

*Lenny E. 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

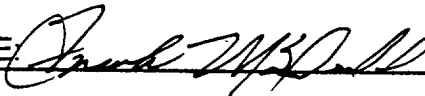
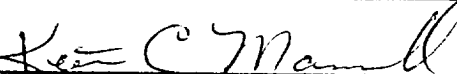
**OIL CON. DIV.**  
**DIST. 3**

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 183-14						
Location:	Unit or Qtr/QTR			Sec "I"	Sec 22, 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: 15 ft width: 15 ft depth: 8 ft						
(Attach Diagram)	Reference: wellhead: X other:						
	Footage from reference: 45 feet						
	Direction from reference: 75 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	

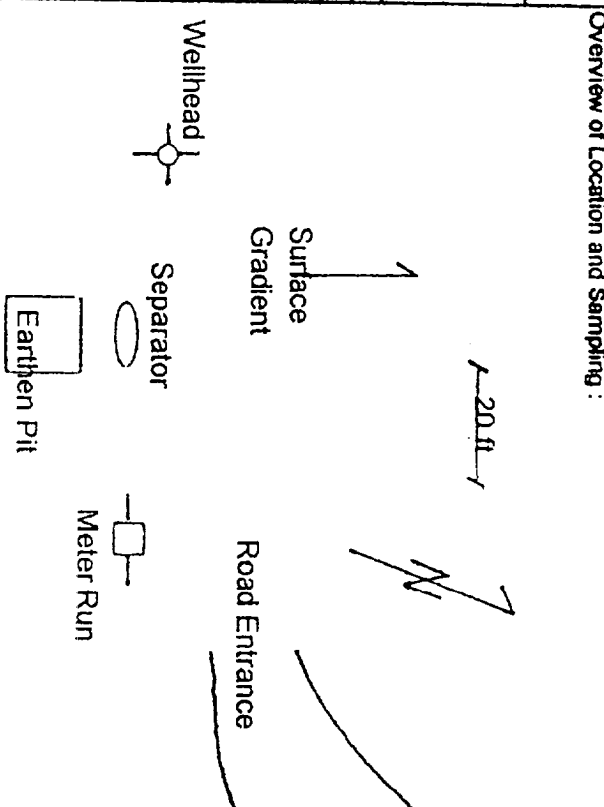
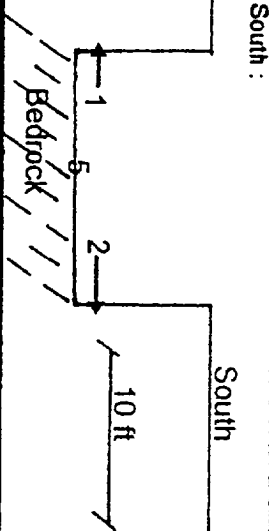
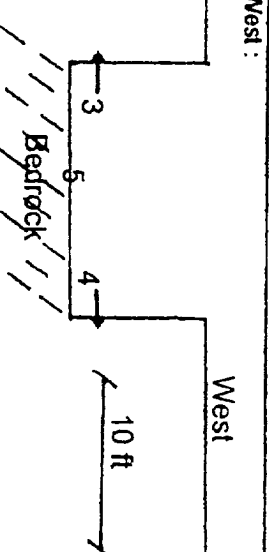
Jicarilla Apache Tribe  
Environmental Protection Office  
P.O. Box 507  
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started: 8/10/98		Date Completed 8/11/98	
Remediation Method: (Check all appropriate sections)	Excavation:	<u>X</u>	Approx. cubic yd <u>50</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:		Soil was excavated and landfarmed on location.	
Groundwater Encountered:		No: <u>X</u>	Yes: _____ Depth: _____
Final Pit	Sample location: Pit bottom @ 8 feet below surface. Pit		
Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)	walls were analyzed for Headspace (see attachment).		
	Sample depth:	<u>8 feet</u>	
	Sample date:	<u>8/11/98</u>	Sample time: <u>1040</u>
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)	<u>0.368</u>	Benzene (ppb)	_____
Total BTEX (ppm)	<u>1.05</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>157</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>&lt;10.3</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: 8/26/98		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: <u>X</u> No: _____ (Reason)			
SIGNED: 		DATE: 9-2-98	

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

Date Started : August 10, 1998 Date Completed : August 11, 1998

Location : <u>Jicarilla 183 # 14</u>		Overview of Location and Sampling :  																																								
Quad : <u>1</u> Section : <u>22</u>																																										
Range : <u>3 W</u> Township : <u>23 N</u>																																										
Pit : Abandoned Separator Pit Reference : <u>45' N 75 E</u> from wellhead Initial Size : <u>15' x 15' x 2' deep</u> Final Size : <u>15' x 15' x 8' deep</u> Yds. Excavated : <u>50 cy</u>																																										
Depth to Groundwater : <u>&gt;100'</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sample #</th> <th style="width: 40%;">Location</th> <th style="width: 50%;">OVM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N. Wall @ 6'</td> <td>86</td> </tr> <tr> <td>2</td> <td>S. Wall @ 6'</td> <td>30</td> </tr> <tr> <td>3</td> <td>E. Wall @ 8'</td> <td>55</td> </tr> <tr> <td>4</td> <td>W. Wall @ 6'</td> <td>154</td> </tr> <tr> <td>5</td> <td>C. Btm @ 8'</td> <td>157</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 @ 6'	86	2	S. Wall @ 6'	30	3	E. Wall @ 8'	55	4	W. Wall @ 6'	154	5	C. Btm @ 8'	157	6			7			8			9			10			11			12		
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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 - 8" Soil is moist, brown, sandy/loam with black staining and a strong hydrocarbon odor.</u> <u>8" Bedrock. All walls are encased in sandstone.</u>  <u>A sample from the center bottom at 8" was sent to JML for GRO/DRO and BTEX analysis.</u>																																								
Pit Profile : North to South :																																										
																																										
Pit Profile : East to West :																																										

Environmental Specialist : VC

Chimarron 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 12, 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

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

Project ID:	Jicarilla 183 #14 Sep. Pit	Report Date:	08/24/98
Sample ID:	C,Bottom @ 8'	Date Sampled:	08/11/98
Lab ID:	0398G04483	Date Received:	08/12/98
Sample Matrix:	Soil	Date Analyzed:	08/20/98
Condition:	Cool/Intact		

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

Gasoline-Range Petroleum Hydrocarbons

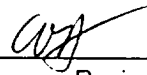
5.3

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 #14 Sep. Pit	Report Date:	08/18/98
Sample ID:	C.Bottom @ 8'	Date Sampled:	08/11/98
Lab ID:	0398G04483	Date Received:	08/12/98
Sample Matrix:	Soil	Date Analyzed:	08/18/98
Condition:	Cool/Intact		

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

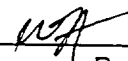
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:



Reported By:



Reviewed By:

**VOLATILE AROMATIC HYDROCARBONS****Taurus Exploration, U.S.A., Inc.**

Project ID:	Jicarilla 183 #14 Sep. Pit	Report Date:	08/24/98
Sample ID:	C. Bottom @ 8'	Date Sampled:	08/11/98
Lab ID:	0398G04483	Time Sampled:	10:40
Sample Matrix:	Soil	Date Received:	08/12/98
Condition:	Cool/Intact	Date Extracted:	NA
		Date Analyzed:	08/20/98

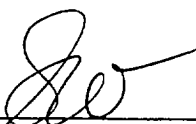
Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	368	10.0
Toluene	133	50.0
Ethylbenzene	303	50.0
m,p-Xylenes	83	50.0
o-Xylene	165	50.0

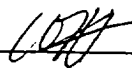
ND - Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Bromofluorobenzene	115%	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		Project Location		ANALYSES / PARAMETERS		
Taurus Exploration MSH Inc		Ticville 183#14		Sediment Pit		
Sampler: (Signature) <i>[Signature]</i>		Chain of Custody Tape No.				
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks
183#14 C. Bunch	8/11/98	10:40		Soil	1	
					8015	
					600/1200	
					8020	
					BTX	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <i>[Signature]</i>              8/11/98           </div>						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date
<i>[Signature]</i>		8/12/98	7:05	<i>[Signature]</i>		8/12/98
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date
<i>[Signature]</i>		8/11/98	15:25	<i>[Signature]</i>		8/12/98
Relinquished by: (Signature)		Date	Time	Received by Laboratory: (Signature)		Date
<i>[Signature]</i>				<i>[Signature]</i>		8/12/98
						15:2

Inter-Mountain Laboratories, Inc.

☐ 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

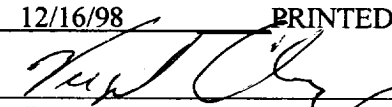
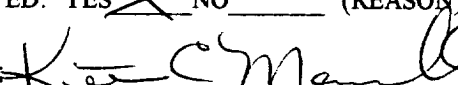
☐ 11183 State Hwy. 30  
College Station, TX 77845  
Telephone (409) 776-8945

54019



**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 - 14</u>	
Location: Unit or Qtr/Qtr Sec <u>I</u> Sec <u>22</u> T <u>23 N</u> R <u>3 W</u> County <u>Sandoval</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>8/10/98</u> Date Completed: <u>11/19/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>50</u>	
Composted <u>      </u>	
Other <u>      </u>	
<div>Depth to Groundwater: (pts) <u>0</u></div> <div>Distance to an Ephemeral Stream (pts) <u>0</u></div> <div>Distance to Nearest Lake, Playa, or Watering Pond (pts) <u>0</u></div> <div>Wellhead Protection Area (pts) <u>0</u></div> <div>Distance to Surface Water (pts) <u>0</u></div> <div><b>RANKING SCORE (TOTAL POINTS):</b> <u>0</u></div>	<div style="text-align: center;"><b>Final Closure Sampling:</b></div> <div>Sampling Date: <u>11/19/98</u> Time: <u>1330</u></div> <div>Sample Results:</div> <div>Field Headspace (ppm) <u>3.2</u></div> <div>TPH (ppm) <u>&lt;10</u> Method <u>8015</u></div> <div>Other: <u>      </u></div>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>12/16/98</u> PRINTED NAME <u>VIRGIL CHAVEZ</u>	
SIGNATURE <u></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></u> DATE: <u>12-28-98</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 183-14  
Sample ID: Land Farm  
Lab ID: 0398G06802  
Sample Matrix: Soil  
Condition: Cool/Intact


Report Date: 12/15/98  
Date Sampled: 11/19/98  
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:



## DIESEL RANGE ORGANICS - DRO

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

Project ID: Jicarilla 183-14  
Sample ID: Land Farm  
Lab ID: 0398G06802  
Sample Matrix: Soil  
Condition: Cool/Intact

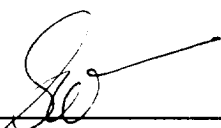
Report Date: 12/15/98  
Date Sampled: 11/19/98  
Date Received: 11/20/98  
Date Analyzed: 12/04/98

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: