

District I  
1625 N French Dr , Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM88210  
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

Name of Company: Energen Resources, Inc.	Contact: Ed Hasely
Address: 2010 Afton Place, Farmington, NM 87401	Telephone No: 505-324-4131
Facility Name: Jicarilla 120C #13 (API 30039062200)	Facility Type: Oil/Gas Well Site

Surface Owner: Jicarilla	Mineral Owner: Jicarilla	Lease No.: Jicarilla 120
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### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	32	26N	4W	1690	South	790	East	Rio Arriba

Latitude 36.44042

Longitude -107.26822

### NATURE OF RELEASE

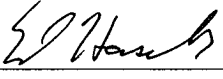
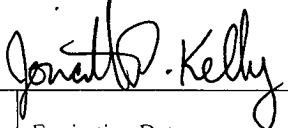
Type of Release: Produced Fluids	Volume of Release: Unknown	Volume Recovered: 0 bbls
Source of Release: Production Pit Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 8/17/10
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell - NMOCD	
By Whom? Ed Hasely	Date and Hour: 8/17/10, 9 am	
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
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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 possible past release.
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Describe Area Affected and Cleanup Action Taken.* Approximately 40 cubic yards of impacted soils were excavated and disposed at a commercial disposal facility. Samples were collected from the sides and bottom of the excavation and the analyses are attached. Area is needed for operations Upon abandonment, seeding will be deferred to the BLM / Tribal requirements per the BLM / OCD MOU.
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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: 11/21/2011	Expiration Date:
E-mail Address: ed.hasely@energen.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/29/10 Phone: 505-324-4131 / 505-330-3584(cell)		

\* Attach Additional Sheets If Necessary

nJK1132542425



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Bottom	Date Reported:	08-20-10
Laboratory Number:	55599	Date Sampled:	08-18-10
Chain of Custody No:	10214	Date Received:	08-18-10
Sample Matrix:	Soil	Date Extracted:	08-19-10
Preservative:	Cool	Date Analyzed:	08-19-10
Condition:	Intact	Analysis Needed:	TPH-418.1

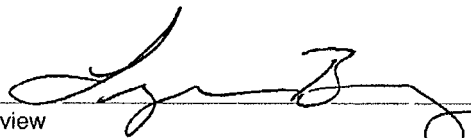
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	23.8

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: Jicarilla BGTs

  
Analyst

  
Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Bottom	Date Reported:	08-20-10
Laboratory Number:	55599	Date Sampled:	08-18-10
Chain of Custody:	10214	Date Received:	08-18-10
Sample Matrix:	Soil	Date Analyzed:	08-19-10
Preservative:	Cool	Date Extracted:	08-19-10
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	

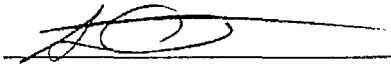
ND - Parameter not detected at the stated detection limit.


Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.5 %
	1,4-difluorobenzene	102 %
	Bromochlorobenzene	97.7 %

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: Jicarilla BGTs

  
Analyst

  
Review



**EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons**

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Bottom	Date Reported:	08-20-10
Laboratory Number:	55599	Date Sampled:	08-18-10
Chain of Custody No:	10214	Date Received:	08-18-10
Sample Matrix:	Soil	Date Extracted:	08-19-10
Preservative:	Cool	Date Analyzed:	08-19-10
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: **Jicarilla BGTs**

  
Analyst

  
Review



**envirotech**  
Analytical Laboratory

**Chloride**

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Bottom	Date Reported:	08-20-10
Lab ID#:	55599	Date Sampled:	08-18-10
Sample Matrix:	Soil	Date Received:	08-18-10
Preservative:	Cool	Date Analyzed:	08-20-10
Condition:	Intact	Chain of Custody:	10214

**Parameter**

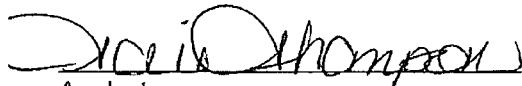
**Concentration (mg/Kg)**

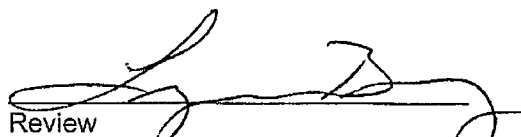
**Total Chloride**

**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: **Jicarilla BGTs**

  
Analyst

  
Review



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Sides	Date Reported:	08-20-10
Laboratory Number:	55600	Date Sampled:	08-18-10
Chain of Custody No:	10214	Date Received:	08-18-10
Sample Matrix:	Soil	Date Extracted:	08-19-10
Preservative:	Cool	Date Analyzed:	08-19-10
Condition:	Intact	Analysis Needed:	TPH-418.1


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	25.3	23.8

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: Jicarilla BGTs

  
Analyst

  
Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Sides	Date Reported:	08-20-10
Laboratory Number:	55600	Date Sampled:	08-18-10
Chain of Custody:	10214	Date Received:	08-18-10
Sample Matrix:	Soil	Date Analyzed:	08-19-10
Preservative:	Cool	Date Extracted:	08-19-10
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	1.1	0.9
Total BTEX	1.1	

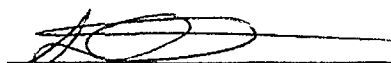
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.9 %
	1,4-difluorobenzene	103 %
	Bromochlorobenzene	99.2 %

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: Jicarilla BGTs

  
Analyst

  
Review



**EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons**

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Sides	Date Reported:	08-20-10
Laboratory Number:	55600	Date Sampled:	08-18-10
Chain of Custody No:	10214	Date Received:	08-18-10
Sample Matrix:	Soil	Date Extracted:	08-19-10
Preservative:	Cool	Date Analyzed:	08-19-10
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: **Jicarilla BGTs**

Analyst

Review





**envirotech**  
Analytical Laboratory

**Chloride**

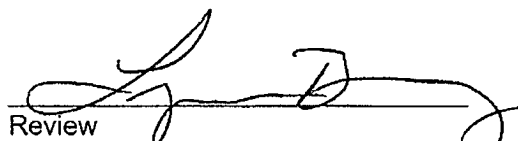
Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 120C #13 Sides	Date Reported:	08-20-10
Lab ID#:	55600	Date Sampled:	08-18-10
Sample Matrix:	Soil	Date Received:	08-18-10
Preservative:	Cool	Date Analyzed:	08-20-10
Condition:	Intact	Chain of Custody:	10214

Parameter	Concentration (mg/Kg)
Total Chloride	15

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: **Jicarilla BGTs**

  
Analyst

  
Review

## Ed Hasely

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**From:** Ed Hasely  
**Sent:** Tuesday, August 17, 2010 8:54 AM  
**To:** 'Powell, Brandon, EMNRD'  
**Subject:** FW: BGT Notification - 4 Jicarilla Wells - Potential Past Release

During the closure process on the BGT on the Jicarilla 120C #13, visually impacted soils were observed which according to the Pit Rule is an indication of a past release. Energen will proceed w/ 19.15.29 and 19.15.30.

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

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**From:** Ed Hasely  
**Sent:** Monday, August 09, 2010 1:41 PM  
**To:** 'Powell, Brandon, EMNRD'  
**Subject:** BGT Notification - 4 Jicarilla Wells

Brandon – this is to notify you that Energen plans to close the below grade tanks that are located on the following locations:

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**Jicarilla 120C #13** - Unit Letter L, Section 30, Township 25N, Range 5W  
**Jicarilla 123C #17** - Unit Letter E, Section 30, Township 25N, Range 5W  
**Jicarilla 123C #19** - Unit Letter D, Section 24, Township 26N, Range 3W  
**Jicarilla 123C #24** - Unit Letter O, Section 24, Township 26N, Range 3W

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Let me know if you have any questions.

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