Denny & Found DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

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



ALL CON. DIV.

1Agrisus/

Pit Remediation and Closure Report

Operator:	Taurus Explorat	ion U.S.A., Ir	c Telephone:	(505)	325-6800	- 	
Address:	2198 Bloomfield	Hwy, Farmir	ngton, NM 87401				
Facility or Well	Name:	Jicarilla 95-	3 A			· · · · · · · · · · · · · · · · · · ·	
Location:	Unit or Qtr/QTR	Sec "D" Se	c 35, T 27 N, R 3 W	Count	y	Rio Arriba	
Pit Type:	Separator:	Dehydrator:				Pit	
Land Type:	Range						
		w.i.					
Pit Location:	Pit dimensions:	length:60 ft	width: 40 ft	depth:	9 ft		
(Attach Diagran	n)					_	
	Reference:	wellhead: X	other:				
Footag	ge from reference:	120 feet				-	
Direction	on from reference:		Degrees	East	North		
				•	of		
				West	South	X	
				•			
Depth To Groun	ndwater:		Less than 50 feet	(20 points)		
(Vertical distant	ce from		50 feet to 99 feet		10 points)		
contaminants to	seasonal	(Greater than 100 feet		(0 points)		
high water elev	ations of						
groundwater)							
11	Ephemeral Stream		Less than 100 feet	(10 points)		
17	dny wash greater t	han (Greater 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)		
livestock or wild	llife watering pond	s)					
Wellhead Prote	ction Area:		Yes	ľ	20 points)		
(Less than 200 t	feet from a private		No		(0 points)	0	
lì	source, or less tha		140		(o points)		
j .	all other water sou						
Distance To Sur			Less than 100 feet	(:	20 points)		
(Horizontal dista	ance to perennial	•	100 feet to 1000 feet	(10 points)		1
lakes, ponds, riv irrigation canals	vers, streams, cree and ditches.)	eks, Gr	eater than 1000 feet		(0 points)	0	
-	,		RANKING SCORE (TOTAL	SCODE!	0	

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

Pit Remediation and Closure Report

			<u> </u>	
Date Remediation Started:	6/22/98	Date Completed	I 7/10/98	
Remediation Method:	Excavation:	X	Approx. cubic yai	750
(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 excavat	ted and landfarmed on	location
			To and land a med bil	iocation.
Groundwater Encountered:	No: X	Yes:	Depth:	
Final Pit	Sample location	: Pit bottom @ 9 fe	eet below surface. Pit	
Closure Sampling:	walls were analy	zed for Headspace	ce (see attachment).	
(If multiple samples,			to (our attack intent).	 -
attach sample results	***************************************			
and diagram of sample	Sample depth:	9 feet		
locations and depths.)	Sample date:		Sample time:	1200
Sample Results:				1200
Soil:			Water:	
Benzene (ppm)	ND	•	Benzene (ppb)	
Total BTEX (ppm)		•	Toluene (ppb)	
Field Headspace (ppm)		Fth	nylbenzene (ppb)	
TPH (ppm)			tal Xylenes (ppb)	
Groundwater Sample:	Yes:		No: X	
(If yes, attach sample results.)		·	110. X	
HEREBY CERTIFY THAT TH	E INFORMATIO	ON ABOVE IS TO	RUE AND COMPLET	FE 70
THE BEST OF MY KNOWLED	GE AND BELIE	F	NOL AND COMPLE	E 10
		•		
DATE: 8/26/98		i	Frank McDonald	
:-7	1 2	· <u>-</u>	TAIK WICDONAIU	
SIGNATURE And	M3/) 10	AND TITLE: I	Env. Division Mana	
- Company	17/200	AND THEE, I	Liv. Division iviana	ger
AFTER REVIEW OF THE PIT	CLOSURE INE	OPMATION DIT	CLOCUPE IO APPR	
N ACCORDANCE TO THE JIC	CARILLA ARAC	UE TRIBE DIT (CLUSURE IS APPR	OVED
10 112 010	SAINIELA AFAC	DE IRIBE PIT C	LUSURE ORDINAN	ICE
APPROVED: Yes: X	No:	/Posses		
, /	7	(Reason)		
SIGNED: Vie 7	110-6	U .	DATE: 9-2-	90
	, 100	<u> </u>	JAIL: / ~ み ~	/ D

// // // /			
Begrock		/	
4	3	72	
East , 10 ft West	South		1001
Pit Profile : East to West :		Fit Florite: North to South:	No. Floring
	Sis.	sent to IML for GRO/DRO and BTEX analysis	sent to
	oundry and a steep	Excavation limited westward due to lease boundry and a steep drop off bordering pit. A sample from the center bottom at of the	drop off
Fiberglass Pit	aining. 9' - Bedrock.	brown, sandy/clay with a strong odor and staining. 9' - Bedrock.	brown,
Earthen Pit	odor. 7' - 9' - Soil is	brown shale with gray staining and a strong odor. 7' - 9' - Soil is	brown s
	, sandy loam with some	hydrocarbon staining and a strong oder A' 7' Soil is moist, brown, sandy Joam with some	hydrocs
		12	
		TPH Closure Standard: 5000 11	TPH Closi
Separator //		EPO Ranking Score: 0 10	EPO Rani
Production Tanks		Nearest Ephemeral Stream: >1000' 9	Nearest E
1		Nearest Surface Water: >1000' 8	Nearest S
		Nearest Water Source: >1000' 7	Nearest V
√ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	+	Depth to Groundwater: >100' 6	Depth to
	-	\neg	Yds, Exca
	-		Final Size:
Surface Gradient	\dashv	18' x 18' x 4' deep	Initial Size :
(7	from wellhead 2	
\ \ \	Bottorn @ 9'	120' South	Reference:
Meter Run -	Me# Location OVM	Pit : Abandoned Separator Pit Sample#	Pit: Aba
Wellhead	2	3 W Township: 27 N	Range:
7	5	D Section: 35	Quad :
1 20 J		JICARIIIA 95 - 3A	LOCATION .
			2
Overview of Location and Sampling:			

Environmental Specialist: VC

Cimarron Oilfield Services

Page 1 of 1

2506 W. Main Street Farmington, New Mexico 87401

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 95-3A Sep. Pit

Sample ID: Lab ID:

C Bottom @9' 0398G03978

Sample Matrix:

Condition:

Soil

Cool/Intact

Report Date:

07/30/98

Date Sampled: Date Received: 07/10/98

Date Analyzed:

07/13/98 07/28/98

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons Total Volatile Petroleum Hydrocarbons	324	5.0 mg/kg
rotal volatile retroleum riyurocarbons	395	5.0 mg /kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

2506 W. Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration IIS A Inc.

Danis at ID		tion U.S.A., Inc.	
Project ID: Sample ID: Lab ID: Sample Matrix: Condition:	Jicarilla 95-3A Sep. Pit C Bottom @ 9' 0398G03978 Soil Cool/Intact	Report Date: Date Sampled: Date Received: Date Analyzed:	07/15/98 07/10/98 07/13/98 07/15/98

Diesel-Range Petroleum Hydrocarbons	190	5.0 mg/kg
TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT

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:

Sample ID:

Lab ID:

Sample Matrix:

Condition:

Jicarilla 95-3A Sep. Pit

C Bottom @ 9'

0398G03978

Soil

Cool/Intact

Report Date:

07/30/98 Date Sampled:

Time Sampled:

07/10/98 12:00

Date Received:

07/13/98

Date Extracted: Date Analyzed:

50.0

50.0

NA 07/28/98

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

ND - Analyte not detected at the stated detection limit.

ND

ND

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Bromofluorobenzene

o-Xylene

76%

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:

Review



CHAIN OF CUSTODY RECORD

54533	11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	† δη 	1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945
	<u> </u>			团、		
173-150116	11111111		Inter-Mountain Laboratories Inc	Inter-Mount		
1078701						
Date Time	nature)	Received by laboratory: (Signature)	Date Time			, (c.B., march)
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Remarks			accept rape No.		nulve	Twan (
1			Chain of Custody Tana No	Chain o		(nature)
ממ	ANALYSES / PARAMETERS	SA SO PH /	Sicarilly 95-314 So Pt	1 Inc	tan 115A	Hora !
						Client/Project Name

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, Farming	gton N.M. 87401										
Facility or Well Name: <u>Jicarilla 95-3A</u>											
Location: Unit or Qtr/Qtr Sec_D_Sec_	35 T 27 N R 3 W County Rio Arriba										
Land Type: Range											
Date Remediation Started: 6/22/98 Da	ite Completed: 12/15/98										
Remediation Method: Landfarmed X	Approx. cubic yards750										
Composted	Composted										
Other											
Depth to Groundwater: (pts)0	Final Closure Sampling:										
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>12/15/98</u> Time: <u>10:00</u>										
Distance to Nearest Lake, Playa, or Watering Pond (pts) 0	Sample Results:										
Wellhead Protection Area (pts) 0	Field Headspace (ppm) 1.1										
Distance to Surface Water (pts)0	TPH (ppm) <31 Method 8015										
RANKING SCORE	Other:										
(TOTAL POINTS): 0											
I HEREBY CERTIFY 1'HAT THE INFORMATION ABO KNOWLEDGE AND BELIEF DATE: 1/6/99 PRINTED NAI											
SIGNATURE 2	AND TITLE ENV. SPECIALIST										
AFTER REVIEW OF THE SOIL REMEDIATION INFOR APPROVED IN ACCORDANCE TO THE JICARILLA APPROVED: YESNO (REASON)	PACHE TRIBE PIT CLOSURE ORDINANCE.										
SIGNED: C / DA	те: 1-7-99										

Client:

Taurus Exploration USA Inc.

Date Started: June 22, 1998 Date Completed: December 15, 1998

Ranking Score: 0 Closure Standard: 5000 ppm

Cimarron Oilfield Services

Page 1 of 1

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

2506 West Main Street, Farmington, NM 87401

GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES

Project ID: Sample ID: Jicarilla 95-3A

Landfarm Comp #1

Lab ID: 0398G07600

Sample Matrix:

Soil

Condition: Ccol/Intact

Report Date:

12/31/98

Date Sampled:

12/15/98

Date Received: Date Analyzed:

12/18/98 12/30/98

		A 8015

RESULT

DETECTION LIMIT

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

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

2506 West Main Street, Farmington, NM 87401

DIESEL RANGE ORGANICS - DRO ENERGEN RESOURCES

Project ID:

Jicarilla 95-3A

Sample ID:

Landfarm Comp #1

Lab ID:

0398G07600

Sample Matrix:

Soil

Condition:

Ccol/Intact

Report Date:

12/31/98

Date Sampled:

12/15/98

Date Received:

12/18/98

Date Analyzed:

12/30/98

TPH DIESEL-RAI	IGE (MOD	FPA 8	015	ì
			~	· .

RESULT

DETECTION LIMIT

Diesel-Range Petroleum Hydrocarbons

26

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)	(amenialistic) (Amenialistic)	WWI	Relinquished by: (Signature)							Candtach,		Sample No./	Q.	Sampler: (Signature)	Client/Project Name
1701 Phillips Circle Gillette, Wyorning 82718 Telephone (307) 682-8945	Int				lika	70,							19.15-98 1000	Date Time	_	en lato		
2506 We 2718 Farmingt Telephon	er-Mountair				/									Lab Number		Chain of Cus	St.	Projec
2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Inter-Mountain Laboratories. Inc		Date		2101 86-42	Date Time							70	Matrix	İ	chain of custody Tape No.		Project Location
1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	12xx	neceived by laboratory: (Signature)		Received by: (Signature)		Received by: (Signature)			1						of of otaling	ers	O- SM	3 >
11183 State Hwy. 30 718 College Station, TX 77845 450 Telephone (409) 776-8945	(whi	y: (Signature)		re)		re)								600	8015		ANALTSES / PARAMETERS	ANALYSES /
		Date		Date	Case			100			FIRACO		(bol)			Remarks	ANAMETERS	
58222	101 1012	<u> </u>		ıte Time								75	Tutes			-		