DEPUTY OIL & GAS INSPECTOR

AUG O 9/1999

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



OIL CON. DIV. DIST. 3

Pit Remediation and Closure Report

Óperator:	Taurus Exploret	ion U.S.A.,	Inc	Telephone:		(505)	325-6800		
Address:	_2198.Bloomfield	Hwy, Fam	ningto	on, NM 87401					
Facility or Well	Name:	Jicarilla 9	4-6 A						
Location:	Unit or Qtr/QTR	Sec "P"	Sec 2	7, T 27 N, R	3 W	Count	ty	Rio /	Arriba
Pit Type:	Separator:	Dehydrato	or:	Other: X - A	band	doned	Separator	Pit	
Land Type:	Range								
	···								
Pit Location:	Pit dimensions:	length: 40	ft	width: 20 ft		depth	: 12 ft		
(Attach Diagran	n)								
	Reference:	wellhead:	X	other:					
Footag	ge from reference:	105 fe	et					-	
Direction	on from reference:	20		Degrees	Х	East	North		
							of		
						West	South	X	
Depth To Grour	ndwater:			Less than 50	feet		(20 points)		
(Vertical distance	ce from			50 feet to 99	feet		(10 points)		
contaminants to	seasonal		Gre	ater than 100	feet		(0 points)		0
high water eleva	ations of								
groundwater)									
Distance to an f	Ephemeral Stream	,•		ess than 100	foot		/10 points)		
i	dry wash greater t			ater than 100			(10 points)		0
ten feet in width	•	iai i	Gie	ater than 100	1001		(0 points)		-
icii ieei iii widii	,								
Distance to Nea	rest Lake, Playa,	or Waterin	a I	ess than 100	feet		(10 points)		
	idient lakes, playa		_	iter Than 100		,	(10 points) (0 points)		0
=:	life watering pond		0.00	itor Triairi 100	1000		(o points)		
	wataning parta	-,							
Wellhead Prote	ction Area:				Yes	1	(20 points)		
	feet from a private				No		(0 points)		0
	source, or less tha						(· · · · · · · · · · · · · · · · · · ·	
	all other water sou								
Distance To Sur				ess than 100		((20 points)		
	ance to perennial			feet to 1000		((10 points)		
	ers, streams, cree	eks,	Great	er than 1000	feet		(0 points)		0
irrigation canals	and ditches.)								
			RA	NKING 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:	7/9/98	Date Completed	7/17/98
Remediation Method:	Excavation:	Χ	Approx. cubic yaı 308
(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	:East wall @ 7 fe	et below surface. Pit bottom and
Closure Sampling:	walls were analy	zed for Headspa	ce (see attachment).
(If multiple samples,			
attach sample results			
and diagram of sample	Sample depth:	7 feet	
locations and depths.)	Sample date:	7/17/98	Sample time: 1055
Sample Results:			
Soil:		-	Water:
Benzene (ppm)	ND		Benzene (ppb)
Total BTEX (ppm)	ND	_	Toluene (ppb)
Field Headspace (ppm)	298	_ Eth	nylbenzene (ppb)
TPH (ppm)	<34	To	tal Xylenes (ppb)
Groundwater Sample:	Yes:	<u>.</u> .	No: X
(If yes, attach sample results.)			
I HEREBY CERTIFY THAT TH	E INFORMATION	ON ABOVE IS T	RUE AND COMPLETE TO
THE BEST OF MY KNOWLED	GE AND BELIE	EF	
DATE: 8/26/98			Frank McDonald
121	nist 1		
SIGNATURE: Mark	1/2/)	AND TITLE:	Env. Division Manager
AFTER REVIEW OF THE PIT			1
IN ACCORDANCE TO THE JI	CARILLA APAC	CHE TRIBE PIT	CLOSURE ORDINANCE
APPROVED: Yes: X	No:	(Reason)	
SIGNED: Kit (7)	1 and		DATE: 9-2-98
	-i		أنجيب ويتبارز والمناف والمتاب والمتابع والمناف والمتابع و

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

Date Started: July 9, 1998 Date Completed: July 17, 1998

// /sebs/sak/ ///			\ <u>*</u>	// BEDROG		,
-3 4 - 10 ft		10#,	7			
East West		South	Ş]	Nonn	
Pit Profile: East to West:	Pit Profi	:		South:	THE PROPERTY NORTH TO SOUTH :	שוויסיווים
			malysis.	for GRO/DRO and BTEX analysis	for GR	
			all de ver	Surace equipment. A sample from the east wall (2) 7 was sent to Mil	Sunace A same	
Meter Run		mited due to	nst walts was in	Excavation of east and west walls was limited due to	Excave	
		•	•	12' Bedrock encountered.	12' Be	
		2	y/black stainir	hydrocarbon odor, and gray/black staining.		
Production lank Fiberglass Pit	<u>,</u>	the moderate	Soil is moist, clay/loam, with a moderate	- 12' Soil is moist	5 Top soil - 12	Comments:
	3		12			
	<u></u>	-	=	ਰ: 5000	TPH Closure Standard:	TPH Clas
Above Ground Pit Earthen Pit	A A B B		ő	0	EPO Ranking Score:	EPO Ran
			60	Nearest Ephemeral Stream: >1000"	phemeral S	Nearest E
_			œ	er: >1000'	Nearest Surface Water:	Nearest S
			7	×1000	Nearest Water Source:	Negrest V
(i	_1	┪	6	₽F: >100°	Depth to Groundwater:	Depth to
Separator	_1	1	5 Bott	8	Yds. Excavated: 308 cy	Yds, Exc
C	_	1	4 W. 1	Final Size: 40' x 20' x 12' deep): 40° × 20	Final Size
5	1	1		Initial Size: 18' x 18' x 3' deep	b: 18'x 18	Initial Siz
- morginator - i			2 8. V	Mihead	from wellhead	
Fibernlass Dif	_	1			Reference : 105' S 20 E	Referenc
The state of the s		Location OVM	Sample # L	or Par	ndoned Sej	Pit: Abe
Surface Gradient	-		27 N	Township:	3 W	Range
Weithaed				Course.		
T. Carly			27	Saction .	טר	Oug C
	L			Jicarilla 94 - 6A	•	Location :
Overview of Location and Sampling:	Overv					

Environmental Specialist: VC

Cimarron Oilfield Services

Page __i__of __i__

Frank McDonald Cimarron Oilfield Service Co. P. O. Box 3235 Farmington, NM 87401

July 31, 1998

Mr. McDonald:

Enclosed, please find the reports for the samples submitted for Taurus Exploration to our laboratory on July 21, 1998.

If you have any questions about the result of these analyses, please don't hesitate to call at your convenience.

We appreciate your business!

Organics Lab Supervisor

Enclosure

xc: File

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 94-6A Sep. Pit

Sample ID: Lab ID:

E. Wall @ 7' 0398G04066

Sample Matrix:

Soil

Report Date:

07/30/98

Date Sampled: Date Received: 07/17/98 07/21/98

Date Analyzed:

07/29/98

Condition:

Cool/Intact

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	29	5.0 mg/kg
Total Volatile Petroleum Hydrocarbons	52	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:

2506 W. Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID: Sample ID: Jicarilla 94-6A Sep. Pit

E. Wall @ 7' Lab ID: 0398G04066

Sample Matrix: Condition:

Soil

Report Date: Date Sampled: 07/30/98

Date Received:

07/17/98 07/21/98

Date Analyzed:

07/29/98

Cool/Intact

	90000000000000000000000000000000000000	
TPH DIESEL-RANGE (MOD EPA 8015)		ECTION LIMIT

Diesel-Range Petroleum Hydrocarbons

< 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 94-6A Sep. Pit

Report Date: 07/30/98

Sample ID:

E. Wall @ 7'

Date Sampled: 07/17/98

Lab ID:

0398G04066

Time Sampled: 10:55

Sample Matrix:

Soil

Date Received: 07/21/98

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.

Anaiyst

Review



CHAIN OF CUSTODY RECORD

1633 Terra Avenue 1701 Phillips Circle 250 Sheridan, Wyoming 82801 Gillette, Wyoming 82718 Far Telephone (307) 672-8945 Telephone (307) 682-8945 Telephone	Inter-Mour		neiiiiquisnea ay: (Signature)	Vinalage Mucleone	midusineo oy: (a)gnatuta)	In the state of th	'elinquished by: (Signature)						/			J.C 946A F 1/11/07/ 7/17/68 11: 55	Sample No./ Identification Date Time Lab Number	Sampler: (Signature) Chain of	xploiation USH Inc	Client/Project Name
2506 West Main Street Parmington, NM 87401 Telephone (505) 326-4737	Inter-Mountain Laboratories, Inc.		Date Time	1191198 1406	Date Time	1/21/8 14:00	Date Time										er Matrix	Chain of Custody Tape No.	-115	Project Location
1160 Research Drive 11183 Sta Bozeman, Montana 59718 College S Telephone (406) 586-8450 Telephone	es, Inc.	(kan) 1014	Received by laboratory: (Signature)		Received by: (Signature)	Juna live bluck min	Received by: (Signature)			<u> </u>					-		No. of Contain		AA Port / ANALYSE	
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945		71152 1400	Date Time		_	0011 86/16/10	Date Time		× 0.00	Just tock 1								Remarks	ANALYSES / PARAMETERS	

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	ton N.M. 87401					
Facility or Well Name: <u>Jicarilla 94-6A</u>						
Location: Unit or Qtr/Qtr Sec_P_Sec_2	27 T 27 N R 3 W County Rio Arriba					
Land Type: Range						
Date Remediation Started: July 9,1998	Date Completed: November 13, 1998					
Remediation Method: Landfarmed X	_ Approx. cubic yards308					
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>0950</u>					
Distance to Nearest Lake, Playa, or Watering Pond (pts)0	Sample Results:					
Wellhead Protection Area (pts)0	Field Headspace (ppm) <u>1.9</u> TPH (ppm) <u><10</u> Method <u>8015</u>					
Distance to Surface Water (pts)0	Other:					
RANKING SCORE (TOTAL POINTS): 0						
I HEREBY CERTIFY THAT THE INFORMATION ABOUT IN	OVE IS TRUE AND COMPLETE TO THE BEST OF MY AMEFRANK MCDONALD					
SIGNATURE MAN MAN SON SIGNATURE	AND TITLE ENV. DIVISION MANAGER					
AFTER REVIEW OF THE SOIL REMEDIATION INFOR APPROVED IN ACCORDANCE TO THE JICARILLA APPROVED: YES (REASON)	APACHE TRIBE PIT CLOSURE ORDINANCE.					
SIGNED: YES NO (REASON) WE WE BUCK IN						

Client:

Taurus Exploration USA Inc.

Date Started: July 9, 199 Date Completed: November 13, 1998

GASOLINE RANGE ORGANICS - GRO

TAURUS EXPLORATION U.S.A., INC.

Project ID:

Jicarilla 94-6A

Report Date:

11/23/98

Sample ID:

Land Farm Comp. #1

Date Sampled:

11/13/98

Lab ID:

0398G06695

Date Received:

11/16/98

Sample Matrix:

Soil

Date Analyzed:

11/18/98

Condition:

Cool/Intact

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	92%	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 94-6A

Sample ID:

Land Farm Comp. #1

Lab ID:

0398G06695

Sample Matrix:

Soil

Report Date:

Date Sampled: Date Received: 11/23/98 11/13/98

Date Analyzed:

11/16/98 11/18/98

Condition:

Cool/Intact

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	79%	70-130

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:



CHAIN OF CUSTODY RECORD

57723	11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945		1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	737	2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	,	1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945		1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945
			Inc.	ratories,	tain Labo	Inter-Mountain Laboratories, Inc		.	ו
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		626 2	No. of Contain	Matrix	7	Lab Number	Time	Date	Sample No./
•	Remarks		1	lo.	Chain of Custody Tape No.	Chain of (at	Sampler: (Signature)
	ANALYSES / PARAMETERS	ANA		GA	Sic 94-6A		Lion	placati	Taurous Fx
					Project Location	Pr			Client/Project Name