Denny & Fourt DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

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



N. DIV.

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1111000	recit Pit	Remediatio	n and Closure Re	port		ં જો	
operator:	Taurus Explorat	on U.S.A., Inc	Telephone:	(505)	325-6800		
Address:	2198 Bloomfield	Hwy, Farming	ton, NM 87401				
Facility or Well	Name:	Jicarilla 107 F	# 1				
Location:	Unit or Qtr/QTR	Sec "P" Sec	27, T 26 N, R 4 W	Count	ty	Rio Amib	a
Pit Type:	Separator:	Dehydrator:	Other: X - Produ	ction T	ank Pit		
Land Type:	Range						
Pit Location:	Pit dimensions:	length:20 ft	width: 20 ft	depth	: 3 ft	_	
(Attach Diagrar	n)					-	
	Reference:	wellhead: X	other:			_	
Foota	ge from reference:	63 feet				-	
Directi	on from reference:	70	Degrees X	East	North	X	
					of		
				West	South		
Depth To Grou	ndwater:		Less than 50 feet	-	(20 points)	-	
(Vertical distan	ce from		50 feet to 99 feet		(10 points)		
contaminants to	seasonal	G	Greater than 100 feet		(0 points)	0	
high water elev	ations of						
groundwater)							
Distance to an I	Ephemeral Stream	n:	Less than 100 feet		(10 points)		
(Downgradient	dry wash greater ti	han G	Freater than 100 feet		(0 points)	0	
ten feet in width	1)						
Distance to Nea	arest Lake, Playa,	or Watering	Less than 100 feet		(10 points)		
Pond: (Downgra	adient lakes, playa	s, and G	reater Than 100 feet		(0 points)	0	
livestock or wik	dlife watering pond	s)					
Mallhaad Drota	ation Aroo:		Yes		(20 points)		
Wellhead Prote			No		(20 points)	_	
•	feet from a private		140		(0 points)		
	source, or less the						
TOOU TEEL HOIN	all other water sou	11003)					
Distance To Su	rface Water:		Less than 100 feet		(20 points)		
	ance to perennial	•	100 feet to 1000 feet		(10 points)		
1`	vers, streams, cre	eks, Gr	eater than 1000 feet		(0 points)	_	!
imination canals		•			,		

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

Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started:	7/9/98	Date Completed	7/17/98	
Remediation Method:	Excavation:	X	Approx. cubic yaı_	27
(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)				Ì
General Description of Remedial	Action:	Soil was excavat	ed and landfarmed or	n location.
Groundwater Encountered:	No: X	Yes:	Depth:	
Final Pit	Sample location	: Pit Bottom @ 3 fe	eet below surface (Be	drock). Pit
Closure Sampling:	walls were analy	zed for Headspac	ce (see attachment).	
(If multiple samples,				
attach sample results				
and diagram of sample	Sample depth:	3 feet(Bedrock)		
locations and depths.)	Sample date:	7/20/98	Sample time:	1020
Sample Results:				
<u>Soil:</u>			Water:	
Benzene (ppm)		•	Benzene (ppb)	
Total BTEX (ppm)		_	Toluene (ppb)	
Field Headspace (ppm)	3	Eth	nylbenzene (ppb)	
TPH (ppm)	<30	Tot	tal Xylenes (ppb)	
Groundwater Sample:	Yes:	_	No: X	
(If yes, attach sample results.)		•		
HEREBY CERTIFY THAT TH THE BEST OF MY KNOWLED			RUE AND COMPLE	TE TO
DATE: 8/25/98			Frank McDonald	l l
SIGNATURE In af	MS Pall	AND TITLE:	Env. Division Man	ager
	' /			
AFTER REVIEW OF THE PIT IN ACCORDANCE TO THE JIC				II.
APPROVED: Yes: X	No:	(Reason)		
SIGNED: Kence 77	1a-V	· i	DATE: 9-2	-98

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

Date Started: ____July 9, 1998 Date Completed: ____July 17, 1998 __

/Bedracky / / 10.ft	Bed	10 ft		// Bédrócjx/
4	L		2	
West	Pit Profile : East to West :	South	_	Pit Profile: North to South:
······································		Was sent to IML	Collon & S	for GRO/DRO analysis.
				3' - Bedrock encountered
TT 40		ng.	visible stainh	hydrocarbon odor, and no visible staining.
		with a slight	sandy/loam, v	Comments: Top soll - 3' Soil is moist, sandy/loam, with a slight
			12	
	Wellhead		11	TPH Closure Standard: 5000
****	(10	EPO Ranking Score: 0
	<u></u>		9	Nearest Ephemeral Stream: >1000'
	_		8	Nearest Surface Water: >1000'
המושוו דונ			7	Nearest Water Source: >1000'
		1	B	Depth to Groundwater: >100'
	1	\dashv	5 Bot	Yds. Excavated: 27 cy
-		W Welf @ 2 0.3	4	Final Size : 20' x 20' x 3' deep
		E. Wall @ 2" 1	3 E.	Initial Size: 15' x 15' x 2' deep
•	- 1		2 s. ı	from wellhead
		-		Reference: 63'N 70 E
Cadicin	1_	ocation OVM	Sample #	Pit: Production Tank Pit
Gradient 1/V				
Surface N			X	Range: 3W Township:
	/20 ft		27	Quad : P Section :
	1			Location: Jicarilla 107 F # 1
npling:	Overview of Location and Sampling			

Environmental Specialist : VC

Cimarron Oilfield Services

Page 1 of 1

2506 W Main Street Farmington, New Mexico 87401

07/30/98

07/17/98

07/21/98

07/29/98

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Jicarilla 107F #1 Prod. Tank Pit Report Date: Project ID: Date Sampled: Sample ID: C. Bottom @ 3' Date Received: 0398G04067 Lab ID: Date Analyzed:

Cool/Intact Condition:

Sample Matrix:

Soil

	PESIOT DETECTION LIMIT	
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:

2506 W. Main Street Farmington, New Mexico 87401

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 107F #1 Prod. Tank Pit

Sample ID: Lab ID:

C. Bottom @ 3' 0398G04067

Sample Matrix:

Soil

Total Volatile Petroleum Hydrocarbons

Condition:

Cool/intact

Report Date:
Date Sampled:

07/30/98 07/17/98

Date Received:

07/21/98

Date Analyzed:

07/29/98

5.0 mg/kg

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	25	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

43

Reference:

Comments:

Reported By:

Reviewed By:



CHAIN OF CUSTODY RECORD

	<u> </u>				-		-			T								-	\neg	,		S	C	
1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945			Relinquished by: (Signature)		Relinquished by: (Signature)	W. W.	elinquished by: (Signature)													J. C. 119 FA COM. 5. 7	Sample No./	Sampler: (Signature)	ClientyProject Name	
				$\mathcal{D} \cup \mathcal{A}$	م م	N	1		-											7/20/18 .	Date		his !	
1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	-								-											02.01	Time		of Inc	
e 82718 82-8945	Inter-Mountain Laboratories, Inc.							*								i i					Lab Number	Chain	i	
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D Street Main Street 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	aho	!	Date		Date	7/2/48	Date													17	7	Chain of Custody Tape No.	The 10	
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earch Drive , Montana 59718 e (406) 586-8450		**************************************	by laboratory: (Signature)		by: (Signature)	auch	by: (Signature)				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\									-	No. of Contain		2 2	1
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11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945		100			-		-	 		-1												R	ANALYSES / PARAMETERS	
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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	ton N.M. 87401
Facility or Well Name: <u>Jicarilla 107 F # 1</u>	•
Location: Unit or Qtr/Qtr Sec_P_Sec_2	27 T 26 N R 4 W County Rio Arriba
Land Type: Range	
Date Remediation Started: July 9,1998	Date Completed: November 5, 1998
Remediation Method: Landfarmed X	Approx. cubic yards27
Composed	_
Other	
Depth to Groundwater: (pts) 0	Final Closure Sampling:
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>11/5/98</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)8 TPH (ppm) 63 Method 8015
Distance to Surface Water (pts)0	TPH (ppm) <u>63</u> Method <u>8015</u> Other:
RANKING SCORE (TOTAL POINTS): 0	
I HEREBY CERTIFY THAT THE INFORMATION ABO KNOWLEDGE AND BELIEF DATE: 12/7/98 PRINTED NA	OVE IS TRUE AND COMPLETE TO THE BEST OF MY AMEFRANK MCDONALD
SIGNATURE Vand MS Dull	AND TITLE ENV. DIVISION MANAGER
AFTER REVIEW OF THE SOIL REMEDIATION INFOR APPROVED IN ACCORDANCE TO THE JICARILLA A APPROVED: YES NO (REASON)	APACHE TRIBE PIT CLOSURE ORDENANCE.
11 1500	ATE: 12-9-98

Date Started : 11/5/98 Date Completed : 11/5/98

		Overview of Landfarm and Sampling :
Location: Jicarilla 107 F # 1		
Quad: P Section:	27	Earthen FI t
Township: 26 N Range:	4 W	
Pit: Production Tank Pit	Sample # Location OVM	Well head
Reference: 110 ft N 34 E	2	
from wellhead	သ	
Size: 20' X 15' X 0.75'	4	Landfarm
	5	
	o	•
rus: 2/ cubic yards	8	I
	9	
1 - 5 Point Composites	10	
	-1	
	12	
		North
		Surf ace Gradient
Comments : Soil is light brown -	Soil is light brown - Clay Ioam No staining or odor	
1 - 5 point	 5 point composite samples analyzed by headspace. 	headspace. Sample # 1 sent to IML for 8015 analysis
Environmental Specialist :	JE	

2506 W Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

TAURUS EXPLORATION

Project ID:

Jicarilla 107-1 Landfarm

11/20/98

Sample ID:

5-Point Composite

Report Date: Date Sampled:

Lab ID:

0398G06598

11/05/98 11/06/98

Sample Matrix:

Soil

Date Received: Date Analyzed:

11/17/98

Condition:

Cool/Intact

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	8	5.0 mg/Kg
Total Extractable Hydrocarbons	8	5.0 mg/Kg

Surrogate	% Recovery	Limits
o-Terphenyl	59%*	70-130%

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

*Surrogate recovery failed to meet established QC limits due to matrix interfernces.

Reported By:

Reviewed By:

GASOLINE RANGE ORGANICS - GRO

TAURUS EXPLORATION

Project ID:

Jicarilla 107-1 Landfarm

11/20/98

Sample ID:

5-Point Composite

Report Date:

Lab ID:

0398G06598

Date Sampled: 11/05/98 Date Received: 11/06/98

Sample Matrix:

Soil

Date Analyzed:

11/11/98

Condition:

Cool/Intact

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	55	5.0 mg/Kg
Total Purgeable Hydrocarbons	55	5.0 mg/Kg

Surrogate	% Recovery	Limits
Bromofluorobenzene	104%	70-130%

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	nemquisited by: (signature)		Relinquished by: (Signature)	Relinguished by: (Signature)								Ju 109-1 5 post on 1	Sample No./	Sampler: (Signature)	Client/Project Name
1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945												11/5/8/ 11:45	Date Time		Cabon USA I
ter-Wountai													Lab Number	Chain of Cust	Two Trage
THEF-IVIOUTILAIN LADOFATORIES, INC.	Date Time	Caro	م	-								1:0	Matrix		Project Location
Ies, Inc.	Received by laboratory: (Signature)	neceived by: (Signature)					/					- 7	No. of Containe	ers	107-1 Land Gran
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	Signature)														ANALYSES / PARAMETERS
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