	Hobbs, NN	A 88240		State of Energy Minera	of N Ils a	Jew Mexico nd Natural Reso	ources		Form C-141 Revised October 10, 2003
1301 W. Grand Avenue, Artesia, NM 88210Oil ConseDistrict III000 Rio Brazos Road, Aztec, NM 874101220 SoutDistrict IV1220 Sout1220 Sout1220 S. St. Francis Dr., Santa Fe, NM 87505Santa H		serv uth	ervation Division th St. Francis Dr.		Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form				
			Relea	se Notificati	on	and Corre	ctive Action		and a state of the
30-039	1-21:	269	Ittica	se rouncau	UII	OPERATOR		Initial I	Report 🛛 Final Repor
Name of Com	pany: En	ergen Resou	rces, Inc.	·····		Contact: E	d Hasely		
Address: 2010	Afton P	lace, Farming	gton, NM	87401	T	elephone No: 50	05-324-4131		· · · · · · · · · · · · · · · · · · ·
Facility Name:	: Cheney	Federal #2A	(Tank B	GT)	F	'acility Type: Oi	l/Gas Well Site		
Surface Owner	r: Federa	al	·	Mineral Own	er:	Federal	······································	Lease No.	NMNM046
				LOCATI	ON	OF RELEAS	SE		
Unit Letter S	Section	Township	Range	Feet from the	Nor	th/South Line	Feet from the	East/West Lin	ie County
D	17	26N	2W	790	Nor	th	790	West	Rio Arriba
			Latit	ude <u>36.49014</u>		Longitude	-107.07921		
				NATUR	E (OF RELEAS	E		
Type of Release	: Produce	d Fluids				Volume of Relea	se: Unknown	Volume Reco	overed: 0 bbls
Source of Releas	se: Produc	ction Pit Tank				Date and Hour o	of Occurrence:	Date and Ho	ur of Discovery:
Was Immediate	Notice G	iven?	′es 🗌 N	Io 🔲 Not Requir	ed	If YES, To Who	m? Brandon Po Mark Kelly	well – OCD (En – BLM (Email)	mail))
By Whom? Ed	Hasely					Date and Hour: 11/26/12; 10 am			
Was a Watercou	urse Reac	hed?	Yes 🖾 N	lo		If YES, Volume	Impacting the W	atercourse. Na	A
If a Watercours	e was Im	pacted, Descr	ibe Fully.	* NA				OIL	D APR 24'13 . CONS. DIV. DIST. 3
Describe Cause During the below	of Proble	em and Remeant	lial Action	1 Taken.* ath the tank were vi	isual	ly impacted.			
	feet below	nd Cleanup A v the tank. Cor	ction Tak	en.* The impacte	ed so	ils were excavated	using a backhoe.	Soils were remo	aved to a depth of
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EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Energen Resources	Project #:	03022-0001
Sample ID:	Tank BGT Bottom	Date Reported:	12-04-12
Laboratory Number:	63832	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)	
Gasolinë Range (C5 - C10)	23.0	0.2	
Diesel Range (C10 - C28)	91.7	0.1	
Total Petroleum Hydrocarbons	115		

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: Cheney Federal #2A



Chloride

Client:	Energen Resources	Project #:	03022-0001	
Sample ID:	Tank BGT Bottom	Date Reported:	12-04-12	
Lab ID#:	63832	Date Sampled:	12-03-12	
Sample Matrix:	Soil	Date Received:	12-03-12	
Preservative:	Cóol	Date Analyzed:	12-04-12	
Condition:	Intact	Chain of Custody:	14727	

Parameter

Concentration (mg/Kg)

Total Chloride

23.2

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

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen Resource	s	Project #:		03022-0001
Sample ID:	Tank BGT Bottom		Date Reported:		12-04-12
Laboratory Number:	63832		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.	
		Concentratio	ń	Limit	
Parameter		(ug/Kg)	arenden for the state of the st	(ug/Kg)	
Benzene		ND		10.0	
Toluene		11.8		10.0	
Ethylbenzene		152		10.0	
p,m-Xylene		1,170		10.0	
o-Xylene		389		10.0	
Total BTEX		1,730)		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	82.5 %
	1,4-difluorobenzene	91.7 %
	Bromochlorobenzene	112 %

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: Cheney Federal #2A





Client:	Energen Resources	Project #:	03022-0001
Sample ID:	Tank BGT Sides	Date Reported:	12-04-12
Laboratory Number:	63831	Date Sampled:	12-03-12
Chain of Custody No:	14727	Date Received:	12-03-12
Sample Matrix:	Söil	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)	ND	0.2 [.]	
Diesel Range (C10 - C28)	ND	0.1	
Total Petroleum Hydrocarbons	ND		

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: Cheney Federal #2A



Client:	Energen Resource	es	Project #:	03022-0001
Sample ID:	Tank BGT Sides		Date Reported:	12-04-12
Laboratory Number:	63831		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.
		Concentratio	n	Limit
Deremeter		(and Wear)	,	11 F \
Parameter		(ug/ng)	()	ug/Kg)
Parameter	ana ang ang ang ang ang ang ang ang ang	(ug/Kg)	(1	ug/Kg)
Benzene		(ug/kg)	()	ug/Kg) 10.0
Benzene Toluene		(ug/Kg) ND ND	(1	10.0 10.0
Benzene Toluene Ethylbenzene		(ug/Kg) ND ND ND	(1	10.0 10.0 10.0 10.0
Benzene Toluene Ethylbenzene p.m-Xylene		(ug/Kg) ND ND ND ND	(1	10.0 10.0 10.0 10.0 10.0
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene		(UG/KG) ND ND ND ND ND	(1	10.0 10.0 10.0 10.0 10.0 10.0
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene		(ug/Kg) ND ND ND ND	(1	10.0 10.0 10.0 10.0 10.0 10.0

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:		Parameter	Percent Recovery
		Fluorobenzene	84.3 %
		1,4-difluorobenzene	93.3 %
		Bromochlorobenzene	97.1 %
References:	Method 5 Decembe	i030B, Purge-and-Trap, Test Methods for E er 1996.	Evaluating Solid Waste, SW-846, USEPA,
	Method 8 ⊎SEPA,	021B, Aromatic Volatile Organics, Test Mo December 1996.	ethods for Evaluating Solid Waste, SW-846
Comments:	Cheney	/ Federal #2A	



Chloride

Client	Energen: Resources	Project #:	03022-0001
Sample ID:	Tank BGT Sides	Date Reported:	12-04-12
Lab ID#:	63831	Date Sampled:	12-03-12
Sample Matrix:	Soil	Date Received:	12-03-12
Preservative:	Cool	Date Analyzed:	12-04-12
Condition:	Intact	Chain of Custody:	14727

Parameter Concentration (mg/Kg)

Total Chloride

23.1

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.

envirotech-lite.com

ioratory@envirotech-linc.com

Comments:

Cheney Federal #2A

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

 Ph (505) 632-0615
 Fx (505) 632-1865

 Ph (970) 259-0615
 Fr (800) 362-1879

Ed Hasely

From: Sent:	Ed Hasely Monday, November 26, 2012 10:01 AM
То:	'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

Landon, Sherrie [slandon@blm.gov]
Friday, December 07, 2012 10:35 AM
Ed Hasely
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 <<u>Ed.Hasely@energen.com</u>> 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 <u>slandon@blm.gov</u>, 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 <<u>Ed.Hasely@energen.com</u>> 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 HaselySent: Tuesday, December 04, 2012 4:03 PMTo: 'Powell, Brandon, EMNRD'; Kelly, Jonathan, EMNRDSubject: 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:

<u>Sides</u>	<u>Tank BGT Sides</u> Sep BGT Bottom	<u>Tank BGT Bottom</u>	<u>Sep BGT</u>
Chloride: 31.8 ppm	23.1 ppm	23.2 ppm	24.6 ppm
TPH/8015:			
GRO: ppm	ND 220 ppm	23.0 ppm	196
DRO: ppm	ND 388 ppm	91.7 ppm	378
TPH: ppm	ND 608 ppm	115 ppm	573

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BTEX/8021:

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Benzene: ND	ND 40.7 ppb	ND	
Toluene: ppb	ND 98.7 ppb	12 ppb	34.2
Ethlybenzene: 1,640 ppb	ND	152 ppb	460 ppb
P,m-Xylene: 18,890 ppb	ND	1,170 ppb	6,850 ppb
o-Xylene: 4,840 ppb	ND	389 ppb	1,900 ppb
Total BTEX: ppb	ND 25,500 ppb	1,730 ppb	9,240

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