

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address ENERGEN RESOURCES CORPORATION 2198 Bloomfield Hwy Farmington NM 87401		² OGRID Number 162928
		³ Reason for Filing Code CH 10-1-98
⁴ API Number 30-0 30-039-22316	⁵ Pool Name W LINDRITH GALLUP DAKOTA	⁶ Pool Code 39189
⁷ Property Code 21929	⁸ Property Name W O HUGHES	⁹ Well Number 5

II. ¹⁰ Surface Location

UL or lot no. M	Section 08	Township 24N	Range 03W	Lot. Idn	Feet from the 990	North/South Line S	Feet from the 790	East/West line W	County RA
--------------------	---------------	-----------------	--------------	----------	----------------------	-----------------------	----------------------	---------------------	--------------

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code P	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBSD	²⁹ Perforations	³⁰ DHC, DC, MC
³¹ Hole Sie	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Original signed by Joe Niederhofer

Title:

General Manager

Date:

17-Sep-98

Phone:

505-325-6800

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title:

SUPERVISOR DISTRICT #3

Approval Date:

OCT 1 1998

⁴⁷ If this is a change of operator fill in the OGRID number and name of the previous operator

Taurus Exploration U.S.A., Inc. #162928

1-Oct-98

Previous Operator Signature

Printed Name

Title

Date

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

OK
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: W.O. Hughes # 5
Well Name

Location: Unit or Qtr/Qtr Sec M Sec 8 T 24N R 3W County Rio Arriba

Pit Type: Separator X Dehydrator _____ Other _____

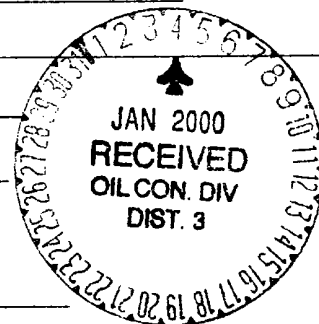
Land Type: BLM _____ State _____ Fee X Other _____

Pit Location: Pit dimensions: Length 20 ft width 20 ft depth 15 ft
(Attach diagram)

Reference: wellhead X other _____

Footage from reference: 125 ft

Direction from reference: 40 Degrees _____ East North _____
_____ X West South X



Depth to Ground Water: (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:\pita\PrC@.WK3

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 3/3/99

Date Completed: 10/22/99

Excavation X

Approx. cubic yards 206

Landfarmed X

Insitu Bioremediation _____

Other _____

Remediation Method:

Onsite X

Offsite _____

(Check all appropriate
sections)

General Description of Remedial Action : On 3/3/99, the pit was excavated to a depth of 15 feet.
A soil sample was obtained from the center bottom of the pit at a depth of 15 feet utilizing
U.S.E.P.A. protocol and sent to IML for GRO/DRO analysis. Excavated soils
were landfarmed on site. 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 15 feet

Sample date 3/3/99

Sample time 11:30

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 4.1

TPH <10

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

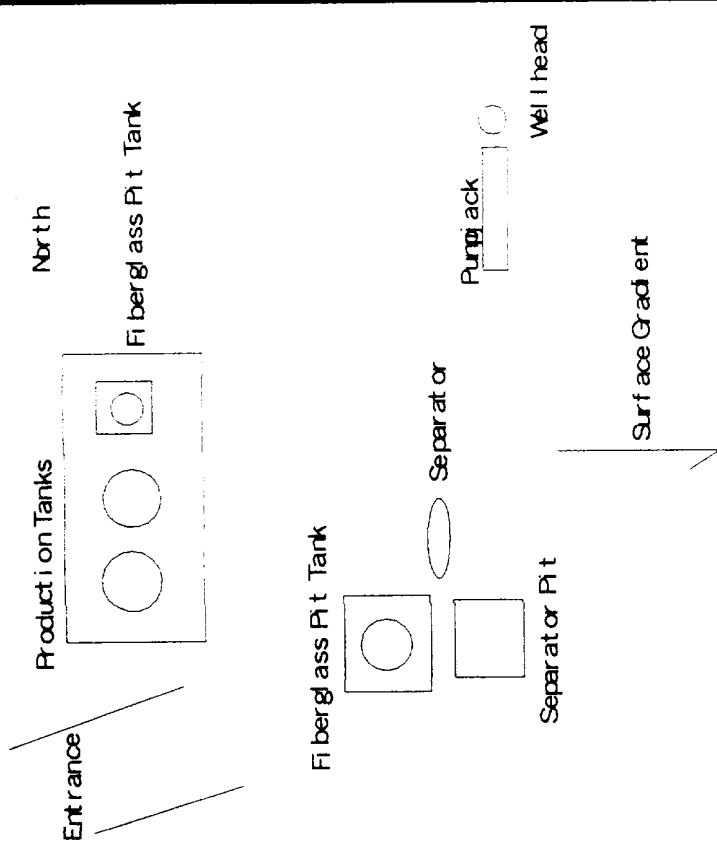
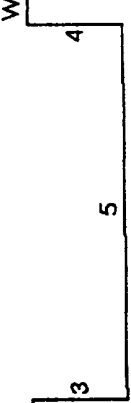
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETED TO THE BEST
OF MY KNOWLEDGE AND BELIEF.

DATE 12/22/99

PRINTED NAME Virgil Chavez

SIGNATURE Virgil Chavez

and TITLE Environmental Specialist

Location : <u>W.O. Hughes # 5</u>		Overview of Location and Sampling :	
Quad : <u>M</u>	Section : <u>8</u>		
Range : <u>3 W</u>	Township: <u>24 N</u>		
Pit : Separator			
Reference : <u>125' S 40 W</u> from wellhead			
Initial Size : <u>12' x 12' x 3' deep</u>			
Final Size : <u>20' x 20' x 15' deep</u>			
Yds. Excavated : <u>206 cy</u>			
Depth to Groundwater: <u>>100'</u>			
Nearest Water Source: <u>>1000'</u>			
Nearest Surface Water: <u>>1000'</u>			
NMOCD Ranking Score: <u>0</u>			
TPH Closure Standard: <u>5000</u>			
Comments : Top soil - 12' Soil is moist, medium brown, sandy/loam with black staining and a strong hydrocarbon odor. 12' - 15' Soil is moist, light brown, sandy/loam, with minor staining and a mild hydrocarbon odor. A sample from the center bottom at 15' was sent to IML for GRO/DRO analysis.			
Pit Profile : North to South :		Pit Profile : East to West :	
			



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

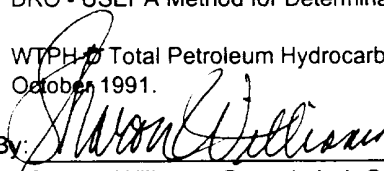
Client: Energen Resources
Project: WO Hughes #5
Sample ID: Center Bottom @ 15'
Lab ID: 0399W01236
Matrix: Soil
Condition: Cool/Intact

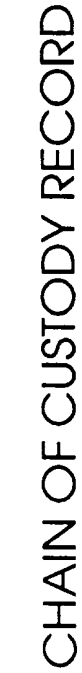
Date Reported: 03/17/99
Date Sampled: 03/03/99
Date Received: 03/04/99
Date Analyzed: 03/15/99

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		%	QC Limits
o-Terphenyl(SUR-8015)		86	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		%	QC Limits
a,a,a-Trifluorotoluene(SUR-8015)		75	70 - 130

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 2, February 1992.

WTPH-2 Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Reviewed By: 
Sharon Willams, Organic Lab Supervisor



000000

Client : Energen Resources Inc.

Date Started : March 3, 1999 Date Completed : October 22, 1999

Location : <u>W.O. Hughes # 5</u>			
Quad :	<u>M</u>	Section :	<u>8</u>
Township:	<u>24 N</u>	Range:	<u>3 W</u>
Pit : Separator Pit	Sample #	Location	OVM
Reference 100' N 50' W from wellhead.	1	Comp 1	3.5
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
Size: 50' x 50' x 1.5'			
Yds: 161			
1 5 - Point Composites			
Comments : Soil is dry, pale brown, clay/loam, with no staining or detectable hydrocarbon odor. A sample from composite # 1 was sent to IML for GRO/DRO analysis.			
Environmental Specialist : VEC			

Overview of Landfarm and Sampling :

The diagram illustrates the layout of the landfarm and sampling locations. It includes a North arrow pointing towards the top-left. Key features include: 'Production Tanks' (two circles), 'Fiber Glass Pit Tank' (a circle), 'Separator' (an oval), 'Pumpjack' (a rectangle), and 'Wellhead' (a circle). A 'Landfarm' area is shown with several numbered points (1-12). An 'Entrance' arrow points towards the bottom-left, and a 'Surface Gradient' arrow points towards the bottom-right.



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

Client: Energen Resources
Project: WO Hughes #5
Sample ID: Landfarm Comp #1
Lab ID: 0399W05384
Matrix: Soil
Condition: Cool/Intact

Date Reported: 11/04/99
Date Sampled: 10/22/99
Date Received: 10/25/99
Date Analyzed: 10/27/99

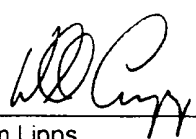
Parameter	Analytical Result	PQL	Units
GRO - Method 8015M			
Gasoline Range Organics	<5	5	mg/Kg
Gasoline Range Organics as Gasoline	<5	5	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015)	102	70 - 130
a,a,a-Trifluorotoluene(SUR-8015)	134 **	70 - 130

** - Surrogate Recovery failed QC Limits due to matrix interference.

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98.

Reviewed By:


William Lipps



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

Client: Energen Resources

Project: WO Hughes #5

Sample ID: Landfarm Comp #1

Lab ID: 0399W05384

Matrix: Soil

Condition: Cool/Intact

Date Reported: 11/19/99

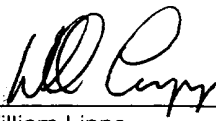
Date Sampled: 10/22/99

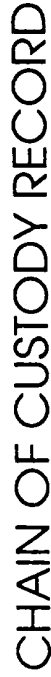
Date Received: 10/25/99

Date Analyzed: 11/03/99

Parameter	Analytical Result	PQL	Units
DRO - Method 8015M			
Diesel Range Organics (C10 - C22)	228	5	mg/Kg
Quality Control - Surrogate Recovery		%	QC Limits
o-Terphenyl(SUR-8015)	106	70 - 130	

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98.

Reviewed By: 
William Lipps



CHAIN OF CUSTODY RECORD

[illegible]

