

SITE INFORMATION

Report Type: Closure Report

General Site Information:				
Site:	Electra Federal #6			
Company:	COG Operating LLC			
Section, Township, and Range:	15	17S	30E	
Lease Number:	API# 30-015-34708			
County:	Eddy County, NM			
GPS:	N 32.83785°		W 103.96420°	
Surface Owner:	Federal			
Mineral Owner:				
Directions:	In Loco Hills, go North on CR 219 1.8 miles, turn East and go 0.6 mile, turn South and go 0.3 mile, turn left and go 0.1 mile to leak site on right.			

Release Data:	
Date Released:	10/17/2013
Type of Release:	Oil and produced water
Source of Contamination:	Steel flow line
Fluid Released:	2 bbls of oil and 10 bbls of produced water
Fluids Recovered:	1 bbls of oil and 8 bbls of produced water

Official Communication:		
Name:	Pat Ellis	Cliff Brunson
Company:	COG Operating LLC	BBC International, Inc.
Address:	550 W. Texas Ave., Ste. 1300	1324 W. Marland
PO Box:		PO Box 805
City, State, Zip Code:	Midland, TX 79701	Hobbs, NM 88241
Phone Number:	(432) 686-3023	(575) 397-6388
Fax:	(432) 684-7137	(575) 397-0397
Email:	pellis@conchoresources.com	cbrunson@bbcinternational.com

Ranking Criteria:		
Depth to Groundwater:	Ranking Score	Site Data
<50 ft.	20	
50-99 ft.	10	
>100 ft.	0	0

Well Head Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200	20	
Water Source >1,000 ft., Private >200	0	0

Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft. - 1,000 ft.	10	
>1,000 ft.	0	0

Total Ranking Score:	0
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NM OIL CONSERVATION
 ARTESIA DISTRICT
 JUN 06 2014

RECEIVED

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5000



COG Operating LLC

Electra Federal #6

(Release Date 10/17/2013)

**Unit E, Section 15, Township 17 South, Range 30 East
Eddy County, New Mexico**

GPS: N 32.83785° W 103.96420°

ENVIRONMENTAL SITE INVESTIGATION

CLOSURE REPORT

PERFORMED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
P. O. BOX 805
HOBBS, NEW MEXICO 88240
(575) 397-6388 • FAX (575) 397-0397

June 4, 2014

PREPARED FOR:

**MR. PAT ELLIS
MANAGER, HSE
COG OPERATING LLC
FASKEN CENTER TOWER II
550 WEST TEXAS AVENUE, SUITE 100
MIDLAND, TEXAS 79701**

Mr. Mike Bratcher
Compliance Officer
Oil Conservation Division, District 2
811 South First
Artesia, NM 88210

Re: Closure Report for COG Operating LLC, Electra Federal #6, Unit E,
Section 15, Township 17 South, Range 30 East, Eddy County, NM

1.0 SITE CHARACTERIZATION

The subject site is located East of Maljamar, NM, in Section 15, Township 17 South, and Range 30 East, Eddy County, New Mexico. The GPS coordinates are N 32.83785° W 103.96420°. The site consists of undeveloped rangeland and petroleum production facilities. On October 17, 2013, a leak occurred in a steel flow line. The spill measured roughly 65 feet in length and 15 feet in width. Approximately 2 bbls of oil and 10 bbls of produced water were released and 1 bbl of oil and 8 bbls of produced water were recovered.

A diagram of the location including the sample points can be reviewed in Appendix I of this report. The surface soil is tan or reddish sand with caliche and rock. There is no water source within 1,000 feet of this site. Based on the data from the Eddy County Groundwater Trend Map, the depth to groundwater in Section 15, Township 17 South, and Range 30 East is approximately 325 feet. The initial C-141 for the leak is at the end of this report in Appendix III.

2.0 SITE INVESTIGATION ACTIVITIES

On November 17, 2013, and November 18, 2013, BBC personnel conducted a delineation of the site using a hand auger. The site delineation occurred after initial spill response activities had been conducted by COG. Sample points were taken at 2 feet, 4 feet, 7 feet, 10 feet, and 14 feet at SP1. At SP2, sample points were taken at depths of 1 foot, 3 feet, 5 feet, and 7 feet. The samples were delivered to Cardinal Laboratories for BTEX, chloride content, and TPH analysis. The total BTEX results were as follows: For SP1, the results were 46 mg/Kg at 2 feet, 317 mg/Kg at 4 feet, 240 mg/Kg at 7 feet, 1.67 mg/Kg at 10 feet, and 2.37 mg/Kg at 14 feet. For SP2, the total BTEX results were 213 mg/Kg at 1 foot, 5.49 mg/Kg at 3 feet, 0.933 mg/Kg at 5 feet, and below reporting limits at 7 feet. Chloride content results at SP1 were 3,440 mg/Kg at 2 feet, 4,160 mg/Kg at 4 feet, 24,000 mg/Kg at 7 feet, 23,200 mg/Kg at 10 feet, and 8,240 mg/Kg at 14 feet. Chloride content results at SP2 were 272 mg/Kg at 1 foot, 448 mg/Kg at 3 feet, 352 mg/Kg at 5 feet, and 512 mg/Kg at 7 feet. TPH results for GRO content at SP1 were 1,150 mg/Kg at 2 feet, 3,590 mg/Kg at 4 feet, 2,730 mg/Kg at 7 feet, and below reporting limits at 10 feet and 14 feet. TPH results for GRO content at

SP2 were 4,790 mg/Kg at 1 foot, 91 mg/Kg at 3 feet, and below reporting limits at 5 feet and 7 feet. TPH results for DRO content at SP1 were 12,600 mg/Kg at 2 feet, 10,900 mg/Kg at 4 feet, 8,600 mg/Kg at 7 feet, 534 mg/Kg at 10 feet, and 469 mg/Kg at 14 feet. TPH results for DRO content at SP2 were 16,400 mg/Kg at 1 foot, 1,130 mg/Kg at 3 feet, 545 mg/Kg at 5 feet, and below reporting limits at 7 feet.

Upon review of the initial chloride results, it was determined that additional sampling would need to be completed at both sample points. Therefore, on December 19, 2013, using a backhoe, additional samples were conducted 16 feet and 18 feet at SP1 and at 9 feet, 10 feet, and 11 feet at SP2. The samples were taken to Cardinal Laboratories for chloride content sampling. The results of the analysis for SP1 were 4,640 mg/Kg at 16 feet and 5,360 mg/Kg at 18 feet. At SP2, the chloride content results were 704 mg/Kg at 9 feet, 352 mg/Kg at 10 feet, and 544 mg/Kg at 11 feet.

After reviewing these results, it was determined that a soil boring would need to be drilled to determine the bottom of the contamination at SP1. The soil boring was drilled and samples were taken at 20 feet, 30 feet, 40 feet, and 50 feet. The boring samples were sent to Cardinal Laboratories for chloride content sampling. The results of the chloride content for SB1 at SP1 were 144 mg/Kg at 20 feet, 80 mg/Kg at 30 feet, 48 mg/Kg at 40 feet, and 64 mg/Kg at 50 feet. The results of the analysis are located in Appendix II of this report. The sample point locations can be viewed on the site diagram in Appendix I of this report.

3.0 CONCLUSION AND RECOMMENDATION

On April 1, 2014, Cliff Brunson with BBC International met with Mike Bratcher of NMOCD to discuss the proposed remediation plan for this site. Mike Bratcher approved the plan during the meeting and the correspondence correlating this conversation can be located in Appendix IV of this report.

On April 6, 2014, the proposed remediation plan for this site was sent via email to Mike Burton of the BLM requesting his approval. Mr. Burton approved the plan via email on April 9, 2014 with one stipulation: the area should be seeded with BLM seed mix #2 upon completion of backfill. Email correspondence is located in Appendix IV of this report.

In accordance with the approved remediation plan, excavation was completed by removing the impacted soil to a depth of 7 feet around SP1 (SB1), then a compacted clay liner was installed. In the area around SP2, an excavation of 4 feet in depth was completed. The entire site was backfilled with clean soil.

Thus, BBC International requests closure of this site since all remediation activities have been completed as described in the approved plan. Also, a final C-141 is located in Appendix III of this report.

APPENDIX I

Site Diagram

November 2013

Electra Federal #6 (10/17/2013)

Unit E, Section 15, Township 17 South, Range 30 East
Eddy County, NM
GPS: N 32.83785° W 103.96420°

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.



COG

Electra Federal #6



Pumping
Unit

Different
Location

Road

SP1

Leak point

Stake

SP2

SB1

7' excavation,
backfill to 4', then
place a liner

4'
excavation

Road

Different
Location



Electra Federal #6
Location

NW ¼, Section 15, T17S, R30E
Eddy County, NM
N 32.83785° W 103.96420° at stake
API# 30-015-34708

BBC International, Inc.

COG

Electra Federal #6

Date: 11/20/2013

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2013

Groundwater Plot

COG Electra Fed #6

County
Eddy

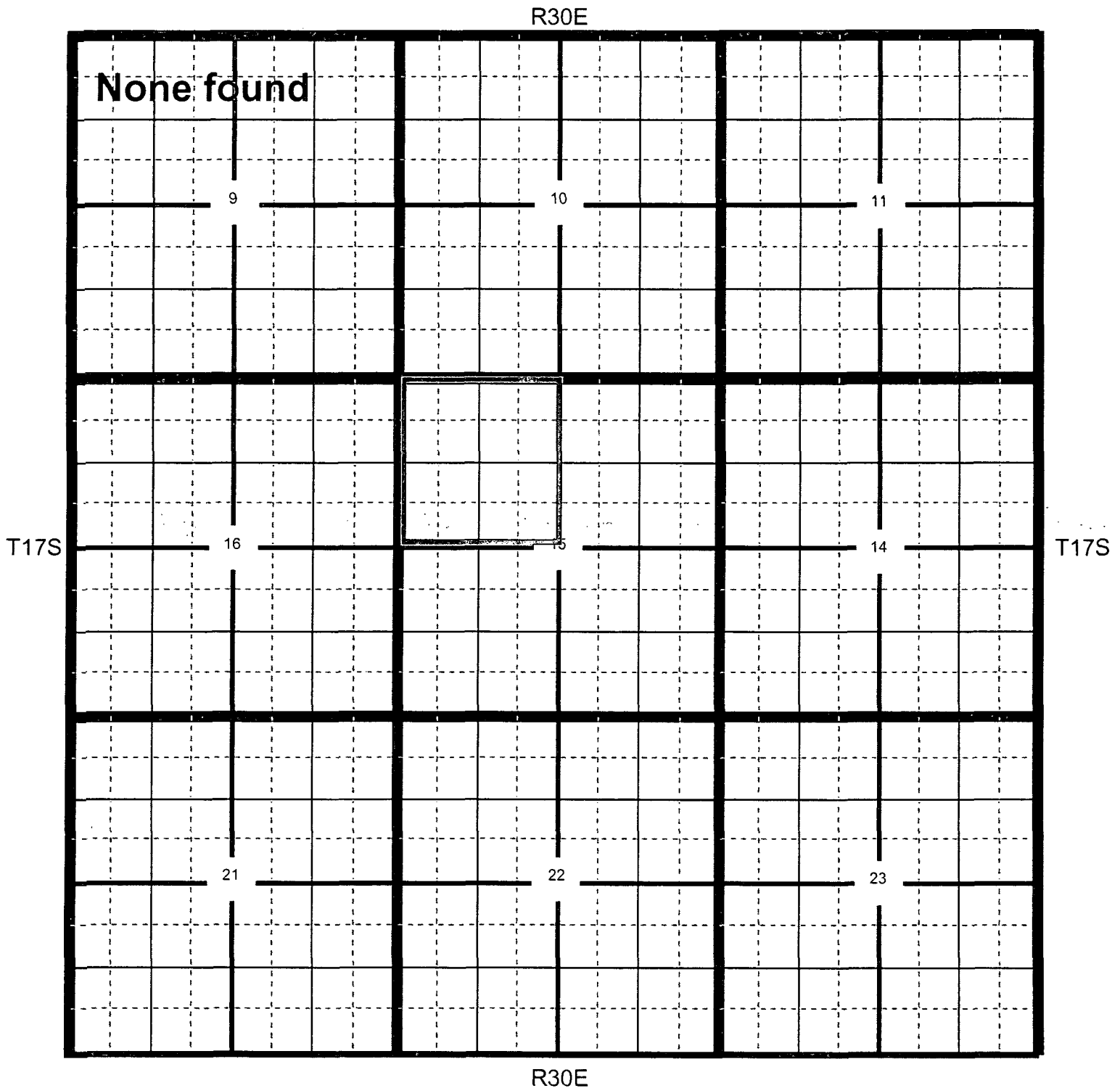
Unit Letter
NW ¼

Section
15

Township
17S

Range
30E

Trend Map 325'



⊙ Location

○ OCD

○ USGS

○ SEO

● All Databases

COG Electra Federal #6

County
Eddy

Unit Letter
NW ¼

Section
15

Township
17S

Range
30E

Trend Map 325'

1

2

NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

⊙ Location

○ OCD

○ USGS

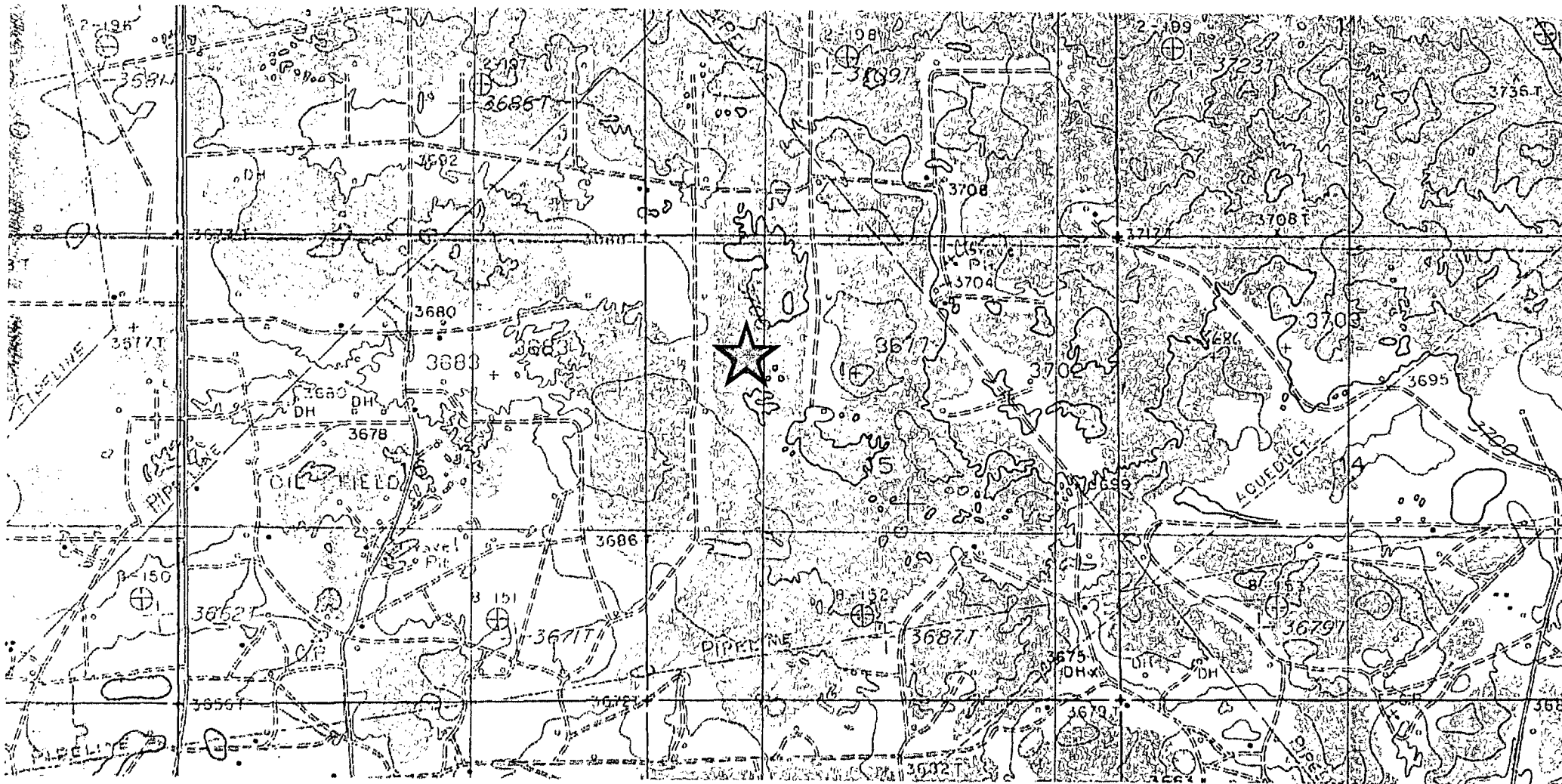
○ SEO

⊙ All Databases

026217-934

COG

Electra Federal #6





1997

Imagery Date: 3/2/2012 32950715.67° N 10945750.51° W elev: 3704



APPENDIX II

Laboratory Analytical Results

November 2013, December 2013, and March 2014

Electra Federal #6 (10/17/2013)

Unit E, Section 15, Township 17 South, Range 30 East
Eddy County, NM
GPS: N 32.83785° W 103.96420°

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

Laboratory Analytical Results Summary
COG, Electra Federal #6

		Sample	SP1 @ 2'	SP1 @ 4'	SP1 @ 7'	SP1 @ 10'	SP1 @ 14'	SP1 @ 16'	SP1 @ 18'
Analyte	Method	Date	11/17/13	11/18/13	11/18/13	11/18/13	11/18/13	12/19/13	12/19/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	6.31	4.32	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		9.72	70.1	57.3	0.121	0.142	n/a	n/a
Ethylbenzene	BTEX 8021B		13.8	94.4	71.7	0.507	0.729	n/a	n/a
Total Xylenes	BTEX 8021B		22.4	147	107	1.04	1.5	n/a	n/a
Total BTEX	BTEX 8021B		46	317	240	1.67	2.37	n/a	n/a
Chloride	SM4500Cl-B		3440	4160	24000	23200	8240	4640	5360
GRO	TPH 8015M		1150	3590	2730	<50.0	<50.0	n/a	n/a
DRO	TPH 8015M		12600	10900	8600	534	469	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 9'	SP2 @ 10'	SP2 @ 11'
Analyte	Method	Date	11/17/13	11/18/13	11/18/13	11/18/13	12/19/13	22/19/13	12/19/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<5.00	<0.100	<0.100	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		49.3	0.541	0.071	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		62.6	1.68	0.286	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		101	3.27	0.576	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		213	5.49	0.933	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		272	448	352	512	704	352	544
GRO	TPH 8015M		4790	91	<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		16400	1130	545	<10.0	n/a	n/a	n/a

Laboratory Analytical Results Summary
Electra Federal #6

		Sample	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'
Analyte	Method	Date	3/21/14	3/21/14	3/21/14	3/21/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		144	80	48	64

December 02, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ELECTRA FEDERAL #6

Enclosed are the results of analyses for samples received by the laboratory on 11/21/13 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

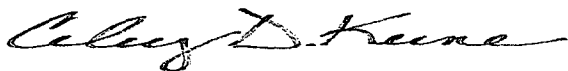
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/17/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 2 FT (H302847-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/24/2013	ND	2.10	105	2.00	2.47	
Toluene*	9.72	1.00	11/24/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	13.8	1.00	11/24/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	22.4	3.00	11/24/2013	ND	6.09	101	6.00	3.20	
Total BTEX	46.0	6.00	11/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 172 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	12/02/2013	ND	416	104	400	3.92	
TPH 8015M									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1150	200	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	12600	200	11/23/2013	ND	194	97.2	200	6.27	


Surrogate: 1-Chlorooctane 164 % 65.2-140

Surrogate: 1-Chlorooctadecane 269 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 4 FT (H302847-02)

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	6.31	5.00	11/24/2013	ND	2.10	105	2.00	2.47		
Toluene*	70.1	5.00	11/24/2013	ND	2.07	103	2.00	1.65		
Ethylbenzene*	94.4	5.00	11/24/2013	ND	2.10	105	2.00	3.71		
Total Xylenes*	147	15.0	11/24/2013	ND	6.09	101	6.00	3.20		
Total BTEX	317	30.0	11/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	12/02/2013	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
									S-06	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3590	200	11/23/2013	ND	193	96.5	200	2.46		
DRO >C10-C28	10900	200	11/23/2013	ND	194	97.2	200	6.27		

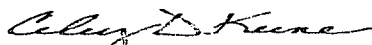
Surrogate: 1-Chlorooctane 193 % 65.2-140

Surrogate: 1-Chlorooctadecane 234 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 7 FT (H302847-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.32	2.00	11/24/2013	ND	2.10	105	2.00	2.47	
Toluene*	57.3	2.00	11/24/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	71.7	2.00	11/24/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	107	6.00	11/24/2013	ND	6.09	101	6.00	3.20	
Total BTEX	240	12.0	11/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 127 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	12/02/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2730	100	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	8600	100	11/23/2013	ND	194	97.2	200	6.27	

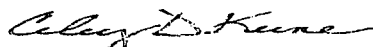
Surrogate: 1-Chlorooctane 170 % 65.2-140

Surrogate: 1-Chlorooctadecane 205 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 10 FT (H302847-04)

BTEX 80218		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2013	ND	2.10	105	2.00	2.47		
Toluene*	0.121	0.050	11/24/2013	ND	2.07	103	2.00	1.65		
Ethylbenzene*	0.507	0.050	11/24/2013	ND	2.10	105	2.00	3.71		
Total Xylenes*	1.04	0.150	11/24/2013	ND	6.09	101	6.00	3.20		
Total BTEX	1.67	0.300	11/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 144 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23200	16.0	12/02/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/23/2013	ND	193	96.5	200	2.46		
DRO >C10-C28	534	50.0	11/23/2013	ND	194	97.2	200	6.27		

Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 14 FT (H302847-05)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2013	ND	2.10	105	2.00	2.47	
Toluene*	0.142	0.050	11/24/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	0.729	0.050	11/24/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	1.50	0.150	11/24/2013	ND	6.09	101	6.00	3.20	
Total BTEX	2.37	0.300	11/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	12/02/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	469	50.0	11/23/2013	ND	194	97.2	200	6.27	

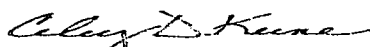
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 1 FT (H302847-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	11/24/2013	ND	2.10	105	2.00	2.47		
Toluene*	49.3	5.00	11/24/2013	ND	2.07	103	2.00	1.65		
Ethylbenzene*	62.6	5.00	11/24/2013	ND	2.10	105	2.00	3.71		
Total Xylenes*	101	15.0	11/24/2013	ND	6.09	101	6.00	3.20		
Total BTEX	213	30.0	11/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/02/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4790	100	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	16400	100	11/23/2013	ND	194	97.2	200	6.27	


Surrogate: 1-Chlorooctane 219 % 65.2-140

Surrogate: 1-Chlorooctadecane 203 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 3 FT (H302847-07)

BTEX 8021B			mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	11/24/2013	ND	2.10	105	2.00	2.47		
Toluene*	0.541	0.100	11/24/2013	ND	2.07	103	2.00	1.65		
Ethylbenzene*	1.68	0.100	11/24/2013	ND	2.10	105	2.00	3.71		
Total Xylenes*	3.27	0.300	11/24/2013	ND	6.09	101	6.00	3.20		
Total BTEX	5.49	0.600	11/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 169 % 89.4-126

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/02/2013	ND	416	104	400	3.92	
TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	91.0	50.0	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	1130	50.0	11/23/2013	ND	194	97.2	200	6.27	

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/02/2013	ND	416	104	400	3.92	
TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	91.0	50.0	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	1130	50.0	11/23/2013	ND	194	97.2	200	6.27	

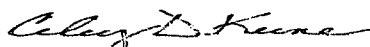
Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.7 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 5 FT (H302847-08)

BTEX 80218		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2013	ND	2.10	105	2.00	2.47	
Toluene*	0.071	0.050	11/24/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	0.286	0.050	11/24/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	0.576	0.150	11/24/2013	ND	6.09	101	6.00	3.20	
Total BTEX	0.933	0.300	11/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 140 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/02/2013	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	545	50.0	11/23/2013	ND	194	97.2	200	6.27	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/23/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	545	50.0	11/23/2013	ND	194	97.2	200	6.27	

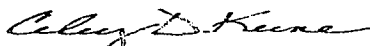
Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/18/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 7 FT (H302847-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2013	ND	2.10	105	2.00	2.47		
Toluene*	<0.050	0.050	11/24/2013	ND	2.07	103	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/24/2013	ND	2.10	105	2.00	3.71		
Total Xylenes*	<0.150	0.150	11/24/2013	ND	6.09	101	6.00	3.20		
Total BTEX	<0.300	0.300	11/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	12/02/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	193	96.5	200	2.46	
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	194	97.2	200	6.27	

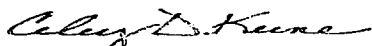
Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

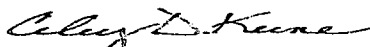
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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 SM4500Cl-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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10f

Page 12 of 12

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:																						
Address: P.O. Box 805				Company:																						
City: Hobbs		State: NM Zip: 88241		Attn:																						
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>Same</i>																						
Project #:		Project Owner: <i>C06</i>		City:																						
Project Name: <i>Electra Fed #6</i>				State: Zip:																						
Project Location: <i>Loco Hills</i>				Phone #:																						
Sampler Name: <i>Gary Ray</i>				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV			SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<i>H302847</i>																										
	<i>1 SP2@ 2ft ✓</i>	<i>6</i>	<i>2</i>			<i>X</i>				<i>X</i>			<i>11-17-13</i>	<i>9:58</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>2 SP2@ 4ft ✓</i>	<i>6</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>9:00</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>3 SP2@ 7ft ✓</i>	<i>6</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>9:48</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>4 SP2@ 10ft ✓</i>	<i>6</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>10:25</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>5 SP2@ 14ft ✓</i>	<i>6</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>11:33</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>6 SP2@ 2ft ✓</i>	<i>6</i>	<i>2</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>11:45</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>7 SP2@ 3ft ✓</i>	<i>6</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>2:00</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>8 SP2@ 5ft ✓</i>	<i>6</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>1:38</i>	<i>X</i>	<i>X</i>	<i>X</i>									
	<i>9 SP2@ 7ft ✓</i>	<i>6</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-18-13</i>	<i>2:00</i>	<i>X</i>	<i>X</i>	<i>X</i>									

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Relinquished By:	Date: <i>11/21/13</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>8:00am</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>11/21/13</i>	Received By: <i>Jodi Nenson</i>	REMARKS:	
	Time: <i>11:05</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	(Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

January 06, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ELECTRA FEDERAL #6

Enclosed are the results of analyses for samples received by the laboratory on 12/23/13 16:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

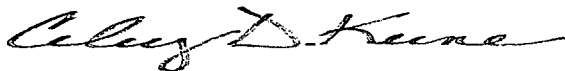
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	12/23/2013	Sampling Date:	12/19/2013
Reported:	01/06/2014	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 16 FT (H303120-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	12/31/2013	ND	400	100	400	11.3		

Sample ID: SP 1 @ 18 FT (H303120-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	01/02/2014	ND	400	100	400	11.3	

Sample ID: SP 2 @ 9 FT (H303120-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/02/2014	ND	400	100	400	11.3	

Sample ID: SP 2 @ 10 FT (H303120-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/02/2014	ND	400	100	400	11.3	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	12/23/2013	Sampling Date:	12/19/2013
Reported:	01/06/2014	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

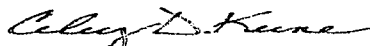
Sample ID: SP 2 @ 11 FT (H303120-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	01/02/2014	ND	400	100	400	11.3		

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

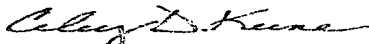
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

••

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:															
Address: P.O. Box 805				Company:															
City: Hobbs		State: NM Zip: 88241		Attn:															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>Same</i>															
Project #:		Project Owner: <i>CDG</i>		City:															
Project Name: <i>Electra Fed #6</i>				State: Zip:															
Project Location: <i>Loco Hills</i>				Phone #:															
Sampler Name:				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G/RAB OR C/OMP)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
<i>H303120</i>																			
<i>1 SP2@ 16ft</i>		<i>6</i>	<i>2</i>			<i>X</i>				<i>X</i>			<i>12-19-13</i>	<i>1:30</i>	<i>X</i>				
<i>2 SP2@ 18ft</i>		<i>6</i>	<i>2</i>			<i>X</i>				<i>X</i>			<i>12-19-13</i>	<i>2:00</i>	<i>X</i>				
<i>3 SP2@ 9ft</i>		<i>6</i>	<i>2</i>			<i>X</i>				<i>X</i>			<i>12-19-13</i>	<i>2:38</i>	<i>X</i>				
<i>4 SP2@ 10ft</i>		<i>6</i>	<i>2</i>			<i>X</i>				<i>X</i>			<i>12-19-13</i>	<i>2:52</i>	<i>X</i>				
<i>5 SP2@ 11ft</i>		<i>6</i>	<i>2</i>			<i>X</i>				<i>X</i>			<i>12-19-13</i>	<i>3:10</i>	<i>X</i>				

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Relinquished By:	Date: <i>12-23-13</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>[Signature]</i>	Time: <i>4:59</i>	<i>Jodi Henson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>[Signature]</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

March 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ELECTRA FEDERAL #6

Enclosed are the results of analyses for samples received by the laboratory on 03/25/14 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

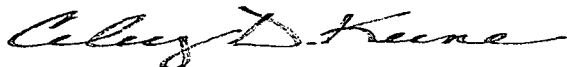
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/25/2014	Sampling Date:	03/21/2014
Reported:	03/31/2014	Sampling Type:	Soil
Project Name:	ELECTRA FEDERAL #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SB 1 @ 20' (H400875-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/28/2014	ND	416	104	400	3.77		

Sample ID: SB 1 @ 30' (H400875-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 1 @ 40' (H400875-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2014	ND	416	104	400	3.77	

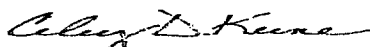
Sample ID: SB 1 @ 50' (H400875-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/28/2014	ND	416	104	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

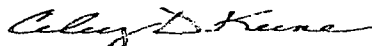
Notes and Definitions

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 SM4500Cl-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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Celey D. Keene, Lab Director/Quality Manager

APPENDIX III

C-141

October 2013 and June 2014

Electra Federal #6 (10/17/2013)

Unit E, Section 15, Township 17 South, Range 30 East
Eddy County, NM
GPS: N 32.83785° W 103.96420°

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

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

OPERATOR

☒ Initial Report ☐ Final Report

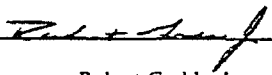
Name of Company	COG OPERATING LLC	Contact	Robert McNeill
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Electra Fed #006	Facility Type	Flowline
Surface Owner	Federal	Mineral Owner	
		Lease No. (API#)	30-015-34708

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	15	17S	30E					Eddy

Latitude 32 47.631 Longitude 103 57.740

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	2bbls of oil 10bbls of produced water	Volume Recovered	1bbl of oil 8bbls of produced water
Source of Release	Steel flowline	Date and Hour of Occurrence	10-17-2013	Date and Hour of Discovery	10-17-2013 08:00am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.*					
A hole developed in the steel line due to corrosion. Shut in well and replaced the joint of steel pipe.					
Describe Area Affected and Cleanup Action Taken.*					
Initially an estimated 2bbls of oil and 10bbls of produced water were released from a corroded 3" steel line. We were able to recover 1bbl of oil and 8bbls of produced water with a vacuum truck. The spill area is located in the pasture. BBC will sample the spill site area to delineate any possible contamination from the release and we will present a work plan to the BLM/NMOCD for approval prior to any significant remediation work.					
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: Robert Grubbs Jr.		Approved by District Supervisor:			
Title: Senior Environmental Coordinator		Approval Date:		Expiration Date:	
E-mail Address: rgrubbs@concho.com		Conditions of Approval:			Attached <input type="checkbox"/>
Date: 10-31-2013 Phone: 432-661-6601					

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
220 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 August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Electra Federal #006	Facility Type	Flow line

Surface Owner	Federal	Mineral Owner		API No.	30-015-34708
---------------	---------	---------------	--	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	15	17S	30E					Eddy

Latitude N 32.83785° Longitude W 103.96420°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	2 bbl of oil, 10 bbls of produced water	Volume Recovered	1 bbl of oil, 8 bbls of produced water
Source of Release	Steel flow line	Date and Hour of Occurrence	10/17/2013	Date and Hour of Discovery	10/17/2013 @ 8:00 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Michelle Mullins	Date and Hour	10/28/2013 @ 7:42 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 06 2014

Describe Cause of Problem and Remedial Action Taken.*

A hole developed in the steel line due to corrosion. Shut in well and replaced the joint of steel pipe.

RECEIVED

Describe Area Affected and Cleanup Action Taken.*

Initially an estimated 2 bbls of oil and 10 bbls of produced water were released from a corroded 3" steel line. We were able to recover 1 bbl of oil and 8 bbls of produced water with a vacuum truck. The spill area is located in the pasture. BBC completed remediation in accordance with the remediation plan approved by Mike Bratcher of NMOCD in a meeting on 04/01/2014 and approved by Mike Burton of the BLM via email on 04/08/2014.

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

Signature: 

Printed Name: Robert Grubbs

Approved by Environmental Specialist:

Title: Senior Environmental Coordinator

Approval Date:

Expiration Date:

E-mail Address: rgrubbs@concho.com

Conditions of Approval:

Attached ☐

Date: 6-4-14 Phone: (432) 661-6601

* Attach Additional Sheets If Necessary

APPENDIX IV

Correspondence

April 2014

Electra Federal #6 (10/17/2013)

Unit E, Section 15, Township 17 South, Range 30 East
Eddy County, NM
GPS: N 32.83785° W 103.96420°

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

Jennifer Gilkey

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Sunday, April 06, 2014 4:50 PM
To: Mike Bratcher
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: COG (Concho) Electra Federal #6-Remediation Plan
Attachments: Remediation Packet.pdf

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, COG (Concho) will excavate to a depth of 7 feet in the leak area around SP1 and SB1 and then a compacted clay liner will be installed as is depicted on the attached site diagram. In the area around SP2, the excavation will be 4 feet. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Jennifer Gilkey

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Sunday, April 06, 2014 4:50 PM
To: Mike Burton
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: COG (Concho) Electra Federal #6-Remediation Plan
Attachments: Remediation Packet.pdf

Mike,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. COG (Concho) will excavate to a depth of 7 feet in the leak area around SP1 and SB1 and then a compacted clay liner will be installed as is depicted on the attached site diagram. In the area around SP2, the excavation will be 4 feet. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0305 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Jennifer Gilkey

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Wednesday, April 09, 2014 7:40 AM
To: Robert Grubbs
Cc: Ken Swinney; Jennifer Gilkey; Kathy Purvis; Michelle Mullins
Subject: FW: COG (Concho) Electra Federal #6-Remediation Plan

Robert,

Please see the BLM's approval of the remediation plan below.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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From: Mike Burton <mburton@blm.gov>
Date: Tuesday, April 8, 2014 8:14 PM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Subject: Re: COG (Concho) Electra Federal #6-Remediation Plan

Cliff,

This plan is approved. Seed with BLM seed mix #2. Keep myself informed of any changing conditions of this plan.

Thanks

Mike Burton
BLM-CFO
Environmental Protection Specialist
575-234-2226 office
575-361-3574 cell
mburton@blm.gov

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On Sun, Apr 6, 2014 at 4:49 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Mike,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. COG (Concho) will excavate to a depth of 7 feet in the leak area around SP1 and SB1 and then a compacted clay liner will be installed as is depicted on the attached site diagram. In the area around SP2, the excavation will be 4 feet. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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