

*Denny E. Faust*  
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

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

04  
**RECEIVED**  
JUN 24 1999

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

*Approved*  
**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 107 F # 8				
Location:	Unit or Qtr/QTR Sec "B" Sec 33, T 26 N, R 4 W		County	Rio Arriba	
Pit Type:	Separator:	Dehydrator:	Other: X - Separator/Production Tank Pit		
Land Type:	Range				
Pit Location:	Pit dimensions: length: 30 ft width: 30 ft depth: 6 ft				
(Attach Diagram)	Reference: wellhead: X other:				
	Footage from reference: 55				
	Direction from reference: 80 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

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Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started:	11/16/98	Date Completed	11/17/98
Remediation Method:	Excavation:	Approx. cubic yards: 185	
(Check all appropriate sections)	Landfarmed:	Insitu Bioremediation:	
	Other:		
Remediation Location:	On-site:	Off-site:	
(I.e. landfarmed on site, name and location of off site location)			
General Description of Remedial Action:	Soil was excavated and landfarmed on location.		
Groundwater Encountered:	No: X	Yes:	Depth:
Final Pit Closure Sampling:	Sample location: West wall @ 5'. Pit walls and pit bottom were		
(If multiple samples, attach sample results and diagram of sample locations and depths.)	analyzed for Headspace (see attachment).		
	Sample depth:	West wall @ 5'. (Bedrock)	
	Sample date:	11/17/98	Sample time: 14:30
Sample Results:			
<b>Soil:</b>	<b>Water:</b>		
Benzene (ppm)	0.139	Benzene (ppb)	
Total BTEX (ppm)	0.767	Toluene (ppb)	
Field Headspace (ppm)	128	Ethylbenzene (ppb)	
TPH (ppm)	<566	Total Xylenes (ppb)	
Groundwater Sample:	Yes:	No: X	
(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:	12/16/98	Virgil Chavez	
SIGNATURE:	AND TITLE: Env. Specialist		
AFTER REVIEW OF THE PIT CLOSURE INFORMATION PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED:	Yes: X	No:	(Reason)
SIGNED:	DATE: 12-17-98		

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

Date Started: November 16, 1998 Date Completed: November 17, 1998

Location: <u>Jicarilla 107 F # 8</u>		Overview of Location and Sampling:	
Quad: <u>B</u> Section: <u>33</u>			
Range: <u>4 W</u> Township: <u>26 N</u>		Pit: Separator/ Production Tank Pit Reference: <u>55' N 80 E</u> Initial Size: <u>12' x 12' x 3' deep</u> Final Size: <u>30' x 30' x 6' deep</u> Yds. Excavated: <u>185 cy</u> Depth to Groundwater: <u>&gt;100'</u> Nearest Water Source: <u>&gt;1000'</u> Nearest Surface Water: <u>&gt;1000'</u> Nearest Ephemeral Stream: <u>&gt;1000'</u> EPO Ranking Score: <u>0</u> TPH Closure Standard: <u>5000</u>	
Comments: <u>Top soil - 6" Soil is moist clay/loam, with a moderate hydrocarbon odor, and dark gray staining.</u> <u>6" - Bedrock encountered.</u> <u>Note: Entire pit is encased in Bedrock</u> <u>A sample from the west wall @ 5' was sent to M/L for GRO/DRO and BTEX analysis.</u>		Pit Profile: North to South:	
		Pit Profile: East to West:	

Environmental Specialist: VC

Omaron 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

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

Project ID:	Jicarilla 107-F8	Report Date:	12/15/98
Sample ID:	West Wall Prod. Pit	Date Sampled:	11/17/98
Lab ID:	0398G06793	Date Received:	11/20/98
Sample Matrix:	Soil	Date Analyzed:	12/08/98
Condition:	Cool/Intact		

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

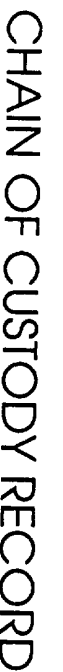
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By:



## CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSES / PARAMETERS											
Taurus Exploration Sample: (Signature) William G. Gots			Sic 107-F8														
Chain of Custody Tape No.																	
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks											
<del>11-17-98</del>	11-17-98	1430		Soil	1	8015 Geo DRO	8020 GTEX										
West wall																	
Prod. Pit																	
Received cut/joint																	
Relinquished by: (Signature) William G. Gots			Date 11-20-98		Time 1322		Received by: (Signature) William G. Gots										
Relinquished by: (Signature) William G. Gots			Date 11-20-98		Time 1520		Received by: (Signature) William G. Gots										
Relinquished by: (Signature)			Date		Time		Received by laboratory: (Signature)										
Inter-Mountain Laboratories, Inc.																	
<input type="checkbox"/> 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945			<input type="checkbox"/> 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945			<input checked="" type="checkbox"/> 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737											
<input type="checkbox"/> 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450			<input type="checkbox"/> 11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945			57700											

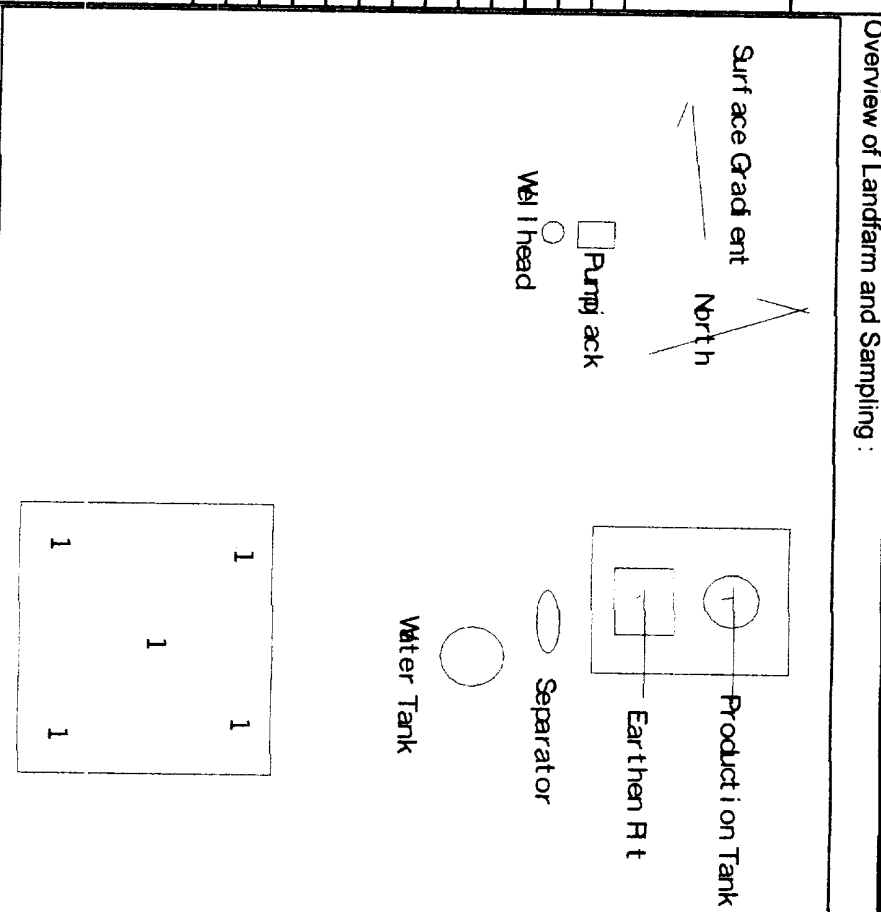
JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

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 107 F 8</u>	
Location: Unit or Qtr/Qtr Sec <u>B</u> Sec <u>33</u> T <u>26 N</u> R <u>4 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>11/16/98</u> Date Completed: <u>12/14/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>185</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> <b>(TOTAL POINTS):</b> <u>0</u></p>	<p style="text-align: center;"><b>Final Closure Sampling:</b></p> <p>Sampling Date: <u>12/14/98</u> Time: <u>11:20</u></p> <p>Sample Results:</p> <p>Field Headspace (ppm) <u>12.4</u></p> <p>TPH (ppm) <u>&lt;10</u> Method <u>8015</u></p> <p>Other: <u>      </u></p>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>1/6/99</u> PRINTED NAME <u>VIRGIL CHAVEZ</u>	
SIGNATURE <u>[Signature]</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>was as Backfill</u>	
SIGNED: <u>[Signature]</u> DATE: <u>1-7-99</u>	

Client : Taurus Exploration USA Inc.

Date Started : November 16, 1998 Date Completed : December 14, 1998

Location : <u>Jicarilla 107 F # 8</u>			<b>Overview of Landfarm and Sampling :</b>  <div style="text-align: center;"></div>																																						
Quad : <u>B</u> Section : <u>33</u>																																									
Township: <u>26 N</u> Range: <u>4 W</u>																																									
Pit : <u>Separator/Prod Tank</u>																																									
Reference <u>275' S 10 E</u>																																									
Size : <u>75' x 75' x 1' deep</u>																																									
Yds : <u>185</u>																																									
1 <u>5</u> - Point Composites																																									
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 15%;">Sample #</th><th style="width: 25%;">Location</th><th style="width: 15%;">OVM</th></tr></thead><tbody><tr><td>1</td><td>Comp 1</td><td>12.4</td></tr><tr><td>2</td><td></td><td></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	12.4	2			3			4			5			6			7			8			9			10			11			12		
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11																																									
12																																									
Comments : <u>Soil is moist, brown, clay/loam with no visible staining or detectable hydrocarbon odor.</u>																																									
<u>A sample from composite # 1 was sent to IML for GRO/DRO analysis.</u>																																									
Environmental Specialist : <u>VC</u>																																									



## GASOLINE RANGE ORGANICS - GRO

### ENERGEN RESOURCES

Project ID: Jicarilla 107 F8 Landfarm  
Sample ID: Comp #1  
Lab ID: 0398G07315  
Sample Matrix: Soil  
Condition: Cool/Intact

Report Date: 12/31/98  
Date Sampled: 12/14/98  
Date Received: 12/15/98  
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 the holding times, however, due to instrument problems and QC failure, the sample had to be re-analyzed to verify results.

  
Reported By:

  
Reviewed By:





DIESEL RANGE ORGANICS - DRO  
ENERGEN RESOURCES

Project ID:

Jicarilla 107 F& Landfarm

Report Date:

12/31/98

Sample ID:

Comp #1

Date Sampled:

12/14/98

Lab ID:

0398G07315

Date Received:

12/15/98

Sample Matrix:

Soil

Date Analyzed:

12/30/98

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:

METERS		Remarks	