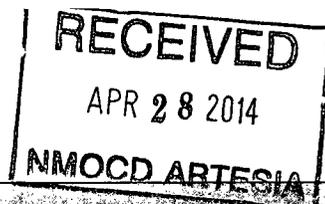


Closure Report



Site Description	
Site Name:	MC State #001
Company:	COG Operating LLC
Legal Description:	U/L J, Section 23, T17S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.81977° W 104.14622°

Release Data	
Date of Release:	11/09/2013
Type of Release:	Produced water
Source of Release:	Main produced water line
Volume of Release:	8 bbls
Volume Recovered:	2 bbls

Remediation Specifications	
Remediation Parameters:	Excavate across the entire leak site to a depth of 1 foot. Then, backfill the site with clean soil.
Remediation Activities:	04/02/2014 and 04/07/2014

Plan Sent to OCD:	02/25/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	Verbal	Verbal approval from Mike Bratcher
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation	
Initial C-141	Signed 11/14/2014
Final C-141	Signed 04/22/2014
Site Diagram	December 2013
Groundwater Plot	100'
TOPO Maps	December 2013
Lab Summary	11/27/2013
Lab Analysis	11/27/2013
Correspondence	Request and approval of remediation plan via email

Request for Closure	
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.	
Cliff Brunson, President of BBC International Inc.	04/24/2014

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	MC State #001	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	
		Lease No. (API#) 30-015-25118	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	17S	28E					Eddy

Latitude 32.81976 Longitude 104.14595

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	8bbls	Volume Recovered	2bbls
Source of Release	Main produced water line	Date and Hour of Occurrence	11-09-2013	Date and Hour of Discovery	11-09-2013 07:00am
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 45 connection from the water pump failed. Replacer the 45 connection to prevent a reoccurrence.

Describe Area Affected and Cleanup Action Taken.*

Initially an estimated 8bbls were released due to a faulty 45 connection from the water pump. We were able to recover 2bbls with a vacuum truck. All free fluids have been recovered. The spill was located inside the facility walls and the adjacent 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 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.

OIL CONSERVATION DIVISION

Signature:		Approved by District Supervisor:	
Printed Name:	Robert Grubbs Jr.	Approval Date:	Expiration Date:
Title:	Senior Environmental Coordinator	Conditions of Approval:	
E-mail Address:	rgrubbs@concho.com	Attached <input type="checkbox"/>	
Date:	11-14-2013	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 Brzoz Road, Aztec, NM 87410
District IV
100 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	Robert McNeill
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	MC State #001	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	API No. 30-015-25118

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	17S	28E					Eddy

Latitude N 32.81976° Longitude W 104.14595°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	8 bbls	Volume Recovered	2 bbls
Source of Release	Main produced water line	Date and Hour of Occurrence	11/09/2013	Date and Hour of Discovery	11/09/2013 @ 07:00 am
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.			

.. a Watercourse was Impacted, Describe Fully.*

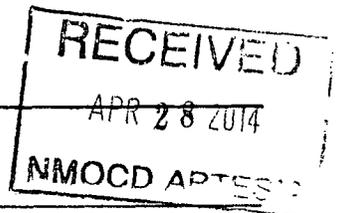
Describe Cause of Problem and Remedial Action Taken.*

A 45 connection from the water pump failed. Replaced the 45 connection to prevent recurrence.

Describe Area Affected and Cleanup Action Taken.*

Initially an estimated 8 bbls were released due to a faulty 45 connection from the water pump. We were able to recover 2 bbls with a vacuum truck. All free fluids have been recovered. The spill was located inside the facility walls and the adjacent pasture. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD.

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: <i>Robert Grubbs Jr.</i>		OIL CONSERVATION DIVISION	
Printed Name: Robert Grubbs Jr.		Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator		Approval Date:	Expiration Date:
mail Address: rgrubbs@concho.com		Conditions of Approval:	
Date: 4-22-14	Phone: (432) 661-6601	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



COG

MC State #001

Flow Lines



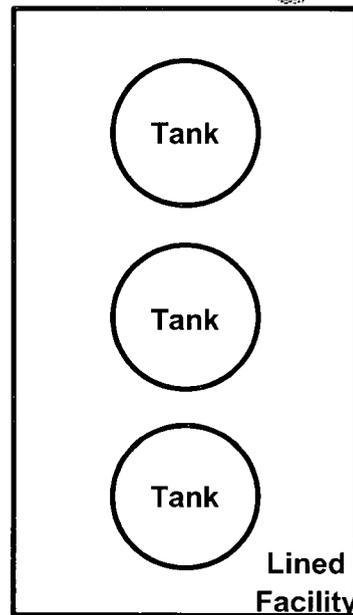
SP2
X

Leak Area
100' x 25'

Caliche
Road

SP1
X

+ Leak Point



Produced
water line

U/L J, Section 23, T17S, R28E
2310' FSL and 2310' FEL
Eddy County, NM
GPS: N 32.81977° W 104.14622°
API# 30-015-25118

BBC International, Inc.	
COG	
MC State #001	
Date: 12/06/2013	DRWG by: K. Purvis
NOT TO SCALE	File: COG 2013



Groundwater Plot

COG MC State #001

County
Eddy

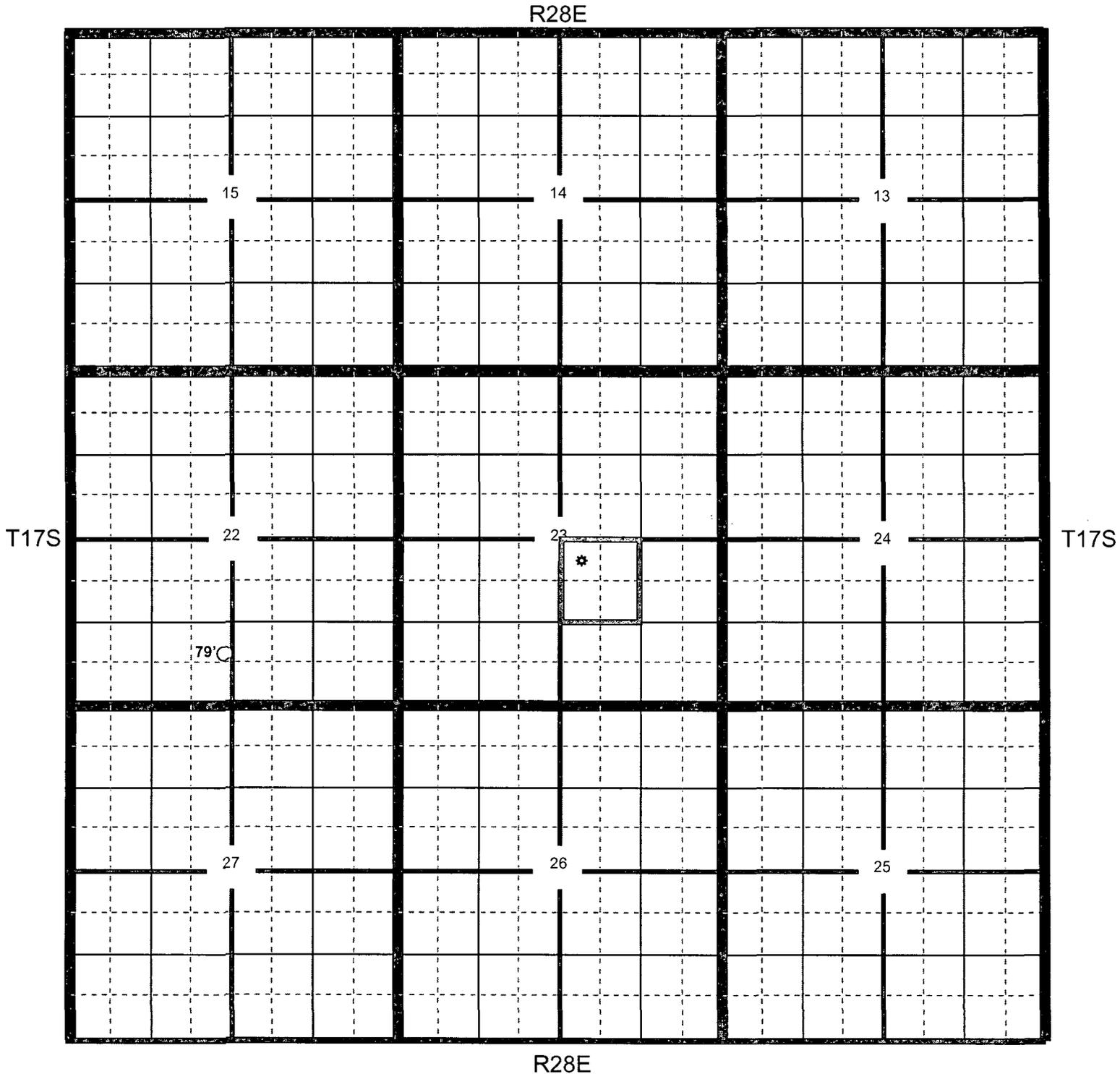
Unit Letter
J

Section
23

Township
17S

Range
28E

Trend Map 100'



⊛ Location

○ OCD

○ USGS

○ SEO

● All Databases

COG MC State #001

County Eddy Unit Letter J Section 23 Township 17S Range 28E

Trend Map 100'

1

2

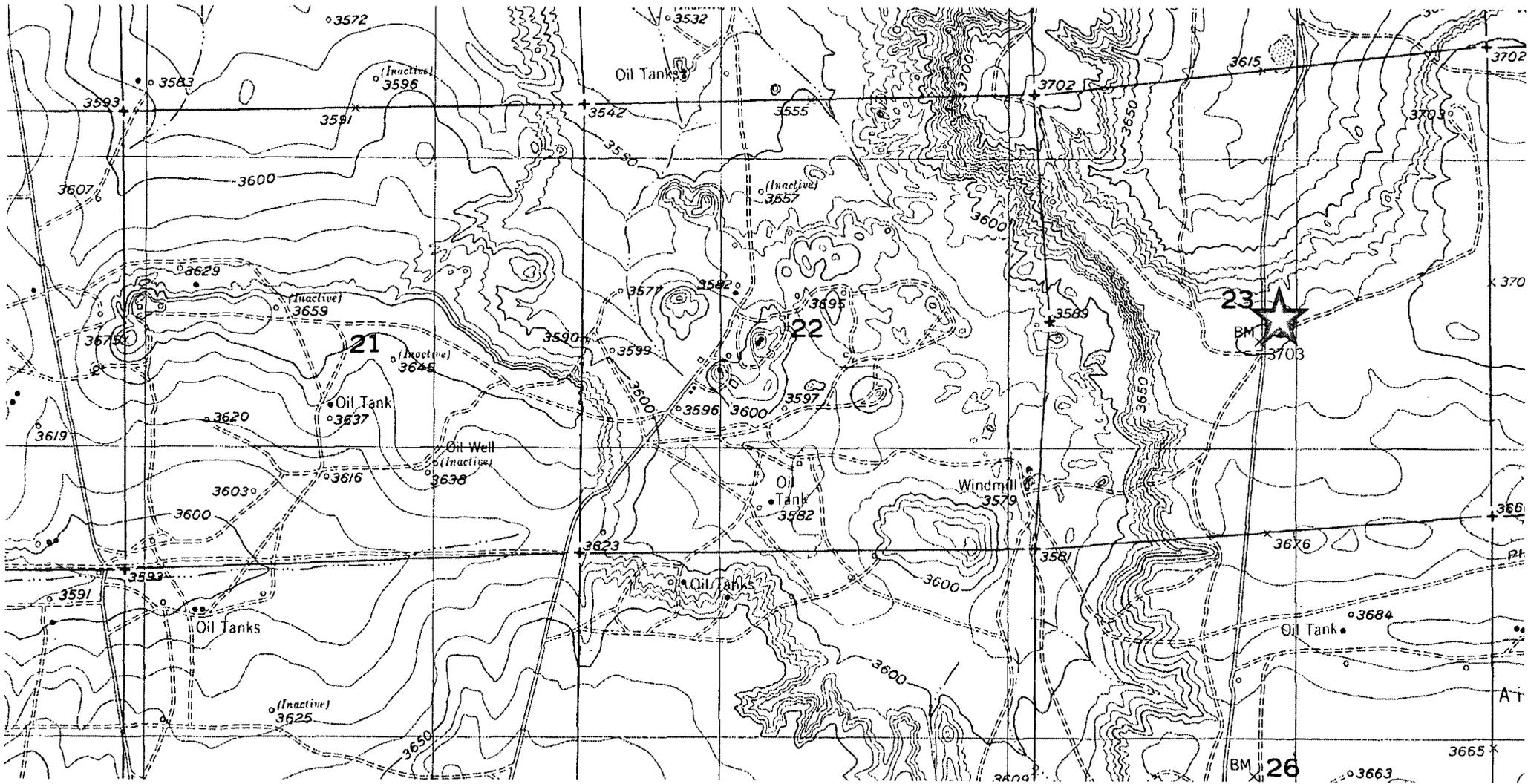
NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE ☼	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter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

3

4

COG

MC State #001



**Laboratory Analytical Results Summary
COG, MC State #1**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	11/27/13	11/27/13	11/27/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		8080	256	432
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP2 @ 1'
Analyte	Method	Date	11/27/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		704
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Analytical Results For:

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

 Received: 11/27/2013
 Reported: 12/04/2013
 Project Name: MC STATE #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/27/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 FT (H302909-01)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2013	ND	2.12	106	2.00	0.201		
Toluene*	<0.050	0.050	12/03/2013	ND	2.11	105	2.00	0.713		
Ethylbenzene*	<0.050	0.050	12/03/2013	ND	2.09	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	12/03/2013	ND	6.23	104	6.00	0.369		
Total BTEX	<0.300	0.300	12/03/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8080	16.0	12/04/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/03/2013	ND	183	91.3	200	5.07		
DRO >C10-C28	<10.0	10.0	12/03/2013	ND	178	89.0	200	6.11		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Sample ID: SP 1 @ 2 FT (H302909-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/04/2013	ND	400	100	400	0.00		

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:	11/27/2013	Sampling Date:	11/27/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	MC STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3 FT (H302909-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/04/2013	ND	400	100	400	0.00		

Sample ID: SP 2 @ 1 FT (H302909-04)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2013	ND	2.12	106	2.00	0.201		
Toluene*	<0.050	0.050	12/03/2013	ND	2.11	105	2.00	0.713		
Ethylbenzene*	<0.050	0.050	12/03/2013	ND	2.09	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	12/03/2013	ND	6.23	104	6.00	0.369		
Total BTEX	<0.300	0.300	12/03/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	704	16.0	12/04/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/03/2013	ND	183	91.3	200	5.07		
DRO >C10-C28	<10.0	10.0	12/03/2013	ND	178	89.0	200	6.11		

Surrogate: 1-Chlorooctane 92.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.7 % 63.6-154

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

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:																							
Project #:		Project Owner: COB		City: <i>Same</i>																							
Project Name: <i>MC State #1</i>				State: Zip:																							
Project Location: <i>Loco Hills</i>				Phone #:																							
Sampler Name: <i>Gary RA</i>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D. <i>H302909</i>		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX														PRESERV			SAMPLING		<i>Cliff</i>	<i>TPH</i>	<i>D-TEX</i>
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											

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 the client for the 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 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Gary RA</i>		Date: <i>11-27-13</i>	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>2:50</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: <i>[Signature]</i>	
Sampler - UPS - Bus - Other: <i>40</i>			Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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

#54

SITE INFORMATION

Report Type: Remediation Plan

General Site Information:			
Site:	MC State #001		
Company:	COG Operating LLC		
Section, Township, and Range:	23	17S	28E
Lease Number:	API# 30-015-25118		
County:	Eddy County, NM		
GPS:	N 32.81977°	W 104.14622°	
Surface Owner:	State		
Mineral Owner:			
Directions:	In Loco Hills, go West on Hwy 82 for 10 miles between MM123 and MM122, turn right and go North on Turkey Track Rd (CR 209) for 1.3 miles to location.		

Release Data:	
Date Released:	11/9/2013
Type of Release:	Produced water
Source of Contamination:	Main produced water line
Fluid Released:	8 bbls
Fluids Recovered:	2 bbls

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
-----------------------------	----------

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

*Remediation
Plan RY13A*



COG Operating LLC

MC State #001

(Release Date 11/9/2013)

**Unit J, Section 23, Township 17 South, Range 28 East
Eddy County, New Mexico
GPS: N 32.81977° W 104.14622°**

ENVIRONMENTAL SITE INVESTIGATION

WORK PLAN 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

February 10, 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: Work plan for COG Operating LLC, MC State #001, Unit J, Section 23,
Township 17 South, Range 28 East, Eddy County, NM

1.0 SITE CHARACTERIZATION

The subject site is located East of Artesia, NM, in Section 23, Township 17 South, and Range 28 East, Eddy County, New Mexico. The GPS coordinates are N 32.81977° W 104.14622°. The site consists of undeveloped rangeland and petroleum production facilities. On November 9, 2013, a leak occurred at the main produced water line. The spill measured roughly 100 feet in length and 25 feet in width. Approximately 8 bbls of produced water were released and 2 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 light brown 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 23, Township 17 South, and Range 28 East is approximately 100 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 27, 2013, BBC personnel conducted a delineation of the site. The site delineation occurred after initial spill response activities had been conducted by COG. Sample points were taken at 1 foot, 2 feet, and 3 feet in the area of SP1. And, at SP2, one sample was taken at 1 foot. The samples were delivered to Cardinal Laboratories for BTEX, chloride content, and TPH analysis. Only the samples taken at the 1 foot depth were sample for BTEX and TPH and all results came back below reporting limits. All samples were tested for chloride content. The chloride results for SP1 were 8,080 mg/Kg at 1 foot, 256 mg/Kg at 2 feet, and 432 mg/Kg at 3 feet. At SP2, the chloride result was 704 mg/Kg at 1 foot.

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

After review of the analysis and the information gathered during the investigation conducted by BBC International, the following remediation plan is recommended. As depicted on the attached site drawing, it is recommended that the leak area would require the excavation of impacted soil to a depth of 1 foot below ground surface. The excavated soil would be transported to an OCD-approved disposal facility and the site would be backfilled with an appropriate top soil. Once the remediation plan is approved by NMOCD, BBC would carry out the activities, complete a closure report, and submit a final C-141.

APPENDIX I

Site Diagram
December 2013

MC State #001 (11/09/2013)

Unit J, Section 23, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32.81977° W 104.14622°

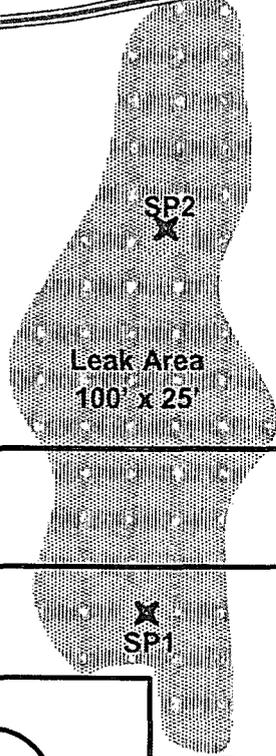
Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

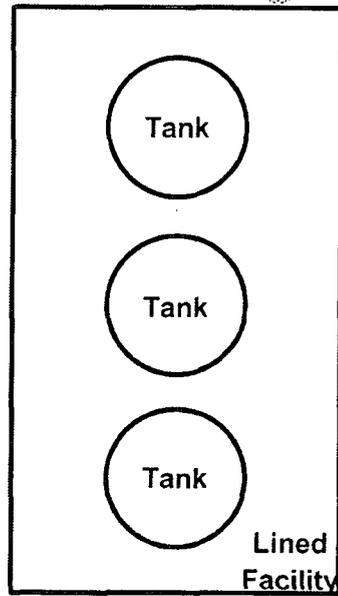


COG
MC State #001

Flow Lines



Caliche
Road



Leak Point

Produced
water line

U/L J, Section 23, T17S, R28E
2310' FSL and 2310' FEL
Eddy County, NM
GPS: N 32.81977° W 104.14622°
API# 30-015-25118

BBC International, Inc.	
COG	
MC State #001	
Date: 12/06/2013	DRWG by: K. Purvis
NOT TO SCALE	File: COG 2013



209

Turley Tract Rd

© 2013 Google

GOOGL

1996

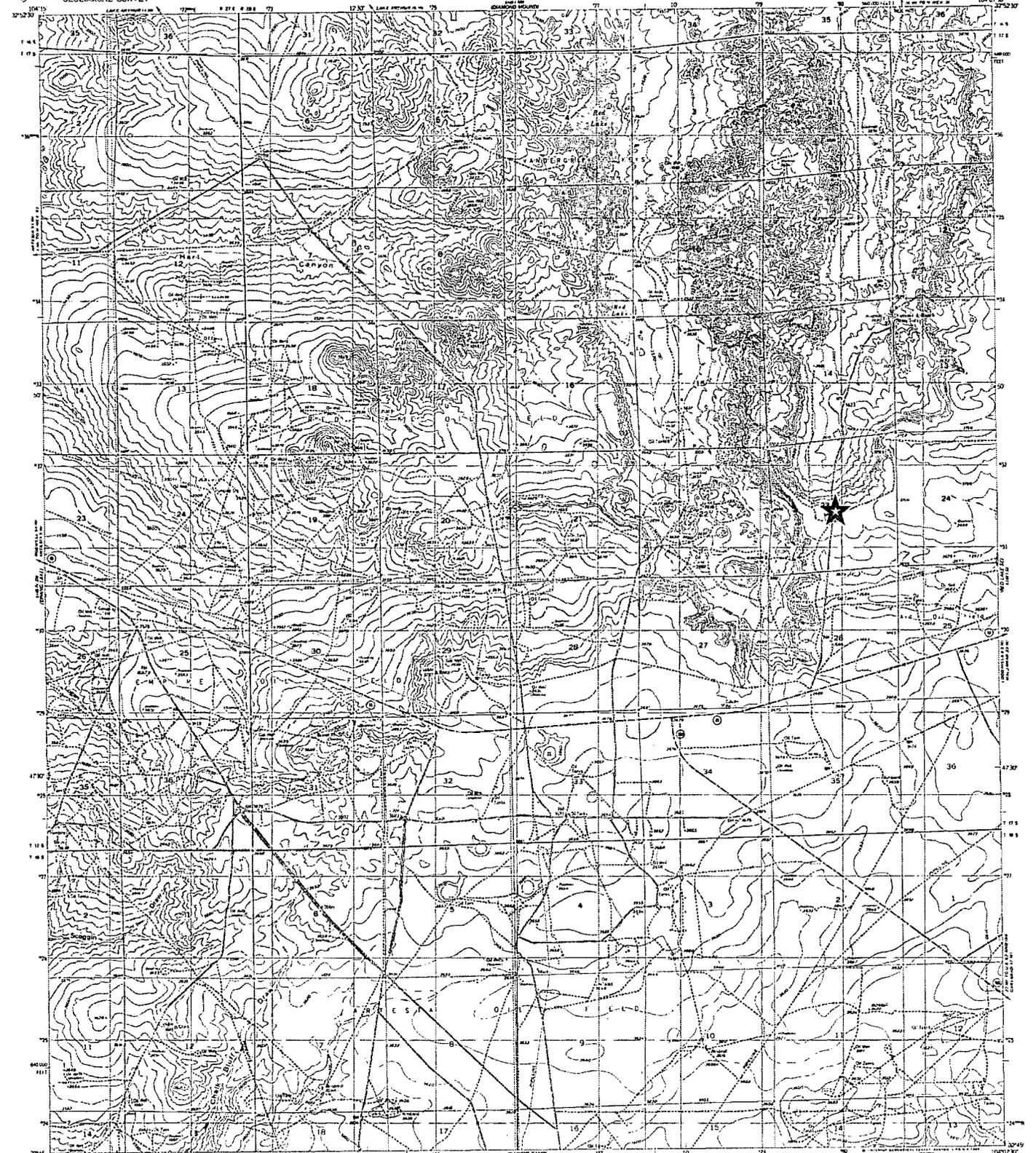
Imagery Date: 4/16/2013 32°49'10.80" N, 104°08'46.15" W, elev: 3706

COG

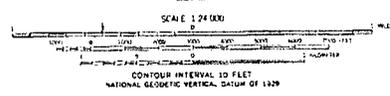
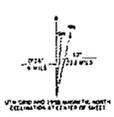
MC State #001

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RED LAKE QUADRANGLE
NEW MEXICO-HOOY CO
7.5 MINUTE SERIES (TOPOGRAPHIC)



Map and, as far as possible, published by the Geological Survey
Contours by 1952's and 1953's
Culture and drainage in part compiled from aerial photographs
taken 1946. Topography by planimetry to 1955
Photographic base map: 1927 Aerial Stereoscopic Pair
10,000-foot grid based on New Mexico coordinate system,
with zone
1000-foot Universal Transverse Mercator grid, zone 13
All of units labeled indicate are 40% covered, or abandoned
To place on the projected North American Datum (1983)
move the projection three 8 inches south and
4.7 inches west as shown by colored corner ticks
Map photoreduced 1975
No major culture or drainage changes observed



ROAD CLASSIFICATION

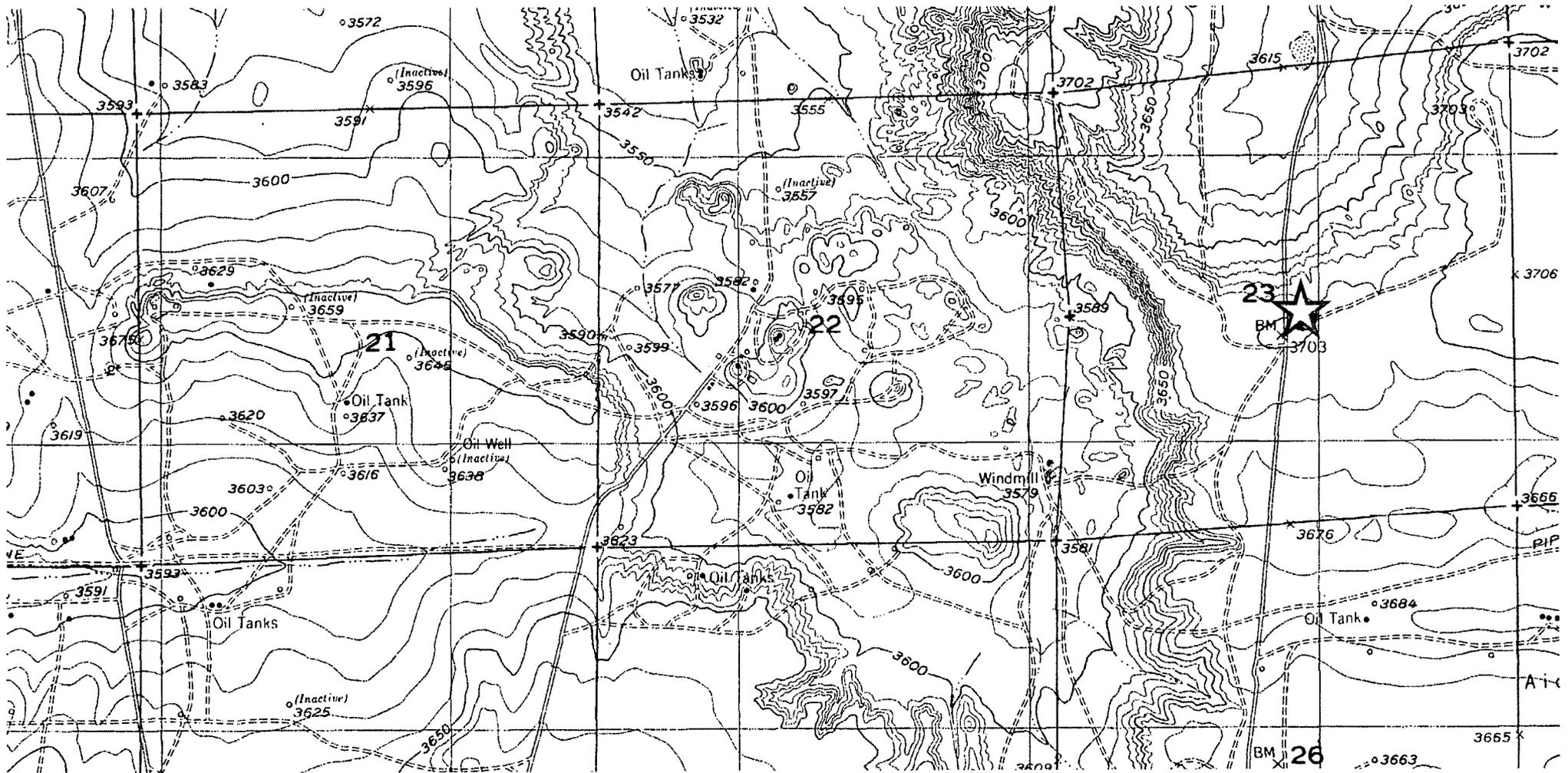
ROAD TYPE	SYMBOL
Major Road	Thick solid line
Minor Road	Thin solid line
U.S. Route	Thin solid line with 'U.S.' label
State Route	Thin solid line with 'S' label

THIS MAP FEMPLES WITH NATIONAL MAP ADJUSTED STAIRCASES
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WESTON, VIRGINIA 22092
A HOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

RED LAKE, N. MEX.
32104-02-17-024
1955
PHOTOENRAGED 1975
DMA 5148 1-88-SERIES 1961

COG

MC State #001





Section Quarters

COG MC State #001

<i>County</i> Eddy	<i>Unit Letter</i> J	<i>Section</i> 23	<i>Township</i> 17S	<i>Range</i> 28E
-----------------------	-------------------------	----------------------	------------------------	---------------------

Trend Map 100'

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

APPENDIX II

Laboratory Analytical Results *November 2013*

MC State #001 (11/09/2013)

Unit J, Section 23, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32.81977° W 104.14622°

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.



Section Quarters

COG MC State #001

<i>County</i> Eddy	<i>Unit Letter</i> J	<i>Section</i> 23	<i>Township</i> 17S	<i>Range</i> 28E
-----------------------	-------------------------	----------------------	------------------------	---------------------

Trend Map 100'

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

**Laboratory Analytical Results Summary
COG, MC State #1**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	11/27/13	11/27/13	11/27/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		8080	256	432
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP2 @ 1'
Analyte	Method	Date	11/27/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		704
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

December 04, 2013

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: MC STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 11/27/13 14:50.

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: 11/27/2013
 Reported: 12/04/2013
 Project Name: MC STATE #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/27/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 FT (H302909-01)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2013	ND	2.12	106	2.00	0.201		
Toluene*	<0.050	0.050	12/03/2013	ND	2.11	105	2.00	0.713		
Ethylbenzene*	<0.050	0.050	12/03/2013	ND	2.09	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	12/03/2013	ND	6.23	104	6.00	0.369		
Total BTEX	<0.300	0.300	12/03/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 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	8080	16.0	12/04/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/03/2013	ND	183	91.3	200	5.07		
DRO >C10-C28	<10.0	10.0	12/03/2013	ND	178	89.0	200	6.11		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Sample ID: SP 1 @ 2 FT (H302909-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/04/2013	ND	400	100	400	0.00		

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:	11/27/2013	Sampling Date:	11/27/2013
Reported:	12/04/2013	Sampling Type:	Soil
Project Name:	MC STATE #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3 FT (H302909-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/04/2013	ND	400	100	400	0.00		

Sample ID: SP 2 @ 1 FT (H302909-04)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2013	ND	2.12	106	2.00	0.201		
Toluene*	<0.050	0.050	12/03/2013	ND	2.11	105	2.00	0.713		
Ethylbenzene*	<0.050	0.050	12/03/2013	ND	2.09	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	12/03/2013	ND	6.23	104	6.00	0.369		
Total BTEX	<0.300	0.300	12/03/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	12/04/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/03/2013	ND	183	91.3	200	5.07		
DRO >C10-C28	<10.0	10.0	12/03/2013	ND	178	89.0	200	6.11		

Surrogate: 1-Chlorooctane 92.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

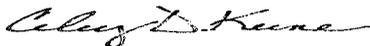
Notes and Definitions

- 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

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													
Phone #: 575-397-6388		Fax #: 575-397-0397													
Project #:		Project Owner: COB													
Project Name: MC State #1		City: Same													
Project Location: loco hills		State: Zip:													
Sampler Name: Gary RA		Phone #:													
Fax #:															

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		DATE	TIME	GL	TPH	D-TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:							
H302909																			
1	SP102FT	6	2			X				X				11-27-13	10:20	X	X	X	
2	SP102FT	6	2			X				X				11-27-13	10:38	X			
3	SP103FT	6	2			X				X				11-27-13	10:50	X			
4	SP102FT	6	2			X				X				11-27-13	11:05	X	X	X	

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Relinquished By: <i>Gary RA</i>	Date: 11-27-13	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 2:50		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"/>	<i>GH</i>		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

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

#54

APPENDIX III

C-141

November 2013

MC State #001 (11/09/2013)

Unit J, Section 23, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32.81977° W 104.14622°

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	MC State #001	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	Lease No. (API#) 30-015-25118

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	17S	28E					Eddy

Latitude 32.81976 Longitude 104.14595

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	8bbls	Volume Recovered	2bbls
Source of Release	Main produced water line	Date and Hour of Occurrence	11-09-2013	Date and Hour of Discovery	11-09-2013 07:00am
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.*

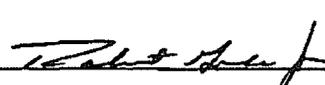
Describe Cause of Problem and Remedial Action Taken.*

A 45 connection from the water pump failed. Replacer the 45 connection to prevent a reoccurrence.

Describe Area Affected and Cleanup Action Taken.*

Initially an estimated 8bbls were released due to a faulty 45 connection from the water pump. We were able to recover 2bbls with a vacuum truck. All free fluids have been recovered. The spill was located inside the facility walls and the adjacent 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 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:	
Date:	11-14-2013	Phone:	432-661-6601
			Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

From: Kathy Purvis <kathy@bbcinternational.com>
Sent: Wednesday, November 20, 2013 2:33 PM
To: Bratcher, Mike, EMNRD; Adam Olguin; Alan Coor (William); Baron Chandler; Brian Cunningham; Chris Chesser; Claudie Cochran; Danny Matthews; David Coor; David Rutherford; Eddie Foster; Gail Lamb; Jason Barnett; Jimmy Wilcox; Keenan Kern; Kent Greenway; Larry Baker; Michelle Mullins; Robbie Miller; Robert Grubbs; Rocky Harper; Ron Beasley; Ronnie Tice; Ryan Faulkenberry; Stan Hammond; Warren Hunt; Winston Ballard
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com; jgilkey@bbcinternational.com
Subject: BBC delineation, Oxy Spumoni State #001; BBC site assessment and delineation, MC State #001

BBC International Inc. will begin delineation activities on Thursday, November 21, 2013 at the Oxy Spumoni State #001 in Eddy County, NM. We will also conduct a site assessment and begin delineation activities on Thursday, November 21, 2013 at the MC State #001 in Eddy County, NM. If you have any questions, please contact our office.

Kathy Purvis
BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com