

*Denny E. Foust*  
DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

*Approved*

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


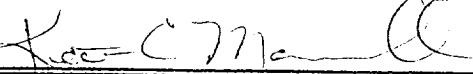
Pit Remediation and Closure Report

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 3-F						
Location:	Unit or Qtr/QTR Sec "E" Sec 21, T 26 N, R 5 W County				Rio Arriba		
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit				
Land Type:	Range						
Pit Location:	Pit dimensions: length: 15 ft width: 15 ft depth: 4 ft						
(Attach Diagram)	Reference: wellhead: X other:						
	Footage from reference: 10 feet						
	Direction from reference: 80 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		

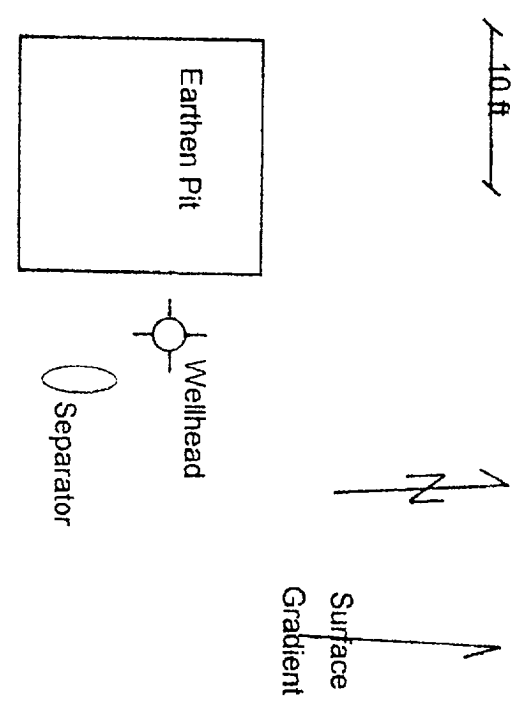
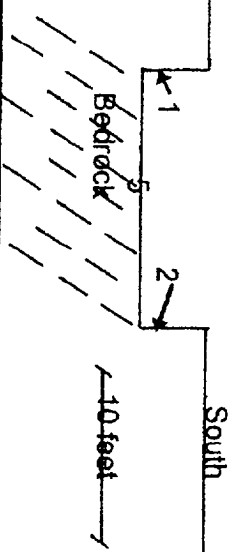
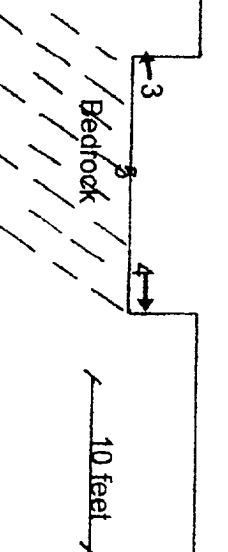
Jicarilla Apache Tribe  
Environmental Protection Office  
P.O. Box 507  
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started: <u>7/27/98</u>		Date Completed: <u>7/27/98</u>	
Remediation Method: (Check all appropriate sections)	Excavation:	<u>X</u>	Approx. cubic yd: <u>25</u>
	Landfarmed:	<u>X</u>	In situ 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:		Soil was excavated and landfarmed on location.	
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 @ 4 feet below surface (Bedrock). Pit walls were analyzed for Headspace (see attachment).</u>		
	Sample depth:	<u>4 feet (Bedrock)</u>	
	Sample date:	<u>7/27/98</u>	Sample time: <u>1335</u>
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)	_____	Benzene (ppb)	_____
Total BTEX (ppm)	_____	Toluene (ppb)	_____
Field Headspace (ppm)	<u>92</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>54</u>	Total Xylenes (ppb)	_____
Groundwater Sample: (If yes, attach sample results.)	Yes: _____	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: _____ (Reason) _____			
SIGNED: 		DATE: <u>9-2-98</u>	

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

Date Started : July 27, 1998 Date Completed : July 27, 1998

Location : <u>Jicarilla 3 - F</u>		Overview of Location and Sampling :																																								
Quad : <u>E</u>	Section : <u>21</u>																																									
Range : <u>5 W</u>	Township: <u>28 N</u>																																									
<p>Pit : Abandoned Separator Pit Reference : 10' S 80 W from wellhead</p> <p>Initial Size : 15' x 15' x 1' deep Final Size : 15' x 15' x 4' deep Yds. Excavated : 25 cy</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>		<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>OVM</th></tr></thead><tbody><tr><td>1</td><td>N. Wall @ 3'</td><td>68.2</td></tr><tr><td>2</td><td>S. Wall @ 3'</td><td>47.8</td></tr><tr><td>3</td><td>E. Wall @ 3'</td><td>61.1</td></tr><tr><td>4</td><td>W. Wall @ 3'</td><td>0.7</td></tr><tr><td>5</td><td>C. Btm @ 4'</td><td>92</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 @ 3'	68.2	2	S. Wall @ 3'	47.8	3	E. Wall @ 3'	61.1	4	W. Wall @ 3'	0.7	5	C. Btm @ 4'	92	6			7			8			9			10			11			12		
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<p>Comments : Top soil - 4' Soil is moist, brown, sandy/loam, with visible staining, and a strong hydrocarbon odor. 4' Bedrock encountered. A sample from the center bottom at 4' was sent to IML for GRO/DRO analysis.</p>																																										
Pit Profile : North to South :		Pit Profile : East to West :																																								
																																										

Environmental Specialist : VC

Cimarron Oilfield Services

## GASOLINE RANGE ORGANICS - GRO

### Taurus Exploration

Project ID: Jicarilla 3-F Sep. Pit  
Sample ID: C Bottom @ 4'  
Lab ID: 0398G04238  
Sample Matrix: Soil  
Condition: Cool/Intact

Report Date: 08/13/98  
Date Sampled: 07/27/98  
Date Received: 07/28/98  
Date Analyzed: 08/11/98

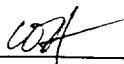
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	28.8	5.0 mg/kg

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 3-F Sep. Pit	Report Date:	08/03/98
Sample ID:	C Bottom @ 4'	Date Sampled:	07/27/98
Lab ID:	0398G04238	Date Received:	07/28/98
Sample Matrix:	Soil	Date Analyzed:	08/03/98
Condition:	Cool/Intact		

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	25	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

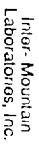
Comments:



Reported By:



Reviewed By:



## CHAIN OF CUSTODY RECORD

Client/Project Name <b>Taurus Exploration UIC# Tne</b>				Project Location <b>Sincilla 3-F Sapinero R2</b>		ANALYSES / PARAMETERS			
Sampler: (Signature) <i>[Signature]</i>		Chain of Custody Tape No.							
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	REMARKS			
<b>Inc 3-F C Blumey</b>	<b>7/27/88</b>	<b>13.35</b>		<b>Soil</b>	<b>1</b>				
						<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <b>HAZ GPO/DRO</b> </div>			

Relinquished by: (Signature) <i>[Signature]</i>		Date <b>7/28/88</b>	Time <b>07:35</b>	Received by: (Signature) <i>[Signature]</i>	Received by Laboratory: (Signature) <i>[Signature]</i>	Date <b>7-28-88</b>	Time <b>0710</b>
Relinquished by: (Signature) <i>[Signature]</i>		Date <b>7-28-88</b>	Time <b>0910</b>	Received by: (Signature) <i>[Signature]</i>	Received by Laboratory: (Signature) <i>[Signature]</i>	Date <b>7-28-88</b>	Time <b>0910</b>

**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	<b>54580</b>

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 3 - F</u>	
Location: Unit or Qtr/Qtr Sec <u>E</u> Sec <u>21</u> T <u>26 N</u> R <u>5 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>7/27/98</u> Date Completed: <u>12/3/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>25</u>	
Composted <u>      </u>	
Other <u>      </u>	
Depth to Groundwater: (pts) <u>0</u>	<b>Final Closure Sampling:</b>
Distance to an Ephemeral Stream (pts) <u>0</u>	Sampling Date: <u>12/3/98</u> Time: <u>12:00</u>
Distance to Nearest Lake, Playa, or Watering Pond (pts) <u>0</u>	Sample Results:
Wellhead Protection Area (pts) <u>0</u>	Field Headspace (ppm) <u>3.4</u>
Distance to Surface Water (pts) <u>0</u>	TPH (ppm) <u>&lt;10</u> Method <u>8015</u>
<b>RANKING SCORE</b> (TOTAL POINTS): <u>0</u>	Other: <u>      </u>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>1/8/99</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>use as Backfill</u>	
SIGNED: <u>[Signature]</u> DATE: <u>1-20-99</u>	







## GASOLINE RANGE ORGANICS - GRO

### ENERGEN RESOURCES

Project ID:	Jicarilla F-3 Sep. Pit	Report Date:	12/31/98
Sample ID:	Landfarm Comp #1	Date Sampled:	12/03/98
Lab ID:	0398G07048	Date Received:	12/07/98
Sample Matrix:	Soil	Date Analyzed:	12/24/98*
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

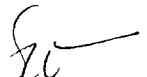
Project ID:	Jicarilla F-3 Sep. Pit	Report Date:	12/29/98
Sample ID:	Landfarm Comp #1	Date Sampled:	12/03/98
Lab ID:	0398G07048	Date Received:	12/07/98
Sample Matrix:	Soil	Date Analyzed:	12/17/98
Condition:	Cool/Intact		

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:



## CHAIN OF CUSTODY RECORD

070301