

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

#### OPERATOR

☐ Initial Report ☒ Final Report

<b>Name of Company:</b> Energen Resources, Inc.	<b>Contact:</b> Ed Hasely	
<b>Address:</b> 2010 Afton Place, Farmington, NM 87401	<b>Telephone No:</b> 505-324-4131	
<b>Facility Name:</b> Quigley A #1 (API# 3004508812)	<b>Facility Type:</b> Oil/Gas Well Site	
<b>Surface Owner:</b> Federal	<b>Mineral Owner:</b> Federal	<b>Lease No.</b> NM04241

#### LOCATION OF RELEASE

<b>Unit Letter</b> C	<b>Section</b> 1	<b>Township</b> 29N	<b>Range</b> 10W	<b>Feet from the</b> 1180	<b>North/South Line</b> North	<b>Feet from the</b> 1750	<b>East/West Line</b> West	<b>County</b> San Juan
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Latitude 36.75818

Longitude -107.83857

#### NATURE OF RELEASE

<b>Type of Release:</b> Produced Fluids	<b>Volume of Release:</b> Unknown	<b>Volume Recovered:</b> 0 bbls
<b>Source of Release:</b> Production Pit Tank	<b>Date and Hour of Occurrence:</b> Unknown	<b>Date and Hour of Discovery:</b> 12/2/09
<b>Was Immediate Notice Given?</b> X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> Brandon Powell - OCD	
<b>By Whom?</b> Ed Hasely	<b>Date and Hour:</b> 12/2/09; 2:36 pm	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse.</b> NA	

RCVD JAN 29 '10

OIL CONS. DIV.

DIST. 3

If a Watercourse was Impacted, Describe Fully.\* NA

#### Describe Cause of Problem and Remedial Action Taken.\*

Sampling underneath the tank during the below-grade tank closure showed TPH (Method 418.1) results of 241 ppm. According to the Pit Rule, any result over 100 ppm is an indication of a release.

**Describe Area Affected and Cleanup Action Taken.\*** GRO/DRO (Method 8015) was non-detect, which is below remediation levels per the "Guidelines for Remediation of Leaks, Spills and Releases". No remediation required.

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.

#### OIL CONSERVATION DIVISION

Signature:

*Ed Hasely*

Printed Name: Ed Hasely

Approved by District Supervisor:

*Bob Powell* For: CP

Title: Sr. Environmental Engineer

Approval Date: 4/9/10

Expiration Date:

E-mail Address: ed.hasely@energen.com

Conditions of Approval:

Attached ☐

Date: 1/27/10 Phone: 505-324-4131 / 505-330-3584(cell)

\* Attach Additional Sheets If Necessary

1 RmD 1010632543



EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

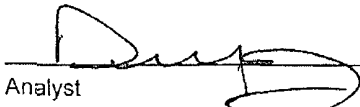
Client:	Energen	Project #:	03022-0001
Sample ID:	BGT	Date Reported:	12-01-09
Laboratory Number:	52558	Date Sampled:	11-30-09
Chain of Custody No:	8485	Date Received:	11-30-09
Sample Matrix:	Soil	Date Extracted:	11-30-09
Preservative:	Cool	Date Analyzed:	12-01-09
Condition:	Intact	Analysis Requested:	8015 TPH

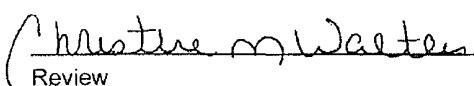
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Quigley A #1

  
Analyst

  
Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	BGT	Date Reported:	12-01-09
Laboratory Number:	52558	Date Sampled:	11-30-09
Chain of Custody:	8485	Date Received:	11-30-09
Sample Matrix:	Soil	Date Analyzed:	12-01-09
Preservative:	Cool	Date Extracted:	11-30-09
Condition:	Intact	Analysis Requested:	BTEX

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

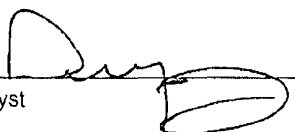
ND - Parameter not detected at the stated detection limit.

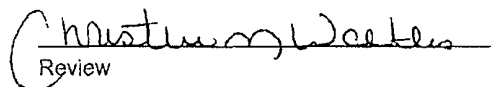
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Quigley A #1

  
Analyst

  
Review



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	Energen	Project #:	03022-0001
Sample ID:	BGT	Date Reported:	12-02-09
Laboratory Number:	52558	Date Sampled:	11-30-09
Chain of Custody No:	8485	Date Received:	11-30-09
Sample Matrix:	Soil	Date Extracted:	11-30-09
Preservative:	Cool	Date Analyzed:	11-30-09
Condition:	Intact	Analysis Needed:	TPH-418.1

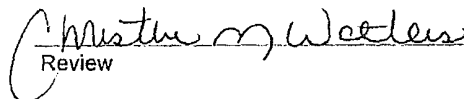
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	241	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Quigley A #1.

Analyst 

Review 



## Chloride

Client:	Energen	Project #:	03022-0001
Sample ID:	BGT	Date Reported:	12-02-09
Lab ID#:	52558	Date Sampled:	11-30-09
Sample Matrix:	Soil	Date Received:	11-30-09
Preservative:	Cool	Date Analyzed:	12-01-09
Condition:	Intact	Chain of Custody:	8485

### Parameter

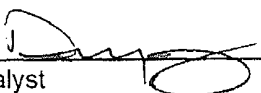
### Concentration (mg/Kg)

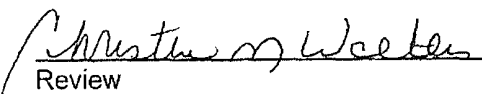
Total Chloride

10

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: Quigley A #1.

  
Analyst

  
Review

**Ed Hasely**

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**From:** Ed Hasely  
**Sent:** Wednesday, December 02, 2009 2:36 PM  
**To:** 'Powell, Brandon, EMNRD'  
**Subject:** FW: Quigley A #1 BGT Closure - Notification of a potential past release

Brandon - A composite soil sample collected beneath the below-grade tank at the subject well location exceeded the TPH concentration (Method 418.1) of 100 mg/kg. As we have discussed in the past, Energen does not believe a Method 418.1 TPH result over 100 is necessarily indicative of a release. Method 418.1 is not specific to hydrocarbons; in fact, it can give false positive results when organic matter is extracted from the soil for analysis. In other words, TPH measurements using Method 418.1 do not always indicate petroleum contamination. With that said, Energen will comply with 19.15.29.8-11 NMAC and proceed with the proper closure of the below-grade tank.

The well location is in Unit Letter C, Section 1 - T29N - R10W.

**Ed Hasely**  
**Energen Resources Corporation**

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**From:** Ed Hasely  
**Sent:** Tuesday, November 24, 2009 7:49 AM  
**To:** 'Powell, Brandon, EMNRD'  
**Cc:** Nathan Smith  
**Subject:** FW: Quigley A #1 BGT Closure Notification

Brandon - This work had been postponed, but is now scheduled for next week. Let me know if you have questions.

**Ed Hasely**  
**Energen Resources Corporation**

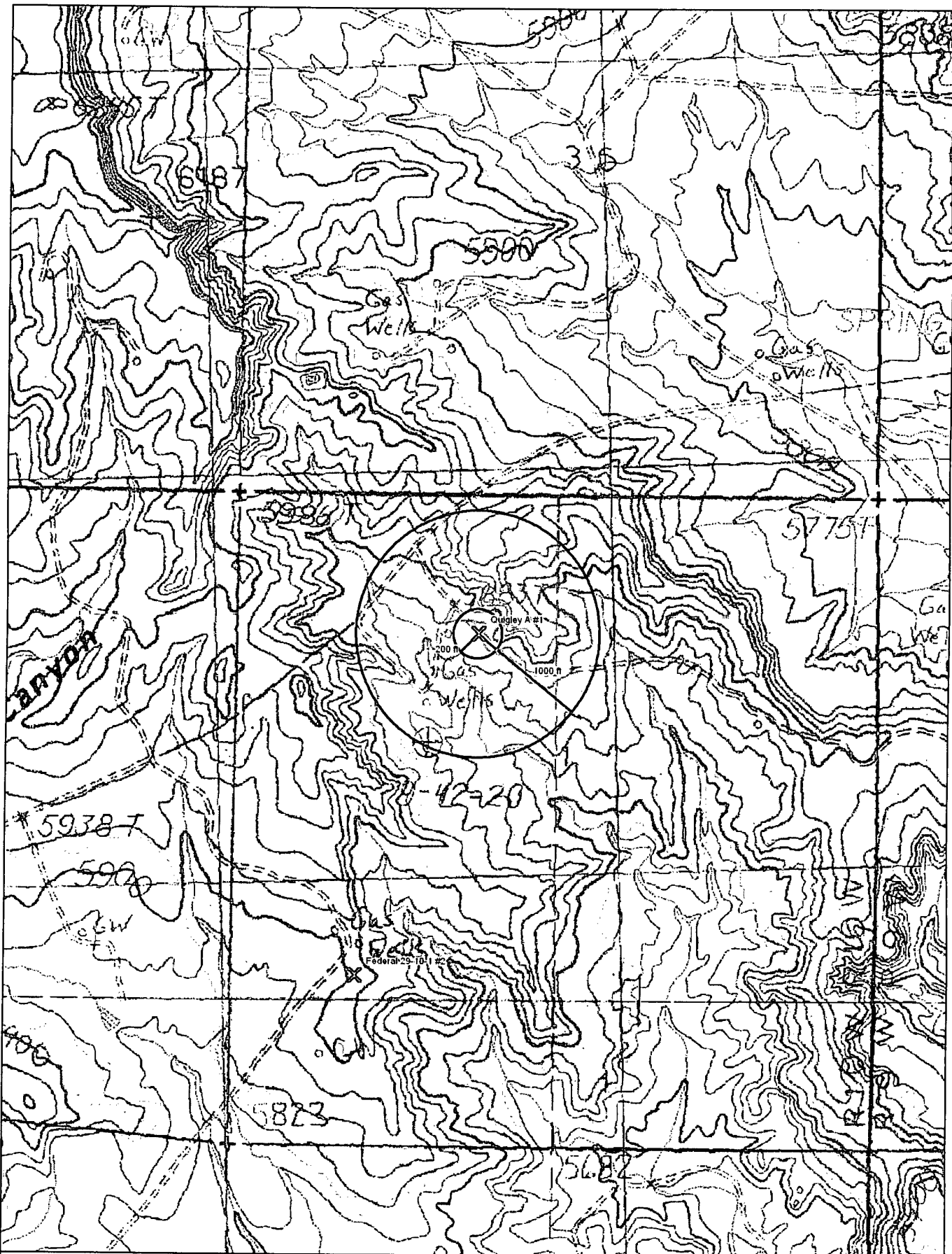
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**From:** Ed Hasely  
**Sent:** Thursday, October 15, 2009 9:33 AM  
**To:** 'Powell, Brandon, EMNRD'  
**Cc:** Nathan Smith  
**Subject:** Quigley A #1 BGT Closure Notification

Brandon - this is to notify you that Energen plans to close the below grade tank on the subject location in the near future. The well is located in Unit Letter C, Section 1 - T29N - R10W in San Juan County.

**Ed Hasely**  
**Energen Resources Corporation**  
Sr. Environmental Engineer  
[ed.hasely@energen.com](mailto:ed.hasely@energen.com)  
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Cell: (505) 330-3584

1/27/2010



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Scale 1 : 12,800  
1" = 1070 ft

