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JUN 24 1999

OIL CON. DIV.
DIST. 3

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

DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

Pit Remediation and Closure Report


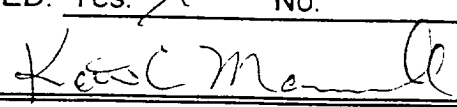
Approved

Operator:	Taurus Exploration U.S.A., Inc		Telephone:	(505) 325-6800	
Address:	2198 Bloomfield Hwy, Farmington, NM 87401				
Facility or Well Name:	Jicarilla 99-11				
Location:	Unit or Qtr/QTR Sec "P" Sec 14, T 26 N, R 3 W County			Rio Arriba	
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit		
Land Type:	Range				
Pit Location:	Pit dimensions:		length: 20 ft	width: 40 ft	depth: 9 ft
(Attach Diagram)					
	Reference:	wellhead: X	other:		
	Footage from reference:	78			
	Direction from reference:	40	Degrees	East	North
					of
			X West	South	X
Depth To Groundwater:	Less than 50 feet	(20 points)			
(Vertical distance from	50 feet to 99 feet	(10 points)			
contaminants to seasonal	Greater than 100 feet	(0 points)	0		
high water elevations of	groundwater)				
Distance to an Ephemeral Stream:	Less than 100 feet	(10 points)			
(Downgradient dry wash greater than	Greater than 100 feet	(0 points)	0		
ten feet in width)					
Distance to Nearest Lake, Playa, or Watering	Less than 100 feet	(10 points)			
Pond: (Downgradient lakes, playas, and	Greater Than 100 feet	(0 points)	0		
livestock or wildlife watering ponds)					
Wellhead Protection Area:	Yes	(20 points)			
(Less than 200 feet from a private	No	(0 points)	0		
domestic water source, or less than	1000 feet from all other water sources)				
Distance To Surface Water:	Less than 100 feet	(20 points)			
(Horizontal distance to perennial	100 feet to 1000 feet	(10 points)			
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points)	0		
irrigation canals and ditches.)					
RANKING SCORE (TOTAL SCORE):					0

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

COPY

Pit Remediation and Closure Report

Date Remediation Started:	5/26/98	Date Completed	6/25/98
Remediation Method: (Check all appropriate sections)	Excavation: <input checked="" type="checkbox"/>	Approx. cubic yd:	264
	Landfarmed: <input checked="" type="checkbox"/>	Insitu Bioremediation:	
	Other: _____		
Remediation Location: (I.e. landfarmed on site, name and location of off site location)	On-site: <input checked="" type="checkbox"/>	Off-site:	_____
General Description of Remedial Action:	Soil was excavated and landfarmed on location.		
Groundwater Encountered:	No: <input checked="" type="checkbox"/>	Yes:	Depth: _____
Final Pit Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample location: Pit Bottom @ 9 feet below surface. Pit walls were analyzed for Headspace (see attachment).		
	Sample depth:	9 feet	
	Sample date:	6/25/98	Sample time: 1305
Sample Results:			
Soil:	Water:		
Benzene (ppm)	0.093	Benzene (ppb)	_____
Total BTEX (ppm)	1.441	Toluene (ppb)	_____
Field Headspace (ppm)	160	Ethylbenzene (ppb)	_____
TPH (ppm)	106	Total Xylenes (ppb)	_____
Groundwater Sample: (If yes, attach sample results.)	Yes: _____	No: <input checked="" type="checkbox"/>	_____
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE:	7/27/98	Frank McDonald	
SIGNATURE:		AND TITLE: Env. Division Manager	
AFTER REVIEW OF THE PIT CLOSURE INFORMATION PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED:	Yes: <input checked="" type="checkbox"/>	No:	(Reason)
SIGNED:		DATE:	7-27-98

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

Date Started : May 26, 1998 Date Completed : June 25, 1998

Location : <u>Jicarilla 99 # 11</u>		Overview of Location and Sampling :																																								
Quad : <u>P</u> Section : <u>14</u>																																										
Range : <u>3 W</u> Township: <u>26 N</u>		Pit Profile : East to West :																																								
Pit : Abandoned Separator Pit Reference : 78' S 40 W from wellhead Initial Size : 6' x 6' x 2' deep Final Size : 20' x 40' x 9' deep Yds. Excavated : 264 cy Depth to Groundwater: >100' Nearest Water Source: >1000' Nearest Surface Water: >1000' Nearest Ephemeral Stream: >1000' EPO Ranking Score: 0 TPH Closure Standard: 5000		Pit Profile : North to South :																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sample #</th> <th style="width: 40%;">Location</th> <th style="width: 50%;">OVM</th> </tr> </thead> <tbody> <tr><td>1</td><td>Bottom @ 9'</td><td>160</td></tr> <tr><td>2</td><td>N. Wall @ 7'</td><td>N.D.</td></tr> <tr><td>3</td><td>S. Wall @ 7'</td><td>N.D.</td></tr> <tr><td>4</td><td>E. Wall @ 7'</td><td>30</td></tr> <tr><td>5</td><td>W. Wall @ 7'</td><td>4.4</td></tr> <tr><td>6</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td></tr> </tbody> </table>		Sample #	Location	OVM	1	Bottom @ 9'	160	2	N. Wall @ 7'	N.D.	3	S. Wall @ 7'	N.D.	4	E. Wall @ 7'	30	5	W. Wall @ 7'	4.4	6			7			8			9			10			11			12			Comments : Top soil to 4' - Soil is dry, clay/loam, a strong hydrocarbon odor and staining is present. 3' to bottom - Soil is brown, clay/loam with a mild hydrocarbon odor and minor red staining present. Sample from bottom sent to IML for GRO/DRO and BTEX analysis.	
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Environmental Specialist : VC

Cimarron Oilfield Services

Page 1 of 1

Client: Taurus Exploration U.S.A., Inc.
Project: Organics
Sample ID: Jic 99-11 C. Btm @ 9'
Lab ID: 0398G03538
Matrix: Soil
Condition: Intact

Date Received: 06/26/98
Date Reported: 07/10/98
Date Sampled: 06/25/98
Time Sampled: 1305

Parameter	Analytical Result	Units	Units
Diesel Range Organics	95	ppm	
Diesel Range Organics as Diesel	<5	ppm	
Gasoline Range Organics	11	ppm	
Gasoline Range Organics as Gasoline	<5	ppm	

COPY

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Reviewed By: 

VOLATILE AROMATIC HYDROCARBONS

Client ID: **Taurus Exploration U.S.A., Inc.**
 Project ID: Organics
 Sample ID: Jic 99-11 C. Btm @ 9'
 Lab ID: 0398G03538
 Sample Matrix: Soil
 Condition: Cool/Intact

Report Date: 07/10/98
 Date Sampled: 06/25/98
 Date Received: 06/26/98
 Date Extracted: na
 Date Analyzed: 07/09/98

Target Analyte	Concentration (ppb)	Method Detection Limit (ppb)
Benzene	93	10.0
Toluene	185	50.0
Ethylbenzene	123	50.0
m,p-Xylenes	810	50.0
o-Xylene	230	50.0

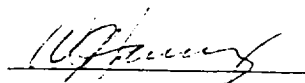
ND - Analyte not detected at the stated detection limit.

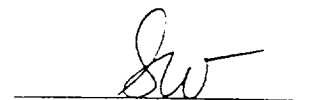
Quality Control: Surrogate Percent Recovery Acceptance Limits

Bromofluorobenzene 99% 70%-130%

Reference: Method 5030B, 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:


Analyst


Review

COPY



Inter-Mountain Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name

Taurus Exploration 11511 Inc.

Project Location

Tierrita 99-11 500

ANALYSES / PARAMETERS

Chain of Custody Tape No.

Sampler: (Signature) *Mary Cherry*

Sample No./ Identification

The 99-11 Q. Btm 09' 6/25/18 13:05

Lab Number

Matrix

Soil

No. of Containers

1

2015 6R01DRO

2020 BTEX

Remarks

Y
C
O
P

contact hand delivery

Relinquished by: (Signature)

Mary Cherry

Relinquished by: (Signature)

Mary Cherry

Relinquished by: (Signature)

Date

6/26/18

Time

7:10

Received by: (Signature)

Mary Cherry

Received by: (Signature)

Received by laboratory: (Signature)

Chain Approval

Date

6/26/18

Time

7:35

Date

6/26/18

Time

9:44

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

1701 Phillips Circle
Gillette, Wyoming 82718
Telephone (307) 682-8945

2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

11183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776 0011

54525

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT

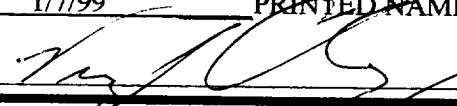
Operator: Taurus Exploration USA Inc. Telephone: (505) 325 - 6800
Address: 2198 Bloomfield Hwy, Farmington N.M. 87401
Facility or Well Name: Jicarilla 99 - 11
Location: Unit or Qtr/Qtr Sec P Sec 14 T 26 N R 3 W County Rio Arriba
Land Type: Range

Date Remediation Started: 5/26/98 Date Completed: 11/25/98
Remediation Method: Landfarmed Approx. cubic yards 264
Composted
Other

Depth to Groundwater: (pts) 0
Distance to an Ephemeral Stream (pts) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts) 0
Wellhead Protection Area (pts) 0
Distance to Surface Water (pts) 0
RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:
Sampling Date: 11/25/98 Time: 11:55
Sample Results:
Field Headspace (ppm) 31.1
TPH (ppm) <10 Method 8015
Other: _____

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE: 1/7/99 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 JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES NO (REASON) we are Backfill

SIGNED:  DATE: 1-20-99

Location : <u>Jicarilla 99 - 11</u>		Overview of Landfarm and Sampling :																																								
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11																																										
12																																										
Comments : <u>Soil is moist, dark brown, clay/loam, with no visible staining and a slight hydrocarbon odor.</u> <u>A sample from composite # 1 was sent to IML for GRO/DRO analysis.</u>																																										
Environmental Specialist : <u>JE</u>																																										



GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES

Project ID:	Jicarilla 99-11	Report Date:	12/31/98
Sample ID:	L.F. Sep. Pit Comp #1	Date Sampled:	11/25/98
Lab ID:	0398G06932	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 was re-analyzed to verify results.



Reported By:



Reviewed By:



DIESEL RANGE ORGANICS - DRO

ENERGEN RESOURCES

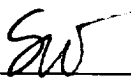
Project ID:	Jicarilla 99-11	Report Date:	12/22/98
Sample ID:	L.F. Sep. Pit Comp #1	Date Sampled:	11/25/98
Lab ID:	0398G06932	Date Received:	12/01/98
Sample Matrix:	Soil	Date Analyzed:	12/16/98
Condition:	Cool/Intact		

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

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:

