

RANKING SCORE (TOTAL POINTS): **0**

Date Remediation Started: 9/15/98 Date Completed: 2/11/99
Excavation X Approx. cubic yards 150
Landfarmed X Insitu Bioremediation _____
Other _____

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

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

Sample date 9/18/98

Sample time 10:00

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 98

TPH 53.5

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

Location : <u>Florance Federal # 8A</u>		Overview of Location and Sampling :																																								
Quad : <u>E</u> Section : <u>5</u>																																										
Range : <u>3 W</u> Township: <u>25 N</u>																																										
Pit : Production Tank Reference : 110' N 70 W from wellhead Initial Size : 20' x 20' x 4' deep Final Size : 25' x 25' x 9' deep Yds. Excavated : 150 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 @ 7'</td><td>89</td></tr> <tr><td>2</td><td>S. Wall @ 7'</td><td>72</td></tr> <tr><td>3</td><td>E. Wall @ 7'</td><td>67</td></tr> <tr><td>4</td><td>W. Wall @ 7'</td><td>60</td></tr> <tr><td>5</td><td>C. Bottom @ 9'</td><td>98</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 @ 7'	89	2	S. Wall @ 7'	72	3	E. Wall @ 7'	67	4	W. Wall @ 7'	60	5	C. Bottom @ 9'	98	6			7			8			9			10			11			12		
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11																																										
12																																										
Comments : Top soil - 5' Soil is moist, light brown, clay/loam with dark staining and a moderate hydrocarbon odor. 5' - 9' Soil is moist, red/gray, shale with moderate staining and a detectable hydrocarbon odor. 9' Bedrock - Sandstone A sample from the center bottom at 9' was sent to IML for GRO/DRO analysis.																																										
Pit Profile : North to South :		Pit Profile : East to West :																																								
North		East																																								
1 5 2		3 4 5																																								
BEDROCK		BEDROCK																																								

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

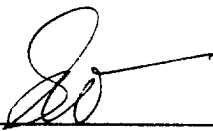
Project ID:	Florance Federal 8A Prod. TK Pit	Report Date:	10/13/98
Sample ID:	C. Bottom @ 9'	Date Sampled:	09/18/98
Lab ID:	0398G05588	Date Received:	09/24/98
Sample Matrix:	Soil	Date Analyzed:	10/06/98
Condition:	Cool/Intact		

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	8.5	5.0 mg/kg

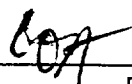
ND - Analyte not detected at the stated detection limit.

Reference:

Comments:



Reported By:



Reviewed By:

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

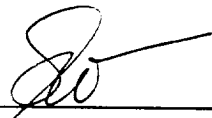
Project ID:	Florance Federal 8A Prod. TK Pit	Report Date:	10/13/98
Sample ID:	C. Bottom @ 9'	Date Sampled:	09/18/98
Lab ID:	0398G05588	Date Received:	09/24/98
Sample Matrix:	Soil	Date Analyzed:	10/08/98
Condition:	Cool/Intact		

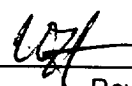
TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	45	5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:



CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		Production Tank #		ANALYSES / PARAMETERS	
Taurus Exploration 1st Inc		Florence Federal 8A		8A			
Sampler: (Signature)		Chain of Custody Tape No.		No. of Containers		Remarks	
Sample No./ Identification	Date	Time	Lab Number	Matrix			
F.F. 8A C. Blm @ 9'	9/18/68	10:00		Soil	1	X	
44.9							
and intact							
handled							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)	
[Signature]		9/21/68		07:15		[Signature]	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)	
[Signature]		9/24/68		08:13		[Signature]	
Relinquished by: (Signature)		Date		Time		Received by laboratory: (Signature)	
[Signature]						Chris [Signature]	

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☒ 1701 Phillips Circle
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☐ 1160 Research Drive
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Telephone (406) 586-8450

☐ 1183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776-8945

Inter-Mountain Laboratories, Inc.

54144

Location : Florance Federal # 8A			
Quad :	E	Section :	5
Township:	25 N	Range:	3 W
Pit :	Production Tank	Sample #	Location
Reference	90' S 70' W & 110' N 45' W from wellhead	1	Comp 1
Size:	60' x 60' x 1'	2	Comp 2
Yds :	80' x 20' x 1'	3	
	150	4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
2 5 - Point Composites			
Comments : Soil is moist, red/dark brown, clay/loam, with some staining on landfarm #2 and no hydrocarbon odor. A sample from composite # 2 was sent to IML for GRO/DRO analysis.			
Environmental Specialist : JE			

Overview of Landfarm and Sampling :

Landfarm #2

Landfarm #1

Entrance

Tank

Gradient

Well head

Meter Run

North

Production Tank Pit



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 8A
Sample ID: Landfarm Comp 2
Lab ID: 0399W00905
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
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DRO - METHOD 8015

Diesel Range Organics	204	5	mg/Kg
Diesel Range Organics as Diesel	204	5	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
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o-Terphenyl(SUR-8015)	75	70 - 130
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GRO - METHOD 8015

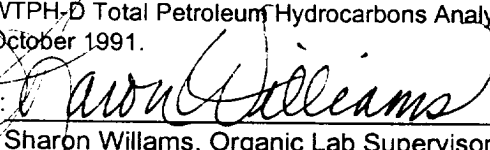
Gasoline Range Organics	11	5	mg/Kg
Gasoline Range Organics as Gasoline	<5	5	mg/Kg

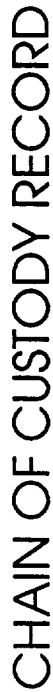
Quality Control - Surrogate Recovery	%	QC Limits
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a,a,a-Trifluorotoluene(SUR-8015)	88	70 - 130
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Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

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

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										
Landfill Comp 2	2-11-99	12:15		Soil	1	+ Geo 1200									
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)									

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