

*Denny S. Faust*  
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 55-1		
Location:	Unit or Qtr/QTR Sec "K" Sec 35, 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: 45 ft depth: 11 ft		
(Attach Diagram)	Reference: wellhead: X other:		
	Footage from reference: 100 feet		
	Direction from reference: 40 Degrees East North X		
	X West South		
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevations of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	  0
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	 0
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas, and livestock or wildlife watering ponds)	Less than 100 feet Greater Than 100 feet	(10 points) (0 points)	 0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points)	 0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	  0
RANKING SCORE (TOTAL SCORE):			0

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Pit Remediation and Closure Report

Date Remediation Started:	8/13/98	Date Completed	8/17/98
Remediation Method:	Excavation:	X	Approx. cubic yd: 436
(Check all appropriate sections)	Landfarmed:	X	Insitu Bioremediation:
	Other:		
Remediation Location:	On-site:	X	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: East wall @ 9 feet below surface . Pit Bottom & walls were analyzed for Headspace (see attachment).		
(If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample depth:	9 feet	
	Sample date:	8/17/98	Sample time: 1320
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)		Benzene (ppb)	
Total BTEX (ppm)		Toluene (ppb)	
Field Headspace (ppm)	36.2	Ethylbenzene (ppb)	
TPH (ppm)	<10	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:	8/31/98	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: X No: (Reason)			
SIGNED: <i>Ken C. McDonald</i>		DATE: 9-2-98	

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

Date Started : August 13, 1998 Date Completed : August 17, 1998

Location : <u>Jicarilla 55 # 1</u>		Overview of Location and Sampling :																																								
Quad : <u>K</u> Section : <u>35</u>																																										
Range : <u>3 W</u> Township: <u>23 N</u>																																										
Pit : Abandoned Separator Pit Reference : 100' N 40 W Initial Size : 20' x 20' x 1.5' deep Final Size : 25' x 45' x 11' deep Yds. Excavated : 436 cy Depth to Groundwater : >100' Nearest Water Source : >1000' Nearest Surface Water : >1000' Nearest Ephemeral Stream : >1000' EPO Ranking Score : 0 TPH Closure Standard : 5000																																										
Comments : Top soil - 11' Soil is dry, gray/maroon, clay - shale with some black staining and a strong hydrocarbon odor. 11' Bedrock A sample from the east wall @ 9' was sent to IML for GRO/DRO analysis.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample #</th> <th>Location</th> <th>OVUM</th> </tr> </thead> <tbody> <tr><td>1</td><td>N Wall @ 9'</td><td>3.1</td></tr> <tr><td>2</td><td>S Wall @ 9'</td><td>24.1</td></tr> <tr><td>3</td><td>E Wall @ 9'</td><td>36.2</td></tr> <tr><td>4</td><td>W Wall @ 9'</td><td>3.8</td></tr> <tr><td>5</td><td>C. Btm @ 11'</td><td>20</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	OVUM	1	N Wall @ 9'	3.1	2	S Wall @ 9'	24.1	3	E Wall @ 9'	36.2	4	W Wall @ 9'	3.8	5	C. Btm @ 11'	20	6			7			8			9			10			11			12		
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Pit Profile : North to South :		Pit Profile : East to West :																																								

Environmental Specialist : YC

Cimarron Oilfield Services

Frank McDonald  
Cimarron Oilfield Service Co.  
P. O. Box 3235  
Farmington, NM 87401

August 24, 1998

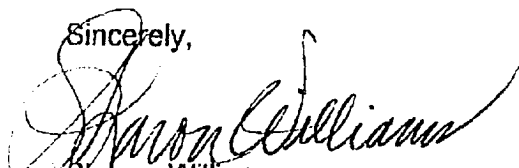
Mr. McDonald:

Enclosed, please find the reports for the samples submitted for Taurus Exploration to our laboratory on August 18, 1998.

If you have any questions about the result of these analyses, please don't hesitate to call at your convenience.

We appreciate your business!

Sincerely,



Sharon Williams  
Organics Lab Supervisor

Enclosure

xc: File

COPY

## DIESEL RANGE ORGANICS - DRO

### Taurus Exploration U.S.A., Inc.

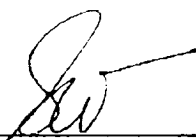
Project ID:	Jicarilla 55-1 Sep. Pit	Report Date:	08/24/98
Sample ID:	E. Wall @9'	Date Sampled:	08/17/98
Lab ID:	0398G04562	Date Received:	08/18/98
Sample Matrix:	Soil	Date Analyzed:	08/20/98
Condition:	Cool/Intact		

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

COPY

## GASOLINE RANGE ORGANICS - GRO

### Taurus Exploration U.S.A., Inc.


Project ID:	Jicarilla 55-1 Sep. Pit	Report Date:	08/24/98
Sample ID:	E. Wall @ 9'	Date Sampled:	08/17/98
Lab ID:	0398G04562	Date Received:	08/18/98
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

COPY

Client/Project Name			Project Location			ANALYSES / PARAMETERS								
Taurus Exploration US# Inc			Ticville 55-1 separate pt											
Sampler: (Signature) <i>[Signature]</i>			Chain of Custody Tape No.											
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks								
55-1 E. Waller	8/17/98	13:20		Soil	1									
<div style="font-size: 48px; opacity: 0.5;">COPY</div>						intact band delivered								
Relinquished by: (Signature) <i>[Signature]</i>			Date	Time	Received by: (Signature) <i>[Signature]</i>	Date	Time							
Relinquished by: (Signature) <i>[Signature]</i>			8/18/98	07:20	<i>[Signature]</i>	8/18/98	7:30							
Relinquished by: (Signature) <i>[Signature]</i>			8/18/98	09:35	<i>[Signature]</i>	8/18/98	09:35							

☐ 1633 Terra Avenue  
Sheridan, Wyoming 82801  
Telephone (307) 672-8945

☐ 1701 Phillips Circle  
Gillette, Wyoming 82718  
Telephone (307) 682-8945

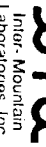
☒ 2506 West Main Street  
Farmington, NM 87401  
Telephone (505) 326-4737

☐ 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.**

54025



## CHAIN OF CUSTODY RECORD

[illegible]



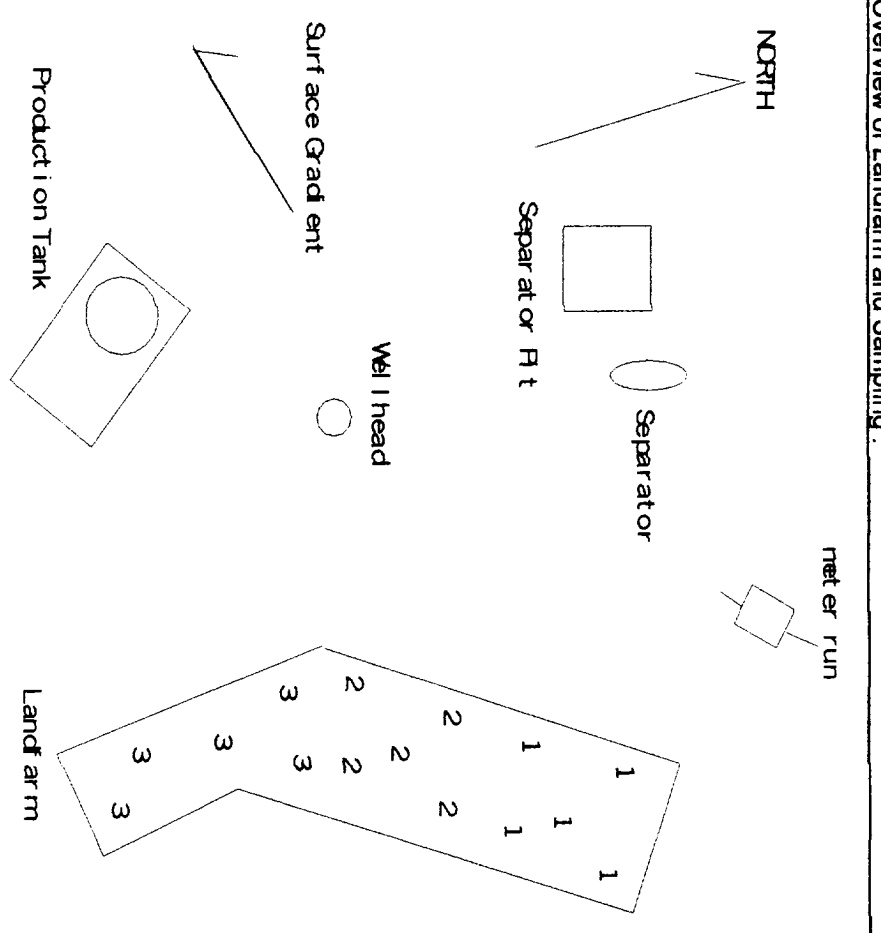
JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

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 55-1</u>	
Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>35</u> T <u>23 N</u> R <u>3 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>8/13/98</u> Date Completed: <u>1/14/99</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>436</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>1/14/99</u> Time: <u>11:07</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>51</u>
Distance to Surface Water (pts) <u>0</u>	TPH (ppm) <u>&lt;58</u> Method <u>8015</u>
Other: <u>      </u>	Other: <u>      </u>
<b>RANKING SCORE</b>	
<b>(TOTAL POINTS):</b> <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>2/2/98</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>      </u>	
SIGNED: <u>[Signature]</u> DATE: <u>2-12-99</u>	

Client : Taurus Exploration USA Inc.

Date Started : August 13, 1998 Date Completed : December 14, 1999

Location : <u>Jicarilla 55-1</u>			<b>Overview of Landfarm and Sampling :</b> 																																									
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Environmental Specialist : <u>JE</u>																																												



## CHAIN OF CUSTODY RECORD

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