214	1911	0		8
Sample ID	9	10	111	12	13	Commit	10 0	
Headspace PID (ppm)					13	Comp 1	Comp 2	Comp 3
		<u> </u>	·	<u> </u>	!	191	1	

]	
m6-29232A-2-U	
,	
3190.0	
	m6-29232A-2-U 46.47 3190.0

8-22-96
thereilla 96 + 6A. 3 miks from 10
spot Lives
were levent - 9608 19185 70671
start dagging @ 10:20 cm.

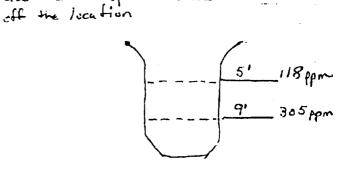
3

HAL KIS

MOAPAG

Picture # 4 Picture # 5+6-@ 11:45an
use old fancing that came 27 26

22' ppm - 112



composite - 147 9' on West Size 3' Wide - Rest of Pit 8' - Solich Rock 8

Took Samples @ 11:30 am Will move Hoe with Schmitz to 98 2A Truck on Location within 30 minutes Hoe Located @ 11:36 am to Muse to 98 + 2A

Left location @ 2:10 Pm.

Land Four Tork

781

31

781

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- -

Simerican Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

AEN LD : 600262

TEST

: EPA 8015 MODIFIED (DIRECT INJECT) : PHILIP ENVIRONMENTAL

CLIENT

PROJECT#

: 16256

PROJECT NAME

: MOI PIT REM.

		· MOLLI KEW.					
SAMPLE ID.#	CLIENT I.D.		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE	DIL
07	M6-29238A-2-V		NON-AQ	8/22/96		ANALYZED	FACTOR
08	M6-29232A-2-V		NON-AQ	8/22/96	8/26/96	8/26/96	1
09	M6-29151B-2-V		NON-AQ	8/22/96	8/26/96 8/26/96	8/27/96 8/26/96	10
PARAMET		DET. LIMIT	UN	IITS	07 🗸	08 🗸	1
F' 'CL HYD	ROCARBONS, C6-C10 ROCARBONS, C10-C22 ROCARBONS, C22-C36	10 5.0 5.0	MG	K/KG K/KG K/KG	550 510 180	2700 380 110	09 V < 10 < 5.0 5.3
CALCULAT	ED SUM				1200	3200	5.3
SURROGA O-TERPHE SURROGA	NYL (%)	(66 - 151)			116	103	84

CHEMIST NOTES: N/A

American Environmental Network. Inc.

GAS CHROMOTOGRAPHY RESULTS

AEN ID : 608353

TEST

: BTEX, MTBE (EPA 8020)

CLIENT

: PHILIP ENVIRONMENTAL

PROJECT#

: 16256

PROJECT NAME

: MOI PIT REM.

SAMPL	E			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED		ANALYZED	FACTOR
07	M6-29238A-2-V		NON-AQ	8/22/96	8/26/96	8/27/96	10
08	M6-29232A-2-V		NON-AQ	8/22/96	8/26/96	8/27/96	
09	M6-29151B-2-V		NON-AQ	8/22/96	B/26/96	8/27/96	1G 1
PARAM		DET. LIMIT		UNITS	07 V	08 ./	09 🗸
	NE	0.025		MG/KG	< 0.25	0.57	< 0.025
'C .:	NE	0.025		MG/KG	5.0	12	< 0.025
Thill	BENZENE	0.025		MG/KG	4.5	2.4	< 0.025
OTAL	XYLENES	0.025		MG/KG	46	32	< 0.025
AETHY	L-I-BUTYL ETHER	0.13		MG/KG		< 1.3	< 0.025
URRO	GATE:						
	FLUOROBENZENE (9	,			92	130*	89
ONNU	GATE LIMITS	(65 - 120)					

CHEMIST NOTES:

SURROGATE OUTSIDE CONTROL I IMITS DUE TO MATRIX INTERFERENCE.

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

ON-SITE SOIL REMEDIATION REPORT

Operator: Taurus Exploration USA Inc.	Telephone: (505) 325 - 6800
Address: 2198 Bloomfield Hwy, Farming	ton N.M. 87401
Facility or Well Name: <u>Jicarilla 96 – 6A</u>	
Location: Unit or Qtr/Qtr Sec_E_Sec_2	2 T 26 N R 3 W County Rio Arriba
Land Type: Range	
Date Remediation Started: August 22,1996	Date Completed: December 11, 1998
Remediation Method: Landfarmed X	Approx. cubic yards150
Composted	
Other	
Depth to Groundwater: (pts)0	Final Closure Sampling:
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>12/11/98</u> Time: <u>0900</u>
Distance to Nearest Lake, Playa, or Watering Pond (pts)0	Sample Results:
Wellhead Protection Area (pts) 0	Field Headspace (ppm) <u>.6</u> TPH (ppm) <29 Method 8015
Distance to Surface Water (pts)0	TPH (ppm) <29 Method 8015 Other:
RANKING SCORE (TOTAL POINTS): 0	
I HEREBY CERTIFY THAT THE INFORMATION ABO KNOWLEDGE AND BELIEF DATE: 2/1/99 PRINTED NAM	
SIGNATURE Juigh Com	AND TITLE ENV. SPECIALIST
AFTER REVIEW OF THE SOIL REMEDIATION OF THE APPROVED IN ACCORDANCE TO THE JICARILLA A APPROVED: YES X NO (REASON)	
SIGNED: CM DA	ATE: 2-12-99

Size: Pit: Quad: Environmental Specialist : JE Yds: Comments: Soil is moist, light brown, sandy/loam, with no staining or hydrocarbon odor. Reference 95' North from Location: Jicarilla 96 - 6A Township: 5 - Point Composites 150 30' x 50' x 1' wellhead. Separator A sample from composite # 1 was sent to IML for GRO/DRO analysis. 26 N m Range: Section Sample # Location 3 W 10 9 α N Comp 1 0.6 Overview of Landfarm and Sampling: Entrance North Meter Run Dehydrator Pit Tank Landfarm Wellhead Surface Gradient Production Tank 팣 Pit Tank Separator

Taurus Exploration USA Inc.

Date Started: August 22, 1996 Date Completed: December 11, 1998

Ranking Score: 0_Closure Standard: 5000 ppm

Cimarron Oilfield Services

Page 1 of

2506 West Main Street, Farmington, NM 87401



Phone (505) 326-4737 Fax (505) 325-4182

DIESEL RANGE ORGANICS - DRO

ENERGEN RESOURCES

Project ID: Jicarilla 96-6A 12/31/98 Report Date: Sample ID: Landfarm Comp #1 Date Sampled: 12/11/98 Lab ID: 0398G07296 Date Received: 12/11/98 Sample Matrix: Soil Date Analyzed: 12/23/98 Condition: Cool/Intact

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	24	5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Phone (505) 326-4737 Fax (505) 325-4182

GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES

Project ID:

Jicarilla 96-6A

Report Date:

12/31/98

2506 West Main Street, Farmington, NM 87401

Sample ID:

Landfarm Comp #1

Date Sampled:

12/11/98

Lab ID:

0398G07296

Date Received:

12/11/98

Sample Matrix:

Soil

Date Analyzed:

12/30/98*

Condition:

Cool/Intact

######################################		
		 Projectije valentije vergened, develope digere, de of
TPH GAS-RANGE (MOD EPA 80	5) RESULT DETECTION LIMI	
		a B ibasinin na ika-ikan na asasaran ari na ari na ar
		.

Gasoline-Range Petroleum Hydrocarbons

< 5.0

5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

*Sample was analyzed within holding times, however, due to instrument problems and

QC failure, the sample had to be re-analyzed to verify results.

Reported By:



CHAIN OF CUSTODY RECORD

57720	11183 State Hwy. 30 718 College Station, TX 77845 450 Telephone (409) 776-8945	1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	σ	1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	1633 Terra Avenue 1: Sheridan, Wyoming 82801 G Telephone (307) 672-8945 Te
		es, Inc.	Inter-Mountain Laboratories, Inc.	nter-Mounta		<u> </u>
12-11-91/ 1411+	(4) 3. Ja	P. Sla				
Date Time		Received by laboratory: (Signature)	Date Time			Relinquished by: (Signature)
Date Time		Received by: (Signature)	Date Time			Relinquished by: (Signature)
			£1/1/ 36.11-CI		70	Willian Va
Date Time		Received by: (Signature)	Date Time		, ~ ·	Relinquished by: (Signature)
		/				
			(C)			
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Maint delivers	intert Va					
				/		
					/	
						(B) (3)
	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		S .		0900	Land Po. or 1211.42
	5	No. of Contain	Matrix	Lab Number	Time	Sample No./ Identification Date
	Remarks	ners	Chain of Custody Tape No.	Chain of Cu	X X	Sampler: (Signature)
	ANALYSES / PARAMETERS	GA /	Sic. 96-6A		CANC & S	NEISTIN RES
			Project Location	Proj		Client/Project Name