

*Denny & 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 CONL DIV  
SPT 8



*Approved*

Pit Remediation and Closure Report

Operator: <u>Taurus Exploration U.S.A., Inc</u>		Telephone: <u>(505) 325-6800</u>	
Address: <u>2198 Bloomfield Hwy, Farmington, NM 87401</u>			
Facility or Well Name: <u>Jicarilla 94-3</u>			
Location: <u>Unit or Qtr/QTR</u>		<u>Sec "M" Sec 22, T 27 N, R 3 W County</u>	
		<u>Rio Arriba</u>	
Pit Type: <u>Separator:</u>		<u>Dehydrator:</u>	
		<u>Other: X - Production Pit</u>	
Land Type: <u>Range</u>			
Pit Location: Pit dimensions: <u>length: 35 ft</u> <u>width: 35 ft</u> <u>depth: 12 ft</u>			
(Attach Diagram)			
Reference: <u>wellhead: X</u> <u>other:</u>			
Footage from reference: <u>90 feet</u>			
Direction from reference: <u>60</u> <u>Degrees</u> <u>East</u> <u>North</u> <u>X</u>			
of			
<u>X West</u> <u>South</u>			
Depth To Groundwater: <u>Less than 50 feet</u> (20 points)			
(Vertical distance from <u>50 feet to 99 feet</u> (10 points)			
contaminants to seasonal <u>Greater than 100 feet</u> (0 points) <u>0</u>			
high water elevations of groundwater)			
Distance to an Ephemeral Stream: <u>Less than 100 feet</u> (10 points)			
(Downgradient dry wash greater than <u>Greater than 100 feet</u> (0 points) <u>0</u>			
ten feet in width)			
Distance to Nearest Lake, Playa, or Watering <u>Less than 100 feet</u> (10 points)			
Pond: (Downgradient lakes, playas, and <u>Greater Than 100 feet</u> (0 points) <u>0</u>			
livestock or wildlife watering ponds)			
Wellhead Protection Area: <u>Yes</u> (20 points)			
(Less than 200 feet from a private <u>No</u> (0 points) <u>0</u>			
domestic water source, or less than 1000 feet from all other water sources)			
Distance To Surface Water: <u>Less than 100 feet</u> (20 points)			
(Horizontal distance to perennial <u>100 feet to 1000 feet</u> (10 points)			
lakes, ponds, rivers, streams, creeks, <u>Greater than 1000 feet</u> (0 points) <u>0</u>			
irrigation canals and ditches.)			
RANKING SCORE (TOTAL SCORE): <u>0</u>			

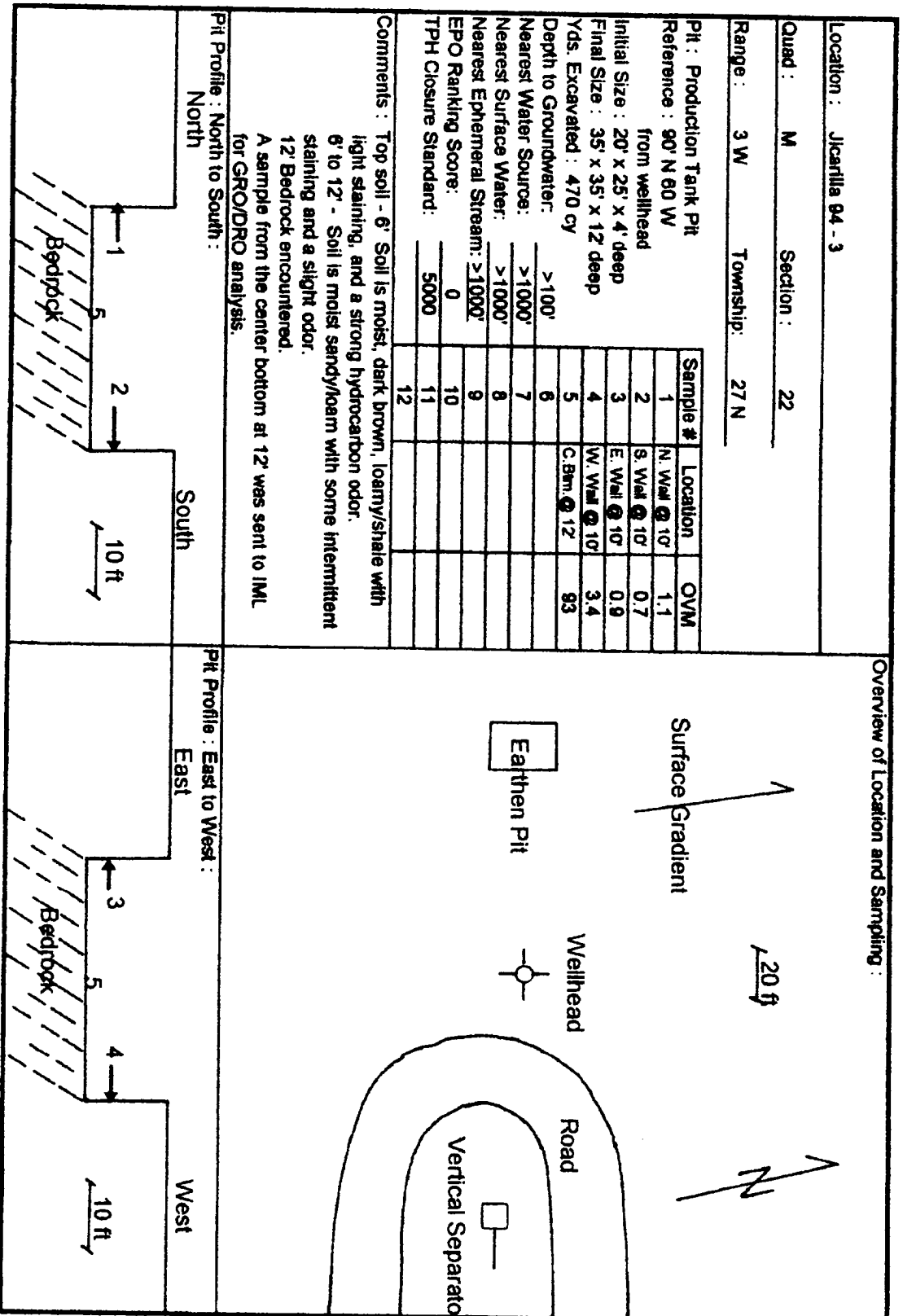
Jicarilla Apache Tribe  
Environmental Protection Office  
P.O. Box 507  
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started: 7/30/98		Date Completed 8/3/98	
Remediation Method: (Check all appropriate sections)	Excavation:	<input checked="" type="checkbox"/>	Approx. cubic yd: 470
	Landfarmed:	<input checked="" type="checkbox"/>	Insitu Bioremediation:
	Other:		
Remediation Location: (I.e. landfarmed on site, name and location of off site location)	On-site:	<input checked="" type="checkbox"/>	Off-site:
General Description of Remedial Action: Soil was excavated and landfarmed on location.			
Groundwater Encountered: No: <input checked="" type="checkbox"/> Yes: _____ Depth: _____			
Final Pit	Sample location: Pit bottom @ 12 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:	12 feet	
	Sample date:	8/3/98	Sample time: 1245
Sample Results:			
<b>Soil:</b>		<b>Water:</b>	
Benzene (ppm) _____		Benzene (ppb) _____	
Total BTEX (ppm) _____		Toluene (ppb) _____	
Field Headspace (ppm) 93		Ethylbenzene (ppb) _____	
TPH (ppm) <23		Total Xylenes (ppb) _____	
Groundwater Sample:	Yes: _____	No: <input checked="" type="checkbox"/>	
(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: <input checked="" type="checkbox"/> No: _____ (Reason)			
SIGNED: 		DATE: 9-2-98	

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

Date Started : July 30, 1998 Date Completed : August 3, 1998



Environmental Specialist : VC

Cimarron Oilfield Services

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


Project ID:	Jicarilla 94-3 Prod. Tank Pit	Report Date:	08/12/98
Sample ID:	C Bottom @ 12'	Date Sampled:	08/03/98
Lab ID:	0398G04344	Date Received:	08/04/98
Sample Matrix:	Soil	Date Analyzed:	08/11/98
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

**DIESEL RANGE ORGANICS - DRO****Taurus Exploration U.S.A., Inc.**

Project ID:	Jicarilla 94-3 Prod. Tank Pit	Report Date:	08/10/98
Sample ID:	C Bottom @ 12'	Date Sampled:	08/03/98
Lab ID:	0398G04344	Date Received:	08/04/98
Sample Matrix:	Soil	Date Analyzed:	08/10/98
Condition:	Cool/Intact		

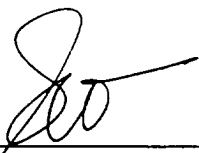
**TPH DIESEL-RANGE (MOD EPA 8015)****RESULT****DETECTION LIMIT**

Diesel-Range Petroleum Hydrocarbons

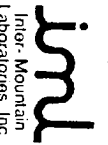
18

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

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

COPY


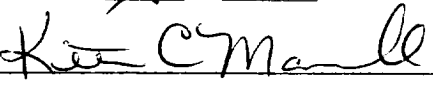


# CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES / PARAMETERS						
Taurus Exploration 115H Inc		Ticarra, 54-3, P. 4								
Sampler: (Signature) <i>[Signature]</i>		Chain of Custody Tape No.								
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers					
54-3 C. B. 12	8/15/98	12:45		So. 1	1					
<div>cool'n fact, hand delivered</div>										
Inquired by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature)	Date					
Relinquished by: (Signature) <i>[Signature]</i>		8/14/98	2:45	<i>[Signature]</i>	8-1-98					
Relinquished by: (Signature) <i>[Signature]</i>		8-4-98		<i>[Signature]</i>	0836					
		Date	Time	Received by laboratory: (Signature)	Date					
					8-4-98					
					0836					
<div>Inter-Mountain Laboratories, Inc.</div> <div><input type="checkbox"/> 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945</div> <div><input type="checkbox"/> 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945</div> <div><input checked="" type="checkbox"/> 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737</div> <div><input type="checkbox"/> 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450</div> <div><input type="checkbox"/> 11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945</div> <div>54835</div>										

**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 94-3</u>	
Location: Unit or Qtr/Qtr Sec <u>M</u> Sec <u>22</u> T <u>27 N</u> R <u>3 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>July 30, 1998</u> Date Completed: <u>November 10, 1998</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>470</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>11/10/98</u> Time: <u>1400</u></div> <div>Sample Results:</div> <div>Field Headspace (ppm) <u>1.3</u></div> <div>TPH (ppm) <u>&lt;27</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>12/8/98</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>      </u>	
SIGNED: <u></u> DATE: <u>12-28-98</u>	

Client : Taurus Exploration USA Inc.

Date Started : 11/10/98

Date Completed : 11/10/98

Location : Jicarilla 94 # 3			Overview of Landfarm and Sampling :	
Quad : M	Section : 22			
Township: 27 N		Range: 3 W		
Pit :	Production Tank			
Reference: 90 ft S		Sample #	Location	OVM
Size : 120' X 45' X 2.5'		1	Comp 1	0.4
		2	Comp 2	0.8
		3	Comp 3	1.3
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
Yds : 470 cubic yards				
3 - 5 Point Composites				
Comments : Soil is light brown - Clay loam				
No staining or odor				
3 - 5 point composite samples analyzed by headspace. Sample # 3 sent to IML for 8015 analysis				
Environmental Specialist : JE				

Surface Gradient

North

Earthen Pit

Wellhead

Vertical Separator

1	1			
	1	2	2	3
		2		3
1	1	2	2	3

Ranking Score : 0 Closure Standard : 5000 ppm

Cimarron Oilfield Services



**DIESEL RANGE ORGANICS - DRO****TAURUS EXPLORATION U.S.A., INC.**

Project ID: Jicarilla 94-3  
Sample ID: Land Farm  
Lab ID: 0398G06651  
Sample Matrix: Soil  
Condition: Cool/Intact


Report Date: 11/20/98  
Date Sampled: 11/10/98  
Date Received: 11/11/98  
Date Analyzed: 11/18/98

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

QUALITY CONTROL - SURROGATE RECOVERY	%Recovery	QC Limits
o-Terphenyl	79%	70-130%

ND - Analyte not detected at the stated detection limit.

**Reference:****Comments:**

  
Reported By:

  
Reviewed By:

**GASOLINE RANGE ORGANICS - GRO****TAURUS EXPLORATION U.S.A., INC.**

Project ID: Jicarilla 94-3  
Sample ID: Land Farm  
Lab ID: 0398G06651  
Sample Matrix: Soil  
Condition: Cool/Intact

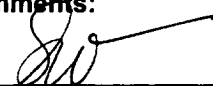
Report Date: 11/20/98  
Date Sampled: 11/10/98  
Date Received: 11/11/98  
Date Analyzed: 11/11/98

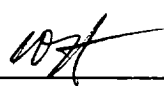
TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	17	5.0 mg/Kg
Total Purgeable Hydrocarbons	17	5.0 mg/Kg

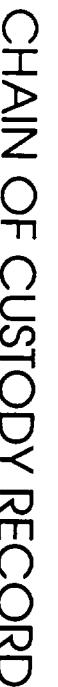
QUALITY CONTROL - SURROGATE RECOVERY	% Recovery	QC limits
Bromofluorobenzene	108%	70-130%

ND - Analyte not detected at the stated detection limit.

**Reference:****Comments:**

  
Reported By:

  
Reviewed By:



# CHAIN OF CUSTODY RECORD

5700