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

30-039-23578

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: Northwest #4E	**Facility Type:** Oil/Gas Well Site

Surface Owner: Jicarilla Apache Tribe	**Mineral Owner:** Jicarilla Apache Tribe	**Lease No.** Jicarilla Apache 119

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	8	26N	4W	1520	South	790	East	Rio Arriba

Latitude 36.498450 **Longitude** -107.267900

NATURE OF RELEASE

Type of Release: Oil Spill	**Volume of Release:** 121 bbls	**Volume Recovered:** 80 bbls
Source of Release: Oil Storage Tank	**Date and Hour of Occurrence:** 2/15/08	**Date and Hour of Discovery:** 8:00 am 2/15/2008
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Jicarilla EPO – Dixon Sandoval, NMOCD – Brandon Powell, BLM – Mark Kelly, Bryce Hammond – Jicarilla Oil and Gas	
By Whom? Ed Hasely	**Date and Hour:** 2/15/2008, 1:30 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.** NA	

If a Watercourse was Impacted, Describe Fully.* NA

RCVD MAY 21 '08
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*

The drain valve froze on the oil storage tank allowing the oil to leak out into the open top pit tank. The pit tank overflowed into the area around the pit tank. A vacuum truck was used to recover the free standing liquids. All fluids were contained inside the bermed area. The drain valve was replaced.

Describe Area Affected and Cleanup Action Taken.* Impacted soils were excavated (approx. 30' x 50' x 17' deep) and transported (total of 936 cubic yards) to a commercial disposal facility. Once the impacted soil was removed, samples were collected from the excavation and sent to a laboratory for analysis. The analyses showed that the samples of the remaining soils in the excavation were below 100 ppm TPH. The excavation was backfilled with clean soil approved by the Jicarilla. The lab analyses are included with this submittal.

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: 2/27/2012 Expiration Date:
E-mail Address: ed.hasely@energen.com	Conditions of Approval: Attached ☐
Date: 5/19/08 Phone: 505-324-4131 / 505-330-3584(cell)	

* Attach Additional Sheets If Necessary

nJK1205833742

ENERGEN
RESOURCES

May 19, 2008

RCVD MAY 21 '08
OIL CONS. DIV.
DIST. 3

New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410
Attn: Brandon Powell

Re: **Northwest #4E**
FINAL Release Report Submittal

Dear Mr. Powell:

Enclosed is the final Release Notification and Corrective Action (C-141) Form for the release on the Northwest #4E well location. The initial C-141 for this release was submitted on February 15, 2008. I was waiting on final tickets from the commercial disposal facility before submitting the final report.

If there are any questions or concerns with this submittal, please contact me at 505-324-4131.

Sincerely,

Ed Hasely
Sr. Environmental Engineer
Energen Resources

Attachment: Final C-141
Lab Reports

Cc: Bert Thomas
Anna Stotts
BLM
Jicarilla EPO
Jicarilla Oil and Gas
HSE File
Facility File
Correspondence

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-001
Sample ID:	Front Side	Date Reported:	03-07-08
Laboratory Number:	44390	Date Sampled:	02-29-08
Chain of Custody No:	3934	Date Received:	03-03-08
Sample Matrix:	Soil	Date Extracted:	03-06-08
Preservative:	Cool	Date Analyzed:	03-07-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**20.5**	**0.1**
Total Petroleum Hydrocarbons	**20.5**	**0.2**

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: **Northwest 4-E**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-001
Sample ID:	Back	Date Reported:	03-19-08
Laboratory Number:	44539	Date Sampled:	03-13-08
Chain of Custody No:	4037	Date Received:	03-13-08
Sample Matrix:	Soil	Date Extracted:	03-17-08
Preservative:	Cool	Date Analyzed:	03-18-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

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

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: **NW 4E.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-001
Sample ID:	Left Side	Date Reported:	03-19-08
Laboratory Number:	44538	Date Sampled:	03-13-08
Chain of Custody No:	4037	Date Received:	03-13-08
Sample Matrix:	Soil	Date Extracted:	03-17-08
Preservative:	Cool	Date Analyzed:	03-18-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

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

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: **NW 4E.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-001
Sample ID:	Right Side	Date Reported:	03-07-08
Laboratory Number:	44392	Date Sampled:	02-29-08
Chain of Custody No:	3934	Date Received:	03-03-08
Sample Matrix:	Soil	Date Extracted:	03-06-08
Preservative:	Cool	Date Analyzed:	03-07-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**2.0**	**0.1**
Total Petroleum Hydrocarbons	**2.0**	**0.2**

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.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Energen	Project #:	03022-001
Sample ID:	Bottom 25'	Date Reported:	04-09-08
Laboratory Number:	44815	Date Sampled:	04-04-08
Chain of Custody No:	4126	Date Received:	04-07-08
Sample Matrix:	Soil	Date Extracted:	04-08-08
Preservative:	Cool	Date Analyzed:	04-08-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

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

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: **Northwest 4-E.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-001
Sample ID:	Front Side	Date Reported:	03-07-08
Laboratory Number:	44390	Date Sampled:	02-29-08
Chain of Custody:	3934	Date Received:	03-03-08
Sample Matrix:	Soil	Date Analyzed:	03-07-08
Preservative:	Cool	Date Extracted:	03-06-08
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**13.6**	**1.0**
Ethylbenzene	**1.9**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**15.5**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

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: **Northwest 4-E**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-001
Sample ID:	Back	Date Reported:	03-19-08
Laboratory Number:	44539	Date Sampled:	03-13-08
Chain of Custody:	4037	Date Received:	03-13-08
Sample Matrix:	Soil	Date Analyzed:	03-18-08
Preservative:	Cool	Date Extracted:	03-17-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**11.9**	**1.0**
Ethylbenzene	**1.2**	**1.0**
p,m-Xylene	**51.9**	**1.2**
o-Xylene	**18.2**	**0.9**
Total BTEX	**83.2**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

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: **NW 4E.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-001
Sample ID:	Left Side	Date Reported:	03-19-08
Laboratory Number:	44538	Date Sampled:	03-13-08
Chain of Custody:	4037	Date Received:	03-13-08
Sample Matrix:	Soil	Date Analyzed:	03-18-08
Preservative:	Cool	Date Extracted:	03-17-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**10.2**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**11.7**	**1.2**
o-Xylene	**4.2**	**0.9**
Total BTEX	**26.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

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: **NW 4E.**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-001
Sample ID:	Right Side	Date Reported:	03-07-08
Laboratory Number:	44392	Date Sampled:	02-29-08
Chain of Custody:	3934	Date Received:	03-03-08
Sample Matrix:	Soil	Date Analyzed:	03-07-08
Preservative:	Cool	Date Extracted:	03-06-08
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**30.1**	**1.0**
Ethylbenzene	**8.2**	**1.0**
p,m-Xylene	**92.9**	**1.2**
o-Xylene	**12.7**	**0.9**
Total BTEX	**144**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

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: **Northwest 4-E**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-001
Sample ID:	Bottom 25'	Date Reported:	04-09-08
Laboratory Number:	44815	Date Sampled:	04-04-08
Chain of Custody:	4126	Date Received:	04-07-08
Sample Matrix:	Soil	Date Analyzed:	04-08-08
Preservative:	Cool	Date Extracted:	04-08-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**1.3**	**0.9**
Toluene	**5.9**	**1.0**
Ethylbenzene	**2.7**	**1.0**
p,m-Xylene	**7.1**	**1.2**
o-Xylene	**2.5**	**0.9**
Total BTEX	**19.5**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

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: **Northwest 4-E.**

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