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

SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

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

## PIT REMEDIATION AND CLOSURE REPORT

Operator: E	nergen Resources (Tauru	us Exploration)	Telephone:	(505) 326-6131	
Address: 21	98 Bloomfield Highway	Farmington, NI	M 87401	····	<u> </u>
Facility Or: 1 Well Name	Ruddock #7				_
Location: Unit or Qtr	/Qtr Sec <u>E</u> Sec	3 T 25N	R 3W County Rio	Arriba	<del></del>
Pit Type: Separator	Dehydrate	orOther	Abandoned Dehydrator I	Pit	
Land Type: BLM	, State	, Fee	X, Other		56
Pit Location: (Attach diagram)	Pit dimensions: Length	_25 ft, width	20 ft , depth <u>13</u>	JAN S	2000 EIVED ON DIV ST. 3
	Reference: wellhead	X other_		in a Ca	ON DIV
	Footage from reference:	<u>150 ft</u>			ST.3
	Direction from reference:		X East North of West South	X\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S. H. W. L.
Depth to Ground Wa	m	X	Less than 50 feet 50 ft to 99 feet	(20 points) (10 points)	0
contaminants to seaso highwater elevation of ground water)			Greater than 100 feet	(0 points)	
Wellhead Protection (less than 200 feet fro			Yes	(20 points)	
domestic water source 1000 feet from all oth	e, or: less than		X No	( 0 points)	0
Distance to Surface V (Horizontal distance		<del></del>	Less than 200 feet 200 feet to 1000 feet	(20 points) (10 points)	
lakes, ponds, rivers, sirrigation canals and	streams, creeks,	X	Greater than 1000 feet	( 0 points)	0
P:\pits\PrrC@.WK3			RANKING SCORE (TOTAL	. POINTS):	0

Date Remediation Started:	9/3/98	Date Completed:	2/10/99	
	Excavation X	Appr	ox. cubic yards	205
	Landfarmed X	Insitu	Bioremediation	
	Other			
Remediation Method:	Onsite X	Offsite	<del></del>	
(Check all appropriate		<del> </del>		
sections)				
General Description of Remedial	Action: On 9/4/98	the pit was excavate	d to a depth of	13 feet.
		nter bottom of the pit		
		GRO/DRO analysis.		
		he landfarm was teste	d and provided	l concentrations
below NMOCD guid	delines.	· · · · · · · · · · · · · · · · · · ·	·	<u>.</u>
	<u></u>			
	<del></del>			
Ground Water Encountered	: No <u>X</u>	Yes	Depth	
-				
Final Pit: Sai Closure Sampling: (if multiple samples, attach sample results	mple location <u>Cente</u>	r bottom		
and diagram of sample Sal	mple depth <u>13 feet</u>	······································		
locations and depths) Sar	mple date9/4/98		Sample tii	ne <u>11:25</u>
	nple Results		-	
	Benzene(ppm)			
	Total BTEX (PPM)			
	Field Headspace (pp	om) <u>7.4</u>		
	трн <10	<u></u>		
Ground Water Sample: Yes	No	X (if yes, attach	sample results)	
I HEREBY CERTIFY THAT T OF MY KNOWLEDGE AND I		VE IS TRUE AND COMPLET	TED TO THE BEST	
DATE 12/22/	199	PRINTED NAME Virgil	Chavez	-
SIGNATURE Zug	1Ch	and TITLE <u>Enviro</u>	nmental Speci	alist
	$\nearrow$			

### **DIESEL RANGE ORGANICS - DRO**

Taurus Exploration U.S.A., Inc.

Project ID:

Ruddock #7 Aban. dehy Pit

Sample ID: Lab ID:

C. Bottom @ 13' 0398G05192

Sample Matrix:

Soil

Report Date:

09/21/98 Date Sampled: 09/04/98

Date Received:

09/09/98 09/17/98

Date Analyzed:

Condition:

Cool/Intact

***************************************		
	0000000000000000000000000000000000000	

Diesel-Range Petroleum Hydrocarbons

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

### **GASOLINE RANGE ORGANICS - GRO**

Taurus Exploration U.S.A., Inc.

Project ID:

Ruddock #7 Aban. Dehy Pit

Report Date: Date Sampled: 09/21/98

Sample ID: Lab ID:

C Bottom @ 13' 0398G05192

Date Received:

09/04/98 09/09/98

Sample Matrix:

Soil

Date Analyzed:

09/17/98

Condition:

Cool/Intact

TPH GAS-RANGE (MOD EPA	8015) RES	SULT DE	TECTION LIMIT

Gasoline-Range Petroleum Hydrocarbons

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

eported By:

Reviewed By:



# CHAIN OF CUSTODY RECORD

0 4 0	Bozeman, Montana 59718 College Station, TX 77845 Telephone (406) 586-8450 Telephone (409) 776-8945	Z506 West Main Street Farmington, NM 87401  Telephone (505) 326-4737	ά	1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	1633 Ferra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945
1 - J					
,	s, Inc.	Inter-Mountain Laboratories, Inc.	Inter-Mounta		
9.748 1157	They ho you				
Date Time	Received by laboratory: (Signature)	Date Time			Relinquished by: (Signature)
		9/9/92 1157		\$30 	in a count true (s
Date Time	Received by: (Signature)			` ~	Relinquished by: (Signature)
73 (	Time layed hidecoon	54.6 45/8/5		1	
Date Time	Received by: (Signature)			\	Relinquished by: (Signature)
-					
	1/5				
anddel	J. C.O.				
Introct.	Cor.				
			•		
	1	9		57:11 88/4/8	R-7 C. Btm 0 13' 81
	No. of Contain	Matrix	Lab Number	Date Time	Sample No./
arks	ners 500 Remarks	Chain of Custody Tape No.	Chain of Cu		Sampler: (Signature)
S	Abom. Dehy ANALYSES / PARAMETERS	Project Location A	$\mathcal{P}_{\iota}$	Noution	Client/Project Name
					Laboratories, Inc.

Date Started: September 3, 1998 Date Completed: February 10, 1999 ...

		Overview of Landfarm and Sampling :
		$\Lambda$
Location: Ruddock #7		
Quad: E Section:	3	
Township: 25 N Range:	3 W	
Pit: Blow/Dehy Pits	١٥	Surface Gradient / North
	1 Comp 1 0.2	Blow Pit
Reference 50' N 85 W &		Abandoned Dehvdrator Pit
170' S 45 E	3	
from wellhead	4	
Size: 70' x 60' x 1'	5	)
80' x 65' x 1'	6	
	7	Wellhead
Yds: 350	8	
	9	
2 5 - Point Composites	10	THE PARTY CONTRACTOR OF THE PA
	11	
	12	
		Meter Run 2 2
		Production Tank 2 2
		Landfarm 2
Comments: Soil is moist, dark bro	own, sandy/clay/loam, with minor :	Soil is moist, dark brown, sandy/clay/loam, with minor staining and a mild hydrocarbon odor.
A sample from comp	A sample from composite # 2 was sent to IML for GRO/DRO analysis.	)/DRO analysis
Environmental Specialist : JE		



### 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

Cool/Intact

Sample ID:

Landfarm Comp 2

Lab ID: Matrix:

0399W00903

Condition:

Soil

Date Reported: 02/23/99

Date Sampled: 02/10/99

Date Received: 02/12/99

Date Analyzed: 02/17/99

	Analytical		
Parameter	Result	PQL	Units
DRO- METHOD 8015			
Diesel Range Organics	<5	5	mg/Kg
Diesel Range Organics as Diesel	<b>&lt;</b> 5	5	mg/Kg
Quality Control - Surrogate Recovery	%	QC Li	mits
o-Terphenyl(SUR-8015)	80	70 - 1	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 Li	mits
a,a,a-Trifluorotoluene(SUR-602)	97	70 -	130

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



# CHAIN OF CUSTODY RECORD

1633 Terra Avenue 1701 Pt Sheridan, Wyoming 82801 Gillette, Telephone (307) 672-8945 Telepho			Relinquished by: (Signature)	neinquisned by: (Signature)		Helinquished by: (Signature)							1. 11 11 M long 2 2-10.99	entification	Sample No./		Sampler: (Signature)	Emisery.	Cherry roject Name
1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	Inter-Mou							*					13.75	.   ดี			Chain		
2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Inter-Mountain Laboratories, Inc.		Date T	Date	44								   				Chain of Custody Tape No.	Kuddock #	Project Location
1160 Research Drive Bozeman, Montana 5	itories, Inc.		Time Received by	Time Received by	12:00	Received							\$:/	Matrix				# 7	
9718 8450			Received by laboratory: (Signature)	by: (Signature)		by: (Signature)							\ \ \	NC C	o. of ontain	ners		/ ANAI	_
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945											10+14	, , , , , , , , , , , , , , , , , , , ,				nei		ANALYSES / PARAMETERS	
59803	,	2011	Date Time	Date Time		Date Time					1					nemarks		รัง	