DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

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



OIL CON. DIV.

Pit Remediation and Closure Report

110							
Operator:	Taurus Explorat			(505)	325-6800		
	····2198 Bloomfield	l Hwy, Farmin	gton, NM 87401				
Facility or We		Jicarilla 67-1					
Location:	Unit or Qtr/QTR	Sec "L" Sec	30, T 25 N, R 5 V	N Cour	ıty	Rio Ar	rriba
Pit Type:	Separator:	Pit					
Land Type:	Range					····	
							
Pit Location:	Pit dimensions:	length: 17 ft	width: 17 ft	depth	n: 10 ft		
(Attach Diagra						-	
	Reference:	wellhead: X	other:				
Foota	ge from reference:					•••	
	on from reference:		Degrees	— X East	North		
			Degrees	_ Last	of		
				West		V	
			······································	vvest	South	<u>X</u>	
Depth To Grou	indwater:		Logo than EO for	_	100		
(Vertical distan			Less than 50 fee 50 feet to 99 fee		(20 points) (10 points)		
contaminants to					_		
high water elev		G	Greater than 100 fee) t	(0 points)		0
groundwater)	Cations O						
groundwatery							
Distance to an	Ephemeral Stream	,•	Loop than 100 for	.1	40		
	dry wash greater t		Less than 100 fee		(10 points)		_
ten feet in width		naii G	reater than 100 fee	et.	(0 points)		0
torrioot iii wigg	'/						
Distance to No	arest Laka Blava	or Motorius	1 1 400 f				
	arest Lake, Playa,		Less than 100 fee		(10 points)		
	adient lakes, playa		eater Than 100 fee	et	(0 points)		0
IIVESTOCK OF WIIC	dlife watering pond	s)					
Wellhead Prote	odina A						
			Ye	S ((20 points)		
	feet from a private		No)	(0 points)		0
	source, or less tha						
1000 feet from a	all other water sour	ces)					
Dietance To Co.	face Met						
Distance To Su			Less than 100 fee	,	(20 points)		
	ance to perennial		00 feet to 1000 fee	,	(10 points)		
	vers, streams, cree	ks, Gre	eater than 1000 fee	t	(0 points)		0
rrigation canals	and ditches.)						
_		F	RANKING SCORE	(TOTAL	SCOREY		Λ

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

Pit Remediation and Closure Report

Date Remediation Started:	8/10/98	Date Completed	8/11/98							
Remediation Method:	Excavation:	X	Approx. cubic yaı 82							
(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:	Soil was excava	ted and landfarmed on location.							
Groundwater Encountered:	No: X	Yes:	Depth:							
Final Pit	Sample location	: Pit Bottom @ 10	feet below surface . Pit							
Closure Sampling:	walls were analyzed for Headspace (see attachment).									
(If multiple samples,			- year attackmenty.							
attach sample results										
and diagram of sample	Sample depth:	10 feet								
locations and depths.)	Sample date:	8/11/98	Sample time: 1245							
Sample Results:	•		1245							
Soil:			Water:							
Benzene (ppm)		•	Benzene (ppb)							
Total BTEX (ppm)		•	Toluene (ppb)							
Field Headspace (ppm)		Eth	nylbenzene (ppb)							
TPH (ppm)			tal Xylenes (ppb)							
Groundwater Sample:	Yes:		No: X							
(If yes, attach sample results.)	······································	•	110. //							
			;							
HEREBY CERTIFY THAT TH	E INFORMATIO	N AROVE IS T	PLIE AND COMPLETE TO							
THE BEST OF MY KNOWLED	GE AND BELIE	F	NOL AND COMPLETE TO							
		. '								
DATE: 8/25/98			Frank McDonald							
			Tank Webbilaid							
SIGNATURE Sand	72/1/1	AND TITLE	Env. Division Manager							
· · · · · · · · · · · · · · · · · · ·	- 7 James	AND THEE.	Liv. Division Manager							
AFTER REVIEW OF THE PIT (CLOSURE INE	DRMATION DIT	CLOSUBE IS APPROVED							
N ACCORDANCE TO THE JIC	CARLLA ADAC	HE TRIDE DIT	CLOSURE IS APPROVED							
	ANILLA AFAC	HE INDEPT	CLOSURE ORDINANCE							
APPROVED: Yes: X	No:	(Posson)								
163.	/la	(Reason)								
SIGNED: Lite (7)	a ()		DATE: 9-2-98							

Client: Taurus Exploration U.S.A. Inc.

Date Started: August 10, 1998 Date Completed: August 11, 1998

Pit Profile : North to South : Comments: Top soil - 3' Soil is moist, dark brown, clay/loam with TPH Closure Standard: EPO Ranking Score: Nearest Ephemeral Stream: >1000 Nearest Surface Water: Quad : Nearest Water Source: Depth to Groundwater: Initial Size: 15' x 15' x 3' deep Final Size: 17' x 17' x 10' deep Reference: 30S 50 E Pit : Abandoned Separator Pit Yds. Excavated: 82 cy Range Location: GRO/DRO analysis. 10' Soil Is moist, gray, clay, with no staining or odor.
A sample from the center bottom at 10' was sent to IML for a detectable odor. 3' - 10' Soil is moist, gray, clay, with some intermittent staining and dark gray staining and a strong hydrocarbon odor. 5 from wellhead Jicarilla 67# 19 North Township: Section : ×1000 >1000 5000 >100' 0 Sample # 25 N 7 = ō 30 South S. Wall @ 8' C.Btm. @ 10" N. Wall @ 8' Location / 10ft 24.1 S ₹ # 28.1 18.4 93 Pit Profile : East to West : Overview of Location and Sampling: Fiberglass Pit /Separator Earthen Pit Meter Run Gradient West

Environmental Specialist: VC

Cimarron Oilfield Services

Page 1 of 1

2506 W. Main Street Farmington, New Mexico 87401

GASOLINE RANGE ORGANICS - GRO

Taurus	Exp	loration	U.S.A.	, Inc.
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Project ID: Sample ID: Jicarilla 67-19 Sep. Pit

Report Date:
Date Sampled:

08/24/98

Sample ID
Lab ID:

C.Bottom @ 10' 0398G04485

Date Sampled:

08/11/98

Sample Matrix:

Soil

Date Analyzed:

08/12/98 08/20/98

Condition:

Cool/Intact

TPH GAS-RANGE (MOD EPA 8015) RESULT	

Gasoline-Range Petroleum Hydrocarbons

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:

2506 W. Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID: Jicarilla 67-19 Sep. Pit Report Date: 08/18/98 Sample ID: C. Bottom @ 10' Date Sampled: 08/11/98 Lab ID: 0398G04485 Date Received: 08/12/98 Sample Matrix: Soil Date Analyzed: 08/18/98

Condition: Cool/Intact

SEL-RANGE (MC		DETECTI	

Diesel-Range Petroleum Hydrocarbons

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:



CHAIN OF CUSTODY RECORD

				 	 	 	,			 				
1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	Relinquished by: (Signature)	Relinquished by: (Signature)	Ainquished by:(Signafure)							Jic 67-19 C. Stm 210' 8/11	Sample No./ Identification Da	Sampler: (Signature)	Client/Project Name	Laboratories, Inc.
Inter-Mi 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945)	24:21 86/11/8		Chai	HOW LIGH INC	
Inter-Mountain Laboratories, Cle 2506 West Main Street 1160 g 82718 Farmington, NM 87401 Boz 682-8945 Telephone (505) 326-4737 Tele	71m	Date Time	Date Time 8/12/43 7:10							Soil	mber	Chain of Custody Tape No.	Project Location Sicarilla 67-19	
ies, Inc. 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	Received by laboratory: (Signature)		Received by: (Signature)							***	No. of Contain	iers	separator / A	
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	nawre)		0.00					7 7	7			Rer	ANALYSES / PARAMETERS	
54020	Date Time	Date	1000					LANCE WELL	100			Remarks	₹S	

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, Farmington N.M. 87401											
Facility or Well Name: <u>Jicarilla 67 – 19</u>											
Location: Unit or Qtr/Qtr Sec_L_Sec_	30 T 25 N R 5 W County Sandoval										
Land Type: Range											
Date Remediation Started: 8/10/98 Da	ate Completed: 12/1/98										
Remediation Method: Landfarmed X	Approx. cubic yards82										
Composted											
Other	_										
Depth to Groundwater: (pts) 0	Final Closure Sampling:										
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>12/1/98</u> Time: <u>08:49</u>										
Distance to Nearest Lake, Playa, or Watering Pond (pts)0	Sample Results:										
Wellhead Protection Area (pts) 0	Field Headspace (ppm) 2.1										
Distance to Surface Water (pts)0	TPH (ppm) <15 Method 8015										
RANKING SCORE (TOTAL POINTS): 0	Other:										
I HEREBY CERTIFY THAT THE INFORMATION ABO KNOWLEDGE AND BELIEF	OVE IS TRUE AND COMPLETE TO THE BEST OF MY NAME VIRGIL CHAVEZ										
SIGNATURE In	AND TITLE ENV. SPECIALIST										
AFTER REVIEW OF THE SOIL REMEDIATION INFOR APPROVED IN ACCORDANCE TO THE JICARILLA A APPROVED: YES NO (REASON)	RMATION. ON-SITE SOIL REMEDIATION IS PACHE TRIBE PIT CLOSURE ORDINANCE. BUSKERS BUSKERS										
SIGNED Cha	TE: 1-4-99										

Environmental Specialist : JE Yds: Size: Comments: Pit Quad: Reference 75' N 70 E from Township: Location: Jicarilla 67-19 5 - Point Composites 82 110' x 35' x 1' wellhead. Separator Pit Soil is moist, light gray, clay, with no visible staining or hydrocarbon odor. A sample from composite # 1 was sent to IML for GRO/DRO analysis. 25 N Range Section: Sample # | Location 5 W 10 မ ဖ ω တ Comp 1 MVO 2.1 Overview of Landfarm and Sampling: surface gradient north well head seperator meter run entrance pit tank seperator pit land farm

Client: Taurus Exploration USA Inc.

Date Started: August 10, 1998 Date Completed: December 1, 1998

Ranking Score: 0_Closure Standard: 5000 ppm

Cimarron Oilfield Services

Page _

|- of |-

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

2506 West Main Street, Farmington, NM 87401

GASOLINE RANGE ORGANICS - GRO ENERGEN RESOURCES

Project ID:

Jicarilla 67-19 Landfarm

Sample ID:

Composite #1

Lab ID:

0398G06954

Sample Matrix:

Soil

Condition:

Cool/Intact

Report Date:

12/31/98

Date Sampled:

12/01/98

Date Received:

12/02/98

Date Analyzed:

12/29/98*

TF	H	G/	15-	RAN	VGE (M	OD EPA 8	3015

RESULT

DETECTION LIMIT

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 the holding times, however, due to instrument problems

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

Reported By:

Reviewed By

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

2506 West Main Street, Farmington, NM 87401

DIESEL RANGE ORGANICS - DRO ENERGEN RESOURCES

Project ID:

Jicarilla 67-19 Landfarm

Sample ID:

Composite #1

Lab ID:

0398G06954

Sample Matrix:

Soil

Condition:

Cool/Intact

Report Date:

12/22/98

Date Sampled:

12/0**ฆ่**/9ั8

Date Received:

12/02/98

Date Analyzed:

12/16/98

TPH DIESEL-RANGE (

RESULT

DETECTION LIMIT

Diesel-Range Petroleum Hydrocarbons

10

5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By



CHAIN OF CUSTODY RECORD

1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945			Relinquished by: (Signature)		Relinquished by: (Signature)		lelinquished by: (Signature)									/ †	Sample No./	pampier: (pignature)		Client/Project Name
1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945				ALL C	\sim			-						/			Date Time	100		Tantos Exploration
Circle 2 ning 82718 F. 7) 682-8945 T.	Inter-Mou																Lab Number	Chain		
2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Inter-Mountain Laboratories, Inc.		Date	BL/5*	Date	151718	Date			5							ĕr 	Chain of Custody Tape No.	Justica (a)	Project Location
et 1160 101 Boze	ratories,	P	Time Rec	OPHI	Time Rec	10 11	Time Rec									-	 Matrix	, <u>ē</u>		
1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450		Who (/ mun	Received by laboratory: (Signature)	A THE RESERVE OF THE PARTY OF T	Received by: (Signature)	(me Vince) PA	Received by: (Signature)			/						>	No. of Contain	ers	Ca C	
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945			nature)									Intac-						/ / Re	ANALYSES / PARAMETERS	
50210		1228 14410	Date Time		Date Time		Date Time				THE STATE OF THE S	March	, (4-4			Remarks	:RS	