

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

LF Comp (H)
where is it,
 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

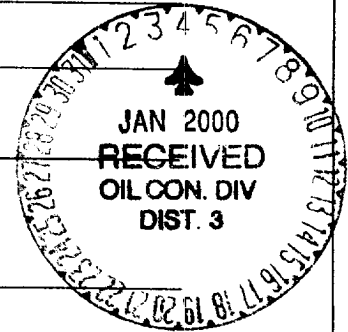
Address: 2198 Bloomfield Highway Farmington, NM 87401

Facility Or: Federal Lease #1
 Well Name

Location: Unit or Qtr/Qtr Sec A Sec 31 T 24N R 3W County Rio Arriba

Pit Type: Separator X Dehydrator _____ Other _____

Land Type: BLM _____ State X Fee _____ Other _____



Pit Location: Pit dimensions: Length 30 ft, width 30 ft, depth 8 ft
 (Attach diagram)

Reference: wellhead X other _____

Footage from reference: 150 ft

Direction from reference: 10 Degrees X East North X
 _____ 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\PrrC@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/17/98 Date Completed: 2/11/99
Excavation X Approx. cubic yards 222
Landfarmed X Insitu Bioremediation _____
Other _____

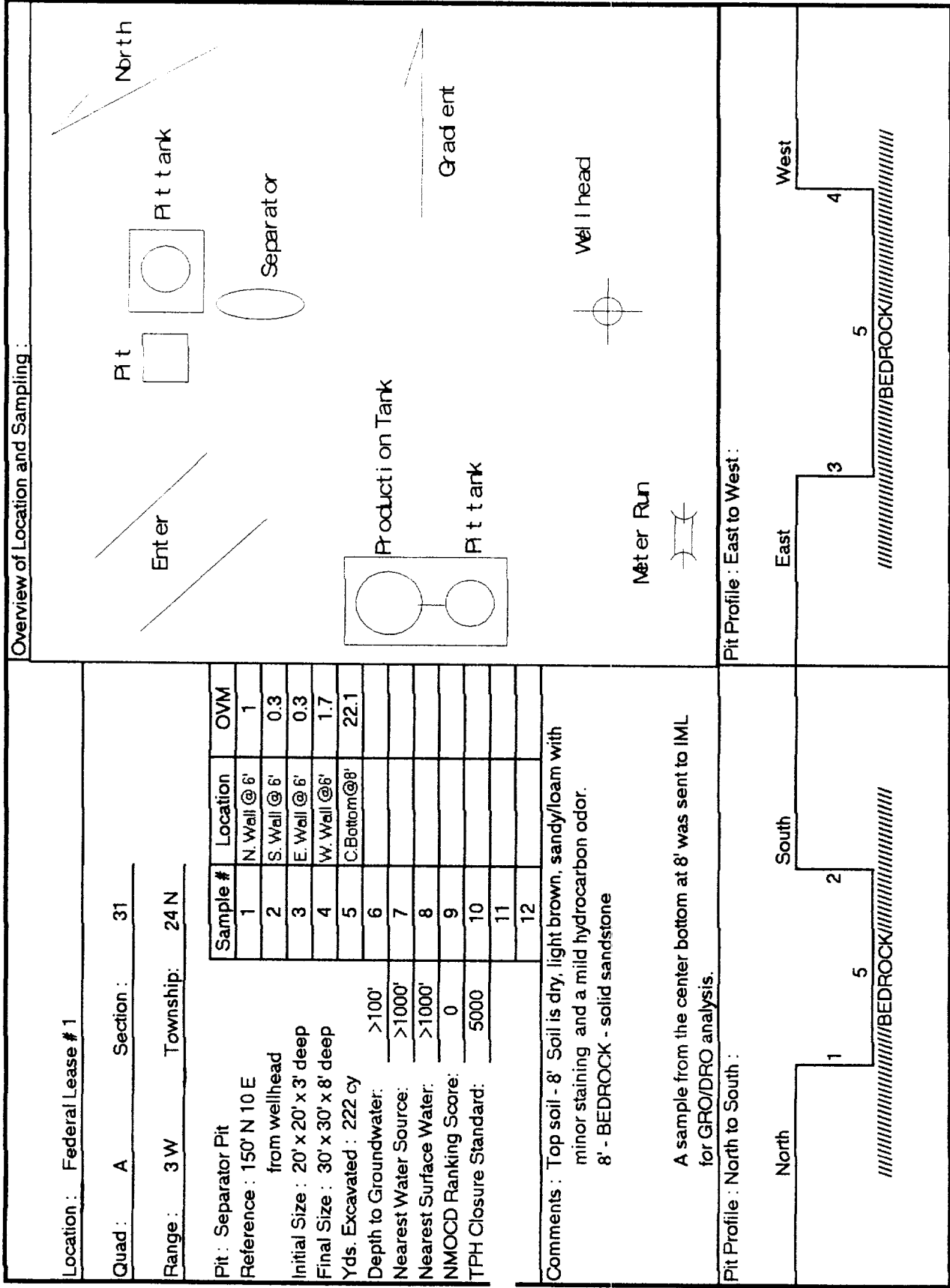
Remediation Method: Onsite X Offsite _____
(Check all appropriate sections)

General Description of Remedial Action : On 9/24/98, the pit was excavated to a depth of 8 feet where bedrock was encountered. A soil sample was obtained from the center bottom of the pit at a depth of 8 feet utilizing U.S.E.P.A. protocol and evaluated 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: Sample location Center Bottom
Closure Sampling: (if multiple samples, attach sample results)
and diagram of sample locations and depths) Sample depth 8 feet (Bedrock)
Sample date 9/24/98 Sample time 08:45
Sample Results
Benzene(ppm) _____
Total BTEX (PPM) _____
Field Headspace (ppm) 22.1
TPH 176.5
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



GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

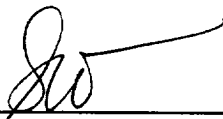
Project ID:	Federal #1 Sep. Pit	Report Date:	10/13/98
Sample ID:	C. Bottom @ 8'	Date Sampled:	09/24/98
Lab ID:	0398G05605	Date Received:	09/25/98
Sample Matrix:	Soil	Date Analyzed:	10/06/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	6.5	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:	Federal #1 Sep. Pit	Report Date:	10/13/98
Sample ID:	C. Bottom @ 8'	Date Sampled:	09/24/98
Lab ID:	0398G05605	Date Received:	09/25/98
Sample Matrix:	Soil	Date Analyzed:	10/08/98
Condition:	Cool/Intact		

TPH DIESEL RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	170	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:



Reported By:



Reviewed By:

Overview of Landfarm and Sampling :																																																												
<p>Location : Federal # 1</p> <p>Quad : A Section : 31</p> <p>Township: 24 N Range: 3 W</p> <p>Pit : Separator</p> <p>Reference 90' S 45 W from wellhead.</p> <p>Size: 80' x 20' x 1'</p> <p>Yds : 222</p> <p>2 5 - Point Composites</p>	<p style="text-align: center;">North</p> <p style="text-align: center;">Gradient</p> <p style="text-align: center;">Wellhead</p> <p style="text-align: center;">Meter Run</p>																																																											
<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>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></td><td></td></tr> <tr><td>4</td><td></td><td></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			4			5			6			7			8			9			10			11			12			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> </table>	1	1	1	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
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<p>Comments : Soil is moist, pale brown, sandy/loam, with no staining or detectable hydrocarbon odor.</p> <p>A sample from composite # 2 was sent to IML for GRO/DRO analysis.</p>																																																												
<p>Environmental Specialist : JE</p>																																																												



Client: Energen Resources
Project: Federal #1
Sample ID: Landfarm Comp 2
Lab ID: 0399W00908
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

Table with 4 columns: Parameter, Analytical Result, PQL, Units. Contains sections for DRO-METHOD 8015, Quality Control - Surrogate Recovery, GRO-METHOD 8015, and another Quality Control - Surrogate Recovery section.

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.
DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

Reviewed By: Sharon Willams, Organic Lab Supervisor

