

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: Ruddock #7
Well Name

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

Pit Type: Separator _____ Dehydrator _____ Other Blow Pit

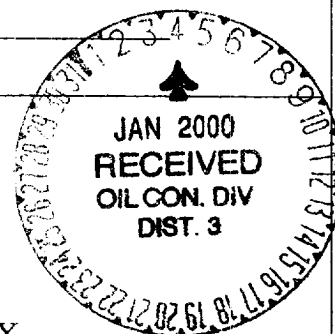
Land Type: BLM _____ State _____ Fee X Other _____

Pit Location: Pit dimensions: Length 20 ft, width 20 ft, depth 12 ft
(Attach diagram)

Reference: wellhead X other _____

Footage from reference: 60 ft

Direction from reference: 35 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\PrC@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/3/98 Date Completed: 2/10/99
Excavation X Approx. cubic yards 145
Landfarmed X Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action : On 9/4/98, the pit was excavated to a depth of 12 feet.
A soil sample was obtained from the center bottom of the pit at a depth of 12 feet utilizing
U.S.E.P.A. protocol and sent to IML for 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 12 feet

Sample date 9/4/98

Sample time 11:25

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 5.8

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

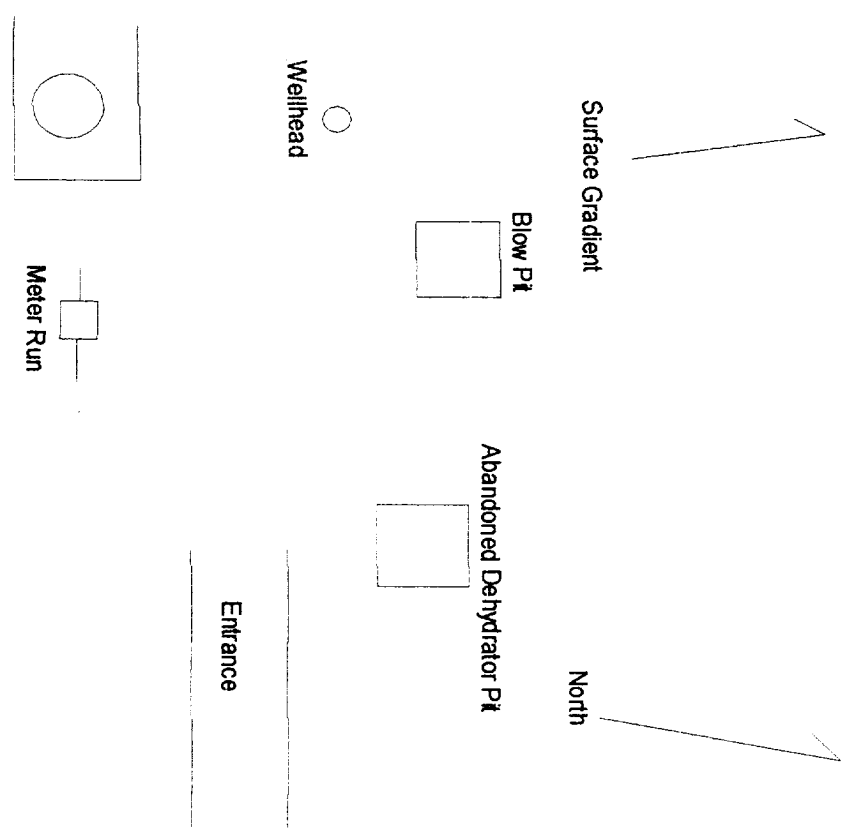
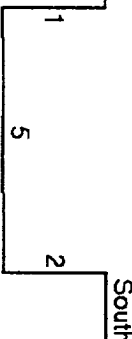
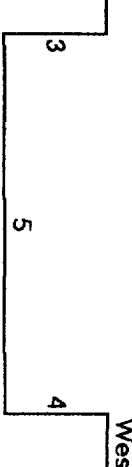
SIGNATURE

Virgil Chavez

and TITLE

Environmental Specialist

Client : Taurus ExplorationDate Started : September 3, 1998 Date Completed : September 4, 1998

Location : <u>Ruddock # 7</u>		Overview of Location and Sampling :	
Quad : <u>E</u>	Section : <u>3</u>		
Range : <u>3 W</u>	Township : <u>25 N</u>		
Pit : <u>Blow Pit</u> Reference : <u>60' N 35 E</u> from wellhead Initial Size : <u>15' x 15' x 4' deep</u> Final Size : <u>20' x 20' x 12' deep</u> Yds. Excavated : <u>145 cy</u>			
Depth to Groundwater : <u>>100'</u>	Sample #	Location	OVM
Nearest Water Source : <u>>1000'</u>	1	N Well @ 10'	4.1
Nearest Surface Water : <u>>1000'</u>	2	S Well @ 10'	1.8
NMOCD Ranking Score : <u>0</u>	3	E Well @ 10'	3.3
TPH Closure Standard : <u>5000</u>	4	W Well @ 10'	5.2
	5	C Bottom @ 12'	5.8
	6		
	7		
	8		
	9		
	10		
	11		
	12		
Comments : Top soil - 10' Soil is dry, dark brown, loam with minor staining and a moderate hydrocarbon odor. 10' - 12' Soil is dry, light brown, sandy/loam with no staining and no detectable hydrocarbon odor. A sample from the center bottom at 12' was sent to IML for GRO/DRO analysis.			
Pit Profile : North to South :		Pit Profile : East to West :	
			

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID:	Ruddock #7 Blow Pit	Report Date:	09/21/98
Sample ID:	C Bottom @ 12'	Date Sampled:	09/04/98
Lab ID:	0398GC5191	Date Received:	09/09/98
Sample Matrix:	Soil	Date Analyzed:	09/17/98
Condition:	Cool/Intact		

TPH DIESEL-RANGE (MOD EPA 8015)

RESULT

DETECTION LIMIT

Diesel-Range Petroleum Hydrocarbons


<5.0

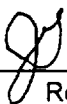
5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:


Reported By:


Reviewed By:

GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

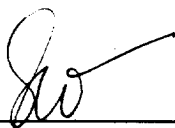
Project ID:	Ruddock #7 Blow Pit	Report Date:	09/21/98
Sample ID:	C Bottom @ 12'	Date Sampled:	09/04/98
Lab ID:	0398G05191	Date Received:	09/09/98
Sample Matrix:	Soil	Date Analyzed:	09/17/98
Condition:	Cool/Intact		

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

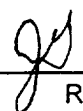
ND - Analyte not detected at the stated detection limit.

Reference:

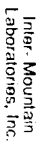
Comments:



Reported By:



Reviewed By:



CHAIN OF CUSTODY RECORD

[illegible]

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

**1701 Phillips Circle
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11183 State Hwy. 30
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Telephone (409) 776-8945

54129



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

Client: Energen Resources
Project: Ruddock #7
Sample ID: Landfarm Comp 2
Lab ID: 0399W00903
Matrix: Soil
Condition: Cool/Intact

Date Reported: 02/23/99
Date Sampled: 02/10/99
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			
o-Terphenyl(SUR-8015)	80	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			
a,a,a-Trifluorotoluene(SUR-602)	97	70 - 130	

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

Reviewed By:


Sharon Willams, Organic Lab Supervisor



CHAIN OF CUSTODY RECORD

Client/Project Name Environ			Project Location Kiddock #7			ANALYSES / PARAMETERS										
Sampler: (Signature) <i>[Signature]</i>			Chain of Custody Tape No.			Remarks										
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers											
1. Hudson Comp 2	2-10-99	13:15		Soil	1	2015 X GAO/DRD										
<div style="text-align: center;"> <p><i>[Large diagonal line across the table]</i></p> <p><i>del</i></p> <p><i>del</i></p> </div>																
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