District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

30-045-26416

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Energen Resources, Inc.	**Contact:** Ed Hasely
Address: 2010 Afton Place, Farmington, NM 87401	**Telephone No:** 505-324-4131
Facility Name: Roelofs A #7	**Facility Type:** Oil/Gas Well Site

Surface Owner: Federal	**Mineral Owner:** Federal	**Lease No.**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	10	29N	8W					San Juan

Latitude 36.73461 **Longitude** -107.66839

NATURE OF RELEASE

Type of Release: Produced Fluids	**Volume of Release:** Unknown	**Volume Recovered:** 0 bbls
Source of Release: Production Pit Tank	**Date and Hour of Occurrence:** Unknown	**Date and Hour of Discovery:** 12/7/12
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** NMOCD – Brandon Powell, BLM – Sherrie Landon	
By Whom? Ed Hasely	**Date and Hour:** 12/7/12, 2:46 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.** NA	

If a Watercourse was Impacted, Describe Fully.* NA

RCVD MAY 13 '13
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*

Soils underneath the tank during the below-grade tank closure were visually impacted. According to the Pit Rule, this is an indication of a release.

Describe Area Affected and Cleanup Action Taken.* Soils were excavated to a depth of 3 feet where solid rock was hit. Samples were collected after excavation and results were acceptable for closure (see attached email for details). The impacted soils were taken to an approved disposal facility. The excavation was backfilled with clean soils.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Ed Hasely	OIL CONSERVATION DIVISION
Printed Name: Ed Hasely	Approved by District Supervisor: Jonathan D. Kelly
Title: Sr. Environmental Engineer	Approval Date: 10/24/2013 Expiration Date:
E-mail Address: ed.hasely@energen.com	Conditions of Approval: Attached ☐
Date: 5/8/13 Phone: 505-324-4131 / 505-330-3584(cell)	

* Attach Additional Sheets If Necessary

nJK1329732432

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	BGT Bottom	Date Reported:	12-10-12
Laboratory Number:	63896	Date Sampled:	12-07-12
Chain of Custody No:	14741	Date Received:	12-07-12
Sample Matrix:	Soil	Date Extracted:	12-10-12
Preservative:	Cool	Date Analyzed:	12-10-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1,050**	**0.2**
Diesel Range (C10 - C28)	**17.9**	**0.1**
Total Petroleum Hydrocarbons	**1,070**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Roelof A #7**

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	BGT Sides	Date Reported:	12-10-12
Laboratory Number:	63897	Date Sampled:	12-07-12
Chain of Custody No:	14741	Date Received:	12-07-12
Sample Matrix:	Soil	Date Extracted:	12-10-12
Preservative:	Cool	Date Analyzed:	12-10-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**5.1**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**5.1**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Roelof A #7**

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	BGT Bottom	Date Reported:	12-10-12
Laboratory Number:	63896	Date Sampled:	12-07-12
Chain of Custody:	14741	Date Received:	12-07-12
Sample Matrix:	Soil	Date Analyzed:	12-10-12
Preservative:	Cool	Date Extracted:	12-10-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	500

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**1,180**	**100**
Toluene	**6,130**	**100**
Ethylbenzene	**833**	**100**
p,m-Xylene	**11,400**	**100**
o-Xylene	**2,850**	**100**
Total BTEX	**22,400**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94.0 %**
	1,4-difluorobenzene	**98.9 %**
	Bromochlorobenzene	**96.4 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Roelof A #7**

5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com
laboratory@envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	BGT Sides	Date Reported:	12-10-12
Laboratory Number:	63897	Date Sampled:	12-07-12
Chain of Custody:	14741	Date Received:	12-07-12
Sample Matrix:	Soil	Date Analyzed:	12-10-12
Preservative:	Cool	Date Extracted:	12-10-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10**
Toluene	**ND**	**10**
Ethylbenzene	**ND**	**10**
p,m-Xylene	**348**	**10**
o-Xylene	**111**	**10**
Total BTEX	**458**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**107 %**
	1,4-difluorobenzene	**105 %**
	Bromochlorobenzene	**90.1 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Roelof A #7**

envirotech
Analytical Laboratory

Chloride

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	BGT Bottom	Date Reported:	12-10-12
Lab ID#:	63896	Date Sampled:	12-07-12
Sample Matrix:	Soil	Date Received:	12-07-12
Preservative:	Cool	Date Analyzed:	12-10-12
Condition:	Intact	Chain of Custody:	14741

Parameter	Concentration (mg/Kg)
Total Chloride	**35.6**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Roelof A #7**

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Chloride

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	BGT Sides	Date Reported:	12-10-12
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Sample Matrix:	Soil	Date Received:	12-07-12
Preservative:	Cool	Date Analyzed:	12-10-12
Condition:	Intact	Chain of Custody:	14741

Parameter	Concentration (mg/Kg)
Total Chloride	**64.5**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Roelof A #7**

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envirotech-inc.com
laboratory@envirotech-inc.com

Ed Hasely

From: Ed Hasely
Sent: Friday, December 07, 2012 2:46 PM
To: Powell, Brandon, EMNRD; Landon, Sherrie C
Subject: FW: BGT Closure Notification

Brandon / Sherrie – This is to notify you that impacted soils were discovered under the BGT on the Roelof A #7. We are proceeding w/ excavation and closure per 19.15.29 and 19.15.30.

Ed Hasely
Energen Resources Corporation

From: Ed Hasely
Sent: Monday, December 03, 2012 10:23 AM
To: Kelly, Jonathan, EMNRD
Cc: Billy Stalcup
Subject: BGT Closure Notification

Jonathan – Energen plans to begin the closure process on the below listed BGT in the near future. Let me know if you have questions. Thanks.

Roeloff A #7 - Unit Letter N, Section 10, Township 29N, Range 8W

Ed Hasely
Energen Resources Corporation
Sr. Environmental Engineer
ed.hasely@energen.com
Office: (505) 324-4131
Cell: (505) 330-3584

Ed Hasely

From: Powell, Brandon, EMNRD [Brandon.Powell@state.nm.us]
Sent: Thursday, December 13, 2012 8:40 AM
To: Ed Hasely
Subject: RE: Request for Closure - Roelofs A #7 (2)

We agree you can proceed with the closure.

Thank You
Brandon Powell
I & E Supervisor
New Mexico Oil Conservation
Office: (505) 334-6178 ext. 116

"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

From: Ed Hasely [mailto:Ed.Hasely@energen.com]
Sent: Tuesday, December 11, 2012 3:50 PM
To: Powell, Brandon, EMNRD; Kelly, Jonathan, EMNRD
Subject: FW: Request for Closure - Roelofs A #7

Have you had the chance to look at this request? The BLM has agreed, but I want to be sure you are in agreement also. Please let me know. Thanks.

Ed Hasely
Energen Resources Corporation

From: Landon, Sherrie [mailto:slandon@blm.gov]
Sent: Tuesday, December 11, 2012 6:27 AM
To: Ed Hasely
Subject: Re: Request for Closure - Roelofs A #7

You have the BLM's approval to back fill and close the pit. thanks sherrie

On Mon, Dec 10, 2012 at 2:03 PM, Ed Hasely <Ed.Hasely@energen.com> wrote:

Brandon / Sherrie – We excavated the impacted soils that were beneath the below grade tank on this location. We hit rock at about 3 feet down. Samples were collected from the bottom and the sides of the excavation and the results are as follows:

	BGT bottom	**BGT Sides**
Chloride:	35.6 ppm	64.5 ppm

8015:

GRO:	1,050 ppm	5.1 ppm
DRO:	17.9 ppm	ND
TPH:	1,070 ppm	5.1 ppm

8021:

Benzene:	1,180 ppb	ND
Toluene:	6,130 ppb	ND
Ethylbenzene:	833 ppb	ND
P,-m-Xylene:	11,400 ppb	348 ppb
o-Xylene:	2,850 ppb	111 ppb
Total BTEX:	22,400 ppb	458 ppb

As you can see, all Chloride and BTEX results are acceptable. The TPH of the side walls showed 5.1 ppm and TPH of the bottom showed 1070 ppm. There are no surface water or water wells within 1000 feet. Groundwater is estimated to be greater than 100 feet based upon the nearest intermittent stream marked on the topo map being over 1600 feet away and approximately 130 feet lower than the well pad. Due to hitting rock, groundwater over 100 feet deep, and no nearby surface water or water wells, I request approval to close the subject excavation.

Please let me know if you agree that we should proceed w/ backfilling the excavation w/ clean soils. Let me know if you need additional information. Thanks.

Ed Hasely

Energen Resources Corporation

From: Ed Hasely
Sent: Friday, December 07, 2012 2:46 PM
To: Powell, Brandon, EMNRD; Landon, Sherrie C
Subject: FW: BGT Closure Notification

Brandon / Sherrie – This is to notify you that impacted soils were discovered under the BGT on the Roelof A #7. We are proceeding w/ excavation and closure per 19.15.29 and 19.15.30.

Ed Hasely

Energen Resources Corporation

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Sent: Monday, December 03, 2012 10:23 AM
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Cc: Billy Stalcup
Subject: BGT Closure Notification

Jonathan – Energen plans to begin the closure process on the below listed BGT in the near future. Let me know if you have questions. Thanks.

Roeloff A #7 - Unit Letter N, Section 10, Township 29N, Range 8W

Ed Hasely

Energen Resources Corporation

Sr. Environmental Engineer

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