

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

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

RECEIVED
AUG 09 1999

Pit Remediation and Closure Report

OIL CON. DIV.

Operator: Taurus Exploration U.S.A., Inc Telephone: (505) 325-6800
Address: 2198 Bloomfield Hwy, Farmington, NM 87401
Facility or Well Name: Jicarilla 96-8 A
Location: Unit or Qtr/QTR Sec "D" Sec 12, T 26 N, R 3 W County Rio Arriba
Pit Type: Separator: Dehydrator: Other: X - Abandoned
Land Type: Range

Pit Location: Pit dimensions: length: 18 ft width: 6 ft depth: 4 ft
(Attach Diagram)

Reference: wellhead: X other:
Footage from reference: 42 feet
Direction from reference: 90 Degrees X East North 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)

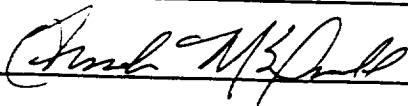
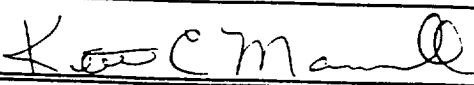
Distance To Surface Water: Less than 100 feet (20 points)
(Horizontal distance to perennial 100 feet to 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches.)

RANKING SCORE (TOTAL SCORE): 0

COPY

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

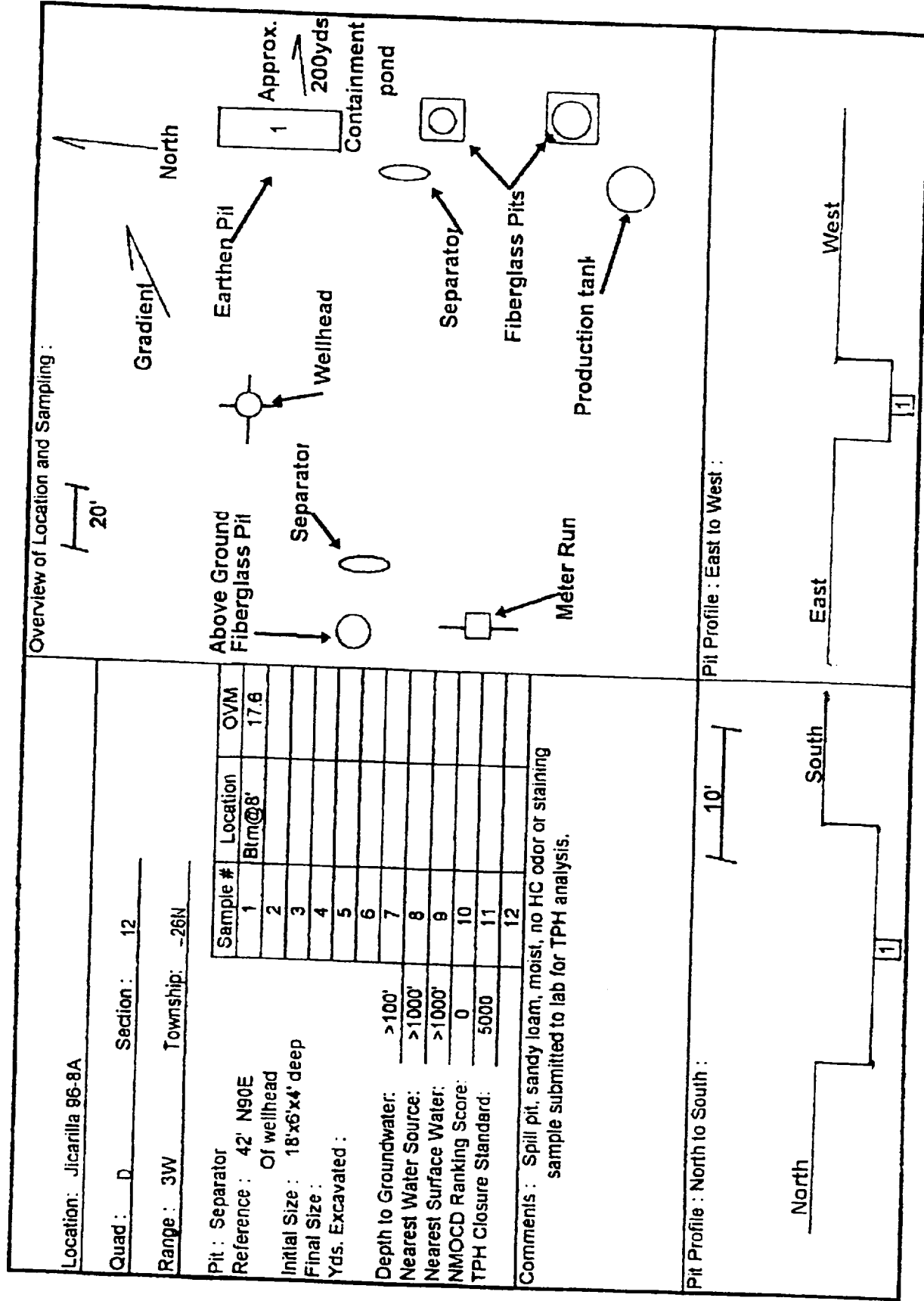
Pit Remediation and Closure Report

Date Remediation Started:	4/24/98	Date Completed	4/24/98
Remediation Method: (Check all appropriate sections)	Excavation: _____ Landfarmed: _____ Other: _____	Approx. cubic ya: _____ Insitu Bioremediation: _____ Pit bottom to 4 feet below surface is clean.	0
Remediation Location: (I.e. landfarmed on site, name and location of off site location)	On-site: _____ Off-site: _____	N/A	
General Description of Remedial Action: Sample from 4 feet below pit bottom was analyzed and within EPO Guidelines.			
Groundwater Encountered:	No: X	Yes: _____	Depth: _____
Final Pit Closure Sampling: (If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample location: Center bottom @ 8 feet (4 ft below pit bottom).		
Sample Results:	Sample depth: 8 feet	Sample date: 4/24/98	Sample time: N/A
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm) _____		Benzene (ppb) _____	
Total BTEX (ppm) _____		Toluene (ppb) _____	
Field Headspace (ppm) 17.6		Ethylbenzene (ppb) _____	
TPH (ppm) 91		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: 7/6/98	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: X No: _____ (Reason)			
SIGNED: 		DATE: 7-16-98	

COPY

Client : Taurus Exploration U.S.A Inc.

Date Started : April 24, 1998 Date Completed : April 24, 1998



COPY

Environmental Specialist : BS

Cimarron Oilfield Services

Page 1 of 1

Inter-Mountain Laboratories, Inc.

1701 Phillips Circle
Gillette, Wyoming 82718

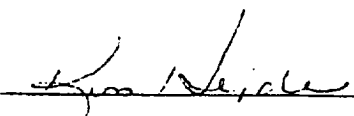
Client: IML - Farmington
Project: Taurus Exploration
Sample ID: Sep Pit @8'
Lab ID: 0298W01933
Matrix: Soil
Condition: Cool/Intact

Date Reported: 05/18/98
Date Sampled: 04/23/98
Date Received: 04/28/98

Parameter	Analytical Result	PQL	Units
DRO ANALYSIS			
DRO (Modified 8015)	91	5	mg/Kg
GRO ANALYSIS			
GRO (Modified 8015)	ND	5	mg/Kg

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 8015, Nonhalogenated Organics, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency, SW-846

Reviewed By: 

COPY

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES / PARAMETERS									
Sampler: (Signature)		Chain of Custody Tape No.		No. of Containers		Remarks							
Sample No./ Identification	Date	Time	Lab Number	Matrix									
Sample 1	1/17/98	10:00		Soil									
Sample 2	1/17/98	10:00		Soil									
Sample 3	1/17/98	10:00		Soil									
Sample 4	1/17/98	10:00		Soil									
Sample 5	1/17/98	10:00		Soil									
Sample 6	1/17/98	10:00		Soil									
Sample 7	1/17/98	10:00		Soil									
Sample 8	1/17/98	10:00		Soil									
Sample 9	1/17/98	10:00		Soil									
Sample 10	1/17/98	10:00		Soil									
Sample 11	1/17/98	10:00		Soil									
Sample 12	1/17/98	10:00		Soil									
Sample 13	1/17/98	10:00		Soil									
Sample 14	1/17/98	10:00		Soil									
Sample 15	1/17/98	10:00		Soil									
Sample 16	1/17/98	10:00		Soil									
Sample 17	1/17/98	10:00		Soil									
Sample 18	1/17/98	10:00		Soil									
Sample 19	1/17/98	10:00		Soil									
Sample 20	1/17/98	10:00		Soil									
Sample 21	1/17/98	10:00		Soil									
Sample 22	1/17/98	10:00		Soil									
Sample 23	1/17/98	10:00		Soil									
Sample 24	1/17/98	10:00		Soil									
Sample 25	1/17/98	10:00		Soil									
Sample 26	1/17/98	10:00		Soil									
Sample 27	1/17/98	10:00		Soil									
Sample 28	1/17/98	10:00		Soil									
Sample 29	1/17/98	10:00		Soil									
Sample 30	1/17/98	10:00		Soil									
Sample 31	1/17/98	10:00		Soil									
Sample 32	1/17/98	10:00		Soil									
Sample 33	1/17/98	10:00		Soil									
Sample 34	1/17/98	10:00		Soil									
Sample 35	1/17/98	10:00		Soil									
Sample 36	1/17/98	10:00		Soil									
Sample 37	1/17/98	10:00		Soil									
Sample 38	1/17/98	10:00		Soil									
Sample 39	1/17/98	10:00		Soil									
Sample 40	1/17/98	10:00		Soil									
Sample 41	1/17/98	10:00		Soil									
Sample 42	1/17/98	10:00		Soil									
Sample 43	1/17/98	10:00		Soil									
Sample 44	1/17/98	10:00		Soil									
Sample 45	1/17/98	10:00		Soil									
Sample 46	1/17/98	10:00		Soil									
Sample 47	1/17/98	10:00		Soil									
Sample 48	1/17/98	10:00		Soil									
Sample 49	1/17/98	10:00		Soil									
Sample 50	1/17/98	10:00		Soil									
Sample 51	1/17/98	10:00		Soil									
Sample 52	1/17/98	10:00		Soil									
Sample 53	1/17/98	10:00		Soil									
Sample 54	1/17/98	10:00		Soil									
Sample 55	1/17/98	10:00		Soil									
Sample 56	1/17/98	10:00		Soil									
Sample 57	1/17/98	10:00		Soil									
Sample 58	1/17/98	10:00		Soil									
Sample 59	1/17/98	10:00		Soil									
Sample 60	1/17/98	10:00		Soil									
Sample 61	1/17/98	10:00		Soil									
Sample 62	1/17/98	10:00		Soil									
Sample 63	1/17/98	10:00		Soil									
Sample 64	1/17/98	10:00		Soil									
Sample 65	1/17/98	10:00		Soil									
Sample 66	1/17/98	10:00		Soil									
Sample 67	1/17/98	10:00		Soil									
Sample 68	1/17/98	10:00		Soil									
Sample 69	1/17/98	10:00		Soil									
Sample 70	1/17/98	10:00		Soil									
Sample 71	1/17/98	10:00		Soil									
Sample 72	1/17/98	10:00		Soil									
Sample 73	1/17/98	10:00		Soil									
Sample 74	1/17/98	10:00		Soil									
Sample 75	1/17/98	10:00		Soil									
Sample 76	1/17/98	10:00		Soil									
Sample 77	1/17/98	10:00		Soil									
Sample 78	1/17/98	10:00		Soil									
Sample 79	1/17/98	10:00		Soil									
Sample 80	1/17/98	10:00		Soil									
Sample 81	1/17/98	10:00		Soil									
Sample 82	1/17/98	10:00		Soil									
Sample 83	1/17/98	10:00		Soil									
Sample 84	1/17/98	10:00		Soil									
Sample 85	1/17/98	10:00		Soil									
Sample 86	1/17/98	10:00		Soil									
Sample 87	1/17/98	10:00		Soil									
Sample 88	1/17/98	10:00		Soil									
Sample 89	1/17/98	10:00		Soil									
Sample 90	1/17/98	10:00		Soil									
Sample 91	1/17/98	10:00		Soil									
Sample 92	1/17/98	10:00		Soil									
Sample 93	1/17/98	10:00		Soil									
Sample 94	1/17/98	10:00		Soil									
Sample 95	1/17/98	10:00		Soil									
Sample 96	1/17/98	10:00		Soil									
Sample 97	1/17/98	10:00		Soil									
Sample 98	1/17/98	10:00		Soil									
Sample 99	1/17/98	10:00		Soil									
Sample 100	1/17/98	10:00		Soil									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Bob Johnson	1/17/98	10:00			
Bob Johnson	1/17/98	10:00			
Bob Johnson	1/17/98	10:00			

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

☐ 1701 Phillips Circle
Gilllette, 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.

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 96-8A

Location: Unit or Qtr/Qtr Sec D Sec 12 T 26 N R 3 W County Rio Arriba

Land Type: Range

Date Remediation Started: Unknown Date Completed: 12/11/98

Remediation Method: Landfarmed X Approx. cubic yards 45

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: 12/11/98 Time: 08:00

Sample Results:

Field Headspace (ppm) 39

TPH (ppm) <28 Method 8015

Other:

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

DATE: 1/6/99 PRINTED NAME: VIRGIL CHAVEZ

SIGNATURE: [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) use as Backfill

SIGNED: [Signature] DATE: 1-7-99

Location : Jicarilla 96-8A			
Quad :	D	Section :	12
Township:	26 N	Range:	3 W
Pit :	Spill Landfarm		
Reference	20' S 20 W from wellhead.		
Size:	30' x 40' x 1' deep		
Yds :	45		
1	5 - Point Composites		
	Sample #	Location	OVM
	1	Comp 1	39
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		

Overview of Landfarm and Sampling :

production tank

seperator tank

seperator

meter run dehy

dehy tank

land farm

North

well head

Comments : Soil is moist, dark brown, sandy/loam, with minor staining and a mild hydrocarbon odor.
A sample from composite # 1 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 96-8A
Sample ID: Landfarm Comp #1
Lab ID: 0398G07294
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 12/31/98
Date Sampled: 12/10/98
Date Received: 12/11/98
Date Analyzed: 12/30/98*

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 96-8A
Sample ID: Landfarm Comp #1
Lab ID: 0398G07294
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 12/31/98
Date Sampled: 12/11/98
Date Received: 12/11/98
Date Analyzed: 12/23/98

TPH DIESEL RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	23	5.0 mg/Kg

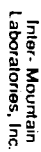
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:



CHAIN OF CUSTODY RECORD

[illegible]