

RECEIVED

JUN 24 1999

OIL CON. DIV.
DIST. 3

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

Denny E. Hunt
DEPUTY OIL & GAS INSPECTOR
AUG 04 1999
COPY

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 A						
Location:	Unit or Qtr/QTR Sec "P"			Sec 35, 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: 50 ft width: 50 ft depth: 15 ft						
(Attach Diagram)	Reference: wellhead: X other:						
	Footage from reference: 140 feet						
	Direction from reference: 65 Degrees X East North						
	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		

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Pit Remediation and Closure Report

Date Remediation Started:	6/9/98	Date Completed	7/6/98
Remediation Method: (Check all appropriate sections)	Excavation: <input checked="" type="checkbox"/> Landfarmed: <input checked="" type="checkbox"/> Other: _____	Approx. cubic yd: 1340 Insitu Bioremediation: _____	
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 Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample location: East wall @ 12 feet below surface. Pit bottom and all other walls were analyzed for Headspace (see attachment).		
	Sample depth: 12 feet	Sample date: 7/6/98	Sample time: 1200
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Eenzene (ppm)	0.017	Benzene (ppb)	_____
Total BTEX (ppm)	0.456	Toluene (ppb)	_____
Field Headspace (ppm)	190	Ethylbenzene (ppb)	_____
TPH (ppm)	<41	Total Xylenes (ppb)	_____
Groundwater Sample: (If yes, attach sample results.)	Yes: _____	No: <input checked="" type="checkbox"/>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE:	7/27/98	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: <i>Kate C. McDonald</i>		DATE: 7-27-98	

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Client : Taurus Exploration U.S.A. Inc. Date Started : June 9, 1998 Date Completed : July 6, 1998

Location : <u>Jicantilla 95 # 1A</u>		Overview of Location and Sampling :																																								
Quad : <u>P</u> Section : <u>35</u>																																										
Range : <u>3 W</u> Township : <u>27 N</u>		To Meter Run and Dehydrator																																								
Pit : Abandoned Separator Pit Reference : 140' S 65 E from wellhead Initial Size : 25' x 25' x 2' deep Final Size : 50' x 50' x 15' deep Yds. Excavated : 1340 cy Depth to Groundwater : >100' Nearest Water Source : >1000' Nearest Surface Water : >1000' Nearest Ephemeral Stream : >1000' EPO Ranking Score : 0 TPH Closure Standard : 5000		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample #</th> <th>Location</th> <th>OVM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Bottom @ 15'</td> <td>83</td> </tr> <tr> <td>2</td> <td>N. Wall @ 12'</td> <td>169</td> </tr> <tr> <td>3</td> <td>S. Wall @ 12'</td> <td>N.D.</td> </tr> <tr> <td>4</td> <td>E. Wall @ 12'</td> <td>190</td> </tr> <tr> <td>5</td> <td>W. Wall @ 12'</td> <td>4.2</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	Bottom @ 15'	83	2	N. Wall @ 12'	169	3	S. Wall @ 12'	N.D.	4	E. Wall @ 12'	190	5	W. Wall @ 12'	4.2	6			7			8			9			10			11			12		
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Comments: Top soil to 4' - Soil is sandy loam, a strong hydrocarbon odor and staining is present. 4' to 12' - Soil is dry, dark brown, clay/loam with red/brown staining and a strong hydrocarbon odor. 12' to 15' - Soil is brown, clay/loam with a mild odor and no staining. A sample from the East wall @ 12' was sent to IML for GRO/DRO and BTEX analysis.																																										
Pit Profile : North to South :		Pit Profile : East to West :																																								

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID: Jicarilla 95-1A
Sample ID: E. Wall @ 12'
Lab ID: 0398G03849
Sample Matrix: Soil
Condition: Cool/Intact


Report Date: 07/15/98
Date Sampled: 07/06/98
Date Received: 07/07/98
Date Analyzed: 07/10/98

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	36	5.0 mg/kg
Gasoline Range Organics as Gasoline	8	5.0 mg/kg


ND - Analyte not detected at the stated detection limit

Reference:

Comments:

Reported By: 

COPY

Reviewed By: 

DIESEL RANGE ORGANICS - DRO

Taurus Exploration

Project ID: Jicarilla 95-1A
Sample ID: E. Wall @ 12'
Lab ID: 0398G03849
Sample Matrix: Soil
Condition: Cool/Intact

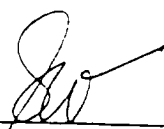
Report Date: 07/15/98
Date Sampled: 07/06/98
Date Received: 07/07/98
Date Analyzed: 07/10/98

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:

COPY


Reviewed By:

VOLATILE AROMATIC HYDROCARBONS

Taurus Exploration U.S.A., Inc.

Project ID: Jicarilla 95-1A
Sample ID: E. Wall @ 12'
Lab ID: 0398G03849
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 07/15/98
Date Sampled: 07/06/98
Time Sampled: 12:00
Date Received: 07/07/98
Date Extracted: NA
Date Analyzed: 07/09/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	17	10.0
Toluene	114	10.0
Ethylbenzene	20	10.0
m,p-Xylenes	290	10.0
o-Xylene	15	10.0


ND - Analyte not detected at the stated detection limit.


Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	a,a,a-Trifluorotoluene	90%	70%-130%

Reference: Method 5030B, 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:

COPY


Analyst


Review

CHAIN OF CUSTODY RECORD

COPY

Client/Project Name			Project Location		Analyses / Parameters	
Taurus Exploration (KSP) Inc.			Sierra Vista 95-114		ANALYSES / PARAMETERS	
Sampler: (Signature) <i>[Signature]</i>			Chain of Custody Tape No.		Remarks	
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks
5-95-114 E. Waller	7/6/98	12:00		501	1	2015 GRC/DRO 2020 BTEX Separator P.T
COPY						
<div style="display: flex; justify-content: space-between;"> <div> <p>Relinquished by: (Signature) <i>[Signature]</i></p> <p>Relinquished by: (Signature) <i>[Signature]</i></p> </div> <div> <p>Date: 7/6/98 Time: 14:05</p> <p>Date: 7/7/98 Time: 08:45</p> </div> <div> <p>Received by: (Signature) <i>[Signature]</i></p> <p>Received by: (Signature) <i>[Signature]</i></p> </div> <div> <p>Date: 7/6/98 Time: 14:05</p> <p>Date: 7/7/98 Time: 08:45</p> </div> </div>						
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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) 586-8150

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

54531

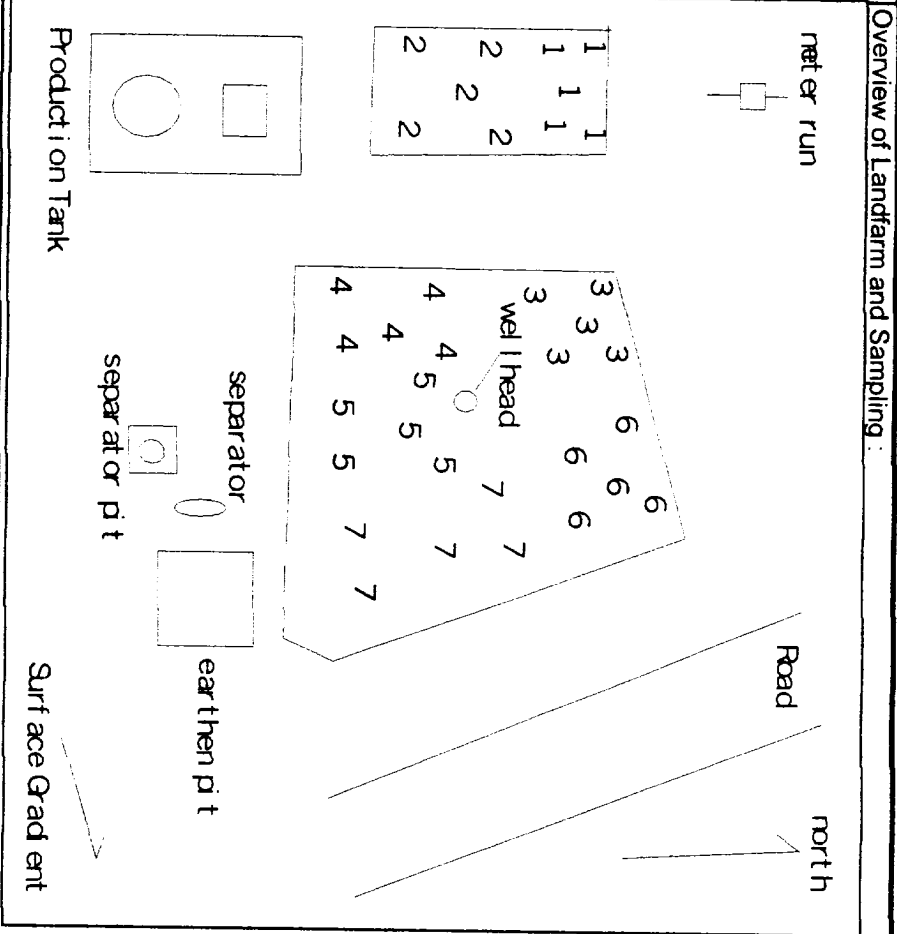
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

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 95-1A</u>	
Location: Unit or Qtr/Qtr Sec <u>P</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>6/9/98</u> Date Completed: <u>12/10/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>1340</u>	
Composted <u> </u>	
Other <u> </u>	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling:
Distance to an Ephemeral Stream (pts) <u>0</u>	Sampling Date: <u>12/10/98</u> Time: <u>10:30</u>
Distance to Nearest Lake, Playa, or Watering Pond (pts) <u>0</u>	Sample Results:
Wellhead Protection Area (pts) <u>0</u>	Field Headspace (ppm) <u>1.6</u>
Distance to Surface Water (pts) <u>0</u>	TPH (ppm) <u><33</u> Method <u>8015</u>
RANKING SCORE (TOTAL POINTS): <u>0</u>	Other: <u> </u>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>1/6/99</u> PRINTED NAME <u>VIRGIL CHAVEZ</u>	
SIGNATURE <u>[Signature]</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>[Signature]</u> DATE: <u>1-7-99</u>	

Client : Taurus Exploration USA Inc.

Date Started : June 9, 1998 ^{1/2} Date Completed : December 10, 1998

Location : Jicarilla 95 - 1A			Overview of Landfarm and Sampling :																																									
Quad : P Section : 35																																												
Township: 27 N Range: 3 W																																												
Pit :	Separator	<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>OMV</th></tr></thead><tbody><tr><td>1</td><td>Comp 1</td><td>0.2</td></tr><tr><td>2</td><td>Comp 2</td><td>0.6</td></tr><tr><td>3</td><td>Comp 3</td><td>0.6</td></tr><tr><td>4</td><td>Comp 4</td><td>1.2</td></tr><tr><td>5</td><td>Comp 5</td><td>0.6</td></tr><tr><td>6</td><td>Comp 6</td><td>1</td></tr><tr><td>7</td><td>Comp 7</td><td>1.6</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	OMV	1	Comp 1	0.2	2	Comp 2	0.6	3	Comp 3	0.6	4	Comp 4	1.2	5	Comp 5	0.6	6	Comp 6	1	7	Comp 7	1.6	8			9			10			11			12					
Sample #	Location	OMV																																										
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7	Comp 7	1.6																																										
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11																																												
12																																												
Reference Landfarm surrounds wellhead.																																												
Size: 150' x 100' x 2'																																												
70' x 45' x 2'																																												
Yds : 1340																																												
7 5 - Point Composites																																												
Comments : Soils range from sandy/loam to sandy/clay/loam. Soils also range from dark brown to pale brown in color.																																												
A sample from composite # 7 was sent to IML for GRO/DRO analysis.																																												
Environmental Specialist : JE																																												



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

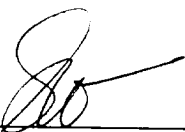
Project ID:	Jicarilla 95-1A	Report Date:	12/31/98
Sample ID:	Landfarm Comp #7	Date Sampled:	12/10/98
Lab ID:	0398G07293	Date Received:	12/11/98
Sample Matrix:	Soil	Date Analyzed:	12/30/98*
Condition:	CocII/Intact		

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 holding times, however, due to instrument problems and QC failure, the sample had to be re-analyzed to verify results.


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 94-1A	Report Date:	12/31/98
Sample ID:	Landfarm Comp #7	Date Sampled:	12/10/98
Lab ID:	0398G07293	Date Received:	12/11/98
Sample Matrix:	Soil	Date Analyzed:	12/23/98
Condition:	Cool/Intact		

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	28	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

Sampler: (Signature)

Chain of Custody Tape No.

Remarks

Sample No./
Identification

Date

Time

Lab Number

Matrix

No. of
Containers

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by laboratory: (Signature)

Date

Time

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