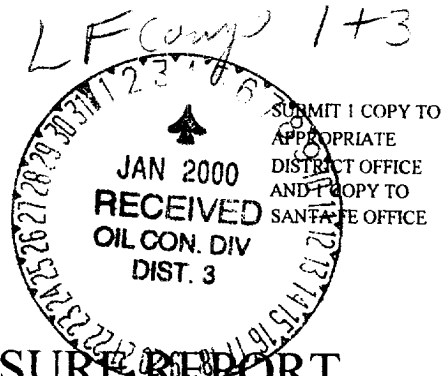


District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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



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 #7 A
Well Name

Location: Unit or Qtr/Qtr Sec H Sec 4 T 25N R 3W County Rio Arriba

Pit Type: Separator Dehydrator Other Abandoned Separator Pit

Land Type: BLM State Fee X Other

Pit Location: Pit dimensions: Length 25 ft width 25 ft depth 20 ft
(Attach diagram)

Reference: wellhead X other

Footage from reference: 75 ft

Direction from reference: 60 Degrees X East North X
of
West South

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

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

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

P:\pits\PrnC@WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/8/98 Date Completed: 2/10/99
Excavation X Approx. cubic yards 435
Landfarmed X Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action : On 9/9/98, 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 evaluated for BTEX and GRO/DRO analysis. Excavated soils
were landfarmed on site. On 2/10/99, 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 9/9/98

Sample time 13:32

Sample Results

Benzene(ppm) ND

Total BTEX (PPM) ND

Field Headspace (ppm) 112

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 # 7 A</u> Quad: <u>H</u> Section: <u>4</u> Range: <u>3 W</u> Township: <u>25 N</u>		Overview of Location and Sampling:																																							
Pit: <u>Abandoned Separator Pit</u> Reference: <u>75' N 60 E</u> Initial Size: <u>15' x 15' x 3' deep</u> Final Size: <u>25' x 25' x 20' deep</u> Yds. Excavated: <u>435 cy</u> Depth to Groundwater: <u>>100'</u> Nearest Water Source: <u>>1000'</u> Nearest Surface Water: <u>>1000'</u> NMOCD Ranking Score: <u>0</u> TPH Closure Standard: <u>5000</u>	<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>76</td></tr> <tr><td>2</td><td>S. Wall @ 18'</td><td>44</td></tr> <tr><td>3</td><td>E. Wall @ 18'</td><td>14</td></tr> <tr><td>4</td><td>W. Wall @ 18'</td><td>32</td></tr> <tr><td>5</td><td>C. Bottom @ 20'</td><td>112</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'	76	2	S. Wall @ 18'	44	3	E. Wall @ 18'	14	4	W. Wall @ 18'	32	5	C. Bottom @ 20'	112	6			7			8			9			10			11			12			Comments: <u>Top soil - 8' Soil is moist, dark brown, sandy/loam with black staining and a strong hydrocarbon odor.</u> <u>8' - 20' Soil is moist, brown, clay/loam with no staining and a slight hydrocarbon odor.</u> A sample from the center bottom at 20' was sent to IML for GRO/DRO and BTEX analysis.
Sample #	Location	OVM																																							
1	N. Wall @ 18'	76																																							
2	S. Wall @ 18'	44																																							
3	E. Wall @ 18'	14																																							
4	W. Wall @ 18'	32																																							
5	C. Bottom @ 20'	112																																							
6																																									
7																																									
8																																									
9																																									
10																																									
11																																									
12																																									
Pit Profile: North to South :		Pit Profile: East to West :																																							

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

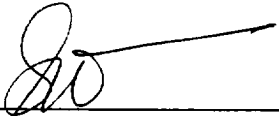
Project ID:	Florance #7A Sep. Pit	Report Date:	09/22/98
Sample ID:	Bottom @ 20'	Date Sampled:	09/09/98
Lab ID:	0398G05232	Date Received:	09/11/98
Sample Matrix:	Soil	Date Analyzed:	09/18/98
Condition:	Cool/Intact		

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:	Florance #7A Sep. plt	Report Date:	09/22/98
Sample ID:	Bottom @ 20'	Date Sampled:	09/09/98
Lab ID:	0398G05232	Date Received:	09/11/98
Sample Matrix:	Soil	Date Analyzed:	09/18/98
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:

VOLATILE AROMATIC HYDROCARBONS**Taurus Exploration U.S.A., Inc.**

Project ID: Florance #7A Sep. Pit
Sample ID: Bottom @ 20'
Lab ID: 0398G05232
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 09/22/98
Date Sampled: 09/09/98
Time Sampled: 3:52pm
Date Received: 09/11/98
Date Extracted: NA
Date Analyzed: 09/17/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	10.0
Toluene	ND	50.0
Ethylbenzene	ND	50.0
m,p-Xylenes	ND	50.0
o-Xylene	ND	50.0

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Bromofluorobenzene	88%	70%-130%

Reference: Method 5030, Purge and Trap; Method 8021B, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Revision 2, December, 1996.

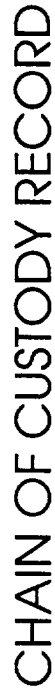
Comments:



Analyst



Review



CHAIN OF CUSTODY RECORD

[illegible]



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

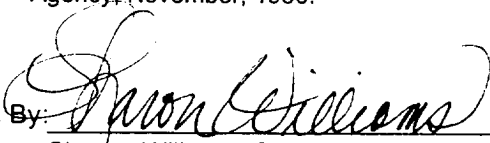
Client: Energen Resources
Project: Florance Fed #7A
Sample ID: Landfarm Comp 2
Lab ID: 0399W00901
Matrix: Soil
Condition: Cool/Intact

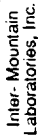
Date Reported: 02/23/99
Date Sampled: 02/10/99
Date Received: 02/12/99
Date Analyzed: 02/16/99

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)		113	70 - 130

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



ANALYSES / PARAMETERS

[illegible]