

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

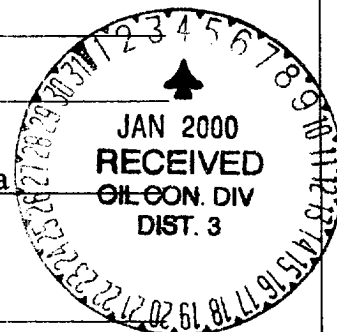
Address: 2198 Bloomfield Highway Farmington, NM 87401

Facility Or: Florance Federal #7
Well Name

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

Pit Type: Separator _____ Dehydrator _____ Other Abandoned Drip Pit

Land Type: BLM _____ State _____ Fee X Other _____



Pit Location: Pit dimensions: Length 25 ft width 25 ft depth 18 ft

(Attach diagram)

Reference: wellhead X other _____

Footage from reference: 110 ft

Direction from reference: 50 Degrees X East North X
of
West South _____

Depth to Ground Water: >100 feet
(vertical distance from
contaminants to seasonal
highwater elevation of
ground water)

_____	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\PrrC@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/9/98 Date Completed: 2/10/99
Excavation X Approx. cubic yards 357
Landfarmed X Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action : On 9/10/98, the pit was excavated to a depth of 18 feet. A soil sample was obtained from the center bottom of the pit at a depth of 18 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 18 feet

Sample date 9/10/98

Sample time 13:50

Sample Results

Benzene(ppm) 670

Total BTEX (PPM) 11.194

Field Headspace (ppm) 156

TPH <480

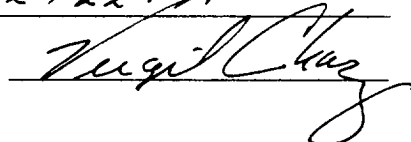
Ground Water Sample: Yes _____ No X (if yes, attach sample results)

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



and TITLE

Environmental Specialist

Location : <u>Florance Federal # 7</u> Quad : <u>E</u> Section : <u>4</u> Range : <u>3 W</u> Township: <u>25 N</u>		Overview of Location and Sampling :																																							
Pit : Abandoned Drip Pit Reference : 110' N 50 E from wellhead Initial Size : 20' x 20' x 4' deep Final Size : 25' x 25' x 18' deep Yds. Excavated : 357 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 @ 16'</td><td>32</td></tr> <tr><td>2</td><td>S. Wall @ 16'</td><td>11</td></tr> <tr><td>3</td><td>E. Wall @ 16'</td><td>17</td></tr> <tr><td>4</td><td>W. Wall @ 16'</td><td>62</td></tr> <tr><td>5</td><td>C. Bottom @ 18'</td><td>156</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 @ 16'	32	2	S. Wall @ 16'	11	3	E. Wall @ 16'	17	4	W. Wall @ 16'	62	5	C. Bottom @ 18'	156	6			7			8			9			10			11			12			Comments : Top soil - 10' Soil is moist, dark brown, sandy/loam with black staining and a strong hydrocarbon odor. 10' - 18' Soil is moist, light brown, loam with no staining and a slight hydrocarbon odor. A sample from the center bottom at 18' was sent to IML for GRO/DRO and BTEX analysis.
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Pit Profile : North to South :		Pit Profile : East to West :																																							

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:	Florance #7 Drip Pit	Report Date:	10/01/98
Sample ID:	Bottom @ 18'	Date Sampled:	09/10/98
Lab ID:	0398G05423	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	475	5.0 mg/kg
Total Purgeable Hydrocarbons	458	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.

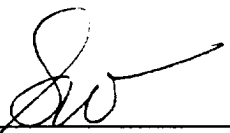
Project ID:	Florance #7 Drip Pit	Report Date:	10/01/98
Sample ID:	Bottom @ 18'	Date Sampled:	09/10/98
Lab ID:	0398G05423	Date Received:	09/15/98
Sample Matrix:	Soil	Date Analyzed:	09/30/98
Condition:	Cool/Intact		

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:

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

Project ID: Florance #7 Drip Pit
Sample ID: Bottom @18'
Lab ID: 0398G05423
Sample Matrix: Soil
Condition: Cool/Intact

Report Date: 10/01/98
Date Sampled: 09/10/98
Time Sampled: 1:50pm
Date Received: 09/15/98
Date Extracted: NA
Date Analyzed: 09/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	670	10.0
Toluene	739	50.0
Ethylbenzene	1,474	50.0
m,p-Xylenes	7,046	50.0
o-Xylene	1,265	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	84%	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



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 #7
Sample ID: Landfarm Comp 1
Lab ID: 0399W00902
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
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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
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o-Terphenyl(SUR-8015)	81	70 - 130
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GRO - METHOD 8015

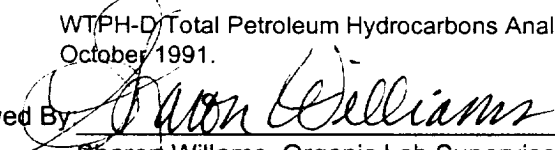
Gasoline Range Organics	<5	5	mg/Kg
Gasoline Range Organics as Gasoline	<5	5	mg/Kg

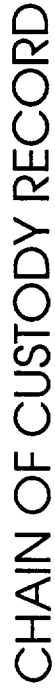
Quality Control - Surrogate Recovery	%	QC Limits
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a,a,a-Trifluorotoluene(SUR-8015)	87	70 - 130
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Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

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



CHAIN OF CUSTODY RECORD

[illegible]