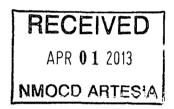
### Bluestem Energy Holdings, LLC.

# Flint-2 Township 19 South, Range 25 East, Section 25 Eddy County New Mexico

**Closure Report** 

March 18, 2013





### Prepared for:

Bluestem Energy Holdings, LLC. 400 W. Illinois #900 Midland, Texas 79701

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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### I. Company Contacts

Representative	Company	Telephone	E-mail
Jim Mason	Bluestem Energy	432-685-0134	jmason@Bluestemenergy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

### II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Bluestem Energy Holdings, LLC. to perform site assessment of a release area at the Flint-2 located in Unit Letter N. Section 25 of Township 19 South, Range 25 East, Eddy County, New Mexico.

According to the C-141 dated February 25, 2013, the cause of the release was due to a valve left open by the operator. Approximately nine (9) barrels of produced fluids were released with zero recovery.

New Mexico Oil Conservation Division (NMOCD) representative Mr. Randy Dade was contacted on February 24, 2013.

### III. Surface and Ground Water

The nearest groundwater of record is approximately 0.16 miles southeast of the site. The New Mexico Office of State Engineer record is in Section 25 Range 25 East and Township 19 South. The reported depth was 60 feet below ground surface (BGS).

### IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to	Less than 50 feet	20 points	
seasonal high water elevation o	50 feet to 99 feet	10 points	Х
groundwater)	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	
water source, or less than 1000 feet from al	No	0 points	X
other water sources)			
Distance to Surface Water:			
(Horizontal distance to perennial lakes	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			10

#### V. Work Performed

On February 27, 2013, Mr. Bob Allen, SESI representative was onsite to assess the impacted area. Mr. Allen observed spray from the compressor traveling northeast of location approximately 360 ft., with no pooling areas. Site photographs were obtained of the impacted area.

According to Mr. Mike Bratcher, NMOCD Artesia representative, and Mr. Allen's onsite conversation, a Micro blaze application will be applied over the entire impacted vegetation.

On March 5, 2013, SESI was onsite at the Bluestem Energy Flint #2 to obtain soil samples of the release area near the compressor. Back hoe and Roustabout crew of three were onsite excavating the release area removing all the staining to one and a half foot in depth. Three (3) auger holes were installed at a depth of two (2) ft. and soil samples were retrieved at that depth. The excavated soils were transported to an NMOCD approved facility for disposal.

All samples were properly preserved and transported under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-Cl B) Benzene Toluene, Ethylbenzene, Total Xylenes (BTEX), and Total Petroleum Hydrocarbons (TPH).

The results of the analysis are presented in the table below:

Lab ID	Sāmple ID	CI- (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
Añalysis D	ate:	03/07/13	03/13/13	03/11/13	03/11/13	03/11/13	03/11/13
H300561- 01	AH-1 2' bgs	<16.0	70.0	<0.050	<0.050	<0.050	<0.150
H300561- 02	AH-2 2' bgs	<16.0	68.0	<0.050	<0.050	<0.050	<0.150
H300561- 03	AH-3 2' bgs	32.0	63.0	<0.050	<0.050	<0.050	<0.150

On March 8, 2013, SESI arrived at the Bluestem Flint #2 and set up equipment and divided the impacted spray area into three sections using white pin flags. The micro blaze application was applied on the impacted area. The results of the final sampling show all TPH levels to be below the target level of 1,000 ppm therefore, the excavation was backfilled with clean soils contoured to match the surrounding area.

The secondary containment onsite was also free of all liquids.

### VI. Conclusion

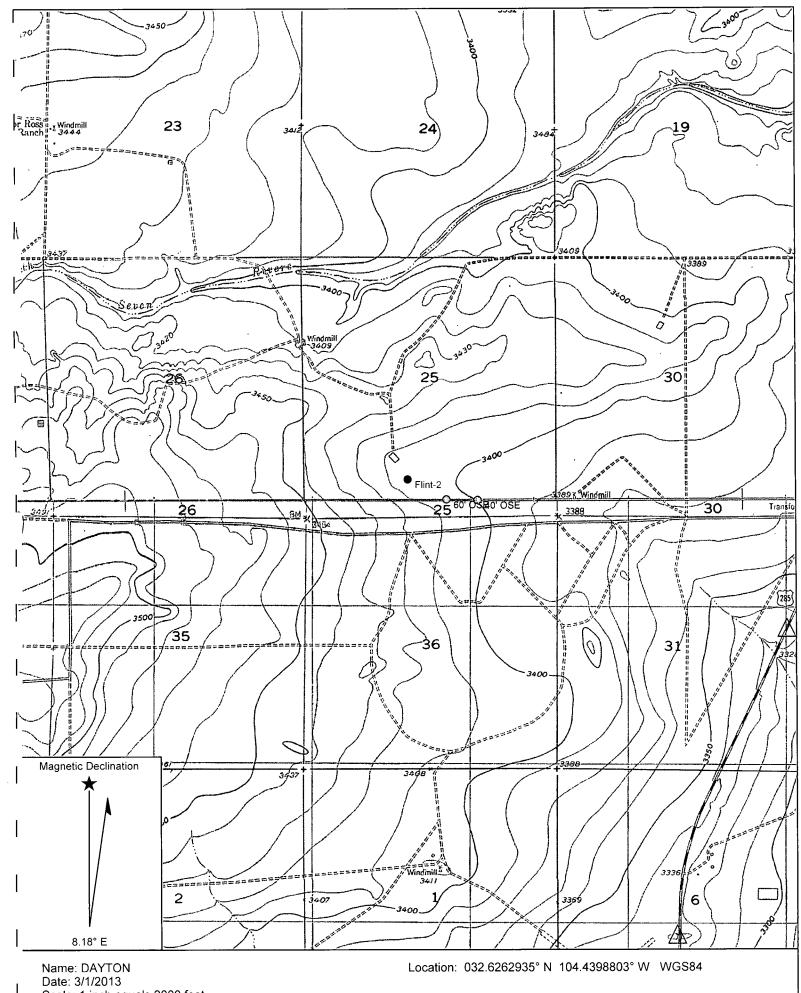
Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements. The area will be reseeded in the spring as per landowner's specifications.

As a result, we respectfully submit this closure report for your consideration and approval.

### VII. Figures & Appendices

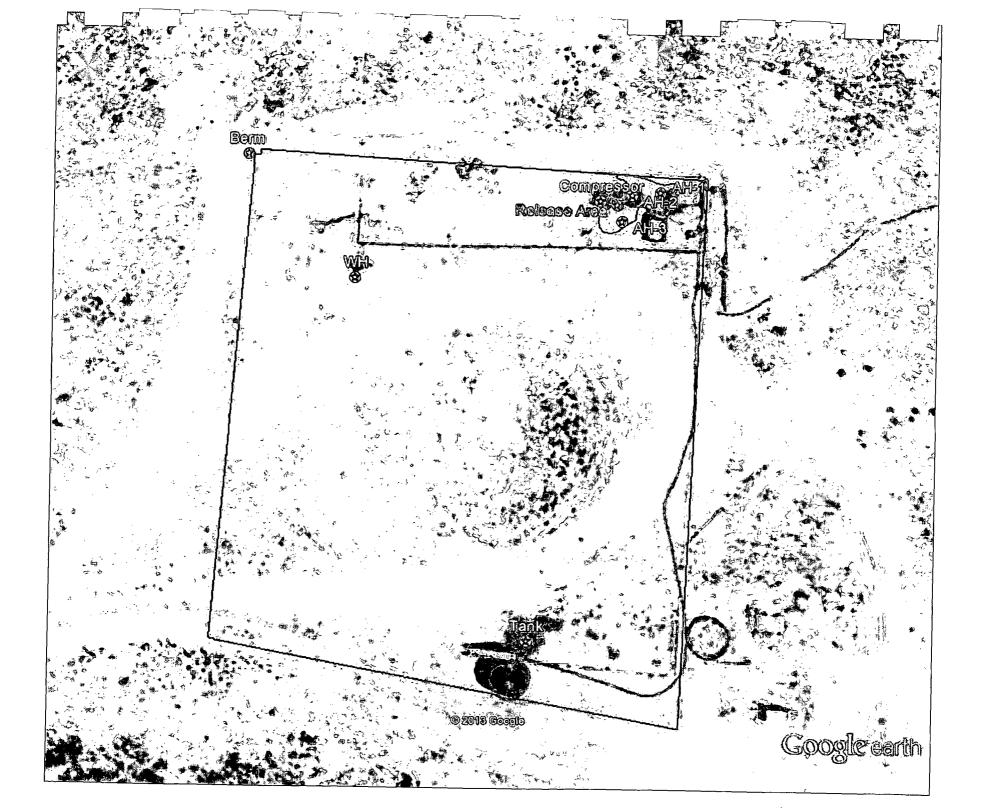
Figure 1 – Vicinity Map Figure 2 – Site Map Appendix A- Analytical Results Appendix B- Site Photographs Appendix C- C-141

## Figure 1 Vicinity Map



Scale: 1 inch equals 2000 feet

## Figure 2 Site Map



## Appendix A Analytical Results



March 14, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: FLINT #2



Enclosed are the results of analyses for samples received by the laboratory on 03/06/13 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

03/06/2013

Sampling Date:

03/05/2013

Reported:

03/14/2013

Sampling Type:

Soil

Project Name:

FLINT #2

Sampling Condition:

Cool & Intact

Project Number:

BLU-13-001

Sample Received By:

Jodi Henson

Project Location:

ARTESIA, NEW MEXICO

### Sample ID: AH - 1 2' BGS (H300561-01)

BTEX 8021B	mg,	'kg	Analyze	d By: AP		<del> </del>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2013	ND	2.09	104	2.00	0.212	
Toluene*	<0.050	0.050	03/11/2013	ND	2.07	103	2.00	1.16	
Ethylbenzene*	<0.050	0.050	03/11/2013	ND .	1.99	99.6	2.00	1.26	
Total Xylenes*	<0.150	0.150	03/11/2013	ND	6.02	100	6.00	1.76	
Total BTEX	<0.300	0.300	03/11/2013	ND	,				
Surrogate: 4-Bromofluorobenzene (PIL	117	% 89.4-12	б						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2013	ND	416	104	400	0.00	
TPH 418,1	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	70.0	10.0	03/13/2013	ND	140	107	131		SUB-SS

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keine



### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

03/06/2013

Reported:

03/14/2013

Project Name: Project Number: FLINT #2

Project Location:

BLU-13-001

ARTESIA, NEW MEXICO

Sampling Date:

03/05/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: AH - 2 2' BGS (H300561-02)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2013	ND	2.09	104	2.00	0.212	
Toluene*	<0.050	0.050	03/11/2013	ND	2.07	103	2.00	1.16	
Ethylbenzene*	<0.050	0.050	03/11/2013	ND	1.99	99.6	2.00	1.26	
Total Xylenes*	<0.150	0.150	03/11/2013	ND	6.02	100	6.00	1.76	
Total BTEX	<0.300	0.300	03/11/2013	ND					1
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/07/2013	ND	416	104	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	68.0	10.0	03/13/2013	ND	140	107	131		SUB-SS

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

03/06/2013

Sampling Date:

03/05/2013

Reported:

03/14/2013

Sampling Type:

Soil

Project Name:

FLINT #2

Sampling Condition:

Cool & Intact

Project Number:

BLU-13-001

Sample Received By:

Jodi Henson

Project Location:

ARTESIA, NEW MEXICO

Sample ID: AH - 3 2' BGS (H300561-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP				- ··	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2013	ND	2.09	104	2.00	0.212	
Toluene*	<0.050	0.050	03/11/2013	ND	2.07	103	2.00	1.16	
Ethylbenzene*	<0.050	0.050	03/11/2013	ND	1.99	99.6	2.00	1.26	
Total Xylenes*	<0.150	0.150	03/11/2013	ND	6.02	100	6.00	1.76	
Total BTEX	<0.300	0.300	03/11/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149	% 89.4-12	6		-				
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW	·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2013	ND	416	104	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	63.0	10.0	03/13/2013	ND	140	107	131		SUB-SS

Cardinal Laboratories \*=Accredited Analyte

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aleg to Kenne

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

SUB-SS Analysis subcontracted to SunStar Laboratories, Inc.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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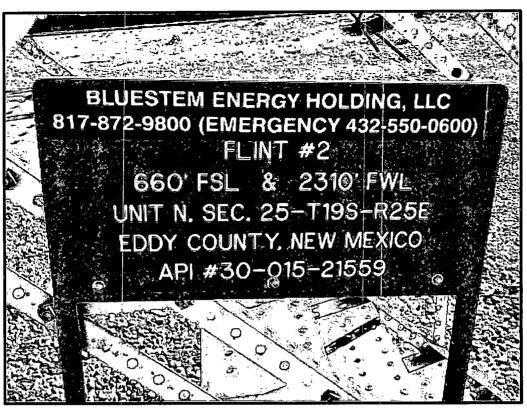
Celeg & Keine

## ARDINAL LABORATORIES

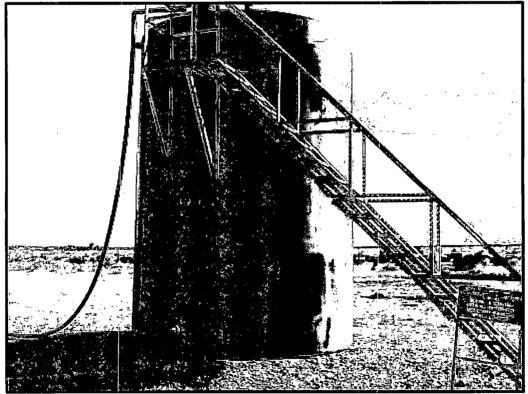
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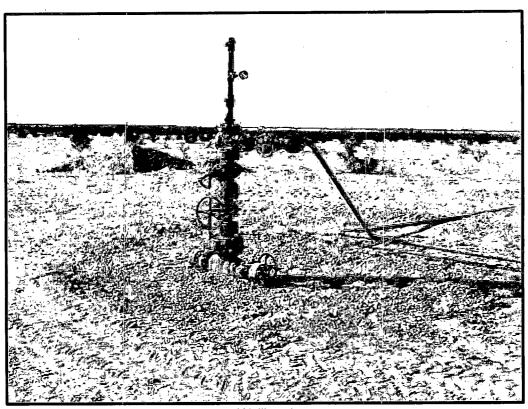
## Appendix B Site Photographs



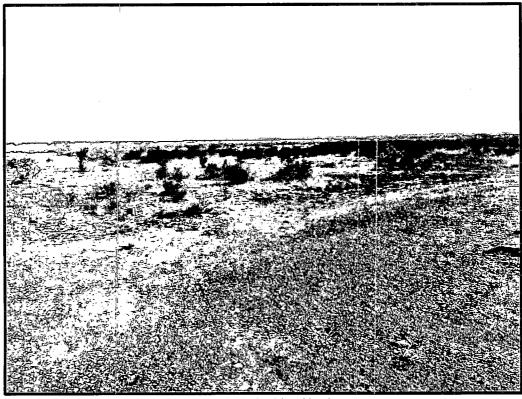
Lease sign on location



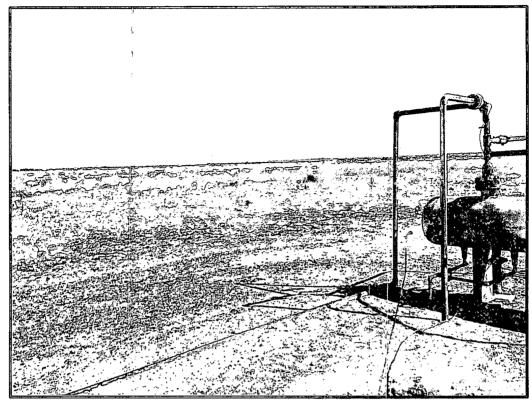
Tank facing southeast



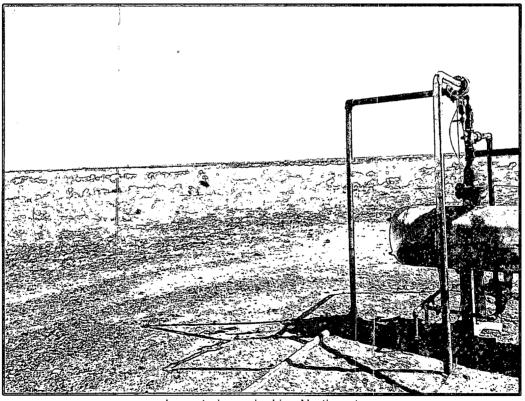
Wellhead



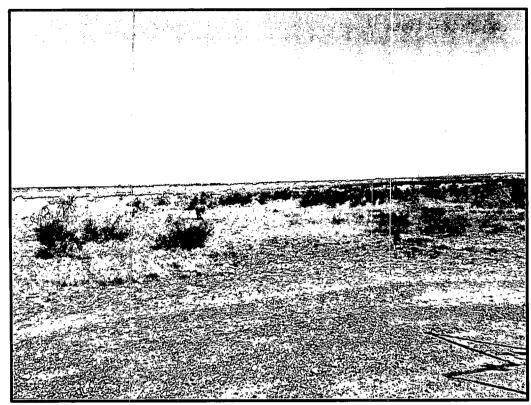
Impacted area looking Northeast



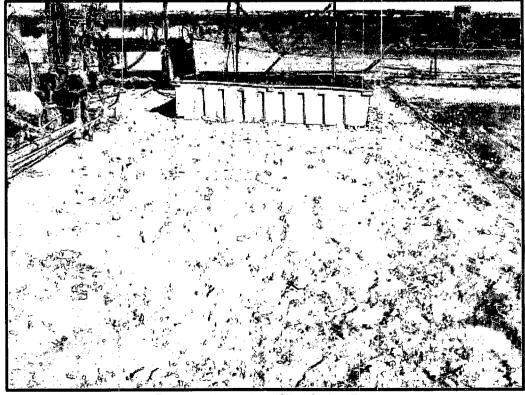
Impacted area looking Northeast



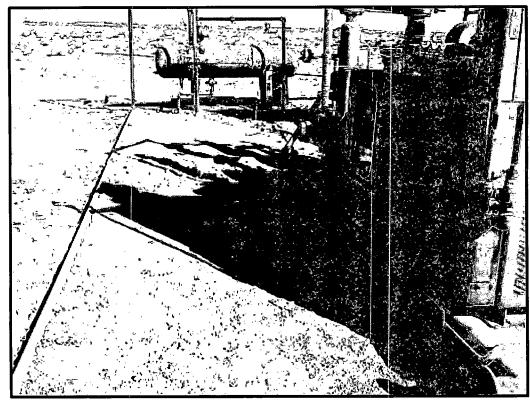
Impacted area looking Northeast



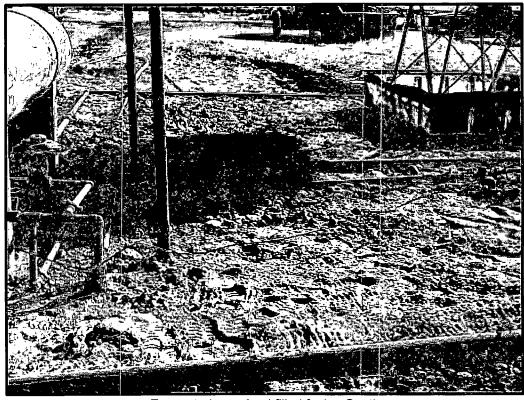
Impacted area looking Northeast



Excavated area backfilled facing East



Excavated area backfilled facing East



Excavated area backfilled facing South

### Appendix C C-141

RECEIVED

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

District I 1625 N. French Dr., Hobbs, NM 88240 PR 0 1 2013 District II 811 S. First St., Artesia, NM 88210 OCD ARTES 1000 Rio Brazos Road, Azto-NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

NMOCD ARTES!A Oil Conservation Division 1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe. NM 87505

			Keie	ease Notific	atioi	and Co	rrective A	cuon							
						<b>OPERA</b>	FOR		Initia	al Report	$\boxtimes$	Final Report			
Name of Co	mpany: B	luestem Hole	lings, LL	C		Contact: Jim Mason									
		ois #900 Mid				Telephone 1	lo.: 432-685-01	34							
Facility Nar	ne: Flint -2	2				Facility Type: Oil Well									
		CHN C' I		1.0		API No. 30-015-21559									
Surface Ow	ner: Estate	of JW Gissi	er	Mineral O		MAR DE	TRACTE		API NO	. 30-015-21	239				
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Unit Letter N	Section 25	Township 19s	Range 25e	Feet from the 660°	North South	/South Line	Feet from the 2310'	West	Vest Line	County Eddy					
18	43	198	230	000	South		2510	West		Ludy					
	·	1	La	titude		Longitud	e	·		<u> </u>					
NATURE OF RELEASE															
Type of Release: Oil and Produced Water  Volume of Release 5bbl Oil & 4 bbl Water  Volume Recovered: Not recoverable															
Source of Re	lease: Welli	nead valve op	en	·v			lour of Occurrence	c		Hour of Disc					
Was Immedia	ate Notice (		Ves [	] No 🔲 Not Re	quired	If YES, To				rr.					
By Whom?	C. Magan						lour: 2-24-13 app	- A.A.	nm.						
Was a Water		hed?					olume Impacting t								
, , as a water	course rout		Yes 🛚	] No											
If a Watercou	If a Watercourse was Impacted, Describe Fully.*														
Valve left op spray from the representative Describe Are On March 5 Roustabout of installed at a disposal. On white pin flat level of 1,00	Describe Cause of Problem and Remedial Action Taken.*  Valve left open by lease operator-On February 27, 2013, Mr. Bob Allen, SESI representative was onsite to assess the impacted area. Mr. Allen observed spray from the compressor traveling northeast of location approximately 360 ft., with no pooling areas. According to Mr. Mike Bratcher, NMOCD Artesia representative, and Mr. Allen's onsite conversation, a Micro blaze application will be applied over the entire impacted vegetation.  Describe Area Affected and Cleanup Action Taken.*  On March 5, 2013, SESI was onsite at the Bluestem Energy Flint #2 to obtain soil samples of the release area near the compressor. Back hoe and Roustabout erew of three were onsite excavating the release area removing all the staining to one and a half foot in depth. Three (3) auger holes were installed at a depth of two (2) ft. and soil samples were retrieved at that depth. The excavated soils were transported to an NMOCD approved facility for disposal. On March 8, 2013, SESI arrived at the Bluestem Flint #2 and set up equipment and divided the impacted spray area into three sections using white pin flags. The micro blaze application was applied on the impacted area. The results of the final sampling show all TPH levels to be below the target level of 1,000 ppm therefore, the excavation was backfilled with clean soils contoured to match the surrounding area. The secondary containment onsite was also free of all liquids.														
regulations a public health should their or or the enviro	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to	o report an acceptant accupately OCD accep	e is true and comp nd/or file certain note of a C-141 report investigate and rotance of a C-141	elease r ort by th emedia	notifications a le NMOCD m te contaminat	nd perform correct arked as "Final R on that pose a thr	tive act eport" c eat to gr	ions for rel loes not rel round wate	eases which ieve the oper r, surface wa	may en ator of ter, hui	idanger `liability man health			
	/;	K	۲.,				OIL CON	SERV	ATION	DIVISIO	N				
Signature:	1	1 /	محر,	<u> </u>											
Printed Name	2: Jim Masc	n				Approved by Environmental Specialist:									
Title: Operat	ions Manag	er				Approval Date: Ex				Date:					
E-mail Addre	ess:jmason(	hluestemene	rgy.com			Conditions of Approval:				Attached					
Date: 3/15/2 * Attach Addi				134 or 432.770.83	22										
Auach Muul	nonai Sile	CES IT INCUESS	ary												