

*Denny E. Fort*  
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999  
*Approved*

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

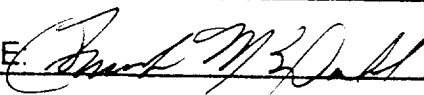

RECEIVED  
JUN 24 1999  
OIL CON. DIV.  
DIST. 3

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 67-19		
Location:	Unit or Qtr/QTR Sec "L" Sec 30, T 25 N, R 5 W County Rio Arriba		
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit
Land Type:	Range		
Pit Location:	Pit dimensions: length: 17 ft width: 17 ft depth: 10 ft		
(Attach Diagram)	Reference: wellhead: X other:		
	Footage from reference: 30 feet		
	Direction from reference: 60 Degrees X East North		
	West South X		
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevations of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	0
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)	0
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas, and livestock or wildlife watering ponds)	Less than 100 feet Greater Than 100 feet	(10 points) (0 points)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	0
RANKING SCORE (TOTAL SCORE):			0

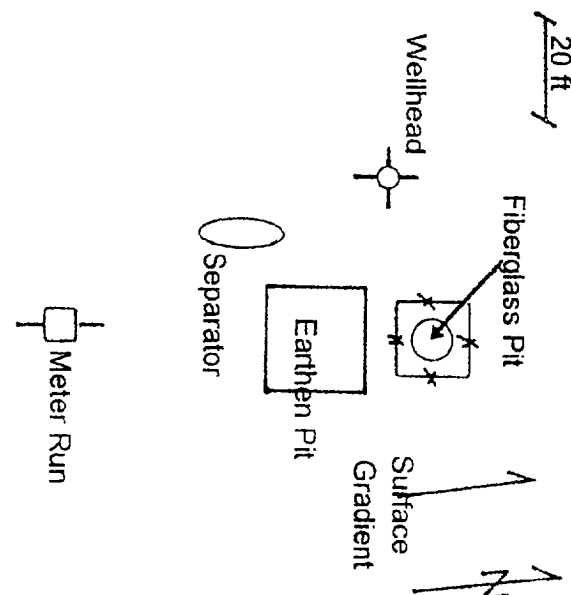
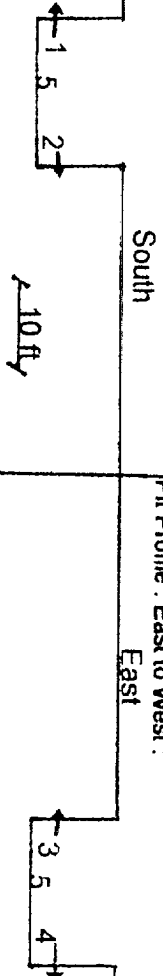
Jicarilla Apache Tribe  
Environmental Protection Office  
P.O. Box 507  
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started: 8/10/98		Date Completed: 8/11/98	
Remediation Method: (Check all appropriate sections)	Excavation:	<input checked="" type="checkbox"/>	Approx. cubic yd: 82
	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: _____ Depth: _____			
Final Pit Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample location: Pit Bottom @ 10 feet below surface. Pit walls were analyzed for Headspace (see attachment).		
	Sample depth:	10 feet	
	Sample date:	8/11/98	Sample time: 1245
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)	_____	Benzene (ppb)	_____
Total BTEX (ppm)	_____	Toluene (ppb)	_____
Field Headspace (ppm)	93	Ethylbenzene (ppb)	_____
TPH (ppm)	<10	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: 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: _____ (Reason)			
SIGNED: 		DATE: 9-2-98	

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

Date Started : August 10, 1998 Date Completed : August 11, 1998

Location : <u>Jicanilla 67# 19</u>		<b>Overview of Location and Sampling :</b> 	
Quad : <u>L</u> Section : <u>30</u>			
Range : <u>5 W</u> Township : <u>25 N</u>			
Pit : Abandoned Separator Pit Reference : <u>30S 60 E</u> Initial Size : <u>15' x 15' x 3' deep</u> Final Size : <u>17' x 17' x 10' deep</u> Yds. Excavated : <u>82 cy</u> Depth to Groundwater : <u>&gt;100'</u> Nearest Water Source : <u>&gt;1000'</u> Nearest Surface Water : <u>&gt;1000'</u> Nearest Ephemeral Stream : <u>&gt;1000'</u> EPO Ranking Score : <u>0</u> TPH Closure Standard : <u>5000</u>			
Comments : <u>Top soil - 3' Soil is moist, dark brown, clay/loam with dark gray staining and a strong hydrocarbon odor.</u> <u>3' - 10' Soil is moist, gray, clay, with some intermittent staining and a detectable odor.</u> <u>10' Soil is moist, gray, clay, with no staining or odor.</u> <u>A sample from the center bottom at 10' was sent to JML for GRO/DRO analysis.</u>		<b>Pit Profile : East to West :</b> 	
Pit Profile : North to South :			
North			
South			

Environmental Specialist : VC

Cimarron Oilfield Services

## GASOLINE RANGE ORGANICS - GRO

### Taurus Exploration U.S.A., Inc.

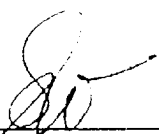
Project ID:	Jicarilla 67-19 Sep. Pit	Report Date:	08/24/98
Sample ID:	C.Bottom @ 10'	Date Sampled:	08/11/98
Lab ID:	0398G04485	Date Received:	08/12/98
Sample Matrix:	Soil	Date Analyzed:	08/20/98
Condition:	Cool/Intact		


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:

## DIESEL RANGE ORGANICS - DRO

### Taurus Exploration U.S.A., Inc.


Project ID:	Jicarilla 67-19 Sep. Pit	Report Date:	08/18/98
Sample ID	C. Bottom @ 10'	Date Sampled:	08/11/98
Lab ID:	0398G04485	Date Received:	08/12/98
Sample Matrix:	Soil	Date Analyzed:	08/18/98
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]

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

ON-SITE SOIL REMEDIATION REPORT

Operator: Taurus Exploration USA Inc. Telephone: (505) 325 - 6800

Address: 2198 Bloomfield Hwy, Farmington N.M. 87401

Facility or Well Name: Jicarilla 67 - 19

Location: Unit or Qtr/Qtr Sec L Sec 30 T 25 N R 5 W County Sandoval

Land Type: Range

Date Remediation Started: 8/10/98 Date Completed: 12/1/98

Remediation Method: Landfarmed X Approx. cubic yards 82

Composted       

Other       

Depth to Groundwater: (pts) 0

Distance to an Ephemeral  
Stream (pts) 0

Distance to Nearest Lake,  
Playa, or Watering Pond (pts) 0

Wellhead Protection Area (pts) 0

Distance to Surface Water (pts) 0

**RANKING SCORE**  
**(TOTAL POINTS):** 0

**Final Closure Sampling:**

Sampling Date: 12/1/98 Time: 08:49

Sample Results:


Field Headspace (ppm) 2.1

TPH (ppm) <15 Method 8015

Other:       

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE: 12/31/98 PRINTED NAME VIRGIL CHAVEZ

SIGNATURE  AND TITLE ENV. SPECIALIST

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 X NO        (REASON) was as Backf

SIGNED:  DATE: 1-4-99







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 67-19 Landfarm	Report Date:	12/31/98
Sample ID:	Composite #1	Date Sampled:	12/02/98
Lab ID:	0398G06954	Date Received:	12/02/98
Sample Matrix:	Soil	Date Analyzed:	12/29/98*
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 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 67-19 Landfarm	Report Date:	12/22/98
Sample ID:	Composite #1	Date Sampled:	12/02/98
Lab ID:	0398G06954	Date Received:	12/02/98
Sample Matrix:	Soil	Date Analyzed:	12/16/98
Condition:	Cool/Intact		

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	10	5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

  
Reported By:

  
Reviewed By:



# CHAIN OF CUSTODY RECORD

Inter-Mountain  
Laboratories, Inc.

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						
1183	12/18/98	1440			1						
<div>intact, hand delivered</div>											
Relinquished by: (Signature)											
Date		Time		Received by: (Signature)							
12/18/98		1440									
Relinquished by: (Signature)											
Date		Time		Received by: (Signature)							
12/18/98		1440									
Relinquished by: (Signature)											
Date		Time		Received by: (Signature)							
12/20/98		1440									

☐ 1633 Terra Avenue  
Sheridan, Wyoming 82801  
Telephone (307) 672-8945

☐ 1701 Phillips Circle  
Gillette, Wyoming 82718  
Telephone (307) 682-8945

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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

Inter-Mountain Laboratories, Inc.

50210