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

Or	perator:	Taurus Explorat	on U.S.A	., Inc	Telephone:	:	(505)	325-6800		
Ac	dress:	2198 Bloomfield	Hwy, Fa	rmingto	on, NM 87401					
Fa	cility or Well N	Name:	Jicarilla	95-4 A						
Lo	cation:	Unit or Qtr/QTR	Sec "D"	Sec 2	26, T 27 N, R	3 W	Count	у	Rio	Arriba
Pit	t Type:	Separator:	Dehydra	itor:	Other: X - A	Aband	ioned :	Separator I	Pit	
La	ind Type:	Range				* **				
Pit	t Location:	Pit dimensions:	length: 3	30 ft	width: 40 ft		depth:	10 ft		
(A	ttach Diagram)								
		Reference:	wellhead	d: X	other:				-	
	_	from reference:								
	Direction	n from reference:	5	5	Degrees		East	North	<u>X</u>	
						~	West	of South		
					·····	^	4469(South		
De	pth To Ground	dwater:			Less than 50) feet	((20 points)		
И	ertical distance				50 feet to 99			(10 points)		
CO	ntaminants to	seasonal		Gre	ater than 100) feet	`	(0 points)		0
hig	gh water elevat	tions of						. ,		
gro	oundwater)									
Dis	stance to an E	phemeral Stream	:	i	ess than 100) feet	(10 points)		
(D	owngradient di	ry wash greater t	nan	Gre	ater than 100) feet	·	(0 points)		0
ter	n feet in width)									
Dis	stance to Near	est Lake, Playa,	or Water	ing L	ess than 100.) feet	(10 points)		
ш		dient lakes, playa		-			`	(0 points)		0
11	,	fe watering pond	•					. ,		
We	ellhead Protec	tion Area:				Yes	ĺ	20 points)		
ĸ		et from a private				No	,	(0 points)		0
11		ource, or less tha						(2 230.00)		·
11		l other water sou								
Dis	stance To Surf	ace Water:		Ł	ess than 100.	feet	l	20 points)	٠	
11		nce to perennial) feet to 1000		•	10 points)		
		ers, streams, cree	eks,		ter than 1000		`	(0 points)		0
ll .	gation canals a		•							-
	-	•		R/	ANKING SCO	RE (1	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:	7/23/98	Date Completed	7/24/98
Remediation Method:	Excavation:	X	Approx. cubic yaı 415
(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	ited 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 analy	zed for Headspa	ce (see attachment).
(If multiple samples,			
attach sample results			
and diagram of sample	Sample depth:	10 feet	
locations and depths.)	Sample date:	7/23/98	Sample time: 1040
Sample Results:	•		•
Soil:			Water:
Benzene (ppm)	ND	-	Benzene (ppb)
Total BTEX (ppm)	ND	_	Toluene (ppb)
Field Headspace (ppm)		- Eti	hylbenzene (ppb)
TPH (ppm)	28	 -	ital Xylenes (ppb)
Groundwater Sample:	Yes:	-	No: X
(If yes, attach sample results.)		•	
I HEREBY CERTIFY THAT TH THE BEST OF MY KNOWLED			RUE AND COMPLETE TO
DATE: 8/26/98			Frank McDonald
SIGNATURE: Jant /	1/3/)~//	AND TITLE:	Env. Division Manager
AFTER DEVIEW OF THE BUT	21 221425 1145		
AFTER REVIEW OF THE PIT IN ACCORDANCE TO THE JI			
APPROVED: Yes: X	No:	(Reason)	
SIGNED: XXXX 7	Ma-A	Y)	DATE: 9-2-98

Pit Profile : North to South : Comments: Top soil - 6' Soil is moist, brown, clay/loam, with heavy TPH Closure Standard: EPO Ranking Score: Depth to Groundwater: Final Size: 30' x 40' x 10' deep Reference: 75'N 5 W Nearest Surface Water: Nearest Water Source: Yds. Excavated: 415 cy Range: Qued: Nearest Ephemeral Stream: >1000 Initial Size: 20' x 20' x 2' desp Pit: Abandoned Separator Pit center bottom was sent to IML for GRO/DRO and BTEX analysis. directions due to surface equipment/boundries. A sample from the very light staining and a slight odor. Excavation was limited in all 6' - 10' Soil is moist, clay/loam with light gray staining and a slight HC odor. 10' - 12' (Along East wail) Soil is moist, clay/loam with black/gray staining and a strong HC odor. ocation : 3₩ D Jicarilla 95 # 4A from welthead Township: Section >1000 >100° 5000 0 Sample # 27 N 2 Ø = 5 8 W. Wall @ 4" Bottom @ 10" 8 DIM. S N. West Q 8 E. Wall @ 8' Location South 1017 15¥ **M** 5.3 54 721 Pit Profile : East to West : Overview of Location and Sampling: East - Production Tank Pit Tank Earthen Pit Surface Gradient Wellhead and Pit Tank To Meter Run, Dehydrator, Separator: Entrance Road Pit Tank West 46#1

Client:

Taurus Exploration U.S.A. Inc.

Date Started: July 23, 1998 Date Completed:

July 24, 1998 .

Environmental Specialist: VC

Cimarron Oilfield Services

Page 1 of 1

Total Volatile Petroleum Hydrocarbons

5.0 mg/kg

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:	Jicarilla 95-4A Sep. Pit	Report Date:	07/30/98
Sample ID:	C. Bottom @ 10'	Date Sampled:	07/23/98
Lab ID:	0398G04174	Date Received:	07/24/98
Sample Matrix:	Soil	Date Analyzed:	07/29/98
Condition:	Cool/Intact	•	

		DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	21	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

42

Reference:

Comments:

Reported By:

Reviewed By

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID:	Jicarilla 95-4A Sep. Pit	Report Date:	07/30/98
Sample ID:	C Bottom @ 10'	Date Sampled:	07/23/98
Lab ID:	0398G04174	Date Received:	07/24/98
Sample Matrix:	Soil	Date Analyzed:	07/30/98

Condition: Cool/Intact

TPH DIESEL-RANGE (MOD EPA 8015)		DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	6.6	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 95-4A Sep. Pit

Report Date: 07/30/98

Sample ID:

C. Bottom @ 10'

Date Sampled: 07/23/98

Lab ID:

0398G04174

Time Sampled: 10:40

Sample Matrix:

Soil

Date Received: 07/24/98

Condition: Cool/Intact

Date Extracted: NA
Date Analyzed: 07/29/98

Target Analyte	Concentration (ppb)	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

N/A

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:

N/A=Data not available.

Analvšt

Review



CHAIN OF CUSTODY RECORD

1633 Terra Avenue 1633 Terra Avenue 1 Sheridan, Wyoming 82801 Telephone (307) 672-8945		Relinquished by: (Signature)	Mary Comment	Relinquished by: (Signature)	Just Cilles	elinquished by: (Signature)										Jr 95-4A (Rtuon' 7/20/49	Sample No./ Identification Date	Sampler; (Signature) Multi- M	Client/Project Name Tourns Exployation
Inter-N 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945															1 -	10.40	Time		1 Ich Ive
Inter-Mountain Laboratories, Inc X		Date	1.24 18	Date	7/24/8	Date						/					Lab Number	Chain of Custody Tape No.	Project Location Tica (; 14)
aboratories, in Street in 87401 in 87401 in 326-4737 Tel		Time	18 C324	Time	18 07:15	Time							, , ,	7.00	7011	().	Matrix	ape No.	44-56
S, Inc. 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	Chais!	Received by laboratory: (Signature		Received by: (Signature)	mille	Received by: (Signature)			/			_			1	1	No. of Contain		Sepurator
11183 State Hwy. 30 11083 State Hwy. 30 18 College Station, TX 77845 Telephone (409) 776-8945	May man)	(Signature))	-		/								``	1	8015 612 8020 BTE	DRO	ANALYSES / PARAMETERS
54542 5-8945	7-14-87 08	Date Time		Date Time	7248 775	Date Time		hand de livera	cool intect									Remarks	AMETERS

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	ton N.M. 87401					
Facility or Well Name: <u>Jicarilla 95-4A</u>						
Location: Unit or Qtr/Qtr Sec_D_Sec_2	26 T 27 N R 3 W County Rio Arriba					
Land Type: Range						
Date Remediation Started: July 23,1998	Date Completed: November 13, 1998					
Remediation Method: Landfarmed X	Approx. cubic yards 415					
Composted	_					
Other	_					
Depth to Groundwater: (pts)0	Final Closure Sampling:					
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>11/13/98</u> Time: <u>0845</u>					
Distance to Nearest Lake,	Sample Results:					
Playa, or Watering Pond (pts)0	Field Headspace (ppm) 3.6					
Wellhead Protection Area (pts)0	TPH (ppm) <10 Method 8015					
Distance to Surface Water (pts) 0	(11)					
RANKING SCORE (TOTAL POINTS): 0	Other:					
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE: 12/8/98 PRINTED NAME FRANK MCDONALD						
SIGNATURE AND TITLE ENV. DIVISION MANAGER						
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE APPROVED: YES NO (REASON). USO OS BOZI (L. C.)						
SIGNED: 12-28-98						

	Overview of Landfarm and Sampling :
l ocation · Jicarilla 95 # 4 A	
1 1	26 Surface Gradient
Township: 27 N Range:	3 W
Pit: Separator	Sample # Location OVM Pyt Tank
	Comp 1 2.4
Reference: 60 ft S	
from wellhead	Comp 3 1.8
Size: 100' X 45' X 2.5'	
- w.	Separator Separator
	6 Wall Thead
Yds: 415 cubic yards	
	8 Hit Tank
	9
3 - 5 Point Composites	10
	11
	12 2 2
	1 2
	1 1 2 2 3
Comments: Soil is ligh	Soil is light brown - Clay Ioam
No staining or odor	
3 - 5 poin	- 5 point composite samples analyzed by headspace. Sample # 2 sent to IML for 8015 analysis
Environmental Specialist :	JE

GASOLINE RANGE ORGANICS - GRO

TAURUS EXPLORATION U.S.A., INC.

Project ID:

Jicarilla 95-4A

Sample ID:

Land Farm Comp. #2

Lab ID:

Condition:

0398G06698

Cool/Intact

Sample Matrix:

Soil

Report Date:

11/23/98

Date Sampled:

11/13/98

Date Received:

11/16/98

Date Analyzed:

11/18/98

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

QUALITY CONTROL - SURROGATE RECOVERY	% RECOVERY	QC LIMITS
Bromofluorobenzene	85%	70-130

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:

DIESEL RANGE ORGANICS - DRO

TAURUS EXPLORATION U.S.A., INC.

Project ID:

Jicarilla 95-4A

Report Date:

Sample ID:

Condition:

Land Farm Comp. #2

Date Sampled: 11/13/98

Lab ID:

0398G06698

Date Received:
Date Analyzed:

11/16/98 11/18/98

11/23/98

Sample Matrix:

Cool/Intact

Soil

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

QUALITY CONTROL - SURROGATE RECOVERY	% RECOVERY	QC LIMITS
o-Terphenyl	78%	70-130

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:



CHAIN OF CUSTODY RECORD

Client/Project Name			P	Project Location							
Taurus Ex	Exploration	a fron		Sic 95	95-4A		⋖ 	ANALYSES / PARAMETERS	AETERS		
$\int_{\mathcal{L}}$	13	A	Chain of (Chain of Custody Tape No.	<u>o</u>		1		Remarks	ks	
Sample No./ Identification	Date	Time	Lab Number	<u>.</u>	Matrix	No. of Containe	Sontaine Sontaine				
Land Form 11-	11-13-98	0845		1198			X		Cont	171.10	tin
,									700	- W. C.	<u> </u>
									Hand	Deliver	þø
	(_
Relinquished by: (Signature)	de	7		Date	Time	Received by: (Signature)	lgnature)			Date	Time
WWian		\Diamond		11-15-98	CITEST		Chucla	C(C)		1 101 11	1
Signature)	-			1	Time	Received by: (Signature)	lgnature)			Date	Time
Relinquished by: (Signature)				Date	10.275 Time	Received by la	poratory: (Signature)	lature)		Date	Time
						\mathcal{O}	ellra	Lama)		118/98 11	2
		_	Inter-Mountain Laboratories, Inc.	itain Labo	ratorie	s, Inc.					,
1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	1701 Gillett Telep	(1) 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945		∑ 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	reet 401 6-4737	1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	Drive ana 59718) 586-8450	11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	7845 3945	57672	(C)
									_		