

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**

3003A 24083

**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> McCroden #8	<b>Facility Type:</b> Oil/Gas Well Site

<b>Surface Owner:</b> Fee	<b>Mineral Owner:</b> Fee	<b>Lease No.</b> Fee
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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
L	3	25N	3W	1450	South	1185	West	Rio Arriba

Latitude 36.42017

Longitude -107.13562

**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> 12/7/09
<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> 12/7/09; 11:17 am,	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse.</b> NA	

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

RCVD JAN 19 '10

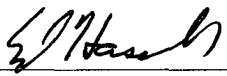

OIL CONS. DIV.  
DIST. 3

**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.\*** Approximately 250 cubic yards of soil were excavated. Samples were collected after excavation and results were acceptable (see attached). The impacted soils were taken to an approved disposal facility.

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.

<b>Signature:</b> 	<b>OIL CONSERVATION DIVISION</b>	
<b>Printed Name:</b> Ed Hasely	<b>Approved by District Supervisor:</b>  For: CP	
<b>Title:</b> Sr. Environmental Engineer	<b>Approval Date:</b> 4/9/10	<b>Expiration Date:</b>
<b>E-mail Address:</b> ed.hasely@energen.com	<b>Conditions of Approval:</b>	<b>Attached</b> <input type="checkbox"/>
<b>Date:</b> 1/13/10 <b>Phone:</b> 505-324-4131 / 505-330-3584(cell)		

\* Attach Additional Sheets If Necessary

NLMD1010641640



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

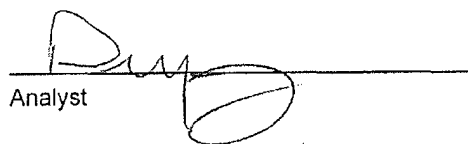
Client:	Energen	Project #:	03022-0001
Sample ID:	Exc. - Bottom	Date Reported:	12-15-09
Laboratory Number:	52666	Date Sampled:	12-10-09
Chain of Custody No:	8461	Date Received:	12-10-09
Sample Matrix:	Soil	Date Extracted:	12-11-09
Preservative:	Cool	Date Analyzed:	12-14-09
Condition:	Intact	Analysis Requested:	8015 TPH

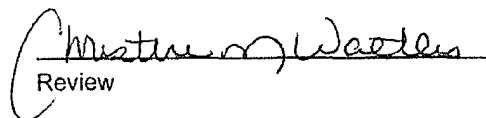
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	18.1	0.2
Diesel Range (C10 - C28)	14.5	0.1
Total Petroleum Hydrocarbons	32.6	0.2

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: **McCroden #8.**

  
Analyst

  
Review



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

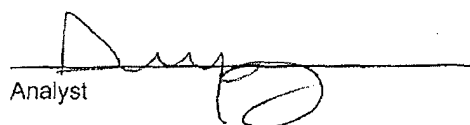
Client:	Energen	Project #:	03022-0001
Sample ID:	Exc. - Sides	Date Reported:	12-15-09
Laboratory Number:	52667	Date Sampled:	12-10-09
Chain of Custody No:	8461	Date Received:	12-10-09
Sample Matrix:	Soil	Date Extracted:	12-11-09
Preservative:	Cool	Date Analyzed:	12-14-09
Condition:	Intact	Analysis Requested:	8015 TPH

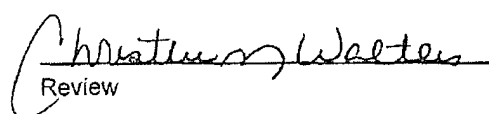
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.7	0.2
Diesel Range (C10 - C28)	3.2	0.1
Total Petroleum Hydrocarbons	6.9	0.2

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: **McCroden #8.**

  
Analyst

  
Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	Exc. - Bottom	Date Reported:	12-15-09
Laboratory Number:	52666	Date Sampled:	12-10-09
Chain of Custody:	8461	Date Received:	12-10-09
Sample Matrix:	Soil	Date Analyzed:	12-14-09
Preservative:	Cool	Date Extracted:	12-11-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.4	0.9
Toluene	17.9	1.0
Ethylbenzene	9.6	1.0
p,m-Xylene	264	1.2
o-Xylene	118	0.9
Total BTEX	412	

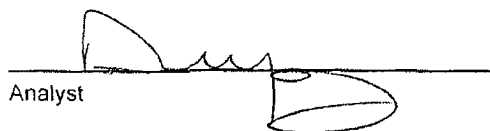
ND - Parameter not detected at the stated detection limit.

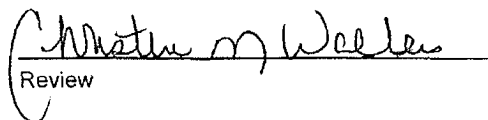
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: McCroden #8.

  
Analyst

  
Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0001
Sample ID:	Exc. - Sides	Date Reported:	12-15-09
Laboratory Number:	52667	Date Sampled:	12-10-09
Chain of Custody:	8461	Date Received:	12-10-09
Sample Matrix:	Soil	Date Analyzed:	12-14-09
Preservative:	Cool	Date Extracted:	12-11-09
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	91.1 %
	1,4-difluorobenzene	95.0 %
	Bromochlorobenzene	96.0 %

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: McCroden #8.

Analyst

Review



## Chloride

Client:	Energen	Project #:	03022-0001
Sample ID:	Exc-Bottom	Date Reported:	12-15-09
Lab ID#:	52666	Date Sampled:	12-10-09
Sample Matrix:	Soil	Date Received:	12-10-09
Preservative:	Cool	Date Analyzed:	12-15-09
Condition:	Intact	Chain of Custody:	8461

### Parameter

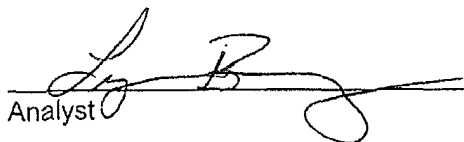
### Concentration (mg/Kg)

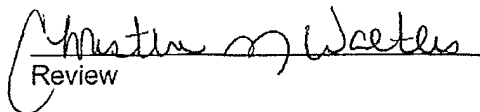
Total Chloride

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: **McCroden #8**

  
Analyst

  
Review



## Chloride

Client:	Energen	Project #:	03022-0001
Sample ID:	Exc-Sides	Date Reported:	12-15-09
Lab ID#:	52667	Date Sampled:	12-10-09
Sample Matrix:	Soil	Date Received:	12-10-09
Preservative:	Cool	Date Analyzed:	12-15-09
Condition:	Intact	Chain of Custody:	8461

### Parameter

### Concentration (mg/Kg)

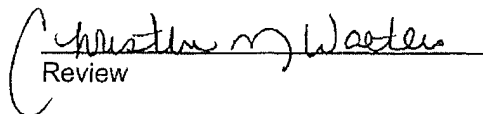
Total Chloride

50

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: **McCroden #8**

Analyst 

Review 

**Ed Hasely**

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**From:** Ed Hasely  
**Sent:** Monday, December 07, 2009 11:17 AM  
**To:** 'Powell, Brandon, EMNRD'  
**Subject:** McCroden #8 BGT - Notification of Past Release

During the closure of the McCroden #8 below grade tank, impacted soils were discovered underneath the tank. The impacted soils were excavated and we are currently waiting on analytical results to verify a "clean" closure. The impacted soils will be hauled to commercial disposal and the excavation will be backfilled w/ clean soils.

I will follow up w/ a C-141 and a C-144 closure report. Please let me know if you have any questions.

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

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**From:** Ed Hasely  
**Sent:** Monday, November 30, 2009 10:11 AM  
**To:** 'Powell, Brandon, EMNRD'  
**Cc:** Billy Stalcup  
**Subject:** BGT Closures

Brandon - This Email is to notify you that Energen plans to remove the below grade tanks on the following locations in the near future:

McCroden #8	Unit Letter L, Sec. 3 - T25N - R3W
McCroden A #8	Unit Letter N, Sec. 9 - T25N - R3W
McCroden B #3	Unit Letter K, Sec. 4 - T25N - R3W

Let me know if you have questions. Thanks.

**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