

*Denny E. Foust*  
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

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

**RECEIVED**  
JUN 24 1999

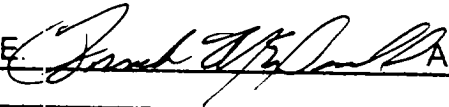
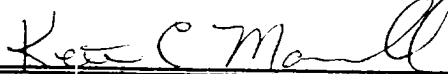
**OIL CON. DIV.**  
**DIST. 3**

Pit Remediation and Closure Report

Operator:	Taurus Exploration U.S.A., Inc			Telephone:	(505) 325-6800		
Address:	2198 Bloomfield Hwy, Farmington, NM 87401						
Facility or Well Name:	Jicarilla 95-3						
Location:	Unit or Qtr/QTR Sec "M" Sec 35, T 27 N, R 3 W County			Rio Arriba			
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit				
Land Type:	Range						
Pit Location:	Pit dimensions: length: 40 ft width: 35 ft depth: 10 ft						
(Attach Diagram)	Reference: wellhead: X other:						
	Footage from reference: 63 feet						
	Direction from reference: 50 Degrees East North X						
	X 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: <u>7/7/98</u>		Date Completed: <u>7/16/98</u>	
Remediation Method: (Check all appropriate sections)	Excavation:	<u>X</u>	Approx. cubic yds: <u>480</u>
	Landfarmed:	<u>X</u>	Insitu Bioremediation:
	Other:		
Remediation Location: (I.e. landfarmed on site, name and location of off site location)	On-site:	<u>X</u>	Off-site:
General Description of Remedial Action: <u>Soil was excavated and landfarmed on location.</u>			
Groundwater Encountered:		No: <u>X</u>	Yes: <u>        </u> Depth: <u>        </u>
Final Pit Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample location: <u>West wall @ 7 feet below surface. Pit bottom and walls were analyzed for Headspace (see attachment).</u>		
	Sample depth:	<u>7 feet</u>	
	Sample date:	<u>7/16/98</u>	Sample time: <u>1123</u>
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)	<u>ND</u>	Benzene (ppb)	<u>        </u>
Total BTEX (ppm)	<u>ND</u>	Toluene (ppb)	<u>        </u>
Field Headspace (ppm)	<u>463</u>	Ethylbenzene (ppb)	<u>        </u>
TPH (ppm)	<u>46</u>	Total Xylenes (ppb)	<u>        </u>
Groundwater Sample: (If yes, attach sample results.)	Yes: <u>        </u>	No: <u>X</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>8/26/98</u>		Frank McDonald	
SIGNATURE: 		AND TITLE: <u>Env. Division Manager</u>	
AFTER REVIEW OF THE PIT CLOSURE INFORMATION PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED: Yes: <u>X</u> No: <u>        </u> (Reason) <u>        </u>			
SIGNED: 		DATE: <u>9-2-98</u>	

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

Date Started : July 7, 1998 Date Completed : July 16, 1998

<p>Location : <u>Jicacilla 95 - 3</u></p> <p>Quad : <u>M</u> Section : <u>35</u></p> <p>Range : <u>3 W</u> Township : <u>27 N</u></p> <p>Pit : <u>Abandoned Separator Pit</u></p> <p>Reference : <u>63' N 50 W</u>  <u>from wellhead</u></p> <p>Initial Size : <u>18' x 18' x 3' deep</u></p> <p>Final Size : <u>40' x 35' x 10' deep</u></p> <p>Yds. Excavated : <u>480 cy</u></p> <p>Depth to Groundwater : <u>&gt;100'</u></p> <p>Nearest Water Source : <u>&gt;1000'</u></p> <p>Nearest Surface Water : <u>&gt;1000'</u></p> <p>Nearest Ephemeral Stream : <u>&gt;1000'</u></p> <p>EPO Ranking Score : <u>0</u></p> <p>TPH Closure Standard : <u>5000</u></p> <p>Comments : <u>Top soil - 10' Soil is dry, clay/shale, with a moderate hydrocarbon odor, and maroon and gray staining.</u>  <u>10' Bedrock encountered.</u>  <u>Excavation was limited in all directions due to equipment, and active gas lines.</u>  <u>A sample from the west wall @ 7' was sent to IML for GRO/DRO and BTEX analysis.</u></p>		<p>Overview of Location and Sampling :</p>																																								
<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 @ 7'</td> <td>382</td> </tr> <tr> <td>2</td> <td>S Wall @ 7'</td> <td>359</td> </tr> <tr> <td>3</td> <td>E. Wall @ 7'</td> <td>325</td> </tr> <tr> <td>4</td> <td>W. Wall @ 7'</td> <td>463</td> </tr> <tr> <td>5</td> <td>Bottom @ 10'</td> <td>401</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 @ 7'	382	2	S Wall @ 7'	359	3	E. Wall @ 7'	325	4	W. Wall @ 7'	463	5	Bottom @ 10'	401	6			7			8			9			10			11			12			<p>Pit Profile : East to West :</p>	
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<p>Pit Profile : North to South :</p>		<p>Pit Profile : East to West :</p>																																								

**GASOLINE RANGE ORGANICS - GRO****Taurus Exploration U.S.A., Inc.**

Project ID: Jicarilla 95-3  
Sample ID: W. Wall @ 7'  
Lab ID: 0358G04028  
Sample Matrix: Soil  
Condition: Cool/Intact

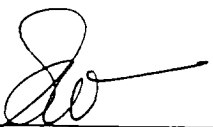
Report Date: 07/29/98  
Date Sampled: 07/16/98  
Date Received: 07/17/98  
Date Analyzed: 07/23/98

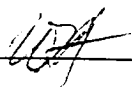
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	40.6	5.0 mg/kg
Total Purgeable Hydrocarbons:	58.7	5.0 mg/kg

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 95-3  
Sample ID: W. Wall @ 7'  
Lab ID: 0398G04028  
Sample Matrix: Soil  
Condition: Cool/Intact


Report Date: 07/29/98  
Date Sampled: 07/16/98  
Date Received: 07/17/98  
Date Analyzed: 07/23/98

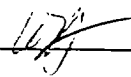
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	5.3	5.0 mg/kg

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 95-3 Sep. Pit  
Sample ID: W. 'Wall @ 7'  
Lab ID: 0398G04028  
Sample Matrix: Soil  
Condition: Cocci/Intact

Report Date: 07/29/98  
Date Sampled: 07/16/98  
Time Sampled: 11:23am  
Date Received: 07/17/98  
Date Extracted: NA  
Date Analyzed: 07/17/98

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.

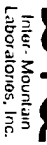
Quality Control:      Surrogate                      Percent Recovery                      Acceptance Limits  
Bromofluorobenzene                      87%                      70%-130%

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



## CHAIN OF CUSTODY RECORD

Client/Project Name <i>Tanner's Exploration 11511 Twp</i>				Project Location <i>Township 95-3 Separator R. 4</i>		ANALYSES / PARAMETERS									
Sampler: (Signature) <i>[Signature]</i>				Chain of Custody Tape No.											
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	REMARKS									
<i>70 95-3 11511 Twp 7</i>	<i>11/16/98</i>	<i>11:23</i>		<i>Soil</i>	<i>1</i>										
<div style="display: flex; justify-content: space-between;"> <div><i>Impact, hand delivered</i></div> <div><i>CR</i></div> </div>															
Relinquished by: (Signature) <i>[Signature]</i>						Date <i>7/17/98</i>		Time <i>07:25</i>		Received by: (Signature) <i>[Signature]</i>		Date <i>7/17/98</i>		Time <i>925</i>	
Relinquished by: (Signature) <i>[Signature]</i>						Date <i>11/19/98</i>		Time <i>8:21</i>		Received by: (Signature) <i>[Signature]</i>		Date <i>7-17-98</i>		Time <i>0821</i>	

☐ 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

**Inter-Mountain Laboratories, Inc.**  
54536

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: 2193 Bloomfield Hwy, Farmington N.M. 87401

Facility or Well Name: Jicarilla 95 - 3

Location: Unit or Qtr/Qtr Sec M Sec 35 T 27 N R 3 W County Rio Arriba

Land Type: Range

Date Remediation Started: 7/7/98 Date Completed: 12/11/98

Remediation Method: Landfarmed X Approx. cubic yards 480

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: 12/11/98 Time: 08:30

**Sample Results:**

Field Headspace (ppm) 21.7

TPH (ppm) <28 Method 8015

Other:       

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

DATE: 1/6/99 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 X NO        (REASON) was not Backfill

SIGNED: K-CM DATE: 1-7-99



Client : Taurus Exploration USA Inc.

Date Started : July 7, 1998 Date Completed : December 11, 1998

Location : Jicarilla 95-3			Overview of Landfarm and Sampling :		
Quad : M	Section : 35				
Township: 27 N	Range: 3 W				
Pit : Separator Pit					
Reference 105' N 80 W from wellhead.					
Size: 150' x 50' x 1.5'					
60' x 20' x 1.5'					
Yds : 480					
3 5 - Point Composites					
	Sample #	Location	OVIM		
	1	Comp 1	21.7		
	2	Comp 2	11.6		
	3	Comp 3	15.6		
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
Comments : Soil is moist,pale brown,sandy/loam, with no visible staining or detectable hydrocarbon odor.			<div>Surface Gradient</div> <p>land farm</p> <p>3 3 3 2 2</p> <p>3 3 3 2 2</p> <p>production tank</p> <p>well head</p> <p>separator</p> <p>dehy</p> <p>meter run meter run</p> <p>North</p>		
A sample from composite # 1 was sent to IML for GRO/DRO analysis.					
Environmental Specialist: JE					

Ranking Score : 0 Closure Standard : 5000 ppm

Cimarron Oilfield Services



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

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

## GASOLINE RANGE ORGANICS - GRO

### ENERGEN RESOURCES

Project ID: Jicarilla 95-3  
Sample ID: Landfarm Comp #1  
Lab ID: 0398G07295  
Sample Matrix: Soil  
Condition: Cool/Intact

Report Date: 12/31/98  
Date Sampled: 12/11/98  
Date Received: 12/11/98  
Date Analyzed: 12/30/98\*


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:

\*Sample was analyzed within holding times, however, due to instrument problems and QC failure, the sample had to be re-analyzed to verify results.

  
Reported By:

  
Reviewed By:



Phone (505) 326-4737 Fax (505) 325-4132

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

## DIESEL RANGE ORGANICS - DRO

### ENERGEN RESOURCES


Project ID:	Jicarilla 95-3	Report Date:	12/31/98
Sample ID:	Landfarm Comp #1	Date Sampled:	12/11/98
Lab ID:	0398G07295	Date Received:	12/11/98
Sample Matrix:	Scil	Date Analyzed:	12/23/98
Condition:	Ccol/Intact		

TPH DIESEL RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	23	5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

  
Reported By:

  
Reviewed By:



## CHAIN OF CUSTODY RECORD

[illegible]