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CHENTY OIL & GAS INSTECTION

AUG 0 9 1999

High Tovel

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



OIL CON. DIV.

Pit Remediation and Closure Report

Óperator:	Taurus Explorat	on U.S.A., Inc	c Telephone:	(505) 325-6800						
Address:	2198 Bloomfield	Hwy, Farmin	gton, NM 87401							
Facility or Well I	Name:	Jicarilla 126	S#2	# 2						
Location:	Unit or Qtr/QTR	Sec "C" Sec	1, T 24 N, R 4 W	County	Rio Arriba					
Pit Type:	Separator:	Dehydrator:	Other: X - Aban	Pit						
Land Type:	Range									
Pit Location:	Pit dimensions:	length: 22 ft	width: 22 ft	depth: 15 ft						
(Attach Diagram)				-					
	Reference:	wellhead: X	other:							
Footag	e from reference:	13 feet			_					
Directio	n from reference:	45	Degrees >	East North	X					
				of						
				West South						
Depth To Groun	dwater:		Less than 50 fee	t (20 points))					
(Vertical distanc	e from		50 feet to 99 fee	t (10 points))					
contaminants to	seasonal	C	Greater than 100 fee	t (0 points))0					
high water eleva	itions of									
groundwater)										
Distance to an E	phemeral Stream	1:	Less than 100 fee	t (10 points))					
(Downgradient o	lry wash greater t	han G	Greater than 100 fee	t (0 points))0					
ten feet in width)									
Distance to Nea	rest Lake, Playa,	or Watering	Less than 100 fee	t (10 points))					
Pond: (Downgra	dient lakes, playa	is, and G	reater Than 100 fee	t (0 points)	0					
livestock or wild	ife watering pond	is)								
Weilhead Protect	ction Area:		Yes	(20 points))					
(Less than 200 f	eet from a private)	No	(0 points)	0					
domestic water :	source, or less tha	an								
1000 feet from a	II other water sou	rces)								
Distance To Sur	face Water:		Less than 100 feet	t (20 points))					
(nce to perennial		100 feet to 1000 feet	t (10 points))					
lakes, ponds, riv	ers, streams, cre	eks, Gr	eater than 1000 fee	t (0 points)	0					
irrigation canals	and ditches.)									
			RANKING SCORE	(TOTAL SCORE):	: 0					

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

Pit Remediation and Closure Report

Date Remediation Started:	9/23/98	Date Completed	d 9/24/98	
Remediation Method:	Excavation:	X	Approx. cubic yard	s: 260
(Check all appropriate	Landfarmed:	X	Insitu Bioremediati	on:
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	ated and landfarmed	on location.
Groundwater Encountered:	No: X	Yes:	Depth:	
Final Pit	Sample location	: West wall @ 13	feet below surface .	Pit Bottom &
Closure Sampling:			ace (see attachment)	
(If multiple samples,		•	<u> </u>	
attach sample results				
and diagram of sample	Sample depth:	13 feet		
locations and depths.)	Sample date:	9/24/98	Sample time:	1510
Sample Results:	•		- ' 	
Soil:			Water:	
Benzene (ppm)	ND	-	Benzene (ppb)	
Total BTEX (ppm)	ND	-	Toluene (ppb)	
Field Headspace (ppm)	190	- Et	thylbenzene (ppb)	
TPH (ppm)	35		otal Xylenes (ppb)	
Groundwater Sample:	Yes:	•	No: X	
(If yes, attach sample results.)		•	·	
I HEREBY CERTIFY THAT TH	E INFORMATIO	ON ABOVE IS 1	TRUE AND COMP	LETE TO
THE BEST OF MY KNOWLED				
DATE: 10/16/98			Frank McDonald	I
121	, 12 , .			
SIGNATURE! hand !!!	2/ Just of	AND TITLE:	Env. Division Ma	anager
	7			
AFTER REVIEW OF THE PIT	CLOSURE INF	ORMATION PI	T CLOSURE IS AF	PROVED
IN ACCORDANCE TO THE JI				
APPROVED: Yes: X	No:	(Reason)		
		7		
SIGNED:	Manh	K	DATE: 10 27	198

Pit Profile: North to South: Comments: Top soil - 15' Soil is moist dark brown, loam with dark Pit: Abardoned Separator Pit Reference: 13' N 45 E Quad: Hange : Depth to Groundwater: TPH Obsure Standard: EPO Ranking Score: Nearest Ephemeral Stream: 150' Nearest Surface Water: Final Size: 22' x 22' x 15' deep Initial Size: 15' x 15' x 1' deep Vearest Water Source: rds. Excavated: 260 cy ocation : North from wellhead **4** ₹ ဂ Jicarilla 126 S # 2 for GRO/DRO and BTEX analysis. A sample from the west wall @ 13 was sent to IML The entire pit was sprayed with liquid fertilizer. Excavation of west wall was limited due to separator. hydrocarbon staining and a strong cdor. Township: Section: ×1000' >1000′ 88 0 Sample # 24 X ..<u>.</u> õ 9 Ø) E Well @ 13' Bottom @ 15' S Wall @ 13' N. Wall @ 13" Location South 190 30.6 MAD 82 Pit Profile : East to West : Overview of Location and Sampling: East ġ ω Separator Pit Surface Gradient 、 West

Environmental Specialist: YC

Cimarron Oilfield Services

Page __i__oi__i_

2506 W. Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 126S #2 Sep. Pit

Sample ID: Lab ID:

W. Wall @ 13' 0398G05607

Sample Matrix:

Condition:

Soil

Cool/Intact

Report Date:

Date Sampled:

10/13/98 09/24/98

Date Received:

09/25/98

Date Analyzed:

10/08/98

Diesel-Range Petroleum Hydrocarbons

30

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

2506 W. Main Street Farmington, New Mexico 87401

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 126S #2 Sep. Pit

Sample ID: Lab ID:

W. Wall @ 13' 0398G05607

Cool/Intact

Sample Matrix:

Soil

Condition:

Report Date:

10/13/98

Date Sampled: Date Received: 09/24/98

09/25/98

Date Analyzed:

10/06/98

Gasoline-Range Petroleum Hydrocarhons	45 0	5.0 — - II -
	RESULT	DETECTION LIMIT
TPH GAS-RANGE (MOD EPA 8015)	Displaying Education	2
	The second contract of	
	920000000000000000000000000000000000000	

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

VOLATILE AROMATIC HYDROCARBONS

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 126S #2 Sep. Pit

Sample ID:

Lab ID:

W. Wall @ 13'

Cool/Intact

Sample Matrix:

Soil

Condition:

Report Date:

10/07/98

0398G05607

Date Sampled: Time Sampled:

09/24/98 3:10pm

Date Received: Date Extracted: 09/25/98

Date Analyzed:

NA 10/06/98

Target Analyte	Concentration (1111b)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	50.0
Ethylbenzene	ND	50.0
m,p-Xylenes	ND	50.0
o-Xylene	ND	50.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Bromofluorobenzene

85%

70%-130%

Reference:

Method 5030, Purge and Trap; Method 8021B, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental

Protection Agency, Revision 2, December, 1996.

Comments:



CHAIN OF CUSTODY RECORD



51072	22.4	11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945		Drive tana 50	S, INC. 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	oratorie	Untain Laborato 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	<u>S</u>	Inter-N 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945		1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	
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	TO:	ANALYSES / PARAMETERS	ANA		P. P. T	1265#2 5	Trevilla 126		115th Inc	c h'en	Tourus Explox	Ţ
	Ó						Project Location	Proje			Client/Project Name	
		(Laboratories, inc.	,

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

ON-SITE SOIL REMEDIATION REPORT

Operator: 1 aurus Exploration USA Inc. 1 elephone: (505) 325 - 6800									
Address: 2198 Bloomfield Hwy, Farming	ton N.M. 87401								
Facility or Well Name: <u>Jicarilla 126S # 2</u>									
Location: Unit or Qtr/Qtr Sec_C_Sec_	T 24 N R 4 W County Rio Arriba								
Land Type: Range									
Date Remediation Started: 9/23/98 Da	te Completed: 12/1/98								
Remediation Method: Landfarmed X	Approx. cubic yards260								
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>14:40</u>								
Distance to Nearest Lake,	Sample Results:								
Playa, or Watering Pond (pts)0	Field Headspace (ppm) 10.1								
Wellhead Protection Area (pts) 0	TPH (ppm) <10 Method 8015								
Distance to Surface Water (pts)0	Other:								
RANKING SCORE (TOTAL POINTS): 0	Other.								
I HEREBY CERTIFY THAT THE INFORMATION ABOUNDEDGE AND BELIEF DATE: 1/6/99 PRINTED NA	VE IS TRUE AND COMPLETE TO THE BEST OF MY AME VIRGIL CHAVEZ								
SIGNATURE Jul Co	AND TITLE ENV. SPECIALIST								
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION APPROVED IN ACCORDANCE TO THE JICARILLA APPROVED: YES NO (REASON)	1 /								
SIGNED! C DA	TE: 1-1)-99								

Client: Taurus Exploration USA Inc.

Date Started: September 23, 1998 Date Completed: December 1, 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 126S #2 Landfarm

Sample ID:

Composite #2 0398G06961

Cool/Intact

Lab ID: Sample Matrix:

Condition:

Soil

Report Date:

Date Sampled: Date Received:

12/02/98

Date Analyzed:

12/29/98*

TPH GAS-F	RANGE (I	MOD EF	A 801	5)
Gasoline-Ra	ange Petr	oleum F	lydrocs	rhone

RESULT

DETECTION LIMIT

oline-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.

2506 West Main Street, Farmington, NM 87401

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

DIESEL RANGE ORGANICS - DRO

ENERGEN RESOURCES

Project ID: Sample ID: Jicarilla 126S #2 Landfarm

Composite #2

Lab ID:

0398G06961

Sample Matrix:

Soil

Report Date:

Date Sampled:

Date Received: Date Analyzed: 12/02/98 12/16/98

Condition:

Cool/Intact

RESULT

DETECTION LIMIT

TPH DIESEL-RANGE (MOD EPA 8015) 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 1 Sheridan, Wyoming 82801 G Telephone (307) 672-8945 T)		Relinguished by: (Signature)	Relinquisped by: (Signature)	The S	Relinquished by: (Signature)									(C) 11 (C) (C) # (C) (C) (C)	Sample No./ Identification Date	Sampler: (Signature)	Client/Project Name	
[] 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945													/		100	Time	- NO.	CAIRCE -	
	er-Mountair						,					/				Lab Number	Chain of Custody Tape No.	Explain Project Location	
(X) 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Inter-Mountain Laboratories, Inc.	Date	16	Date Time	12/3/19 14:00	Date Time				C/2						Matrix	ody Tape No.	Incording 1365 #2	
1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	es, Inc.	Received by laboratory: (Signature)	and the second s	Received by: (Signature)	Home Kaund Incl.	Received by: (Signature)									×	No. of Contain		() (() () () () ()	
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945		gnature)				- Control of the Cont					in lar-						Re	ANALYSES / PARAMETERS	
58209		Date Time		Date Time	19/3/96/1-100	Date Time				-	Jam Joliveix						Remarks	RS	