District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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 Separator Place, Farmington, NM 87401 Facility Name: Cheney Federal #2A (Separator BGT) Name and Corrective Action Contact: Ed Hasely Telephone No: 505-324-4131 Facility Name: Cheney Federal #2A (Separator BGT) Facility Type: Oil/Gas Well Site Surface Owner: Federal Mineral Owner: Federal Lease No. NMNM046 LOCATION OF RELEASE Unit Letter Section Township 26N 2W 790 North/South Line 790 West Line Rio Arriba NATURE OF RELEASE Type of Release: Produced Fluids NATURE OF RELEASE Type of Release: Production Pit Tank Date and Hour of Occurrence: Unknown North Occurrence: Unknown Mark Kelly – BLM (Email) Mark Kelly – BLM (Email)			
Name of Company: Energen Resources, Inc. Address: 2010 Afton Place, Farmington, NM 87401 Facility Name: Cheney Federal #2A (Separator BGT) Facility Name: Cheney Federal #2A (Separator BGT) Facility Type: Oil/Gas Well Site Surface Owner: Federal Mineral Owner: Federal Lease No. NMNM046 LOCATION OF RELEASE Unit Letter Section 17 Ownship 26N 2W 790 North/South Line North/South Line North/South Line North Date and Hour of Occurrence: Unknown Volume Recovered: 0 bbls Source of Release: Production Pit Tank Was Immediate Notice Given? If YES, To Whom? Brandon Powell – OCD (Email)			
Name of Company: Energen Resources, Inc. Contact: Ed Hasely Address: 2010 Afton Place, Farmington, NM 87401 Telephone No: 505-324-4131 Facility Name: Cheney Federal #2A (Separator BGT) Facility Type: Oil/Gas Well Site Surface Owner: Federal Lease No. NMNM046 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the Rio Arriba D			
Facility Name: Cheney Federal #2A (Separator BGT) Surface Owner: Federal Mineral Owner: Federal Lease No. NMNM046 LOCATION OF RELEASE Unit Letter Section 17 Ownship 26N 2W 790 North North 790 West Rio Arriba Latitude 36.49014 Longitude -107.07921 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 11/26/12 Was Immediate Notice Given? If YES, To Whom? Brandon Powell - OCD (Email)			
Surface Owner: Federal Location of Release: Produced Fluids Surface Owner: Federal Location of Release: Produced Fluids North Federal Lease No. NMNM046 Location of Release: Unknown Latitude 36.49014 North Feder from the 790 North Feder from the 800 North Feder from the 790 North Feder from the 800 North Feder from th			
LOCATION OF RELEASE			
LOCATION OF RELEASE			
Unit Letter D			
Latitude 36.49014 Longitude -107.07921 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 11/26/12 Was Immediate Notice Given? If YES, To Whom? Brandon Powell – OCD (Email)			
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 11/26/12 Was Immediate Notice Given? If YES, To Whom? Brandon Powell – OCD (Email)			
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 11/26/12 Was Immediate Notice Given? If YES, To Whom? Brandon Powell – OCD (Email)			
Source of Release: Production Pit Tank Date and Hour of Occurrence: Unknown 11/26/12 Was Immediate Notice Given? Date and Hour of Discovery: 11/26/12 Was Immediate Notice Given?			
Was Immediate Notice Given? Unknown 11/26/12 Brandon Powell – OCD (Email)			
Was Immediate Notice Given? If YES, To Whom? Brandon Powell – OCD (Email)			
By Whom? Ed Hasely Date and Hour: 11/26/12; 10 am			
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. NA			
☐ Yes ⊠ No			
If a Watercourse was Impacted, Describe Fully.* NA RCUD APR 24 13			
OIL CONS. DIV.			
·			
DIST. 3			
Describe Cause of Problem and Remedial Action Taken.*			
During the below-grade tank closure, soils underneath the tank were visually impacted.			
Describe Area Affected and Cleanup Action Taken.* The impacted soils were excavated using a backhoe. Soils were removed to a depth of			
approximately 16 feet below the tank. Composite samples were collected from the walls and the analyses (attached) shows acceptable results based upon a zero ranking. The depth to groundwater is estimated to be greater than 100 feet base upon cathodic well records. The impacted soils were disposed at a			
commercial disposal facility and the excavation was backfilled with clean soils.			
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			
\$ (//) / h			
Signature: L. Hasel			
Printed Name: Ed Hasely Approved by District Supervisor: Yould I Kelly			
Title: Sr. Environmental Engineer Approval Date: 5/04/2013 Expiration Date:			
E-mail Address: ed.hasely@energen.com Conditions of Approval:			

* Attach Additional Sheets If Necessary

Phone: 505-324-4131 / 505-330-3584(cell)

Date: 4/23/12

NJK 1312235594

Attached



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	Sep BGT Sides	Date Reported:	12-04-12
Laboratory Number:	63833	Date Sampled:	12-03-12
Chain of Custody No:	14727	Date Received:	12-03-12
Sample Matrix:	Soil	Date Extracted:	12-04-12
Preservative:	Cool	Date Analyzed:	12-04-12
Condition:	Intact.	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	196	0.2
Diesel Range (C10 - C28)	378	0.1
Total Petroleum Hydrocarbons	573	

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:





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client	Energen Resources:	Project #:	03022-0001
Sample ID:	Sep BGT Sides	Date Reported:	12-04-12
Laboratory Number:	63833	Date Sampled:	12-03-12
Chain of Custody:	14727	Date Received:	12-03-12
Sample Matrix:	Soil	Date Analyzed:	12-04-12
Preservative:	Cool	Date Extracted:	12-04-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

·		Det.	·
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	ND	10.0	
Toluene	34.2	10.0	
Ethylbenzene	460	10.0	
p,m-Xylene	6,850	10.0	
o-Xylene	1,900	10.0	
Total BTFX	9.240		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	79.2 %
	1,4-difluorobenzene	95.1 %
	Bromochlorobenzene	109 %

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:





Chloride

Client: **Energen Resources** Project #: 03022-0001 Sep BGT Sides Sample ID: Date Reported: 12-04-12 Lab ID#: 63833 Date Sampled: 12-03-12 Sample Matrix: Date Received: Soil 12-03-12 Preservative: Cool Date Analyzed: 12-04-12 Condition: Chain of Custody: Intact 14727

		
Parameter	•	Concentration (mg/Kg)

Total Chloride 24.6

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: Cheney Federal #2A



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	Sep BGT Bottom	Date Reported:	12-04-12
Laboratory Number:	63834	Date Sampled:	12-03-12
Chain of Custody No:	14727	Date Received:	12-03-12
Sample Matrix:	Soil	Date Extracted:	12-04-12
Preservative:	Cool	Date Analyzed:	12-04-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	220	0.2
Diesel Range (C10 - C28)	388	0.1
Total Petroleum Hydrocarbons	608	

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:





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	Sep BGT Bottom	Date Reported:	12-04-12
Laboratory Number:	63834	Date Sampled:	12-03-12
Chain of Custody:	14727	Date Received:	12-03-12
Sample Matrix:	Soil	Date Analyzed:	12-04-12
Preservative:	Cool	Date Extracted:	12-04-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

	Dilation.	ΰ
		Det.
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)
Benzene	40.7	10.0
Toluene	98.7	10.0
Ethylbenzene	1,640	10.0
p,m-Xylene	18,900	10.0
o-Xylene	4,840	10.0
Total BTEX	25,500	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	82.4 %
	1,4-difluorobenzene	91.5 %
	Bromochlorobenzene	104 %

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:





Intact

Chloride

14727

Client: Energen Resources Project #: 03022-0001 Sep BGT Bottom 12-04-12 Sample ID: Date Reported: Lab ID#: 63834 Date Sampled: 12-03-12 12-03-12 Sample Matrix: Soil Date Received: Preservative: Cool Date Analyzed: 12-04-12 Chain of Custody:

Condition:

Concentration (mg/Kg)

Total Chloride

Parameter

31.8

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:



Ed Hasely

From:

Ed Hasely

Sent:

Monday, November 26, 2012 10:01 AM

To:

'Powell, Brandon, EMNRD'

Cc:

'Kelly, Mark C'

Subject:

Possible Past Release Notification

Brandon / Mark – This is to notify you that impacted soils were discovered under the BGTs on the Cheney Federal #2A. We are proceeding w/ excavation and closure per 19.15.29 and 19.15.30.

Ed Hasely

Energen Resources Corporation

From: Ed Hasely

Sent: Monday, November 12, 2012 2:25 PM

To: Kelly, Jonathan, EMNRD

Subject: BGT Closure Notifications

Jonathan – Energen plans to begin the closure process on the below listed BGT's in the near future. Let me know if you have questions. Thanks.

Chene y Federal #2 - Unit Letter M, Section 17, Township 26N, Range 2W

Cheney Federal #2A - Unit Letter D, Section 17, Township 26N, Range 2W

Ed Hasely

Energen Resources Corporation

Sr. Environmental Engineer ed.hasely@energen.com
Office: (505) 324-4131
Cell: (505) 330-3584

Ed Hasely

From:

Landon, Sherrie [slandon@blm.gov] Friday, December 07, 2012 10:35 AM

Sent:

Ed Hasely

Subject:

Re: FW: Request for Closure (Cheney Federal #2A)

You have our approval to close the site. I was over at your two Cheney Fed. wells last week. Seems to be a lot of contaminated soil being removed from the 2A. I will check them out again early next week. If I have any questions will get back to you. thanks sherrie

On Fri, Dec 7, 2012 at 7:15 AM, Ed Hasely < Ed. Hasely@energen.com > wrote:

Mark - Thanks for the info.

Sherrie – Can you help me w/ this?

Ed Hasely

Energen Resources Corporation

From: Kelly, Mark [mailto:mkelly@blm.gov]
Sent: Friday, December 07, 2012 7:05 AM

To: Ed Hasely
Cc: Sherrie Landon

Subject: Re: FW: Request for Closure (Cheney Federal #2A)

Ed,

Currently, the point of contact regarding all spills, leaks, discharges or historical contamination on BLM surface is Sherrie Landon and all reports and correspondence should be sent to her attention. If Sherrie is unavailable then I am the 2nd point of contact. Sherrie's email address is slandon@blm.gov, her direct phone number is 564-7707 and her cell phone number is (505) 793-1801.

Thanks,

Mark

On Thu, Dec 6, 2012 at 7:49 AM, Ed Hasely < Ed. Hasely@energen.com > wrote:

Mark – I am not sure who to bother on this issue, but figured I would start w/ you. Just wanted to make sure the BLM is OK w/ the closure of these two below grade tanks. Groundwater is estimated over 100 feet and there is not surface water or water wells nearby and the TPH levels are less than 1000 ppm. Please let me know your thoughts on this or if you want to discuss. The well is located in D - Sec. 17 - 26N - 2W down near our Jicarilla operations. Below is email back-and-forths w/ the OCD w/ lab data and details. Thanks.

Or if I need to bother someone else w/ this, please let me know. Thanks.

Ed Hasely

Energen Resources Corporation

From: Kelly, Jonathan, EMNRD [mailto:<u>Jonathan.Kelly@state.nm.us</u>]

Sent: Thursday, December 06, 2012 7:17 AM

To: Ed Hasely

Cc: Powell, Brandon, EMNRD; Perrin, Charlie, EMNRD **Subject:** RE: Request for Closure (Cheney Federal #2A)

Based off the depth to groundwater and distance to surface water features, the results listed fall within the closure standard for the site, so the excavations meet the limits. After going over it with Charlie, he has given me the ok to grant closure approval

Jonathan D. Kelly

Compliance Officer

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 122

jonathan.kelly@state.nm.us

From: Ed Hasely [mailto:<u>Ed.Hasely@energen.com</u>] **Sent:** Wednesday, December 05, 2012 4:19 PM

To: Kelly, Jonathan, EMNRD **Subject:** RE: Request for Closure

Looking at DeLorme Topo Maps on my computer shows a dotted blue line (indicating an intermittent stream) is over 2000 feet to the east. To the west, the nearest dotted blue line is over 3000 feet away. Thanks for checking into this for me.

Ed Hasely

Energen Resources Corporation

From: Kelly, Jonathan, EMNRD [mailto:Jonathan.Kelly@state.nm.us]

Sent: Wednesday, December 05, 2012 4:02 PM

To: Ed Hasely

Subject: RE: Request for Closure

I believe that would be accurate, though do you know the distance to the wash that is a bit west of the location. I know it generally doesn't flow, but from what I can recall from when I inspected them it might be capable of moving enough to be of little concern, but I am thinking that it could likely give your location a ranking of 10, which would allow for 1000 TPH. I will go over it with Charlie in the morning if he is available.

Jonathan D. Kelly

Compliance Officer

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 122

jonathan.kelly@state.nm.us

From: Ed Hasely [mailto:Ed.Hasely@energen.com]
Sent: Wednesday, December 05, 2012 3:57 PM

To: Kelly, Jonathan, EMNRD **Subject:** RE: Request for Closure

It has been a while for me on doing a site ranking. Groundwater is estimated greater than 100 feet, there is no surface water within a 1000 feet and no water wells that I am aware of within a 1000 feet. Does that help? If not please let me know exactly what you need. Thanks.

Ed Hasely

Energen Resources Corporation

From: Kelly, Jonathan, EMNRD [mailto:Jonathan.Kelly@state.nm.us]

Sent: Wednesday, December 05, 2012 3:51 PM

To: Ed Hasely

Subject: RE: Request for Closure

Ed,

I will run this by Charlie before I can authorize it, since so far all that I have been authorized to approve has been C-144s and C-141s. Also, what is the site ranking for this location?

Jonathan D. Kelly

Compliance Officer

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 122

jonathan.kelly@state.nm.us

From: Ed Hasely [mailto:Ed.Hasely@energen.com]
Sent: Wednesday, December 05, 2012 8:24 AM

To: Kelly, Jonathan, EMNRD **Subject:** RE: Request for Closure

Jonathon – Can you make this call or do we need to wait for Brandon to get back? Let me know. Thanks.

Ed Hasely

Energen Resources Corporation

From: Ed Hasely

Sent: Tuesday, December 04, 2012 4:03 PM

To: 'Powell, Brandon, EMNRD'; Kelly, Jonathan, EMNRD

Subject: Request for Closure

The Cheney Federal #2A had two BGT's. We have excavated and properly disposed of over 400 cy of soil between the two BGT's. The Tank BGT excavation is approximately 6 feet deep and the Separator BGT is approximately 16 feet deep. The lab results are detailed below. Groundwater is estimated at greater than 100 feet based upon cathodic well records of the Cheney Federal #1. First water in the cathodic well was 110 feet. The Cheney Federal #2A is located approximately 1700 feet to the south and its elevation is 29 feet higher than the cathodic well. We request approval to close the two excavations due to the chlorides being less than 250, BTEX being less than 50 ppm, and TPH being less than 1000 ppm.

Please let me know if you concur as soon as possible so we can complete the closure process. Thanks.

Ed Hasely

Energen Resources Corporation

From: laboratory [mailto:laboratory@envirotech-inc.com]

Sent: Tuesday, December 04, 2012 2:18 PM

To: Ed Hasely

Subject: Cheney Federal #2A

Here are the preliminary results for the Cheney Federal #2A:

a ,	Tank BGT Sides	Tank BGT Bottom	Sep BGT
<u>Sides</u>	Sep BGT Bottom	Tank BOT Bottom	Sep DG I
Chloride: 31.8 ppm	23.1 ppm	23.2 ppm	24.6 ppm
2 PP			
TPH/8015:			
GRO:	ND	23.0 ppm	196
ppm	220 ppm		
DRO:	ND	91.7 ppm	378
ppm	388 ppm		
TPH:	ND	115 ppm	573
ppm	608 ppm		
BTEX/8021:			
Benzene: ND	ND 40.7 ppb	ND	
Toluene: ppb	ND 98.7 ppb	12 ppb	34.2
Ethlybenzene:	ND	152 ppb	460 ppb
1,640 ppb			
P,m-Xylene:	ND	1,170 ppb	6,850 ppb
18,890 ppb			
o-Xylene: 4,840 ppb	ND	389 ppb	1,900 ppb
Total BTEX:	ND	1,730 ppb	9,240
ppb	25,500 ppb		

Please contact our office if you have any questions. Thank you,