

Closure Report

Site Description

Site Name:	King Cobra 2 State #001H
Company:	COG Operating LLC
Legal Description:	U/L A, Section 2, T19S, R34E
County:	Lea County, NM
GPS Coordinates:	N 32.69609° W 103.52354°

Release Data

Date of Release:	02/17/2016 and 07/26/2016
Type of Release:	Oil
Source of Release:	Gasket failure, Dump valve failure
Volume of Release:	20 bbls, 6 bbls
Volume Recovered:	15 bbls, 5 bbls

Remediation Specifications

Remediation Parameters:	Excavate the leak area around SP1 to a depth of 6 inches. Backdrag the overspray area around SP2. Backfill the site with clean soils.	
Remediation Activities:	11/21/2016 to 11/21/2016	
Plan Sent to OCD:	11/04/2016	Email from Cliff Brunson to Kristen Lynch
OCD Approval of Plan:	11/10/2016	Email from Kristen Lynch to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 08/01/2016
Final C-141	Signed 11/28/2016
Site Diagram	October 2016
Groundwater Plot	75'-100'
TOPO Maps	October 2016
Lab Summary	10/03/2016
Lab Analysis	10/03/2016
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.

11/30/2016

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
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

RECEIVED
By JKeyes at 10:58 am, Mar 02, 2016
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: KING COBRA 2 STATE #001H	Facility Type: Battery
Surface Owner:	Mineral Owner: State
API No. 30-025-40388	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	2	19S	34E	460	North	460	East	Lea

Latitude 32.6957741 Longitude -103.5239563

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 20 bbls Oil	Volume Recovered: 15 bbls Oil
Source of Release: Gasket failure	Date and Hour of Occurrence: 2/17/2016 6:49 am	Date and Hour of Discovery: 2/17/2016 6:49 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input 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.* This release was caused by a gasket on a FWKO. Vacuum trucks were dispatched to recover standing fluid.		
Describe Area Affected and Cleanup Action Taken.* The majority of the release was contained within the lined facility. The adjacent pasture was impacted by a spray of oil. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation 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	Approved by Environmental Specialist: 	
Title: Senior Environmental Coordinator	Approval Date: 03/02/2016	Expiration Date: 05/02/2016
E-mail Address: rgrubbs@concho.com	Conditions of Approval: Discrete site samples only. Delineate and remediate per NMOCD guidelines.	Attached <input type="checkbox"/> IRP 4196
Date: March 2, 2016	Phone: 432-230-0077	

* Attach Additional Sheets If Necessary.

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Form C-141
Revised August 8, 2011

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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

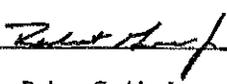
Name of Company:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-685-4304
Facility Name:	KING COBRA 2 STATE #001H	Facility Type:	Flare
Surface Owner:	State	Mineral Owner:	API No. 30-025-40388

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	2	19S	34E	460	North	460	East	Lea

Latitude 32.6957741 Longitude -103.5239563

NATURE OF RELEASE

Type of Release:	Oil	Volume of Release:	6bbls Oil	Volume Recovered:	05bbls Oil
Source of Release:	Flare	Date and Hour of Occurrence:	7/26/2016 6:00 pm	Date and Hour of Discovery:	7/26/2016 6:00 pm
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input 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.*					
This release was caused by oil dump valve that failed causing the fluid to go to the flare. Replaced the dump valve on the FWKO.					
Describe Area Affected and Cleanup Action Taken.*					
A 28'X26'in the adjacent pasture was impacted by a spray of oil Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation 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 Environmental Specialist:			
Title:	Senior Environmental Coordinator	Approval Date:	Expiration Date:		
E-mail Address:	rgrubbs@concho.com	Conditions of Approval:			Attached <input type="checkbox"/>
Date:	August 1, 2016	Phone: 432-685-4304			

* Attach Additional Sheets If Necessary

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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. 432-685-4304
Facility Name: King Cobra 2 State #001H	Facility Type: Battery

Surface Owner: State	Mineral Owner: State	API No. 30-025-40388
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	2	19S	34E	460	North	460	East	Lea County, NM

Latitude N 32.69609° Longitude W 103.52354°

NATURE OF RELEASE

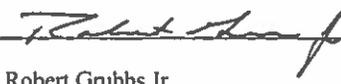
Type of Release: Oil	Volume of Release: 20 bbls	Volume Recovered: 15 bbls
Source of Release: Gasket failure	Date and Hour of Occurrence 02/17/2016 @ 6:49 am	Date and Hour of Discovery 02/17/2016 @ 6:49 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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.*
This release was caused by a gasket on a FWKO. Vacuum trucks were dispatched to recover standing fluid.

Describe Area Affected and Cleanup Action Taken.*
The majority of the release was contained within the lined facility. The adjacent pasture was impacted by a spray of oil. The site was sampled and a remediation plan was created. Remediation was completed in accordance with the remediation plan approved by Kristen Lynch of NMOCD via email on 11/10/2016.

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 Environmental Specialist: 	
Title: Senior Environmental Coordinator	Approval Date: 12/1/2022	Expiration Date:
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: November 28, 2016	Phone: (432) 683-7443	

* Attach Additional Sheets If Necessary

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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. 432-685-4304
Facility Name: King Cobra 2 State #001H	Facility Type: Flare
Surface Owner: State	Mineral Owner: State
API No. 30-025-40388	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	2	19S	34E	460	North	460	East	Lea County, NM

Latitude N 32.69609° Longitude W 103.52354°

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 6 bbls	Volume Recovered: 5 bbls
Source of Release: Failure of the oil dump valve caused fluid to go to the flare	Date and Hour of Occurrence 07/26/2016 @ 6:00 pm	Date and Hour of Discovery 07/26/2016 @ 6:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input 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.*

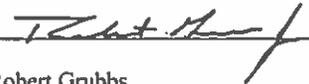
Describe Cause of Problem and Remedial Action Taken.*

This release was caused by failure of the oil dump valve, causing oil to go to the flare. A vacuum truck recovered 5 bbls of oil and the dump valve on the FWKO was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area included a 28' x 26' area in the adjacent pasture. The site was sampled and a remediation plan was created. Remediation was completed in accordance with the remediation plan approved by Kristen Lynch of NMOCD via email on 11/10/2016.

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	Approved by Environmental Specialist: 	
Title: Senior Environmental Coordinator	Approval Date: 12/1/2022	Expiration Date:
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: November 28, 2016 Phone: (432) 683-7443		

* Attach Additional Sheets If Necessary



COG

King Cobra 2 State #001H (7/26/16)

NM 529

Backdrag SP2
Overspray Area

Overspray Area
60' x 10'

Stake

Leak Area
45' x 45'

Flare

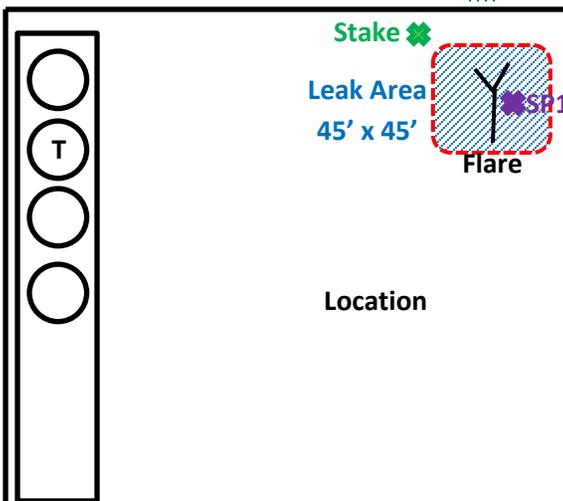
6" Excavation

Location

CR55

Road

Road



U/L A, Section 2, T19S, R34E

Lea County, NM

N 32.69609° W 103.52354°

API# 30-025-40388

BBC International, Inc.

COG

King Cobra 2 State #001H

Date: 10/04/2016

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2016

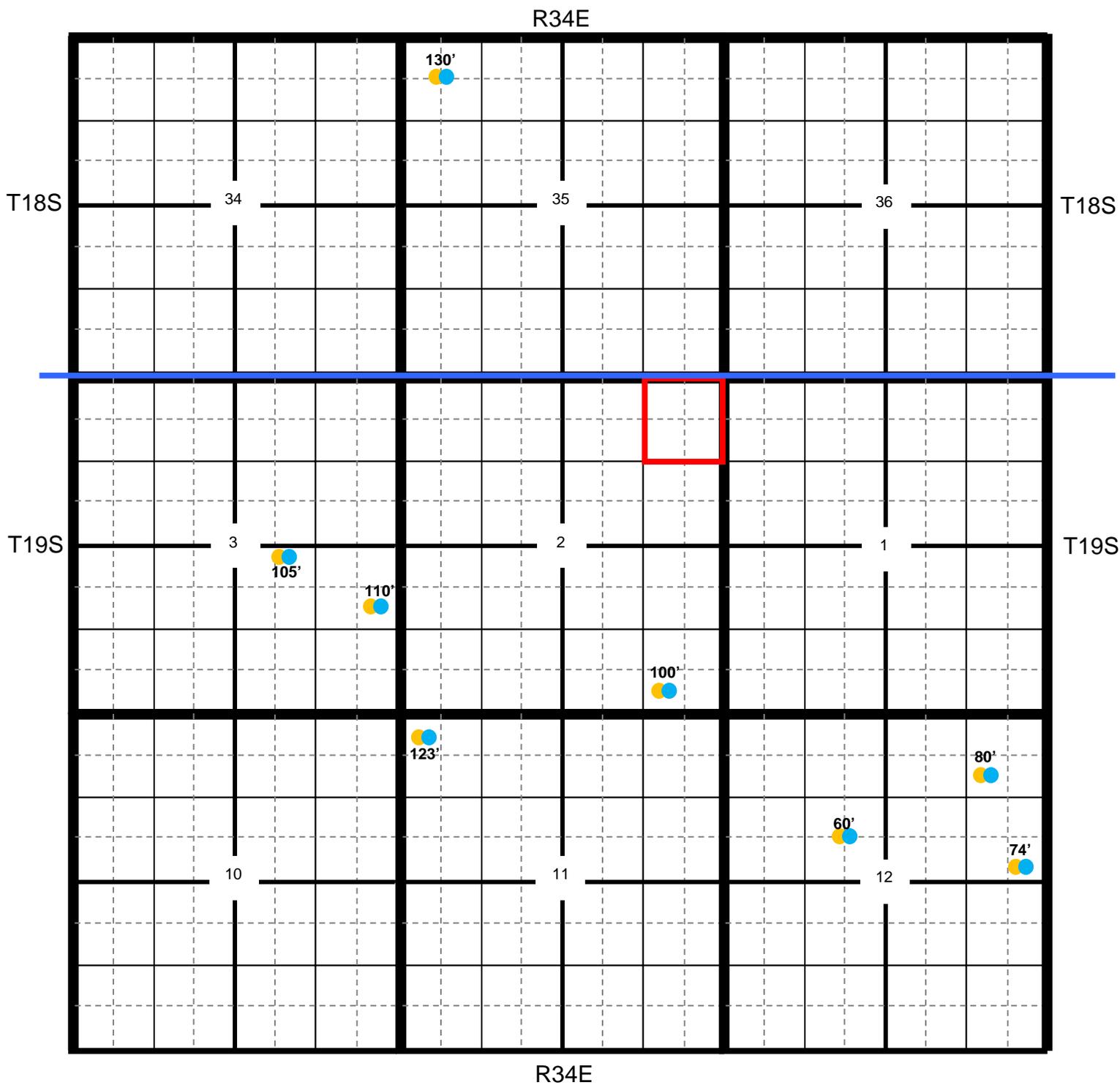


Groundwater Plot

COG King Cobra 2 State #001H

County Lea	Unit Letter A	Section 2	Township 19S	Range 34E
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Trend Map 75'-100'



* Location
 ● OCD
 ● USGS
 ● SEO
 ● All Databases



Section Quarters

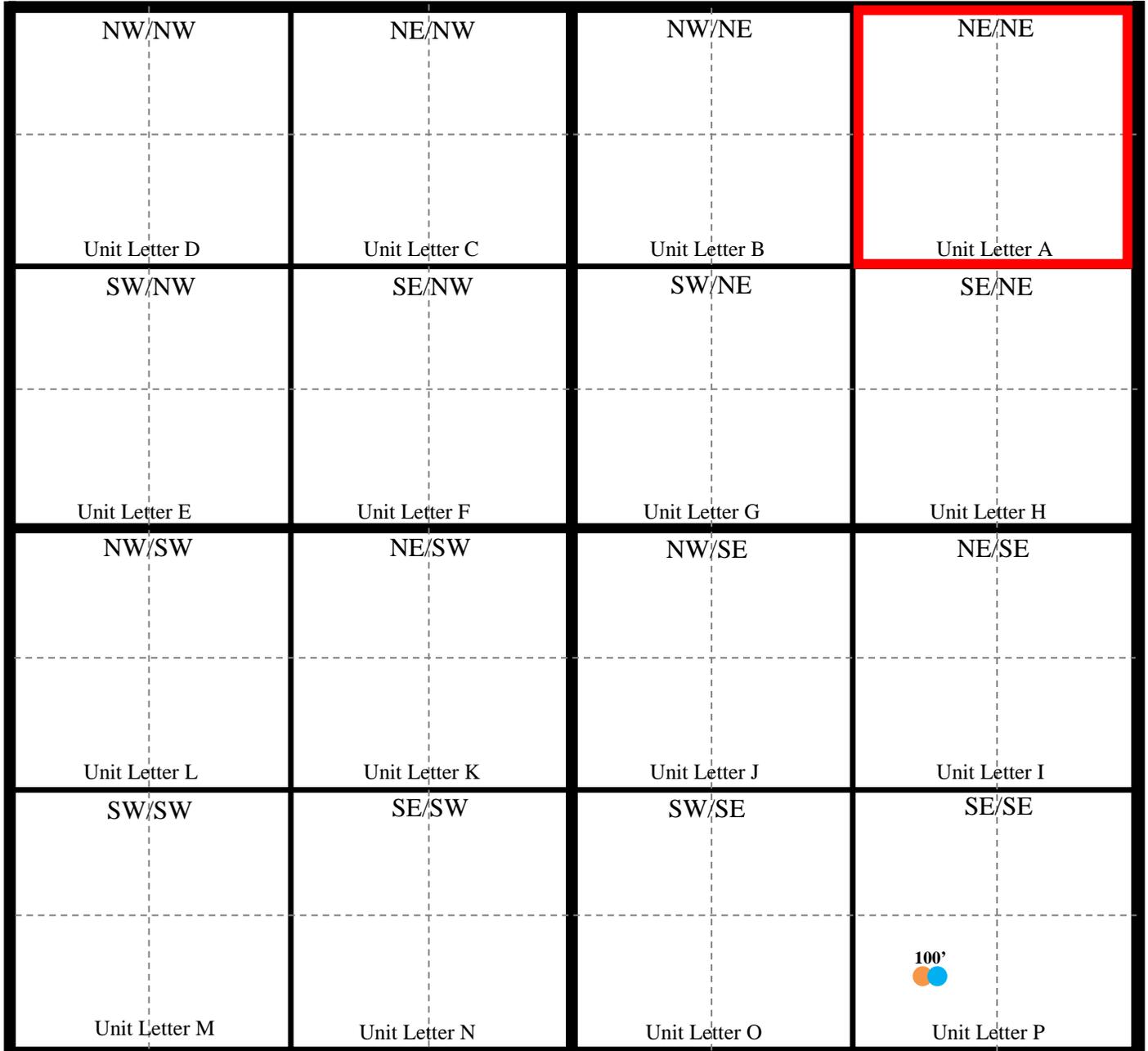
COG King Cobra 2 State #001H

County	Unit Letter	Section	Township	Range
Lea	A	2	19S	34E

Trend Map 75'-100'

1

2



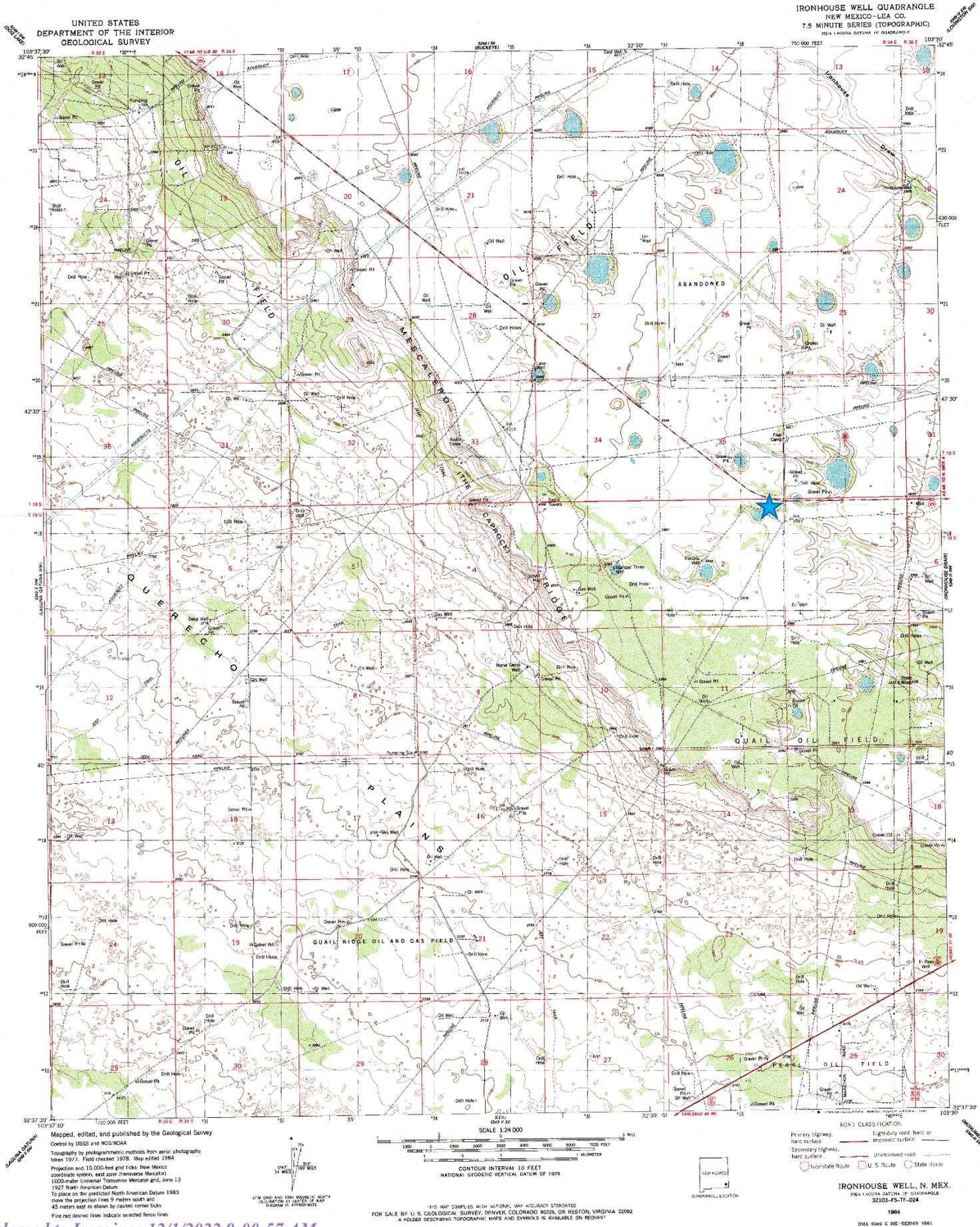
3

4

✳ Location
 ● OCD
 ● USGS
 ● SEO
 ● All Databases

COG

King Cobra 2 State #001H



COG

King Cobra 2 State #001H



Laboratory Analytical Results Summary
King Cobra 2 State #001H

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	10/3/16	10/3/16	10/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.133	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.312	<0.150	<0.150
Total BTEX	BTEX 8021B		0.445	<0.300	<0.300
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		2080	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	10/3/16	10/3/16	10/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		243	256	<10.0



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 13, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: KING COBRA 2 STATE #001H

Enclosed are the results of analyses for samples received by the laboratory on 10/06/16 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	10/06/2016	Sampling Date:	10/03/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	KING COBRA 2 STATE #001H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H602258-01)

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	10/11/2016	ND	2.19	109	2.00	0.609	
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35	
Ethylbenzene*	0.133	0.050	10/11/2016	ND	2.18	109	2.00	1.08	
Total Xylenes*	0.312	0.150	10/11/2016	ND	6.58	110	6.00	1.07	
Total BTEX	0.445	0.300	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

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	10/08/2016	ND	185	92.3	200	5.29	
DRO >C10-C28	2080	50.0	10/08/2016	ND	199	99.4	200	0.107	

Surrogate: 1-Chlorooctane 84.4 % 35-147

Surrogate: 1-Chlorooctadecane 134 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	10/06/2016	Sampling Date:	10/03/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	KING COBRA 2 STATE #001H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H602258-02)

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	10/11/2016	ND	2.19	109	2.00	0.609	
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07	
Total BTEX	<0.300	0.300	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

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	10/08/2016	ND	185	92.3	200	5.29	
DRO >C10-C28	<10.0	10.0	10/08/2016	ND	199	99.4	200	0.107	

Surrogate: 1-Chlorooctane 82.0 % 35-147

Surrogate: 1-Chlorooctadecane 88.2 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	10/06/2016	Sampling Date:	10/03/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	KING COBRA 2 STATE #001H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 2' (H602258-03)

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	10/11/2016	ND	2.19	109	2.00	0.609		
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.6-140

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	10/08/2016	ND	185	92.3	200	5.29		
DRO >C10-C28	<10.0	10.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 81.3 % 35-147

Surrogate: 1-Chlorooctadecane 85.4 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	10/06/2016	Sampling Date:	10/03/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	KING COBRA 2 STATE #001H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H602258-04)

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	10/11/2016	ND	2.19	109	2.00	0.609		
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

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	10/08/2016	ND	185	92.3	200	5.29		
DRO >C10-C28	243	10.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 76.1 % 35-147

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/06/2016	Sampling Date:	10/03/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	KING COBRA 2 STATE #001H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H602258-05)

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	10/11/2016	ND	2.19	109	2.00	0.609	
Toluene*	<0.050	0.050	10/11/2016	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.58	110	6.00	1.07	
Total BTEX	<0.300	0.300	10/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.6-140

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	10/08/2016	ND	185	92.3	200	5.29	
DRO >C10-C28	256	10.0	10/08/2016	ND	199	99.4	200	0.107	

Surrogate: 1-Chlorooctane 82.4 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/06/2016	Sampling Date:	10/03/2016
Reported:	10/13/2016	Sampling Type:	Soil
Project Name:	KING COBRA 2 STATE #001H	Sampling Condition:	Cool & Intact
Project Number:	COG	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 2' (H602258-06)

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	10/11/2016	ND	2.18	109	2.00	1.38		
Toluene*	<0.050	0.050	10/11/2016	ND	2.27	114	2.00	1.12		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.21	110	2.00	1.03		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.66	111	6.00	0.694		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.6-140

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	10/08/2016	ND	185	92.3	200	5.29		
DRO >C10-C28	<10.0	10.0	10/08/2016	ND	199	99.4	200	0.107		

Surrogate: 1-Chlorooctane 92.9 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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

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

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: COG
 Project Name: King Cobra 2 State #001H
 Project Location: Lea County, NM
 Sampler Name: Price Brunson
 P.O. #: Company: COG
 Attn: Robert Grubb
 Address: City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
H1002258	SP1 @ SURFACE		1								10/3/16	11:00 AM	✓	✓	
	SP1 @ 1'		1								10/3/16	11:30 AM	✓	✓	
	SP1 @ 2'		1								10/3/16	11:55 AM	✓	✓	
	SP2 @ SURFACE		1								10/3/16	1:20 PM	✓	✓	
	SP2 @ 1'		1								10/3/16	1:50 PM	✓	✓	
	SP2 @ 2'		1								10/3/16	2:20 PM	✓	✓	

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Relinquished By: *Cliff Brunson* Date: 10/3/16
 Received By: *Jennifer Billing* Date: 10/3/16
 Relinquished By: *Jennifer Billing* Date: 10/3/16
 Received By: *Wendi Henderson* Date: 10/3/16
 Delivered By: (Circle One) *Jennifer Billing* Time: 4:35
 Sample Condition: Intact Cool Yes No
 CHECKED BY: *Wendi Henderson*
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476
 #75

From: Lynch, Kristen, EMNRD
To: [Cliff Brunson](#)
Cc: [Robert Grubbs](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: COG - King Cobra 2 State #001H - Remediation Plan
Date: Thursday, November 10, 2016 8:08:51 AM
Attachments: [1RP 4196 & 4386 COG Remediation Packet King Cobra 2 State #001H.pdf](#)

Good Morning,

Cliff, after review NMOCD approves this work plan for the above mentioned site. Please specify if this work plan covers both RPs. I would assume it would cover both due to the nature of both releases being in the same area.

Thank You,

Kristen D. Lynch
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
(575) 393-6161 ext. 111
575-370-3180 (emergency-cell)

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Friday, November 04, 2016 3:28 PM
To: Lynch, Kristen, EMNRD
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: COG - King Cobra 2 State #001H - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the COG King Cobra 2 State #001H release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this 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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From: Cliff Brunson
To: "[Lynch, Kristen, EMNRD](#)"
Cc: "[Robert Grubbs](#)"; "[Ken Swinney](#)"; "[Jennifer Gilkey](#)"; "[Kathy Purvis](#)"
Subject: RE: COG - King Cobra 2 State #001H - Remediation Plan
Date: Monday, November 14, 2016 3:40:52 PM

Kristen,

This is to confirm that this plan will cover both leaks.

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: Lynch, Kristen, EMNRD [mailto:Kristen.Lynch@state.nm.us]
Sent: Thursday, November 10, 2016 7:48 AM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: Robert Grubbs <RGrubbs@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: RE: COG - King Cobra 2 State #001H - Remediation Plan

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Thank You,

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Environmental Specialist, District 1
Oil Conservation Division, EMNRD
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Thanks, Cliff

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



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 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 162899

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 162899
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	12/1/2022