

*Dennis E. Faust*  
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

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

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

*Approved*

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 99-7		
Location:	Unit or Qtr/QTR	Sec "M" Sec 13, T 26 N, R 3 W County	Rio Arriba
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Blow Pit
Land Type:	Range		
Pit Location:	Pit dimensions: length: 20 ft width: 20 ft depth: 4 ft		
(Attach Diagram)			
Reference:	wellhead: X other:		
Footage from reference:	185 feet		
Direction from reference:	50	Degrees	East North X
			of
		X 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

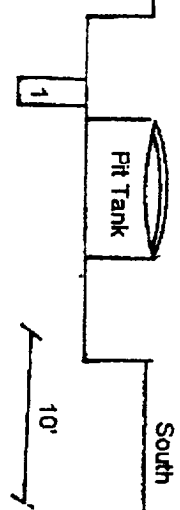
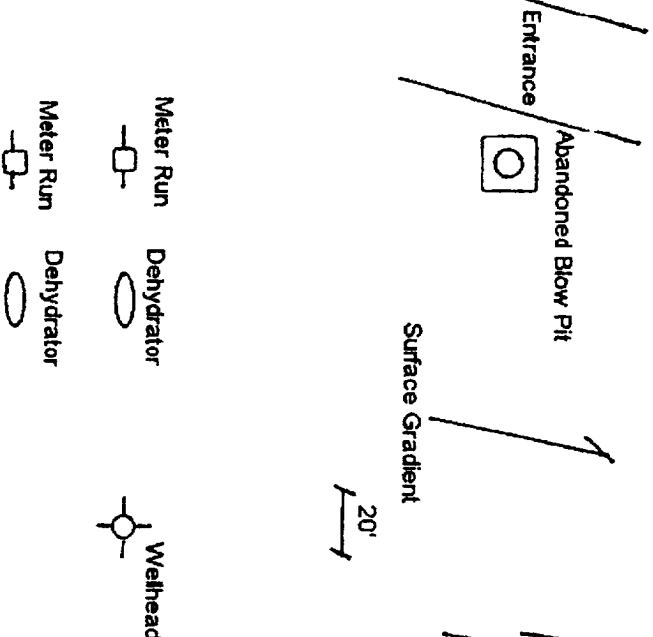
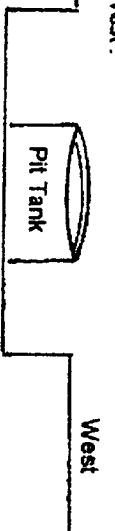
Jicarilla Apache Tribe  
Environmental Protection Office  
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Pit Remediation and Closure Report

Date Remediation Started:	8/20/98	Date Completed	8/20/98
Remediation Method:	Excavation:	Approx. cubic yd	0
(Check all appropriate sections)	Landfarmed:	Insitu Bioremediation:	
	Other:		
Remediation Location:	On-site:	Off-site:	
(I.e. landfarmed on site, name and location of off site location)			
General Description of Remedial Action:			
Groundwater Encountered:	No: X	Yes:	Depth:
Final Pit	Sample location: Pit bottom @ 8 feet below surface. <i>IC</i>		
Closure Sampling:			
(If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample depth:	8 feet	
	Sample date:	8/20/98	Sample time: 10:40
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)		Benzene (ppb)	
Total BTEX (ppm)		Toluene (ppb)	
Field Headspace (ppm)	24.1	Ethylbenzene (ppb)	
TPH (ppm)	1,520	Total Xylenes (ppb)	
Groundwater Sample:	Yes:	No: X	
(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:	10/16/98	Frank McDonald	
SIGNATURE:	<i>Frank McDonald</i> 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: X No: (Reason)			
SIGNED: <i>Frank McDonald</i>		DATE: 10/27/98	

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

Date Started : August 20, 1998 Date Completed : August 20, 1998

Location : <u>Jicarilla 89 - 7</u>																																									
Quad : <u>M</u>	Section : <u>13</u>																																								
Range : <u>3 W</u> Township: <u>26 N</u>																																									
<b>Pit : Abandoned Blow Pit</b>																																									
Reference : <u>185° N 50° W</u> from wellhead																																									
Initial Size : <u>20' x 20' x 4' deep</u>																																									
Final Size : <u>20' x 20' x 4' deep</u>																																									
Yds. Excavated : <u>0 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>																																									
<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>OVM</th></tr></thead><tbody><tr><td>1</td><td>N Bm @ 6' V</td><td>24.1</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	OVM	1	N Bm @ 6' V	24.1	2			3			4			5			6			7			8			9			10			11			12		
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<b>Comments :</b> Top soil - 3' Soil is moist, light brown, sandy-loam with no hydrocarbon staining or odor. 3' - 4' Soil is moist, dark brown, loam with no hydrocarbon staining and a very minor odor. A fiberglass pit tank is in the pit and will be removed. A sample from the north bottom @ 8' was sent to IML for GPC/DRO analysis.																																									
<b>Pit Profile : North to South :</b> 		<b>Overview of Location and Sampling :</b> 																																							
<b>Pit Profile : East to West :</b> 																																									

Environmental Specialist : YC

Cimarron Oilfield Services

## GASOLINE RANGE ORGANICS - GRO

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


Project ID:	Jicarilla 99-7 Blow Pit	Report Date:	09/17/98
Sample ID:	N. Bottom @ 8'	Date Sampled:	08/20/98
Lab ID:	0398G04753	Date Received:	08/21/98
Sample Matrix:	Soil	Date Analyzed:	08/28/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	623	5.0 mg/kg

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 99-7 Blow Pit	Report Date:	09/17/98
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Sample Matrix:	Soil	Date Analyzed:	08/28/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	623	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

  
Reported By:

  
Reviewed By:

COPY

FILE COPY

Frank McDonald  
Cimarron Oilfield Service Co.  
P. O. Box 3235  
Farmington, NM 87401

September 11, 1998


Mr. McDonald:

Enclosed, please find the reports for the sample submitted for Taurus Exploration to our laboratory on August 21 and August 25, 1998.

If you have any questions about the results of these analyses, please don't hesitate to call at your convenience.

We appreciate your business!

Sincerely,

  
Sharon Williams  
Organics Lab Supervisor

Enclosure

xc: File

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

Project ID:	Jicarilla 99-7 Blow Pit	Report Date:	10/13/98
Sample ID:	N. Bottom @ 8'	Date Sampled:	08/20/98
Lab ID:	0398G04753	Date Received:	08/21/98
Sample Matrix:	Soil	Date Analyzed:	08/28/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	623 897 19,20	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

  
Reported By:  
Reviewed By

**Diesel Range Organic - DRO****Taurus Exploration U.S.A., Inc.**

Project ID:	Jicarilla 99-7 Blow Pit	Report Date:	08/31/98
Sample ID:	Jic 99-7 N. Btm @ 8'	Date Sampled:	08/20/98
Lab ID:	0398G04753	Date Received:	08/21/98
Sample Matrix:	Soil	Date Analyzed:	08/28/98
Condition:	Cool/Intact		

TPH DIESEL RANGE (MOD EPA 8016)	RESULT mg/kg	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	897	5.0 mg/kg
Total Extractable Petroleum Hydrocarbons	961 1858	5.0 mg/kg

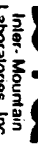
Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	<u>O-Terphenyl</u>	<u>111%</u>	<u>70-130%</u>

Comments:

Reference: USEPA Manual SW-846, Methods, 3510,3550a, 8015Mod, Revision 2, 1996.  
Hydrocarbons in Soil - 8015AZ, Revision 0, 1998.

  
Reported By:  
Reviewed By:





## CHAIN OF CUSTODY RECORD

Client/Project Name				Project Location				ANALYSES / PARAMETERS			
Taurus Exploration USA Inc.				Jicarilla 99-7 Blow Rt							
Sampler Signature: <i>[Signature]</i>				Chain of Custody Tape No.							
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks					
Jic 99-7 N. Blw Rst	8/20/98	10:40		Soi'l	X 8015 CRO/DRO						
<del>_____</del>							<div>Cool intact, hand delivered</div>				
Abandoned by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature)	Date	Time			
Relinquished by: (Signature) <i>[Signature]</i>				8/21/98	07:40	Juanita Hudson	8/21/98	7:40			
Relinquished by: (Signature) <i>[Signature]</i>				8/21/98	11:05	Billy Jones	8/21/98	11:05			

☐ 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

☐ 1183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945

Inter-Mountain Laboratories, Inc.  
54065