

*Denny E. Foust*  
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

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

*OK*  
**RECEIVED**  
JUN 24 1999

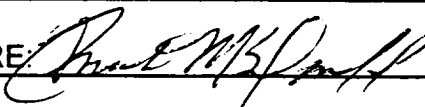
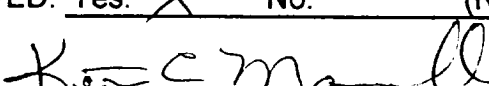
**OIL CON. DIV.**  
**DIST. 3**

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 183-3				
Location:	Unit or Qtr/QTR Sec "L" Sec 28, T 23 N, R 3 W County				Sandoval
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit		
Land Type:	Range				
Pit Location:	Pit dimensions: length: 30 ft width: 30 ft depth: 8 ft				
(Attach Diagram)					
Reference:	wellhead: X other:				
Footage from reference:	20 feet				
Direction from reference:	50	Degrees	X East	North	
				of	
			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

Pit Remediation and Closure Report

Date Remediation Started: <u>9/2/98</u>		Date Completed: <u>9/3/98</u>	
Remediation Method: (Check all appropriate sections)	Excavation:	<u>X</u>	Approx. cubic yards: <u>250</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: _____ Depth: _____			
Final Pit Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)		Sample location: <u>Pit Bottom @ 8 feet below surface. Pit walls were analyzed for Headspace (see attachment).</u>	
Sample Results:		Sample depth: <u>8 feet</u>	
		Sample date: <u>9/3/98</u> Sample time: <u>11:30</u>	
<b>Soil:</b>		<b>Water:</b>	
Benzene (ppm) <u>0.338</u>		Benzene (ppb) _____	
Total BTEX (ppm) <u>4.28</u>		Toluene (ppb) _____	
Field Headspace (ppm) <u>171</u>		Ethylbenzene (ppb) _____	
TPH (ppm) <u>267</u>		Total Xylenes (ppb) _____	
Groundwater Sample: Yes: _____		No: <u>X</u>	
(If yes, attach sample results.)			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>10/16/98</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: _____ (Reason) _____			
SIGNED: 		DATE: <u>10/27/98</u>	

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

Date Started: September 2, 1998 Date Completed: September 3, 1998

<p><b>Location:</b> Jicarilla 183 #3</p> <p><b>Quad:</b> L      <b>Section:</b> 28</p> <p><b>Range:</b> 3 W      <b>Township:</b> 23 N</p> <p><b>Pit:</b> Abandoned Separator Pit  <b>Reference:</b> 20' S 50 E          from wellhead  <b>Initial Size:</b> 20' x 20' x 1' deep  <b>Final Size:</b> 30' x 30' x 8' deep  <b>Yds. Excavated:</b> 250 cy  <b>Depth to Groundwater:</b> &gt;100'  <b>Nearest Water Source:</b> &gt;1000'  <b>Nearest Surface Water:</b> &gt;1300'  <b>Nearest Epithermal Stream:</b> &gt;1000'  <b>EPO Ranking Score:</b> 0  <b>TPH Closure Standard:</b> 5000</p> <p><b>Comments:</b> Top soil - 8' Soil a moist, brown, sandy - loam with some orange colored staining and a moderate HC odor.          A sample from the center bottom at 8' was sent to JML for GROUNDRO and BTEX analysis.</p>		<p><b>Overview of Location and Sampling:</b></p>	
<p><b>Pit Profile: North to South:</b></p>	<p><b>Pit Profile: East to West:</b></p>		

Environmental Specialist: YC

Cimarron Oilfield Services

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

Project ID:	Jicarilla 183 #3 Sep. Pit	Report Date:	09/21/98
Sample ID:	C. Bottom @ 8'	Date Sampled:	09/03/98
Lab ID:	0398G05142	Date Received:	09/04/98
Sample Matrix:	Soil	Date Analyzed:	09/17/98
Condition:	Cool/Intact		

**TPH GAS-RANGE (MOD EPA 8015)****RESULT****DETECTION LIMIT**

Gasoline-Range Petroleum Hydrocarbons

**262**

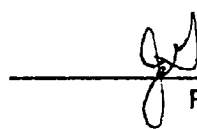
5.0 mg/kg

Total Purgeable Hydrocarbons

**272**

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.

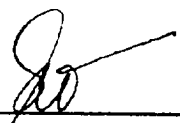
Project ID:	Jicarilla 183 #3 Sep. Pit	Report Date:	09/21/98
Sample ID:	C. Bottom @ 8'	Date Sampled:	09/03/98
Lab ID:	0398G05142	Date Received:	09/04/98
Sample Matrix:	Soil	Date Analyzed:	09/17/98
Condition:	Cool/Intact		

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 #3 Sep. Pit  
Sample ID: C. Bottom @ 8'  
Lab ID: 0398G05142  
Sample Matrix: Soil  
Condition: Cool/Intact

Report Date: 09/21/98  
Date Sampled: 09/23/98  
Time Sampled: 11:30  
Date Received: 09/04/98  
Date Extracted: NA  
Date Analyzed: 09/18/98


Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	354	10.0
Toluene	2301	50.0
Ethylbenzene	207	50.0
m,p-Xylenes	800	50.0
o-Xylene	363	50.0

ND - Analyte not detected at the stated detection limit.

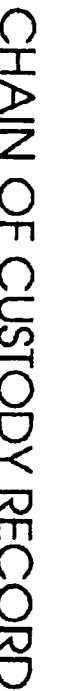
<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Bromofluorobenzene	55%*	70%-130%

**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:** \*Surrogate recovery failed due to matrix interferences.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

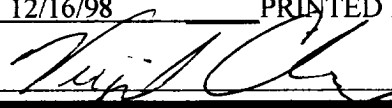
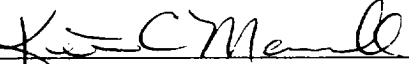


## CHAIN OF CUSTODY RECORD

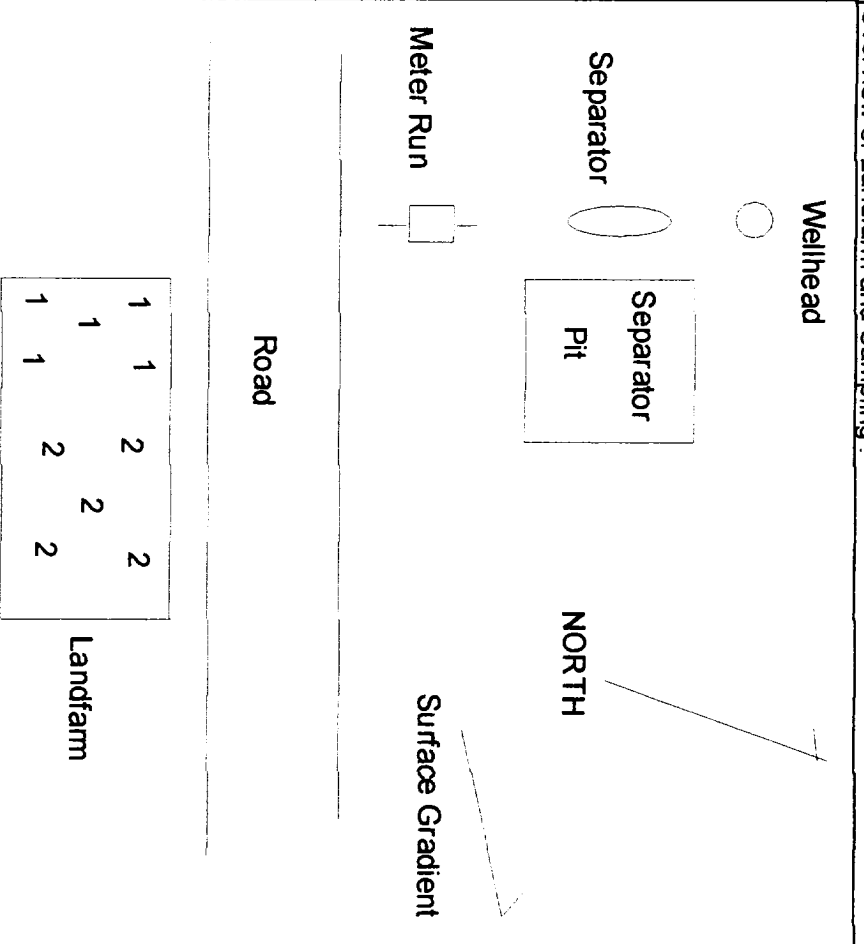
54127

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 - 3</u>	
Location: Unit or Qtr/Qtr Sec <u>L</u> Sec <u>28</u> T <u>23</u> N <u>R 3</u> W County <u>Sandoval</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>9/02/98</u> Date Completed: <u>11/18/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>250</u>	
Composted <u>      </u>	
Other <u>      </u>	
<p>Depth to Groundwater: (pts) <u>0</u></p> <p>Distance to an Ephemeral Stream (pts) <u>0</u></p> <p>Distance to Nearest Lake, Playa, or Watering Pond (pts) <u>0</u></p> <p>Wellhead Protection Area (pts) <u>0</u></p> <p>Distance to Surface Water (pts) <u>0</u></p> <p><b>RANKING SCORE</b> (TOTAL POINTS): <u>0</u></p>	<p style="text-align: center;"><b>Final Closure Sampling:</b></p> <p>Sampling Date: <u>11/18/98</u> Time: <u>1645</u></p> <p>Sample Results:</p> <p>Field Headspace (ppm) <u>4</u></p> <p>TPH (ppm) <u>&lt;10</u> Method <u>8015</u></p> <p>Other: <u>      </u></p>
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p> <p>DATE: <u>12/16/98</u> PRINTED NAME <u>VIRGIL CHAVEZ</u></p> <p>SIGNATURE <u></u> AND TITLE <u>ENV. SPECIALIST</u></p>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.</p> <p>APPROVED: YES <u>X</u> NO <u>      </u> (REASON) <u>use as Backfill</u></p> <p>SIGNED: <u></u> DATE: <u>12-28-98</u></p>	



Location : <u>Jicarilla 183 - 3</u>			Overview of Landfarm and Sampling :																																								
Quad : <u>L</u> Section : <u>28</u>																																											
Township: <u>23 N</u> Range: <u>3 W</u>																																											
Pit :	Separator	<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>OVM</th></tr></thead><tbody><tr><td>1</td><td>Comp 1</td><td>0.4</td></tr><tr><td>2</td><td>Comp 2</td><td>0.4</td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></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	Comp 1	0.4	2	Comp 2	0.4	3			4			5			6			7			8			9			10			11			12				
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9																																											
10																																											
11																																											
12																																											
Reference <u>120' S 70 E</u> from wellhead.																																											
Size: <u>105' x 50' x 1'</u>																																											
Yds : <u>250</u>																																											
<u>2</u> <u>5 - Point Composites</u>																																											
Comments : <u>Soil is moist, light brown, sandy/loam, with no staining or hydrocarbon odor.</u>																																											
<u>A sample from composite # 1 was sent to IML for GRO/DRO analysis.</u>																																											
Environmental Specialist : <u>JE</u>																																											



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

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

## GASOLINE RANGE ORGANICS - GRO

### TAURUS EXPLORATION U.S.A., INC.

Project ID: Jicarilla 183-3  
Sample ID: Land Farm Comp #1  
Lab ID: 0398G06801  
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 183-3	Report Date:	12/15/98
Sample ID:	Land Farm Comp #1	Date Sampled:	11/18/98
Lab ID:	0398G06801	Date Received:	11/20/98
Sample Matrix:	Soil	Date Analyzed:	12/04/98
Condition:	Cool/Intact		

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

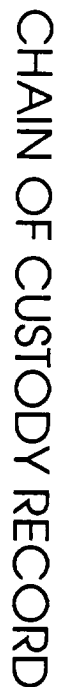
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

  
Reported By:

  
Reviewed By:



## CHAIN OF CUSTODY RECORD

Received  
Cord/Mr. T. A. C.