

*Denny E. Faust*  
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

*Approved*

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

*OK*  
**RECEIVED**  
JUN 24 1999

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

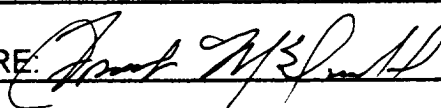
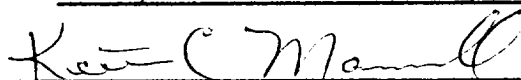
Pit Remediation and Closure Report

Operator:	Taurus Exploration U.S.A., Inc	Telephone:	(505) 325-6800
Address:	2198 Bloomfield Hwy, Farmington, NM 87401		
Facility or Well Name:	Jicarilla 95-5		
Location:	Unit or Qtr/QTR	Sec "M" Sec 25, T 27 N, R 3 W County	Rio Arriba
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit
Land Type:	Range		
Pit Location:	Pit dimensions:	length: 20 ft	width: 20 ft depth: 5 ft
(Attach Diagram)			
	Reference:	wellhead: X	other:
	Footage from reference:	90 feet	
	Direction from reference:	70	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: 6/17/98		Date Completed 6/18/98	
Remediation Method: (Check all appropriate sections)	Excavation:	<u>X</u>	Approx. cubic yds <u>57</u>
	Landfarmed:	<u>X</u>	Insitu Bioremediation:
	Other:		
Remediation Location:	On-site:	<u>X</u>	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: <u>X</u> Yes: _____ Depth: _____			
Final Pit	Sample location: Pit bottom @ 5 feet below surface (Bedrock). Pit		
Closure Sampling:	walls were analyzed for Headspace (see attachment).		
(If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample depth:	<u>5 feet (Bedrock)</u>	
	Sample date:	<u>6/18/98</u>	Sample time: <u>1045</u>
Sample Results:			
<b>Soil:</b>		<b>Water:</b>	
Benzene (ppm)	_____	Benzene (ppb)	_____
Total BTEX (ppm)	_____	Toluene (ppb)	_____
Field Headspace (ppm)	<u>66</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>62</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 : June 17, 1998 Date Completed : June 18, 1998

<b>Location :</b> Jicantla 05 # 5		<b>Overview of Location and Sampling :</b>																			
<b>Quad :</b> M <b>Section :</b> 25																					
<b>Range :</b> 3 W <b>Township:</b> 27 N		<b>Production Tank</b> <b>Fiberglass Pit</b> <b>Separator</b> <b>Wellhead</b> <b>Dehydrators</b> <b>Meter Run</b> <b>Earthen Pit</b>																			
<b>Pit : Separator Pit</b> <b>Reference :</b> 90' S 70 W from wellhead <b>Initial Size :</b> 15' x 15' x 2' <b>Final Size :</b> 20' x 20' x 5' deep <b>Yds. Excavated :</b> 57 cy <b>Depth to Groundwater :</b> > 100' <b>Nearest Water Source :</b> > 1000' <b>Nearest Surface Water :</b> > 1000' <b>Nearest Ephemeral Stream :</b> > 1000' <b>EPO Ranking Score :</b> 0 <b>TPH Closure Standard :</b> 5000		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample #</th> <th>Location</th> <th>Q/M</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Bottom @ 5'</td> <td>0.0</td> </tr> <tr> <td>2</td> <td>N. Wall @ 4'</td> <td>6.1</td> </tr> <tr> <td>3</td> <td>S. Wall @ 4'</td> <td>4.6</td> </tr> <tr> <td>4</td> <td>E. Wall @ 4'</td> <td>N.D.</td> </tr> <tr> <td>5</td> <td>W. Wall @ 4'</td> <td>1.5</td> </tr> </tbody> </table>		Sample #	Location	Q/M	1	Bottom @ 5'	0.0	2	N. Wall @ 4'	6.1	3	S. Wall @ 4'	4.6	4	E. Wall @ 4'	N.D.	5	W. Wall @ 4'	1.5
Sample #	Location	Q/M																			
1	Bottom @ 5'	0.0																			
2	N. Wall @ 4'	6.1																			
3	S. Wall @ 4'	4.6																			
4	E. Wall @ 4'	N.D.																			
5	W. Wall @ 4'	1.5																			
<b>Comments :</b> Top soil is sandy loam, hydrocarbon odor and staining is present. 1' to bottom, soil is sandy loam, brown in color, with some gray staining. Bedrock encountered at 5'. Sample from bottom, sent to IML for GROUNDRO analysis.																					
<b>Pit Profile : North to South :</b>		<b>Pit Profile : East to West :</b>																			

Environmental Specialist : VC

Cameron Offshore Services

Page 1 of 1



**DIESEL RANGE ORGANICS - DRO****Taurus Exploration**

Project ID:	Jicarilla 95-5	Report Date:	06/25/98
Sample ID:	Jic 95-5 C. Btm @ 5'	Date Sampled:	06/18/98
Lab ID:	0398G03360	Date Received:	06/19/98
Sample Matrix:	Soil	Date Analyzed:	06/24/98
Condition:	Cool/Intact		

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

Diesel-Range Petroleum Hydrocarbons

51

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

**Reference:****Comments:**  
Reported By:  
Reviewed By:





**GASOLINE RANGE ORGANICS - GRO****Taurus Exploration**

Project ID: Jicarilla 95-5  
Sample ID: JIC 95-5c.btm e 5'  
Lab ID: 0398G03360  
Sample Matrix: Soil  
Condition: Cool/Intact

Report Date: 06/25/98  
Date Sampled: 06/18/98  
Date Received: 06/19/98  
Date Analyzed: 06/19/98

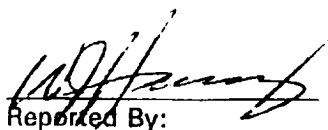
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	10.5	5.0 mg/kg
Total Volatile Petroleum Hydrocarbons	16.8	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:



Reviewed By:







## CHAIN OF CUSTODY RECORD

Client/Project Name <i>Terra Terra (107) Inc</i>			Project Location <i>Terra Hk 90-2</i>			ANALYSES / PARAMETERS		
Sampler: (Signature) <i>[Signature]</i>			Chain of Custody Tape No.			Remarks		
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers			
<i>2055 L.B.M.C.S. 611743</i>	<i>10/14/8</i>			<i>Soil</i>	<i>1 ✓</i>	<i>R015 R201DR0</i>		
<i>Cut &amp; tested 6/18/98</i>								
Relinquished by: (Signature) <i>[Signature]</i>			Date <i>6/19/98</i>			Time <i>12:00</i>		
Relinquished by: (Signature)			Date			Received by: (Signature) <i>[Signature]</i>		
Relinquished by: (Signature)			Date <i>6/19/98</i>			Time <i>9:01</i>		
Relinquished by: (Signature)			Date			Received by laboratory: (Signature) <i>[Signature]</i>		
Relinquished by: (Signature)			Date <i>6/19/98</i>			Time <i>8:01</i>		
Relinquished by: (Signature)			Date			Received by laboratory: (Signature) <i>[Signature]</i>		
Relinquished by: (Signature)			Date <i>6/19/98</i>			Time <i>9:01</i>		

**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

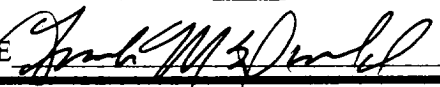
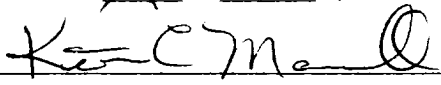
☐ 11183 State Hwy. 30  
College Station, TX 77845  
Telephone (409) 776-8945

54414



**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 95-5</u>	
Location: Unit or Qtr/Qtr Sec <u>M</u> Sec <u>25</u> T <u>27</u> N <u>R</u> <u>3</u> W County <u>Rio Arriba</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>June 17, 1998</u> Date Completed: <u>November 2, 1998</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>57</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 (TOTAL POINTS):</b> <u>0</u></p>	<p style="text-align: center;"><b>Final Closure Sampling:</b></p> <p>Sampling Date: <u>11/2/98</u> Time: <u>1220</u></p> <p>Sample Results:</p> <p>Field Headspace (ppm) <u>1.2</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>12/8/98</u> PRINTED NAME <u>FRANK MCDONALD</u>	
SIGNATURE <u></u> AND TITLE <u>ENV. DIVISION MANAGER</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>	



Client : Taurus Exploration USA Inc.

Date Started : 11/2/98

Date Completed : 11/2/98

Location : <u>Jicarilla 95 # 5</u>			Overview of Landfarm and Sampling :																																									
Quad : <u>M</u> Section : <u>25</u>			Surface Gradient <u>North</u>																																									
Township: <u>27 N</u> Range: <u>3 W</u>			Production Tank																																									
Pit : <u>Separator</u>			Fiberglass Pit																																									
Reference: <u>40 ft S 45 E</u> from wellhead			Water Runs																																									
Size : <u>38' X 38' X 0.75'</u>			Dehydrators																																									
Yds : <u>57 cubic yards</u>			Separator																																									
1 - <u>5 Point Composites</u>			Wellhead																																									
<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>QVM</th></tr></thead><tbody><tr><td>1</td><td>Comp 1</td><td>1.2</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	QVM	1	Comp 1	1.2	2			3			4			5			6			7			8			9			10			11			12					
Sample #	Location	QVM																																										
1	Comp 1	1.2																																										
2																																												
3																																												
4																																												
5																																												
6																																												
7																																												
8																																												
9																																												
10																																												
11																																												
12																																												
Comments : <u>Soil is light brown - Sandy loam</u>																																												
<u>No staining or odor</u>																																												
<u>1 - 5 point composite samples analyzed by headspace. Sample # 1 sent to IML for 8015 analysis</u>																																												
Environmental Specialist : <u>JE</u>																																												

Ranking Score : 0 Closure Standard : 5000 ppm

Cimarron Oilfield Services





## GASOLINE RANGE ORGANICS - GRO

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

Project ID: Jicarilla 95-5 Landfarm  
Sample ID: 95-5 Landfarm  
Lab ID: 0398G06479  
Sample Matrix: Soil  
Condition: Cool/Intact

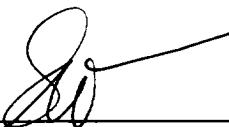
Report Date: 11/06/98  
Date Sampled: 11/02/98  
Date Received: 11/03/98  
Date Analyzed: 11/05/98

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 95-5 Landfarm	Report Date:	11/06/98
Sample ID:	95-5 Landfarm	Date Sampled:	11/02/98
Lab ID:	0398G06479	Date Received:	11/03/98
Sample Matrix:	Soil	Date Analyzed:	11/05/98
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.

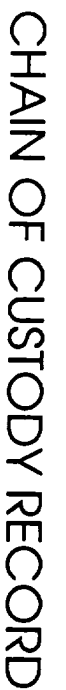
Reference:

Comments:

  
Reported By:

  
Reviewed By:





## CHAIN OF CUSTODY RECORD

[illegible]

