

RECEIVED
JUN 24 1999

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

Remediation Fund
DEPARTMENT OF THE INTERIOR
AUG 11 1999

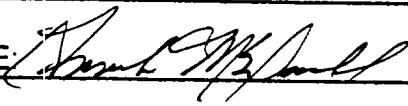

WIL CON. DIV.

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 95-1		
Location:	Unit or Qtr/QTR	Sec "A" Sec 35, T 27 N, R 3 W	County Rio Arriba
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Production Pit
Land Type:	Range		
Pit Location:	Pit dimensions: length: 25 ft width: 40 ft depth: 5 ft		
(Attach Diagram)			
Reference:	wellhead: X other:		
Footage from reference:	105 feet		
Direction from reference:	60	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: 6/14/98		Date Completed 6/15/98	
Remediation Method: (Check all appropriate sections)	Excavation:	<input checked="" type="checkbox"/>	Approx. cubic yd: 174
	Landfarmed:	<input checked="" type="checkbox"/>	In situ 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: <input type="checkbox"/> Depth:
Final Pit		Sample location: Pit bottom @ 5 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:	5 feet
		Sample date:	6/15/98
		Sample time:	1315
Sample Results:			
Soil:		Water:	
Benzene (ppm)		Benzene (ppb)	
Total BTEX (ppm)		Toluene (ppb)	
Field Headspace (ppm)	52	Ethylbenzene (ppb)	
TPH (ppm)	41	Total Xylenes (ppb)	
Groundwater Sample:	Yes: <input type="checkbox"/>	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: 8/25/98		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: <input type="checkbox"/> (Reason)			
SIGNED: 		DATE: 9-2-98	

Client : Taurus Exploration, USA Inc

Date Started : June 14, 1998 Date Completed : June 15, 1998

Location : <u>Jicanilla 95 # 1</u>		<div style="display: flex; justify-content: space-around; align-items: center;"> <div> <p>120 ft</p> </div> <div> <p>Surface Gradient</p> </div> </div>																																								
Quad : <u>A</u> Section : <u>35</u>																																										
Range : <u>3 W</u> Township: <u>27 N</u>																																										
Pit : Abandoned Production Pit Reference : 105° N 60 degrees E Initial Size : 20' X 20' X 1' deep Final Size : 25' X 40' X 5' deep Yds. Excavated : 174 cy																																										
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Sample #</th> <th style="width: 40%;">Location</th> <th style="width: 45%;">QVA</th> </tr> </thead> <tbody> <tr><td>1</td><td>Bottom @ 5'</td><td>52</td></tr> <tr><td>2</td><td>N. Wall @ 4'</td><td>ND</td></tr> <tr><td>3</td><td>E. Wall @ 4'</td><td>ND</td></tr> <tr><td>4</td><td>S. Wall @ 4'</td><td>4</td></tr> <tr><td>5</td><td>W. Wall @ 4'</td><td>ND</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	QVA	1	Bottom @ 5'	52	2	N. Wall @ 4'	ND	3	E. Wall @ 4'	ND	4	S. Wall @ 4'	4	5	W. Wall @ 4'	ND	6			7			8			9			10			11			12			
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12																																										
Depth to Groundwater: <u>>100'</u> Nearest Water Source: <u>>1000'</u> Nearest Surface Water: <u>>1000'</u> Nearest Ephemeral Stream: <u>>1000'</u> EPO Ranking Score: <u>0</u> TPH Closure Standard: <u>5000</u>																																										
Comments : 0' to 4' soil is moist dark brown, clay loam. Moderate odor and staining. 4' to 5' soil is moist, brown clay loam. No staining or odor. Sample from bottom, sent to IML for GRO/DRO analysis.																																										
Pit Profile : North to South : 		Overview of Location and Sampling : 																																								
Pit Profile : East to West : 																																										

Environmental Specialist : VC

Cimarron Oilfield Services

COPY

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration

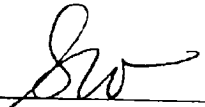
Project ID:	Jicarilla 95-1	Report Date:	06/25/98
Sample ID:	Jic 95-1 Center Bottom @ 5'	Date Sampled:	06/15/98
Lab ID:	0398G03329	Date Received:	06/16/98
Sample Matrix:	Soil	Date Analyzed:	06/19/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	Result (mg/Kg)	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	11.8	5.0 mg/kg
Total Volatile Petroleum Hydrocarbons	17.1	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

Project ID:	Jicarilla 95-1	Report Date:	06/23/98
Sample ID:	Jic. 95-1 Center Bottom @ 5'	Date Sampled:	06/15/98
Lab ID:	0398G03329	Date Received:	06/16/98
Sample Matrix:	Soil	Date Analyzed:	06/23/98
Condition:	Cool/Intact		


TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	29	5.0 mg/kg


Quality Control -Spike Recovery	%	QC Limits
Diesel Fuel	101	20-150

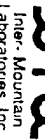
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:



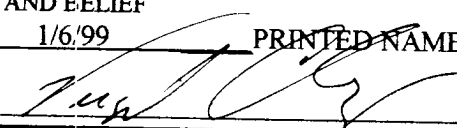
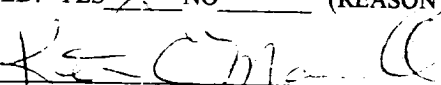
CHAIN OF CUSTODY RECORD

COPY

Client/Project Name				Project Location		ANALYSES / PARAMETERS		
Taurus Exploration (USA) Inc				Tearille 95-1				
Sampler: (Signature) <i>[Signature]</i>				Chain of Custody Tape No.				
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks		
See 15-1 Core Boxes 1	6/15/88	013:15		Soil	1	ROIS GROUND		
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>						<i>cool, intact, hand delivered</i>		
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) <i>[Signature]</i>				6/16/88	47:20	<i>[Signature]</i>	6/16/88	722
Relinquished by: (Signature) <i>[Signature]</i>				6/16/88	1309	<i>[Signature]</i>	6/16/88	1309
Inter-Mountain Laboratories, Inc.				54574				
<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 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 77945 Telephone (409) 776-8945</div></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 95-1</u>	
Location: Unit or Qtr/Qtr Sec <u>A</u> Sec <u>35</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>6/14/98</u> Date Completed: <u>12/15/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>174</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>RANKING SCORE (TOTAL POINTS): <u>0</u></p>	<p style="text-align: center;">Final Closure Sampling:</p> <p>Sampling Date: <u>12/15/98</u> Time: <u>09:00</u></p> <p>Sample Results:</p> <p>Field Headspace (ppm) <u>1.4</u></p> <p>TPH (ppm) <u><42</u> Method <u>8015</u></p> <p>Other: <u> </u></p>
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p> <p>DATE: <u>1/6/99</u> PRINTED NAME: <u>VIRGIL CHAVEZ</u></p> <p>SIGNATURE <u></u> AND TITLE <u>ENV. SPECIALIST</u></p>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.</p> <p>APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>use as backfill</u></p> <p>SIGNED: <u></u> DATE: <u>1-7-99</u></p>	

Client : Taurus Exploration USA Inc.

Date Started : June 14, 1998 Date Completed : December 15, 1998

Location : <u>Jicarilla 95 - 1</u>		Overview of Landfarm and Sampling :																																						
Quad : <u>A</u>	Section : <u>35</u>	<div style="text-align: center;"><p>surface gradient </p><p>north</p><p>land farm</p><p>1 1 1 1</p><p>production pit</p><p>well head</p><p>production tank</p><p>entrance</p><p>dehy</p><p>dehy pit</p><p>meter run</p></div>																																						
Township: <u>27 N</u> Range: <u>3 W</u>																																								
Pit : <u>Production Tank Pit</u>																																								
Reference <u>80' N 55' E</u> from wellhead.																																								
Size: <u>50' x 30' x 2'</u>	<table border="1" style="width:100%"><thead><tr><th>Sample #</th><th>Location</th><th>OVW</th></tr></thead><tbody><tr><td>1</td><td>Comp 1</td><td>1.4</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	OVW	1	Comp 1	1.4	2			3			4			5			6			7			8			9			10			11			12		
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9																																								
10																																								
11																																								
12																																								
Yds : <u>174</u>																																								
<u>1</u> <u>5 - Point Composites</u>																																								
Comments : <u>Soil is moist, dark brown, sandy/loam, with no visible staining or detectable hydrocarbon odor.</u>																																								
<u>A sample from composite # 1 was sent to JML for GRO/DRO analysis.</u>																																								
Environmental Specialist : <u>JE</u>																																								



Phone (505) 326-4737 Fax (505) 325-4182

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

GASOLINE RANGE ORGANICS - GRO

ENERGEN RESOURCES


Project ID:	Jicarilla 95-1	Report Date:	12/31/98
Sample ID:	Landfarm Comp #1	Date Sampled:	12/15/98
Lab ID:	0398G07601	Date Received:	12/18/98
Sample Matrix:	Soil	Date Analyzed:	12/30/98
Condition:	Ccol/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:



Phone (505) 326-4737 Fax (505) 325-4182

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

DIESEL RANGE ORGANICS - DRO

ENERGEN RESOURCES

Project ID: Jicarilla 95-1
Sample ID: Landfarm Comp #1
Lab ID: 0398G07601
Sample Matrix: Soil
Condition: Cool/Intact


Report Date: 12/31/98
Date Sampled: 12/15/98
Date Received: 12/18/98
Date Analyzed: 12/30/98

TPH DIESEL RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	37	5.0 mg/Kg

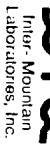
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:



CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES / PARAMETERS							
Energen		Sic 95-1									
Sampler: (Signature)		Chain of Custody Tape No.									
Willard/Gerts											
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers						
Land Barn	12-15-98	0900		Soil	8015						
Comp #1					1 bag/bag						
<div>Remarks</div> <div>1000 / In fact</div> <div>Final De L</div>											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	Date						
Willard/Gerts		12-18-98	1012								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	Date						
Relinquished by: (Signature)		Date	Time	Received by Laboratory: (Signature)	Date						
Inter-Mountain Laboratories, Inc.											
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58223											