

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
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LOCATION OF RELEASE

Unit Letter I	Section 8	Township 26N	Range 4W	Feet from the 1520	North/South Line South	Feet from the 790	East/West Line East	County Rio Arriba
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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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA


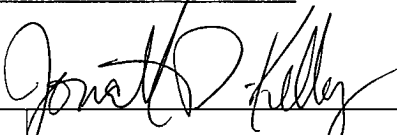
RCVD MAY 21 '08
OIL CONS. DIV.
DIST. 3

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: 	OIL CONSERVATION DIVISION	
Printed Name: Ed Hasely	Approved by District Supervisor: 	
Title: Sr. Environmental Engineer	Approval Date: 2/27/2012	Expiration Date:
E-mail Address: ed.hasely@energen.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/19/08 Phone: 505-324-4131 / 505-330-3584(cell)		

* Attach Additional Sheets If Necessary

nJK 1205833742

May 19, 2008

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

RCVD MAY 21 '08

OIL CONS. DIV.
DIST. 3

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

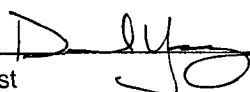
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	20.5	0.1
Total Petroleum Hydrocarbons	20.5	0.2

ND - Parameter not detected at the stated detection limit.

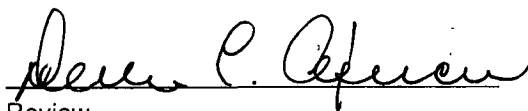
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Northwest 4-E**

Analyst



Review



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

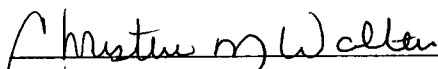
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.**


Analyst


Review

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:	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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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

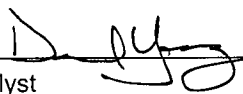
Client:	Energen	Project #:	03022-001
Sample ID:	Right Side	Date Reported:	03-07-08
Laboratory Number:	44392	Date Sampled:	02-29-08
Chain of Custody No:	3934	Date Received:	03-03-08
Sample Matrix:	Soil	Date Extracted:	03-06-08
Preservative:	Cool	Date Analyzed:	03-07-08
Condition:	Cool & Intact	Analysis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

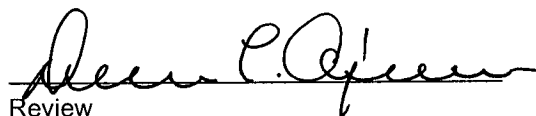
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.0	0.1
Total Petroleum Hydrocarbons	2.0	0.2

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

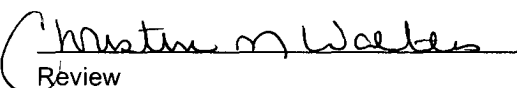
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.**


Analyst


Review

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.

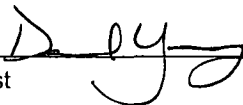
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

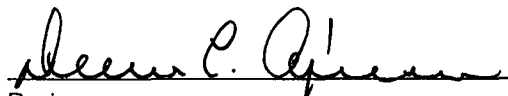
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Northwest 4-E

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Review



ENVIROTECH LABS

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	

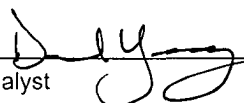
ND - Parameter not detected at the stated detection limit.

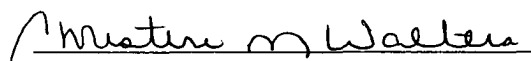
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

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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.

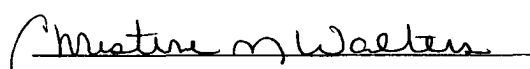
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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.

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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	

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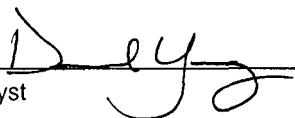
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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.

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