

Thompson Trust
INSPECTOR

AUG 09 1999

Hym

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

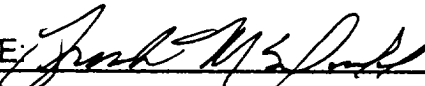
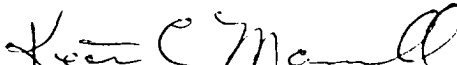
Pit Remediation and Closure Report

OK
RECEIVED
JUN 24 1999
OIL CON. DIV.
DIST. 3

Operator:	Taurus Exploration U.S.A., Inc			Telephone:	(505) 325-6800		
Address:	2198 Bloomfield Hwy, Farmington, NM 87401						
Facility or Well Name:	Jicarilla 183-6						
Location:	Unit or Qtr/QTR			Sec "O"	Sec 27, T 23 N, R 3 W County		Rio Arriba
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit				
Land Type:	Range						
Pit Location: Pit dimensions: length: 25 ft width: 25 ft depth: 18 ft							
(Attach Diagram)							
Reference:		wellhead: X other:					
Footage from reference:		20 feet					
Direction from reference:		25	Degrees	X East	North	X	
					of		
				West	South		
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

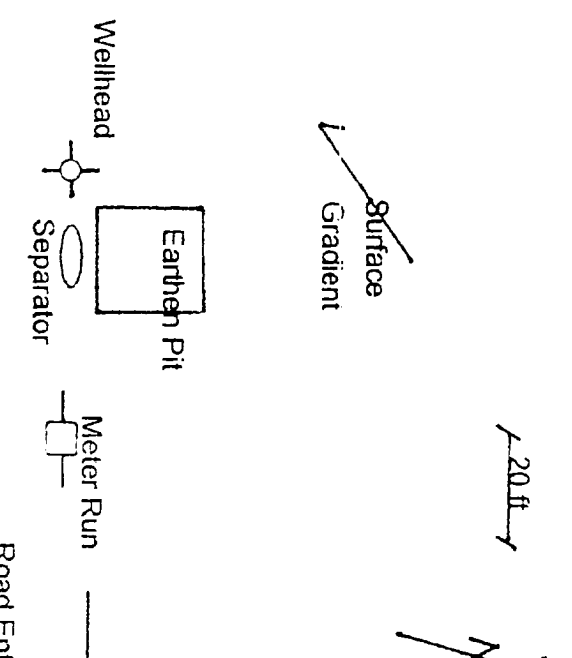
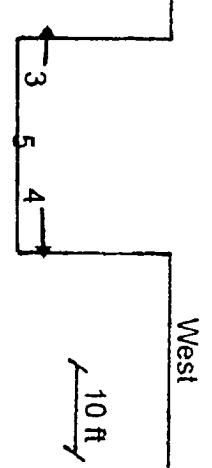
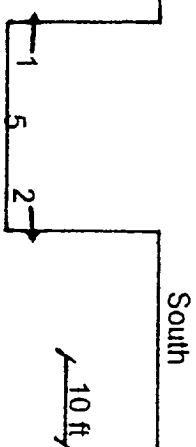
Jicarilla Apache Tribe
Environmental Protection Office
P.O. Box 507
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started: 8/11/98		Date Completed: 8/12/98	
Remediation Method: (Check all appropriate sections)	Excavation:	<input checked="" type="checkbox"/>	Approx. cubic yd: 387
	Landfarmed:	<input checked="" type="checkbox"/>	In situ 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: <input type="checkbox"/> Depth:			
Final Pit	Sample location: Pit bottom @ 18 feet below surface. Pit		
Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)	walls were analyzed for Headspace (see attachment).		
	Sample depth:	18 feet	
	Sample date:	8/12/98	Sample time: 1220
Sample Results:			
Soil:		Water:	
Benzene (ppm)	ND	Benzene (ppb)	
Total BTEX (ppm)	ND	Toluene (ppb)	
Field Headspace (ppm)	388	Ethylbenzene (ppb)	
TPH (ppm)	<10	Total Xylenes (ppb)	
Groundwater Sample: (If yes, attach sample results.)	Yes: <input type="checkbox"/>	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: 8/26/98		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: <input type="checkbox"/> (Reason)			
SIGNED: 		DATE: 9-2-98	

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

Date Started : August 11, 1998 Date Completed : August 12, 1998

Location : <u>Jicantla 183 #6</u>			Overview of Location and Sampling : 																																									
Quad : <u>O</u> Section : <u>27</u>																																												
Range : <u>3 W</u> Township: <u>23 N</u>																																												
Pit : <u>Abandoned Separator Pit</u> Reference : <u>20' N 25 E</u> Initial Size : <u>20' x 20' x 2' deep</u> Final Size : <u>25' x 25' x 18' deep</u> Yds. Excavated : <u>387 cy</u> Depth to Groundwater: <u>>100'</u> Nearest Water Source: <u>>1000'</u> Nearest Surface Water: <u>>1000'</u> Nearest Ephemeral Stream: <u>>1000'</u> EPO Ranking Score: <u>0</u> TPH Closure Standard: <u>5000</u>																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample #</th> <th>Location</th> <th>OVM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N. Wall @ 16'</td> <td>0.1</td> </tr> <tr> <td>2</td> <td>S. Wall @ 16'</td> <td>228</td> </tr> <tr> <td>3</td> <td>E. Wall @ 16'</td> <td>68</td> </tr> <tr> <td>4</td> <td>W. Wall @ 16'</td> <td>6</td> </tr> <tr> <td>5</td> <td>C. Btm @ 18'</td> <td>388</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	N. Wall @ 16'	0.1	2	S. Wall @ 16'	228	3	E. Wall @ 16'	68	4	W. Wall @ 16'	6	5	C. Btm @ 18'	388	6			7			8			9			10			11			12			Pit Profile : East to West : 		
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11																																												
12																																												
Comments : <u>Top soil - 8" Soil is moist, dark brown, sandy/loam with minimal staining and a strong hydrocarbon odor.</u> <u>8" - 18" Soil is moist, light brown compacted sand, with no staining and a detectable odor.</u> <u>Excavation of south wall was limited due to surface equipment.</u> <u>A sample from the center bottom at 18' was sent to IML for GRO/DRO and BTEX analysis.</u>																																												
Pit Profile : North to South : 																																												
North South																																												

Environmental Specialist : VC

Cimarron Oilfield Services

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

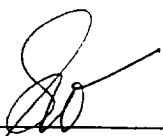
Project ID:	Jicarilla 183 #6 Sep. Pit	Report Date:	08/24/98
Sample ID:	C Bottom @ 18'	Date Sampled:	08/12/98
Lab ID:	0398G04494	Date Received:	08/12/98
Sample Matrix:	Soil	Date Analyzed:	08/20/98
Condition:	Cool/Intact		

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:


Reported By:


Reviewed By:

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.


Project ID:	Jicarilla 183 #6 Sep. Pit	Report Date:	08/18/98
Sample ID:	C. Bottom @18'	Date Sampled:	08/12/98
Lab ID:	0398G04494	Date Received:	08/12/98
Sample Matrix:	Soil	Date Analyzed:	08/18/98
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:

VOLATILE AROMATIC HYDROCARBONS**Taurus Exploration, U.S.A., Inc.**

Project ID: Jicarilla 183 #6 Sep. Pit
Sample ID: C.Bottom @ 18'
Lab ID: 0398G04494
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 08/24/98
Date Sampled: 08/12/98
Time Sampled: 12:20
Date Received: 08/12/98
Date Extracted: NA
Date Analyzed: 08/20/98


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 103% 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.

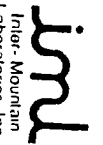
Comments:



Analyst



Review



Inter-Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES / PARAMETERS							
Larus Enthalpion MSJ Inc.		Tampa, FL 183 #6		Separation							
Sample: (Signature) <i>T. J. Chavaz</i>		Chain of Custody Tape No.									
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks					
Jic 183#6 L. Bineir	8/12/98	12:20	60444485	Soil	1						
<div style="text-align: center;"><i>Collected by: [Signature]</i></div>											
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature)	Date	Time					
Relinquished by: (Signature) <i>[Signature]</i>		8/12/98	07:00	<i>[Signature]</i>	8/13/98	9:02					
Relinquished by: (Signature)		8/13/98	0:32	Received by Laboratory: (Signature)	Date	Time					
				<i>[Signature]</i>	8/13/98	14:33					

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

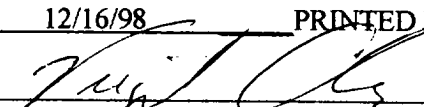
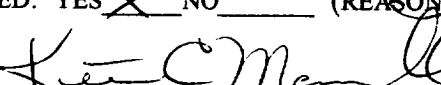
☐ 1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

☐ 11183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776-8945

54023

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Taurus Exploration USA Inc.</u> Telephone: <u>(505) 325 - 6800</u>	
Address: <u>2198 Bloomfield Hwy, Farmington N.M. 87401</u>	
Facility or Well Name: <u>Jicarilla 183 - 6</u>	
Location: Unit or Qtr/Qtr Sec <u>O</u> Sec <u>27</u> T <u>23</u> N <u>R 3</u> W County <u>Sandoval</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>8/11/98</u> Date Completed: <u>11/18/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>387</u>	
Composted <u> </u>	
Other <u> </u>	
<div>Depth to Groundwater: (pts) <u>0</u></div> <div>Distance to an Ephemeral Stream (pts) <u>0</u></div> <div>Distance to Nearest Lake, Playa, or Watering Pond (pts) <u>0</u></div> <div>Wellhead Protection Area (pts) <u>0</u></div> <div>Distance to Surface Water (pts) <u>0</u></div> <div>RANKING SCORE (TOTAL POINTS): <u>0</u></div>	<div style="text-align: center;">Final Closure Sampling:</div> <div>Sampling Date: <u>11/18/98</u> Time: <u>1500</u></div> <div>Sample Results:</div> <div>Field Headspace (ppm) <u>26.1</u></div> <div>TPH (ppm) <u><10</u> Method <u>8015</u></div> <div>Other: <u> </u></div>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>12/16/98</u> PRINTED NAME <u>VIRGIL CHAVEZ</u>	
SIGNATURE <u></u> AND TITLE <u>ENV. SPECIALIST</u>	
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 <u>X</u> NO <u> </u> (REASON) <u>use as Backfill</u>	
SIGNED: <u></u> DATE: <u>12-28-98</u>	



GASOLINE RANGE ORGANICS - GRO

TAURUS EXPLORATION U.S.A., INC.

Project ID: Jicarilla 183-6
Sample ID: Land Farm
Lab ID: 0398G06798
Sample Matrix: Soil
Condition: Cool/Intact

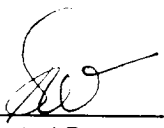
Report Date: 12/15/98
Date Sampled: 11/18/98
Date Received: 11/20/98
Date Analyzed: 12/08/98

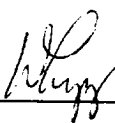
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	<5.0	5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:



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

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

DIESEL RANGE ORGANICS - DRO

TAURUS EXPLORATION U.S.A., INC.

Project ID: Jicarilla 183-6
Sample ID: Land Farm
Lab ID: 0398G06798
Sample Matrix: Soil
Condition: Cool/Intact


Report Date: 12/15/98
Date Sampled: 11/18/98
Date Received: 11/20/98
Date Analyzed: 12/04/98

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:



CHAIN OF CUSTODY RECORD

[illegible]