Denny & Fourt DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

Jicarilla Apache Tribe **Environmental Protection Office** P.O. Box 507



OIL COM. DIV.

AUG 0 9 199	99		J. BOX 507		JUN Z 4 198
<u> </u>	f = f	Dulce, Ne	8 ОП	n 6000 n	
1-1 110/2 8		it Remediatio	n and Closure R] .MOD . Dist. 3
Operator:	Taurus Explor	ation U.S.A., Inc	Telephone:	(505) 325-6800	-
Address:	2198 Bloomfie	d Hwy, Farming	aton. NM 87401	(200) 323-0000	
Facility or Well	Name:	Jicarilla 99-1			
Location:	Unit or Qtr/QTI	R Sec "C" Sec	14, T 26 N, R 3 V	V County	Rio Arriba
Pit Type:	Separator:	Dehydrator:	Other: X - Aban	idoned Separator	
Land Type:	Range				110
Pit Location:	Pit dimensions:	length: 55 ft	width: 30 ft	depth: 20 ft	
(Attach Diagram	٦)			Copuii 20 it	_
	Reference:	wellhead: X	other:		
Footag	e from reference	110			_
Directio	n from reference	30	Degrees X	- CEast North	X
				of	
				West South	
					
Depth To Groun	dwater:		Less than 50 feet	(20 points)	
(Vertical distanc	e from		50 feet to 99 feet	(
contaminants to	seasonal	Gr	eater than 100 feet	(
high water eleva	tions of			(o ponts)	
groundwater)					
Distance to an E	nhemeral Stream	٠.	1 45 400 6		
(Downgradient d			Less than 100 feet	(10 points)	
ten feet in width)		nan Gr	eater than 100 feet	(0 points)	0
,					
Distance to Near	est Lake, Playa,	or Watering	Less than 100 feet	(10 points)	
Pond: (Downgrad	dient lakes, playa		ater Than 100 feet	(0 points)	0
livestock or wildli	fe watering pond	s)		(0 50,110)	
Wellhead Protect	tion Area		Vaa	(00	
(Less than 200 fe			Yes	(20 points)	•
domestic water so			No	(0 points)	0
1000 feet from all					
Distance To Surfa	ace Water	,	on the 400 feet	(00	
Horizontal distan			ess than 100 feet	(20 points)	
akes, ponds, rive			ofeet to 1000 feet	(10 points)	_
rrigation canals a		ino, Grea	ter than 1000 feet	(0 points)_	0
		RA	ANKING SCORE (T	OTAL SCORES	_

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

Pit Remediation and Closure Report

			opon	
Date Remediation Started:	5/21/98	Date Completed	6/29/98	
Remediation Method:	Excavation:	X	Approx. cubic yar	1216
(Check all appropriate	Landfarmed:	X	Insitu Bioremediation	
sections)	Other:			<u></u>
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 excavat	ted and landfarmed or	location
			iou and landiamied of	riocation.
Groundwater Encountered:	No: X	Yes:	Depth:	
Final Pit	Sample location	: North wall was sa	ampled @ 15 feet beld	W surface
Closure Sampling:	Pit bottom and c	other walls were ar	nalyzed for Headspace	ow surface.
(If multiple samples,	below North Wa	ll (see attachment)	and were
attach sample results		<u> </u>	·/·	
and diagram of sample	Sample depth:	20 feet		
locations and depths.)	Sample date:		Sample time:	1040
Sample Results:			Odnipie tittle.	1240
<u>Soil:</u>			Water:	
Benzene (ppm)		•	Benzene (ppb)	
Total BTEX (ppm)		•	Toluene (ppb)	
Field Headspace (ppm)		Ethi	ylbenzene (ppb)	
TPH (ppm)	<57		al Xylenes (ppb)	
Groundwater Sample:	Yes:		No: X	
If yes, attach sample results.)		<u>-</u>	NO. X	
· ·				
HEREBY CERTIFY THAT TH	E INFORMATIC	N AROVE IS TO	DUE AND COMPLET	
THE BEST OF MY KNOWLED	GE AND BELIE	E VPOVE 12 1	KOE AND COMPLE	IF IO
	OL / IIIO DEEIL	.,		
DATE: 7/27/98		r	Frank MaDamald	
		<u>_</u>	Frank McDonald	·
SIGNATURE: / Kar / C	MEDall	AND TITLE: E	Env. Division Mana	
	- 1 2/mild	AND THEE.	-riv. Division iviana	ger
FTER REVIEW OF THE PIT (OSLIBE INEC	DMATION DIT	01.001.105.10.4.555	
N ACCORDANCE TO THE JIC	ARILLA ARAC	UE TRIBE DIT O	CLOSURE IS APPR	OVED
	ANICEA AFAC	HE TRIBE PIT C	LOSURE ORDINAN	ICE
NPPROVED: Yes: 🔀 🔠	No:	(Dansan)		
7.00. / 1	1 0.	(Reason)		
IGNED: Less (W	1.	-	NATE. G 7 - 9	70 1
1,400	10	L	DATE: 9-2-9	0

Quad: Pit Profile : North to South : North Nearest Water Source: Reference: 110' N 30 E Range Comments EPO Ranking Score: Nearest Ephemeral Stream: >1000 Nearest Surface Water: Depth to Groundwater: Final Size: 55' x 30' x 20' deep Initial Size: 10' x 15' x 1' deep Pit: Abandoned Separator Pit TPH Closure Standard: rds. Excavated: 1216 cy ocation: ა **≯** C hydrocarbon odor and minor red staining present from wellhead Sample from bottom sent to IML for GRO/DRO analysis 20' Bedrock 10' to 20' - Soil is brown, clay/shale with a strong Top soil to 10' - Soil is dry, clay/loam, a strong Jicanila 99 # 13 hydrocarbon odor and staining is present. Section : Township: >1000 >1000' ×100' 5000 Sample # 26 Z 히크 14 O 9 œ 5 W. Wall @ 15' S. Wall @ 15' N Wall @ 15 E. Wall @ 15' Bottom @ 20' Location ယ South 62.3 OVM 92.1 29.8 73.4 88 Pit Profile : East to West : East Overview of Location and Sampling Pit Tank Pit Tank 20' Meter Run Wellhead-**1**00 Entrance Separator () Pit Tank S West

Environmental Specialist : VC

Cimarron Oilfield Services

Page 1 of

2506 W. Main Street Farmington, New Mexico 87401

Client:

Taurus Exploration U.S.A., Inc.

Project:

Organics

Sample ID:

Jic 99-13 N. Wall @ 15'

Lab ID:

0398G03762

Matrix:

Soil

Condition:

Cool/Intact

Date Received: 06/30/98

Date Reported: 07/10/98 Date Sampled: 06/29/98

Time Sampled: 1240

		Time Sampled. 1240
Parameter	Analytical Result	Units Units
Diesel Range Organics Diesel Range Organics as Diesel Gasoline Range Organics Gasoline Range Organics as Gasoline	<5 25 52 20	ppm ppm ppm ppm



Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Reviewed By: /



CHAIN OF CUSTODY RECORD

	····																				
1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	֝֝֝֝֝֝֝֡֝֝		Relinquished by: (Signature)	neinduished by: (signature)	Just Cu		linguished by Joines								Jic 99-13 NIDO1015' 6	_	Sample No./	Prige (Share	Sampler: (Signature)	laucus Exploration	Client/Project Name
1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	ì			\rightarrow		1)					1 /				6/29/92 1.	Date	0	12			
lips Circle Vyoming (e (307) 68	=						_					///			12:40	Time				1/5/A Inc	
Ċη	Inter-Mountain Laboratories,										1.				C103762	Lab Number			Chair		
X 2506 Wes Farmingto Telephone	Intain		14		7			-							h	ber			of Custo	Jiera i ila	Project
[X] 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Labo	Date	36	Date	61301 m	Date													Chain of Custody Tape No.		Project Location
eet l01 }-4737	ratori	lime	827	Time	7.15	Time		/							5	Matrix			No.	79-13	
1160 Rese Bozeman, Telephone	es, Inc.	Received		Received	Jan	Received													+	3	
(160 Research Drive 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	•	by laboratory: (Signature)			* Car	by: (Signature									-	No Co	. of ntain	ers	\rightarrow	P.+ /	
e 59718 5-8450		tory: (Sigr		_ ,	This on	ature)									7	P.	15	ORC			
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945		nature)	,																	ANALYSES / PARAMETERS	
30 (77845 ⁷ 6-8945						-				1		7		//=			76	- Ra		RAMETE	
5 7		Date		Date	12/20/	Date				2	1		11)				2	Remarks		RS	
54527	Į,	Time		Time	00 71/5	Time													•		:

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Taurus Exploration USA Inc.</u>	Telephone: (505) 325 - 6800									
Address: 2198 Bloomfield Hwy, Farming	· 									
Facility or Well Name: <u>Jicarilla 99-13</u>										
Location: Unit or Qtr/Qtr Sec_C_Sec_	14 T 26 N R 3 W County Rio Arriba									
Land Type: Range										
Date Remediation Started: 5/21/98 D	ate Completed: 11/25/98									
Remediation Method: Landfarmed X										
Composted	_									
Other										
Depth to Groundwater: (pts) 0	Final Closure Sampling:									
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>11/25/98</u> Time: <u>11:45</u>									
Distance to Nearest Lake, Playa, or Watering Pond (pts)0	Sample Results:									
Wellhead Protection Area (pts)0	Field Headspace (ppm) 33									
Distance to Surface Water (pts)0	TPH (ppm) <20 Method 8015 Other:									
RANKING SCORE (TOTAL POINTS): 0	Other.									
HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE: 1/11/98 PRINTED NAME VIRGIL CHAVEZ										
SIGNATURE / M	AND TITLE ENV. SPECIALIST									
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YESNO (REASON) COL RESOLVED.										
IGNED: 1-20-99										

Client: _

Taurus Exploration USA Inc.

Date Started: May 21, 1998 Date Completed: November 25, 1998

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

2506 West Main Street, Farmington, NM 87401

GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES

Project ID:

Jicarilla 99-13

Sample ID:

Landfarm Sep. Pit Comp #5

Lab ID:

0398G06934

Sample Matrix:

Soil

Condition:

Cool/Intact

Report Date:

12/31/98

Date Sampled:

11/25/98

Date Received:

12/02/98

Date Analyzed:

12/29/98*

TPH GAS-RANG		

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 withing the holding times, however, due to instrument problems

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

Reported 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 99-13

Sample ID:

Landfarm Sep. Pit Comp #5

Lab ID:

0398G06934

Sample Matrix:

Soil

Condition:

Cool/Intact

Report Date:

12/31/98

Date Sampled:

11/25/98

Date Received:

12/01/98

Date Analyzed:

12/16/98

TPH DIESE	L-RA	MGE	(Me)D) =	PA 80	15)

RESULT

DETECTION LIMIT

Diesel-Range Petroleum Hydrocarbons

15

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)		Relinguished by: (Signature)	Helinquished by: (Signature)							TO THE	Constitution, and a second	Sample No./	Sampler: (Signature)	Entre State	Client/Project Name
Inter-N 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945		(A. I.)	,	170									24/ 24-50	Date Time	7	TEST CODES	1
Mo		Date	Date	25-22 11	Date									Lab Number	Chain of Custody Tape No.	- C	Project Location
Untain Laboratories,		Time	Time	07/2	Time							-	-	Matrix	Tape No.	17.12	cation
S, Inc. 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	Source of the so	Received by Jahorstory: (Signature)	Received by: (Signature)	illa Care / hear	Received by: (Signature)								- X	No. of Containe			
				dick or	-							•				ANALYSES / PARAMETERS	
	Date		Dane	B/30/	Date		j.						-		Remarks	RAMETERS	
-	lime	+	Time	102 100 1	Time	-				1000							

3.3