

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


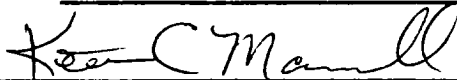
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RECEIVED
JUN 24 1999
OIL CON. DIV.
DIST. 3

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 West 7A						
Location:	Unit or Qtr/QTR			Sec "J"	Sec 8, T 26 N, R 5 W	County	Rio Arriba
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator/Production Tank F				
Land Type:	Range						
Pit Location:	Pit dimensions: length: 70 ft width: 45 ft depth: 8 ft						
(Attach Diagram)							
	Reference:	wellhead: X other:					
	Footage from reference:	100 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	

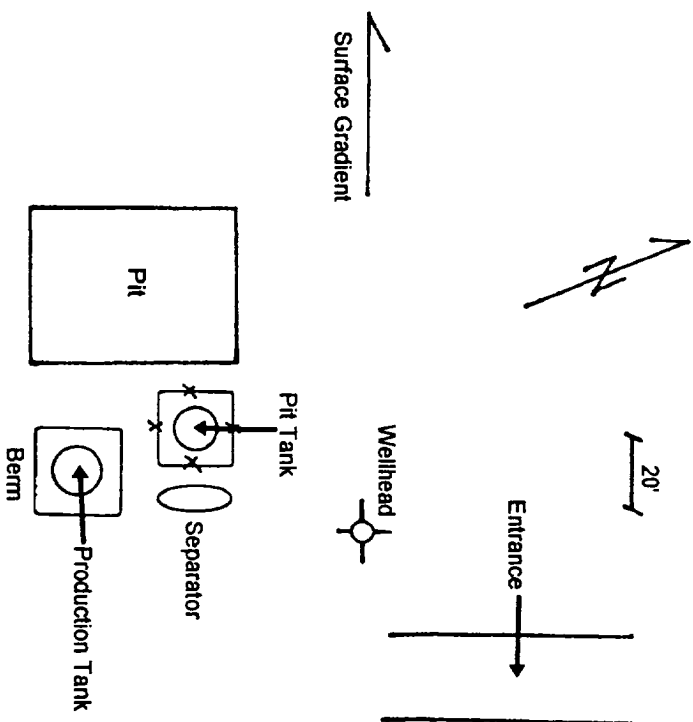
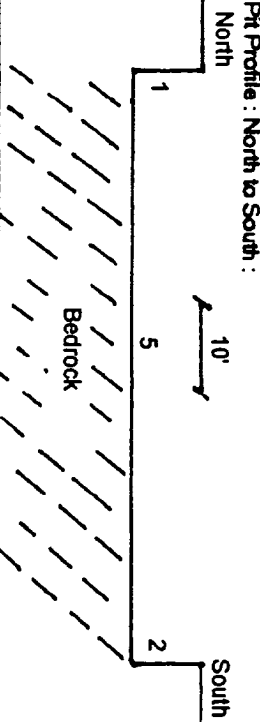
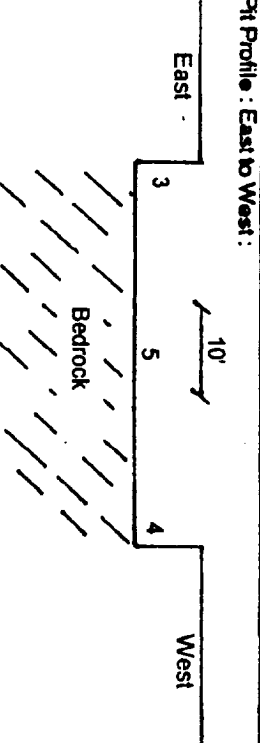
Jicarilla Apache Tribe
Environmental Protection Office
P.O. Box 507
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started:	10/6/98	Date Completed	10/8/98
Remediation Method:	Excavation:	<input checked="" type="checkbox"/>	Approx. cubic yards: 433
(Check all appropriate sections)	Landfarmed:	<input checked="" type="checkbox"/>	Insitu Bioremediation:
	Other:		
Remediation Location:	On-site:	<input checked="" type="checkbox"/>	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: <input checked="" type="checkbox"/>	Yes:	Depth:
Final Pit Closure Sampling:	Sample location: Pit bottom @ 8 feet below surface. Pit walls were analyzed for Headspace (see attachment).		
(If multiple samples, attach sample results and diagram of sample locations and depths.)			
	Sample depth:	8 feet	
	Sample date:	10/8/98	Sample time: 14:05
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)		Benzene (ppb)	
Total BTEX (ppm)		Toluene (ppb)	
Field Headspace (ppm)	86	Ethylbenzene (ppb)	
TPH (ppm)	<10	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: 10/28/98		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: 12-8-98	

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

Date Started : October 6, 1998 Date Completed : October 8, 1998

Location : Jicarilla West # 7A		Overview of Location and Sampling :	
Quad : J	Section : 8		
Range : 5 W	Township: 26 N		
Pit : Production Tank/Separator Pit			
Reference : 100' S 70 W			
Initial Size : 60' x 45' x 5' deep Final Size : 70' x 45' x 8' deep Yds. Excavated : 433 cy			
Depth to Groundwater:	Sample #	Location	OVM
Nearest Water Source:	1	N. Wall @ 7'	6.7
Nearest Surface Water:	2	S. Wall @ 7'	0.3
Nearest Ephemeral Stream: >1000'	3	E. Wall @ 7'	0.7
EPO Ranking Score: 0	4	W. Wall @ 7'	4.2
TPH Closure Standard: 5000	5	Bottom @ 8'	86
	6		
	7		
	8		
	9		
	10		
	11		
	12		
Comments : Top soil - 8' Soil is moist, gray/black-stained clay with a strong hydrocarbon odor. 8' - Bedrock encountered. A sample from the center bottom @ 8' was sent to IML for GRO/DRO analysis.			
Pit Profile : North to South :		Pit Profile : East to West :	
			

Environmental Specialist : YC

Cimarron Offfield Services

12 Reviewed By:

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.


Project ID:	Jicarilla West 7A Sep/Prod Tank Pit	Report Date:	10/27/98
Sample ID:	C. Bottom @ 8'	Date Sampled:	10/08/98
Lab ID:	0398G05988	Date Received:	10/09/98
Sample Matrix:	Soil	Date Analyzed:	10/20/98
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:


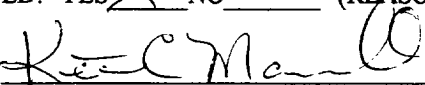


CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		Analyses / Parameters							
Taurus Exploration 11589 Inc		Junction, West 7th Tank #1									
Sampler: (Signature) <i>[Signature]</i>		Chain of Custody Tape No.									
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers						
J. West 7th C. Block 1	10/21/88	14:05		Soil	1						
<i>[Large diagonal line across the table]</i>											
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature)							
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature)							
Relinquished by: (Signature)		Date	Time	Received by laboratory: (Signature)							
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 type="checkbox"/> 2506 West Main Street Farmingington, 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		56625							

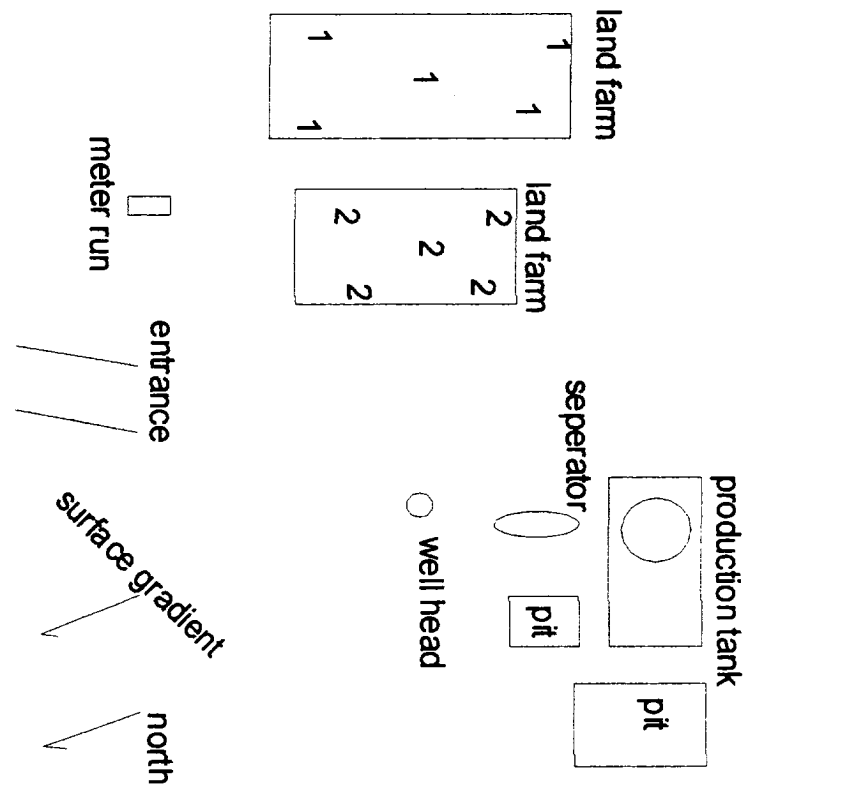
**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528**

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 West 7A</u>	
Location: Unit or Qtr/Qtr Sec <u>J</u> Sec <u>8</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>10/6/98</u> Date Completed: <u>12/3/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>433</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>RANKING SCORE (TOTAL POINTS): <u>0</u></div>	<div style="text-align: center;">Final Closure Sampling:</div> <div>Sampling Date: <u>12/3/98</u> Time: <u>14:00</u></div> <div>Sample Results:</div> <div>Field Headspace (ppm) <u>2.1</u></div> <div>TPH (ppm) <u><38</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>1/8/99</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>1-20-99</u>	

Client : Taurus Exploration USA Inc.

Date Started : October 6, 1998 Date Completed : December 3, 1998

Location : <u>Jicarilla West 7A</u>			Overview of Landfarm and Sampling : 																																									
Quad : <u>J</u> Section : <u>8</u>																																												
Township: <u>26 N</u> Range: <u>5 W</u>																																												
Pit : <u>Separator/Prod. Tank</u> Reference <u>100' S 20 E</u> from wellhead.																																												
Size: <u>150' x 50' x 1'</u> <u>10' x 40' x 1'</u>			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Sample #</th> <th style="width: 35%;">Location</th> <th style="width: 50%;">OVM</th> </tr> </thead> <tbody> <tr><td>1</td><td>Comp 1</td><td>2.1</td></tr> <tr><td>2</td><td>Comp 2</td><td>1.1</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	OVM	1	Comp 1	2.1	2	Comp 2	1.1	3			4			5			6			7			8			9			10			11			12		
Sample #	Location	OVM																																										
1	Comp 1	2.1																																										
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9																																												
10																																												
11																																												
12																																												
Yds : <u>433</u>																																												
<u>2</u> 5 - Point Composites																																												
Comments : <u>Soil is moist, dark brown, clay/loam, with no staining and a slight hydrocarbon odor.</u> <u>A sample from composite # 1 was sent to IML for GRO/DRO analysis.</u>																																												
Environmental Specialist : <u>JE</u>																																												

Ranking Score : 0 Closure Standard : 5000 ppm

Cimarron Oilfield Services



GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES


Project ID:	Jicarilla West 7A - Sep. Pit	Report Date:	12/31/98
Sample ID:	Landfarm Comp #1	Date Sampled:	12/03/98
Lab ID:	0398G07050	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 West 7A - Sep. Pit
Sample ID: Landfarm Comp #1
Lab ID: 0398G07050
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 12/29/98
Date Sampled: 12/03/98
Date Received: 12/07/98
Date Analyzed: 12/17/98

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	33	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 Ensign (Taurus)			Project Location Sic West 7A Sep P1		ANALYSES / PARAMETERS			
Sampler: (Signature) <i>[Signature]</i>			Chain of Custody Tape No.					
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks		
Ensign Pump #1	12-3-98	14:00		Soil	1	<div style="font-size: 2em; transform: rotate(-45deg); display: inline-block;">Received contact</div>		
Relinquished by: (Signature) <i>[Signature]</i>			Date 12-7-98	Time 09:00	Received by: (Signature) <i>[Signature]</i>		Date 	Time
Relinquished by: (Signature) <i>[Signature]</i>			Date 	Time 	Received by: (Signature) 		Date 	Time
Relinquished by: (Signature) 			Date 	Time 	Received by laboratory: (Signature) <i>[Signature]</i>		Date 9/16/98	Time 16:07

☐ 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
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