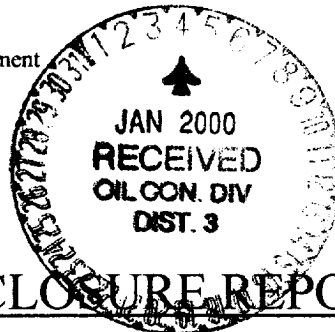


District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088



SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator : Energen Resources (Taurus Exploration) Telephone: (505) 326-6131

Address: 2198 Bloomfield Highway Farmington, NM 87401

Facility Or: Florance Federal #8
Well Name

Location: Unit or Qtr/Qtr Sec H Sec 5 T 25N R 3W County Rio Arriba

Pit Type: Separator _____ Dehydrator X Other _____

Land Type: BLM _____ State _____ Fee X Other _____

Pit Location: Pit dimensions: Length 30 ft width 30 ft depth 20 ft
(Attach diagram)

Reference: wellhead X other _____

Footage from reference: 130 ft

Direction from reference: 30 Degrees X East North X
of
West South

Depth to Ground Water: <u>>100 feet</u>	_____ Less than 50 feet (20 points)	
(vertical distance from	_____ 50 ft to 99 feet (10 points)	
contaminants to seasonal	<u>X</u> Greater than 100 feet (0 points)	<u>0</u>
highwater elevation of		
ground water)		

Wellhead Protection Area:			
(less than 200 feet from a private	_____ Yes (20 points)		
domestic water source, or: less than	<u>X</u> No (0 points)		<u>0</u>
1000 feet from all other water sources).			

Distance to Surface Water:			
(Horizontal distance to perennial	_____ Less than 200 feet (20 points)		
lakes, ponds, rivers, streams, creeks,	_____ 200 feet to 1000 feet (10 points)		
irrigation canals and ditches.)	<u>X</u> Greater than 1000 feet (0 points)		<u>0</u>

P:\pits\PrrC@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/11/98 Date Completed: 2/11/99
Excavation X Approx. cubic yards 625
Landfarmed X Insitu Bioremediation _____
Other _____

Remediation Method: Onsite X Offsite _____
(Check all appropriate sections)

General Description of Remedial Action : On 9/14/98, the pit was excavated to a depth of 20 feet. A soil sample was obtained from the center bottom of the pit at a depth of 20 feet utilizing U.S.E.P.A. protocol and sent to IML for GRO/DRO analysis. Excavated soils were landfarmed on site. On 2/11/99, the landfarm was tested and provided concentrations below NMOCD guidelines.

Ground Water 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

Sample depth 20 feet

Sample date 9/14/98

Sample time 11:30

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 4.1

TPH <10

Ground Water Sample: Yes _____ No X (if yes, attach sample results)

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

DATE 12/22/99 PRINTED NAME Virgil Chavez

SIGNATURE Virgil Chavez and TITLE Environmental Specialist

Location : <u>Florance Federal # 8</u>		Overview of Location and Sampling :																																						
Quad : <u>H</u>	Section : <u>5</u>																																							
Range : <u>3 W</u>	Township: <u>25 N</u>																																							
Pit : Dehydrator Pit Reference : 130' N 30 E from wellhead Initial Size : 20' x 20' x 3' deep Final Size : 30' x 30' x 20' deep Yds. Excavated : 625 cy Depth to Groundwater: >100' Nearest Water Source: >1000' Nearest Surface Water: >1000' NMOCD 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>N.Wall@18'</td><td>1.9</td></tr> <tr><td>2</td><td>S.Wall@18'</td><td>2.7</td></tr> <tr><td>3</td><td>E.Wall@18'</td><td>3.9</td></tr> <tr><td>4</td><td>W.Wall@18'</td><td>1.5</td></tr> <tr><td>5</td><td>C.Btm.@20'</td><td>4.1</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.Wall@18'	1.9	2	S.Wall@18'	2.7	3	E.Wall@18'	3.9	4	W.Wall@18'	1.5	5	C.Btm.@20'	4.1	6			7			8			9			10			11			12
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Comments : Top soil - 18' Soil is dry, medium brown, clay/loam with black staining and a strong hydrocarbon odor. 18' - 20' Soil is moist, brown, clay with no visible staining but a detectable hydrocarbon odor. A sample from the center bottom at 20' was sent to IML for GRO/DRO analysis.		Enter																																						
Pit Profile : North to South :		Pit Profile : East to West :																																						

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:	Florance Federal #8 Dehy. Pit	Report Date:	10/01/98
Sample ID:	C. Bottom @ 20'	Date Sampled:	09/14/98
Lab ID:	0398G05381	Date Received:	09/15/98
Sample Matrix:	Soil	Date Analyzed:	09/30/98
Condition:	Cool/Intact		

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

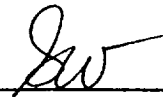
Project ID:	Florance Federal #8 Dehy. Pit	Report Date:	10/01/98
Sample ID:	C. Bottom @ 20'	Date Sampled:	09/14/98
Lab ID:	0398G05381	Date Received:	09/15/98
Sample Matrix:	Soil	Date Analyzed:	09/30/98
Condition:	Cool/Intact		

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	<5.0	5.0 mg/kg
Total Purgeable Hydrocarbons	<5.0	5.0 mg/kg

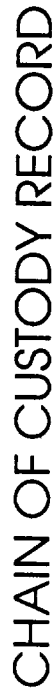
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By



CHAIN OF CUSTODY RECORD

[illegible]

Location : <u>Florance Federal # 8</u> Quad : <u>H</u> Section : <u>5</u> Township: <u>25 N</u> Range: <u>3 W</u>		Overview of Landfarm and Sampling :																																								
Pit : <u>Dehydrator Pit</u> Reference <u>100' S 50' E</u> from wellhead. Size: <u>200' x 80' x 1'</u> Yds : <u>625</u> <u>4</u> <u>5 - Point Composites</u>	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Sample #</th> <th style="width:20%;">Location</th> <th style="width:10%;">OVM</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>0.8</td></tr> <tr><td>3</td><td>Comp 3</td><td>0.2</td></tr> <tr><td>4</td><td>Comp 4</td><td>2.8</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	Comp 1	0.2	2	Comp 2	0.8	3	Comp 3	0.2	4	Comp 4	2.8	5			6			7			8			9			10			11			12		
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Comments : Soil is moist, medium brown, clay/loam, with no staining and no hydrocarbon odor. A sample from composite # 4 was sent to IML for GRO/DRO analysis.																																										
Environmental Specialist : <u>JE</u>																																										



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

Client: Energen Resources
Project: Florance Fed #8
Sample ID: Landfarm Comp 4
Lab ID: 0399W00904
Matrix: Soil
Condition: Cool/Intact

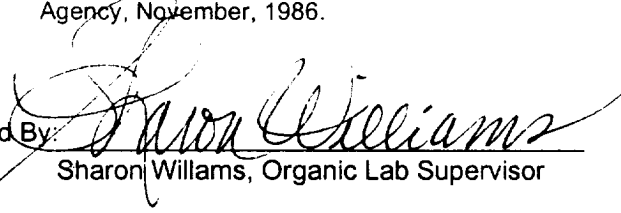
Date Reported: 02/23/99
Date Sampled: 02/11/99
Date Received: 02/12/99
Date Analyzed: 02/17/99

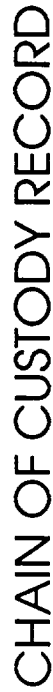
Parameter	Analytical Result	PQL	Units
DRO - METHOD 8015			
Diesel Range Organics	<5	5	mg/Kg
Diesel Range Organics as Diesel	<5	5	mg/Kg
Quality Control - Surrogate Recovery		QC Limits	
o-Terphenyl(SUR-8015)	77	70 - 130	
GRO - METHOD 8015			
Gasoline Range Organics	<5 **	5	mg/Kg
Gasoline Range Organics as Gasoline	<5 **	5	mg/Kg
Quality Control - Surrogate Recovery		QC Limits	
a,a,a-Trifluorotoluene(SUR-8015)	0 **	70 - 130	

** - Surrogate Recovery failed QC Limits due to matrix interference.

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:


Sharon Williams, Organic Lab Supervisor



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										
Land from Comp 4	2-11-99	12:30		Soil	1	+ 2015 evidence									
Received and intact parcel CP1 PH															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)									
Relinquished by: (Signature)		Date		Time		Received by laboratory: (Signature)									

☐ 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.

50193