Denny & Fout DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

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



OIL COM. DIV.

Pit Remediation and Closure Report

				Taria Giodaio i				
Operator:	Taurus Explorat	ion U.S.A	., Inc	Telephone:	(50	5) 325-6800)	
Address:	2198 Bloomfield	Hwy, Fai	ming	ton, NM 87401				*****
11	Name	Jicarilla	183-1	2				
Location:	Unit or Qtr/QTR	Sec "K"	Sec	22, T 23 N, R 3	W Co	unty	Rie	o Arriba
Pit Type:	Separator:	Dehydra	tor:	Other: X - Aba	ndone	d Separator	Pit	
Land Type:	Range							· · · · · · · · · · · · · · · · · · ·
		·	<u> </u>					
Pit Location:	Pit dimensions:	length: 2	5 ft	width: 25 ft	dep	th: 20 ft		
(Attach Diagran	n)							
	Reference:	wellhead	: X	other:				
Footag	ge from reference:	20 fe	et					
Direction	on from reference:	75	5	Degrees	X Eas	t North		
						of		
					We:	st South	Х	
								····
Depth To Groun	ndwater:			Less than 50 fe	et	(20 points)	
(Vertical distanc	ce from			50 feet to 99 fee	et	(10 points	•	
contaminants to	seasonal		Gre	eater than 100 fee	et	(0 points		0
high water eleva	ations of						´ 	
groundwater)								
Distance to an E	phemeral Stream	:		Less than 100 fee	et	(10 points)	
(Downgradient o	iry wash greater ti	nan	Gre	eater than 100 fee	et	(0 points	•	0
ten feet in width)					, ,	′ ——	
Distance to Nea	rest Lake Blave	ne 14/242 sin						
Pond: (Downgra	rest Lake, Playa, dient lakes, playa	o ood				(10 points)	•	_
	life watering pond		Grea	ater Than 100 fee	et	(0 points))	0
WOOLOOK OF WHAT	me watering pond	>)						
Wellhead Protec	tion Area			Va	•	(20:		
	eet from a private			Ye: No		(20 points)		0
	source, or less tha	n		IN C	J	(0 points)		0
	Il other water sour							
		-50,						
Distance To Surf	face Water:		,	ess than 100 fee	ıt	(20 points)		
	nce to perennial			D feet to 1000 fee				
	ers, streams, cree	ks.		ter than 1000 fee		(10 points)		0
rrigation canals			J. 0a	ioi man 1000 lee		(0 points)		0
			R/	ANKING SCORE	(TOTA	L SCORE)		0

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

Pit Remediation and Closure Report

Date Remediation Started:	8/8/98	Date Completed	8/10/98
Remediation Method:	Excavation:	X	Approx. cubic yaı 446
(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.
Groundwater Encountered:	No: X	Yes:	Depth:
Final Pit	Sample location:	North wall @ 18	feet below surface. Pit bottom and
Closure Sampling:			ce (see attachment).
(If multiple samples,			
attach sample results			
and diagram of sample	Sample depth:	18 feet	
locations and depths.)	Sample date:	8/10/98	Sample time: 1045
Sample Results:	•		-
<u>Soil:</u>			Water:
Benzene (ppm)	ND		Benzene (ppb)
Total BTEX (ppm)	0.19		Toluene (ppb)
Field Headspace (ppm)	275	Eth	lylbenzene (ppb)
TPH (ppm)	<10		al Xylenes (ppb)
Groundwater Sample:	Yes:		No: X
(If yes, attach sample results.)		-	
I HEREBY CERTIFY THAT TH	E INFORMATIC	N ABOVE IS T	RUE AND COMPLETE TO
THE BEST OF MY KNOWLED	GE AND BELIE	F	221213
DATE: 8/26/98		,	Frank McDonald
2			
SIGNATURE:	131 July	AND TITLE: I	Env. Division Manager
	7		
AFTER REVIEW OF THE PIT	CLOSURE INFO	DRMATION PIT	CLOSURE IS APPROVED
N ACCORDANCE TO THE JIC	CARILLA APAC	HE TRIBE PIT O	CLOSURE ORDINANCE
			1100112 011011011102
APPROVED: Yes: 🔀	No:	(Reason)	
1 / ~	- //	/	
SIGNED: Kein (7)	Man 4	[DATE: 9-2-98

Pit Profile : North to South : Comments: Top soil - 8' Soil is moist, dark brown, sandy/loam with EPO Ranking Score: TPH Closure Standard: Nearest Ephemeral Stream: >1000 Nearest Water Source: Depth to Groundwater: Initial Size: 15' x 15' x 2' deep Final Size: 25' x 25' x 20' deep Reference: 20'S 75 E Nearest Surface Water. Yds. Excavated: 446 cy Pit: Abandoned Separator Pit Range: Quad: Location: some dark staining, and a strong hydrocarbon odor. gas lines and surface equipment. A sample from the North wall staining and a moderate hydrocarbon odor. 20' Bedrock 8" - 20" Soil is moist, light brown clay/loam with intermittent gray @ 18' was sent to IML for GRO/DRO and BTEX analysis. Excavation was limited on north, west, and south walls due to active North 3 W from wellhead 大 Jicarilla 183 #12 Township: Section: 5000 >1000 ×1000 >100 Sample # 23 N _ 10 2 W. Wall @ 18 C. Btm. @ 20 E. Wall @ 18" S. Wall @ 18" N Wail @ 18 Location South 152 11.8 275 189 175 Pit Profile : East to West : Overview of Location and Sampling: East Separator Wellhead Surface Gradient Meter Run Earthen Pit West Road Entrance 10 ft

Environmental Specialist : VC

Cimarron Offield Services

Page 1 of 1

2506 W. Main Streat Farmington, New Mexico 87401

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 183 #12 Sep. Pit

Sample ID: Lab ID:

0398G04454

Sample Matrix:

Condition:

N. Wall @ 18'

Soil

Cool/Intact

Report Date:

Date Sampled:

Date Received:

Date Analyzed:

08/11/98

08/24/98

08/10/98

08/20/98

•	Gasoline-Range Petroleum Hydrocorbons	RESOLI	DETECTION LIMIT
	TPH GAS-RANGE (MOD EPA 8015)	RESULT	

Gasoline-Range Petroleum Hydrocarbons

<5.0

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

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 183 #12 Sep. Pit

Sample ID: Lab ID: N. Wall @ 18'

Sample Matrix:

Soil

Condition:

0398G04454

Cool/Intact

 Date Sampled:
 08/10/98

 Date Received:
 08/11/98

Date Analyzed:

Report Date:

08/14/98

08/17/98

		PA 8015)					
				RESULT			
						TION LIMI	

Diesel-Range Petroleum Hydrocarbons

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By

Reviewed By:

VOLATILE AROMATIC HYDROCARBONS

Taurus Exploration, U.S.A., Inc.

Project ID:

Sample ID:

Lab ID:

Sample Matrix:

Condition:

Jicarilla 183 #12 Sep. Pit

N. Wall @ 18'

0398G04454

Soil

Cool/Intact

Report Date:

Date Sampled:

08/10/98 10:45

Time Sampled: Date Received:

08/11/98

08/24/98

Date Extracted: Date Analyzed:

NA 08/20/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	50.0
Ethylbenzene	114	50.0
m,p-Xylenes	76.5	50.0
o-Xylene	64.5	50.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Bromofluorobenzene

114%

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

1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945		Relinquished by: (Signature)	June Kack Hende	Relinquished by: (Signature)	That C	elinquished by: (Signature)										@ 181	Tic 182#12 NIGHT 81	Identification D	Sample No.	Tuc / / bowa	nature) /	Talkus Ex Onalian	Laboratories, Inc.
Inter-N Telephone (307) 682-8945			(1)()()											/			8/10/18 11:45	Date Time Lab		2		" 11311 Item	
Inter-Mountain Laboratories, Inc. Comparison Compari		Date	36/11/8	Date	8/111/8	ate							/					Lab Number			Chain of Custody Tape No.	Jicarilly 183#12	Draint I coation
Oratories, Inc.	- Bully	Time Received b	1217	Time Řeceived t	07:15 LILLE	Time		-		0	0						Soi -	Matrix			No.	183#12 Separater	
) 9718 9450	Jarre C	Received by laboratory: (Signature)		Received by: (Signature)	Kauedhuele	Received by: (Signature)			/								7 7	1	of intair		\ \ \ \ \		
11183 State Hwy. 30 College Station, TX 77845											Haliveres	Cool									/ Remarks	ANALYSES / PARAMETERS	
54018	71/9/11/0	Date		Date Time	8/11/98/1/15	Date Time		/				intact, hand									arks	S	

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 N.M. 87401 Facility of Well Names - Licerille 182 - 12													
Facility or Well Name: <u>Jicarilla 183 – 12</u>	Facility or Well Name: <u>Jicarilla 183 – 12</u> Legation: Unit or Otr/Otr See, K. See, 22, T. 22 N. B. 2 W. G. J.												
Location: Unit or Qtr/Qtr Sec_K_Sec_2	2 T 23 N R 3 W County Sandoval												
Land Type: Range													
Date Remediation Started: 8/8/98 Date	e Completed: 12/1/98												
Remediation Method: Landfarmed X													
Composted	_												
Other	-												
Depth to Groundwater: (pts)0	Final Closure Sampling:												
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>12/1/98</u> Time: <u>08:15</u>												
Distance to Nearest Lake, Playa, or Watering Pond (pts) 0	Sample Results:												
Playa, or Watering Pond (pts) 0 Wellhead Protection Area (pts) 0	Field Headspace (ppm) 1.5												
- · ·	TPH (ppm) <18 Method 8015												
Distance to Surface Water (pts)0	Other:												
RANKING SCORE (TOTAL POINTS): 0													
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE: 12/31/98 PRINTED NAME VIRGIL CHAVEZ													
SIGNATURE ///	AND TITLE ENV. SPECIALIST												
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICABILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES NO (REASON)													
SIGNED: LO Mallo													

		Overview of Landfarm and Sampling :	
Location : Jicarilla 183-12			
Quad: K Section:	22	north	entrance
Township: 23 N Range:	3 W		
Pit: Separator Pit	٥	Well nead	
	1 Comp 1 1.5	surface gradient	
Reference 100' S 2 W from	Comp 2)	
wellhead.	3 Comp 3 0.7	seperator pr	
Size: 75' x 150' x 1' deep	57 .		
	σ.	(
	7		
Yds: 446	0	meter run	
3 5 - Point Composites	10		
	11		
	12	3	
		1 1 2 2 3 3 3	
		land farm	
Comments : Soil is moist, dark brown A sample from comp	Soil is moist, dark brown, sandy/loam, with no visible staining or detec A sample from composite # 1 was sent to IML for GRO/DRO analysis	Soil is moist, dark brown, sandy/loam, with no visible staining or detectable hydrocarbon odor. A sample from composite # 1 was sent to IML for GRO/DRO analysis.	
Environmental Specialist : JE			

2506 West Main Street, Farmington, NM &7401

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

GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES

Project ID:

Jicarilla 183-12 Landfarm

12/31/98

Sample ID:

Composite #1

Report Date:

Lab ID:

0398G06953

Date Sampled: Date Received: 12/02/98

Sample Matrix:

Soil

Date Analyzed:

12/29/98*

Condition:

Cool/Intact

TPH GAS-RANGE (MOD EPA 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:

*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:

Jicarilla 183-12 Landfarm

Report Date:

Sample ID:

Composite #1

Date Sampled:

Lab ID:

0398G06953

Date Received:

12/02/98

Sample Matrix:

Soil

Date Analyzed:

12/16/98

Condition:

Cool/Intact

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	13	5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:



CHAIN OF CUSTODY RECORD

							_	 , ,	 	 			 	-							
1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945			Relinquished by: (Signature)	The Top Minne	Relinquished by: (Signature)		elinquished by: (Signature)										Sample No./	Karal Diago	Sampler: (Signature)	ELEVATOR OF	Client/Project Name () - 11 11 15
1701 Phillips Circle Gillette, Wyorning 82718 Telephone (307) 682-8945	Inte		(101	<i>></i>												Date Time La	2.6.	1		(us Exploration)
2506 West Main Street 8 Farmington, NM 87401 945 Telephone (505) 326-4737	Inter-Mountain Laboratories, Inc.		Date	15/3/00	Date	12/2/18	Date									, T	Lab Number		Chain of Custody Tape No.		Project Location
reet 1160 Research Drive 401 Bozeman, Montana 59718 6-4737 Telephone (406) 586-8450	pratories, Inc.	P	Time Received by la	1440	-4	14:00 1111	Time Received by: (Signature)			5							Matrix No. of		No.		
			Received by laboratery: (Signature)		Received by: (Signature)	() () () () () () () () () ()	Signature)								>	× ,	No. of Contain	iers		/ / ANALYSE	
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	3	, j	. 0							l	intact ham							Remarks		ANALYSES / PARAMETERS	
58212	1	7 0% 1440	Date Time			19/0/07 11/00	Date Time				mand delivered	,									