

Denny & Faust
DEPUTY OIL & GAS INSPECTOR

AUG 09 1999

Approved

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

OK
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 99-15		
Location:	Unit or Qtr/QTR Sec "I" Sec 23, T 26 N, R 3 W County Rio Arriba		
Pit Type:	Separator:	Dehydrator:	Other: X - Abandoned Separator Pit
Land Type:	Range		
Pit Location: Pit dimensions: length: 15 ft width: 15 ft depth: 10 ft (Attach Diagram)			
Reference: wellhead: X other:			
Footage from reference: 90			
Direction from reference: 60 Degrees East North X 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
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P.O. Box 507
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Pit Remediation and Closure Report

Date Remediation Started:	5/26/98	Date Completed	7/8/98
Remediation Method:	Excavation:	<input checked="" type="checkbox"/>	Approx. cubic yd: 81
(Check all appropriate sections)	Landfarmed:	<input checked="" type="checkbox"/>	Insitu Bioremediation:
	Other:		
Remediation Location:	On-site:	<input checked="" type="checkbox"/>	Off-site:
(I.e. landfarmed on site, name and location of off site location)			
General Description of Remedial Action:		Soil was excavated and landfarmed on location.	

Groundwater Encountered:	No: <input checked="" type="checkbox"/>	Yes:	Depth:
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Final Pit Closure Sampling:	Sample location: Pit Bottom @ 10 feet below surface. Pit walls were analyzed for Headspace (see attachment).
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(If multiple samples, attach sample results and diagram of sample locations and depths.)	Sample depth:	10 feet	Sample date:	7/8/98	Sample time:	1200
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Sample Results:

Soil:

Benzene (ppm)	_____
Total BTEX (ppm)	_____
Field Headspace (ppm)	2
TPH (ppm)	<10

Water:

Benzene (ppb)	_____
Toluene (ppb)	_____
Ethylbenzene (ppb)	_____
Total Xylenes (ppb)	_____

Groundwater Sample:	Yes: _____	No: <input checked="" type="checkbox"/>	(If yes, attach sample results.)
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I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE: 8/5/98 Frank McDonald

SIGNATURE:  AND TITLE: Env. Division Manager

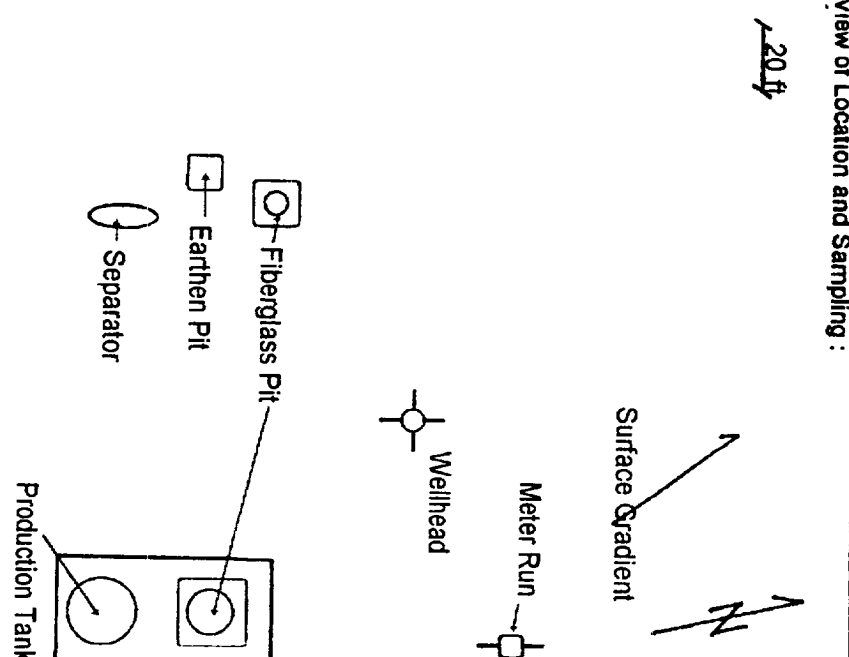
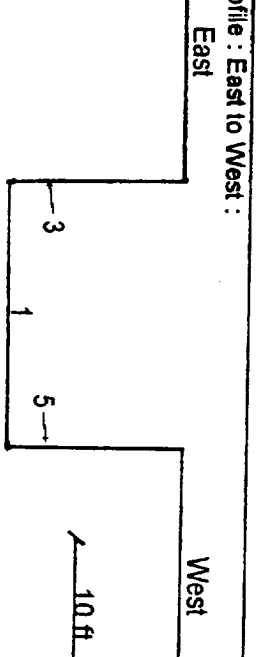
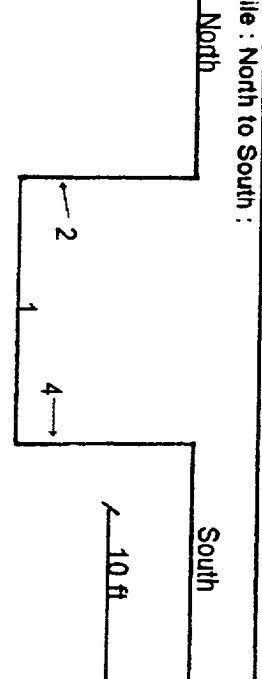
AFTER REVIEW OF THE PIT CLOSURE INFORMATION PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: Yes: ☒ No: _____ (Reason)

SIGNED:  DATE: 9-2-98

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

Date Started : May 26, 1998 Date Completed : July 8, 1998

Location : <u>Jicarilla 99 # 15</u>		Overview of Location and Sampling : 	
Quad : <u>1</u> Section : <u>23</u>			
Range : <u>3 W</u> Township : <u>28 N</u>			
Pit : Abandoned Separator Pit Reference : 80' S 80 W from wellhead Initial Size : 6' x 6' x 2' deep Final Size : 15' x 15' x 10' deep Yds. Excavated : 81 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			
Comments : Top soil is sandy loam, hydrocarbon odor and staining is present. 1' to bottom, soil is clay loam, brown in color. Sample from bottom, sent to IML for GRC/DRO analysis.		Pit Profile : East to West : 	
Pit Profile : North to South : 			
North			
South			


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

Project ID:	Jicarilla 99-15	Report Date:	07/21/98
Sample ID:	C Bottom @ 10'	Date Sampled:	07/08/98
Lab ID:	0398G03903	Date Received:	07/09/98
Sample Matrix:	Soil	Date Analyzed:	07/10/98
Condition:	Cool/Intact		

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

ND - Analyte not detected at the stated detection limit.

Comments:

Reported By: Reviewed By: 

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.


Project ID:	Jicarilla 99-15	Report Date:	07/15/98
Sample ID:	C Bottom @ 10'	Date Sampled:	07/08/98
Lab ID:	0398G03903	Date Received:	07/09/98
Sample Matrix:	Soil	Date Analyzed:	07/15/98
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

Client/Project Name			Project Location		ANALYSES / PARAMETERS							
Taurus Exploration USA Inc			Sierrita 99-15									
Sampler: (Signature) <i>David Long</i>			Chain of Custody Tape No.									
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Remarks						
J.C. 99-15 C.Bm 210'	7/13/98	12:00		Soil	✓ 8015 GRO/DIRU	Seiche Pit						
<div>Impact, Hand Collected</div>												
Relinquished by: (Signature) <i>David Long</i>			Date	Time	Received by: (Signature)	Date	Time					
			7/9/98	08:30	<i>Jana Hayes</i>	7/9/98	8:30					
Relinquished by: (Signature) <i>Jana Hayes</i>			Date	Time	Received by: (Signature)	Date	Time					
			7/9/98	4/15								
Relinquished by: (Signature)			Date	Time	Received by laboratory: (Signature)	Date	Time					
					<i>Chris Raymond</i>	7-9-98	1615					

☐ 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

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

Inter-Mountain Laboratories, Inc.

54532

**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 99 - 15

Location: Unit or Qtr/Qtr Sec I Sec 23 T 26 N R 3 W County Rio Arriba

Land Type: Range

Date Remediation Started: 5/26/98 Date Completed: 2/3/99

Remediation Method: Landfarmed X Approx. cubic yards 81

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: 2/3/99 Time: 12:30

Sample Results:

Field Headspace (ppm) 1.2

TPH (ppm) <23 Method 8015

Other:

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

DATE: 2/16/99 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 NO (REASON)

SIGNED: DATE:



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

Client: Energen Resources

Project: Jicarilla 99-15

Sample ID: Landfarm Comp #1

Lab ID: 0399W00708

Matrix: Soil

Condition: Cool/Intact

Date Reported: 02/10/99

Date Sampled: 02/03/99

Date Received: 02/04/99

Date Analyzed: 02/09/99

Parameter	Analytical Result	PQL	Units
METHOD 8015 - DRO			
Diesel Range Organics	17	5	mg/Kg
Diesel Range Organics as Diesel	17	5	mg/Kg
Quality Control - Surrogate Recovery			
	%	QC Limits	
o-Terphenyl(SUR-8015)	80	70 - 130	

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Reviewed By

Sharon Williams, Organic Lab Supervisor



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

Client: Energen Resources

Project: Jicarilla 99-15

Sample ID: Landfarm Comp #1

Lab ID: 0399W00708

Matrix: Soil

Condition: Cool/Intact

Date Reported: 02/05/99

Date Sampled: 02/03/99

Date Received: 02/04/99

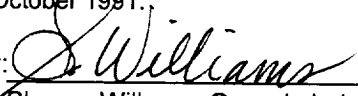
Date Analyzed: 02/05/99

Parameter	Analytical Result	PQL	Units
METHOD 8015 - GRO			
Gasoline Range Organics	<5	5	mg/Kg
Gasoline Range Organics as Gasoline	<5	5	mg/Kg

Reference: GRO - USEPA Method for Determination of Gasoline Range Organics, Revision 5, February 1992.

WTPH-G Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Reviewed By:


Sharon Williams, Organic Lab Supervisor



CHAIN OF CUSTODY RECORD

[illegible]