

PJXK1535554058

HOBBS OCD

4053

APR 28 2014

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
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

RECEIVED

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	Magnum Pronto State Com #005H	Facility Type	Well
Surface Owner	State	Mineral Owner	API No. 30-025-40163

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	32	19S	32E					Lea

Latitude N 32.61052° Longitude W 103.78710°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	15 bbls	Volume Recovered	13 bbls
Source of Release	Well head	Date and Hour of Occurrence	10/09/2013	Date and Hour of Discovery	10/09/2013 @ 10:00 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.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Trash in back pressure valve caused the packing to blow out before the pressure valve. Lowered the pressure on the kill setting.

Describe Area Affected and Cleanup Action Taken.*

Initially 15 bbls of oil was released. We were able to recover 13 bbls of fluid with a vacuum truck. All free fluid has been recovered. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking 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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Robert Grubbs Jr.

Approved by Environmental Specialist:

Title: Senior Environmental Coordinator

Approval Date:

Expiration Date:

Email Address: rgrubbs@concho.com

Conditions of Approval:

Attached ☐

Date: 4-22-14

Phone: (432) 661-6601

* Attach Additional Sheets If Necessary

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

HOBBS OCD

APR 28 2014

RECEIVED

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	Magnum Pronto State Com #005H	Facility Type	Well
Surface Owner	State	Mineral Owner	Lease No. (API#) 30-025-40163

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	32	19S	32E					Lea

Latitude 32.61052 Longitude 103.78710

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	15bbls	Volume Recovered	13bbls
Source of Release	Well head	Date and Hour of Occurrence	10-09-2013	Date and Hour of Discovery	10-09-2013 10:00am
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.*

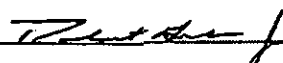
Trash in back pressure valve caused the packing to blow out before the pressure valve. Lowered the pressure on the kill setting.

Describe Area Affected and Cleanup Action Taken.*

Initially 15bbls of oil was released. We were able to recover 13bbls of fluid with a vacuum truck. All free fluid has been recovered. BBC will sample the spill site area in the pasture 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.			
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: rgrubbs@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10-24-2013 Phone: 432-661-6601			

* Attach Additional Sheets If Necessary

SITE INFORMATION

Report Type: Remediation Plan

FEB 25 2014

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General Site Information:			
Site:	Magnum Pronto State Com #5H		
Company:	COG Operating LLC		
Section, Township, and Range:	32	19S	32E
Lease Number:	API# 30-025-40163		
County:	Lea County, NM		
GPS:	N 32.61057°	W 103.78719°	
Surface Owner:	State		
Mineral Owner:			
Directions:	From the intersection of NM529 and CR126, turn South on CR126 and go 12.7 miles to dirt road on the left, turn East and go 0.6 mile to a T, turn South and go 0.3 mile to a Y, go right for 0.1 mile to location.		

Release Data:	
Date Released:	10/9/2013
Type of Release:	Oil
Source of Contamination:	Well head
Fluid Released:	15 bbls
Fluids Recovered:	13 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
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Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5000



COG Operating LLC

Magnum Pronto State Com #5H

(Release Date 10/09/2013)

**Unit O, Section 32, Township 19 South, Range 32 East
Lea County, New Mexico**

GPS: N 32.61057° W 103.78719°

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. Geoffrey Leking
Compliance Officer
Oil Conservation Division
1625 N French Drive
Hobbs, NM 88240

Re: Work plan for COG Operating LLC, Magnum Pronto State Com #5H,
Unit O, Section 32, Township 19 South, Range 32 East, Lea County, NM

1.0 SITE CHARACTERIZATION

The subject site is located South of Maljamar, NM, in Section 32, Township 19 South, and Range 32 East, Lea County, New Mexico. The GPS coordinates are N 32.61057° W 103.78719°. The site consists of undeveloped rangeland and petroleum production facilities. On October 9, 2013, a leak occurred at the well head. The spill measured roughly 65 feet in length and 40 feet in width. Approximately 15 bbls of oil were released and 13 bbls of oil 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 Lea County Groundwater Trend Map, the depth to groundwater in Section 32, Township 19 South, and Range 32 East is approximately 450 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 11, 2013, and November 12, 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 the surface and at 1 foot at 3 separate locations called SP1, SP2, and SP3. The samples were delivered to Cardinal Laboratories for and TPH analysis. The BTEX results for SP1 at the surface were as follows: Benzene was below reporting limits, Toluene = 0.142 mg/Kg, Ethylbenzene = 0.259 mg/Kg, Total Xylenes = 0.436 mg/Kg, and Total BTEX was 0.837 mg/Kg. The TPH results for SP1 at the surface were below reporting limits for GRO and 98.4 mg/Kg for DRO. All BTEX and TPH results for SP1 at 1 foot were below reporting limits. At SP2 at the surface, the BTEX results were: Benzene = 0.071 mg/Kg, Toluene = 1.09 mg/Kg, Ethylbenzene = 1.25 mg/Kg, Total Xylenes = 2 mg/Kg, and Total BTEX = 1.42 mg/Kg. TPH results for SP2 at the surface were below reporting limits for GRO and 1,690 mg/Kg for DRO. All BTEX and TPH results for SP2 at 1 foot were below reporting limits. The BTEX results for SP3 at the surface were: Benzene = 0.156 mg/Kg, Toluene = 2.12 mg/Kg, Ethylbenzene = 2.07 mg/Kg, Total Xylenes = 3.2 mg/Kg, and Total BTEX = 7.55 mg/Kg. The TPH results for

SP3 at the surface were 28.2 mg/Kg for GRO and 3,330 mg/Kg for DRO. The BTEX and TPH results for SP3 at 1 foot were below reporting limits except the DRO, which was 20.9 mg/Kg. 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.

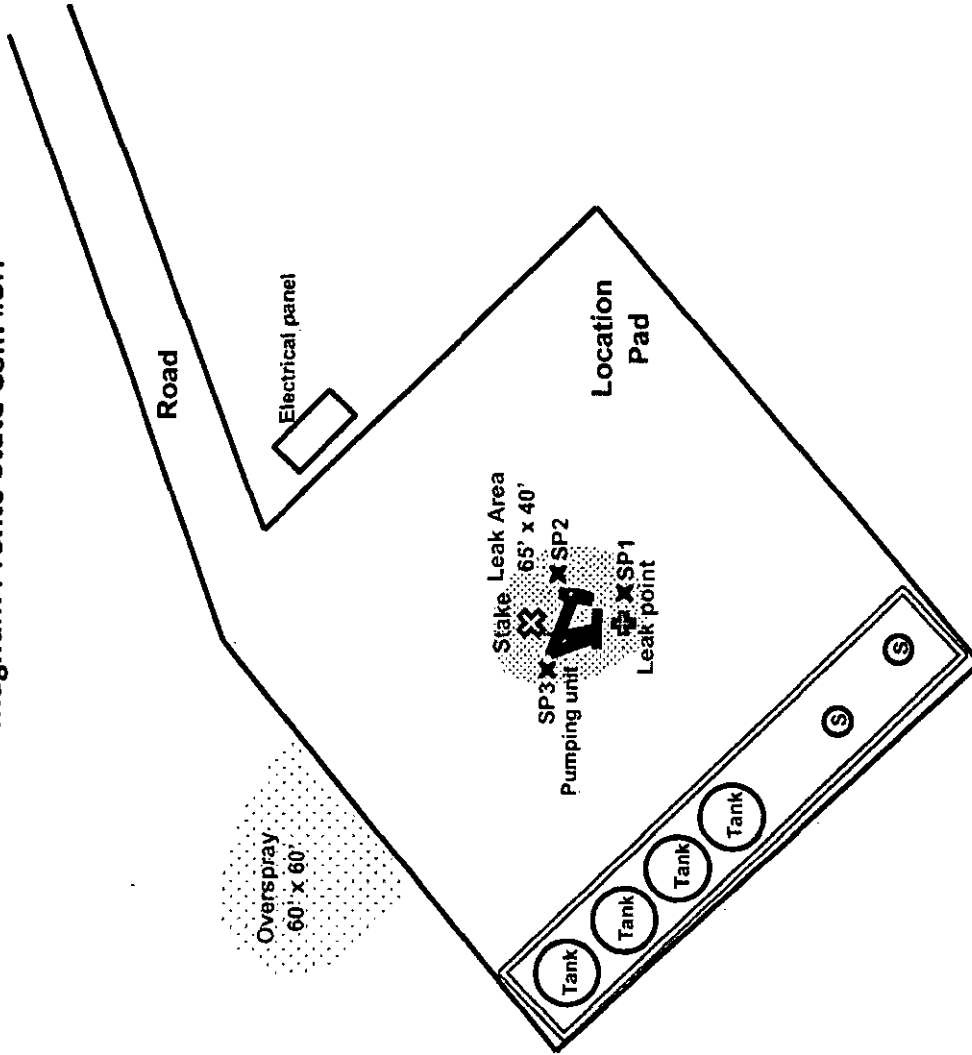
3.0 CONCLUSION AND RECOMMENDATION

After review of the analysis and the information gathered during the investigation conducted by BBC International, the following remediation plan is recommended. It is recommended that the entire leak area would require a surface scrape of 6 inches to 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.



COG

Magnum Pronto State Com #5H



U/L O, Section 32, T19S, R32E
Lea County, NM
N 32.61057° W 103.78719° at stake
API# 30-025-40163

BBC International, Inc.

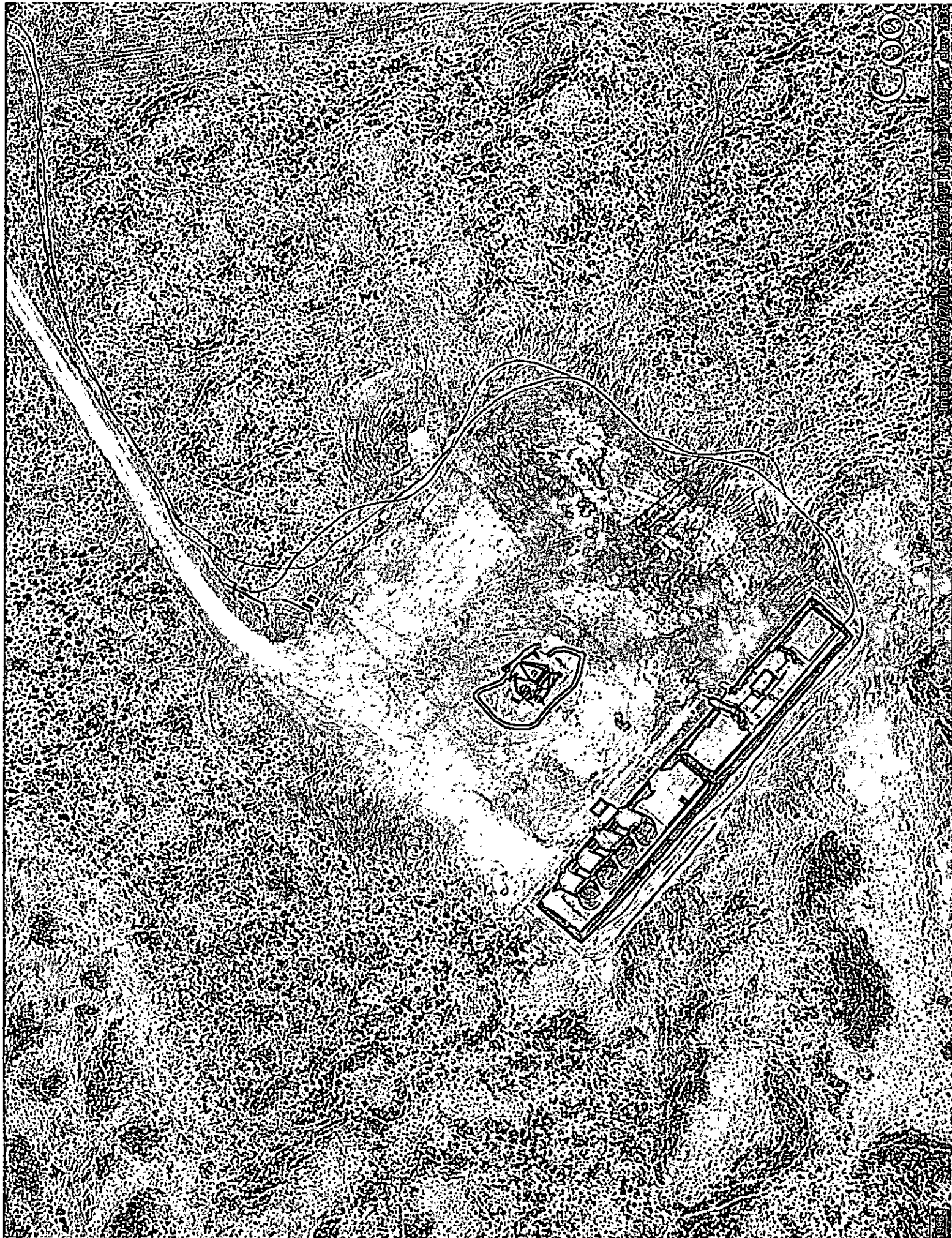
COG

Magnum Pronto State Com #5H

Date: 11/07/2013 DRWG by: K. Purvis

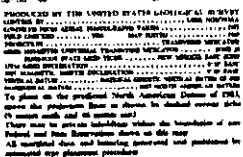
NOT TO SCALE

File: COG 2013



Magnum Pronto State Com #5H

WILLIAMS SINK QUADRANGLE
NEW MEXICO
7.5 MINUTE SERIES (TOPOGRAPHIC)



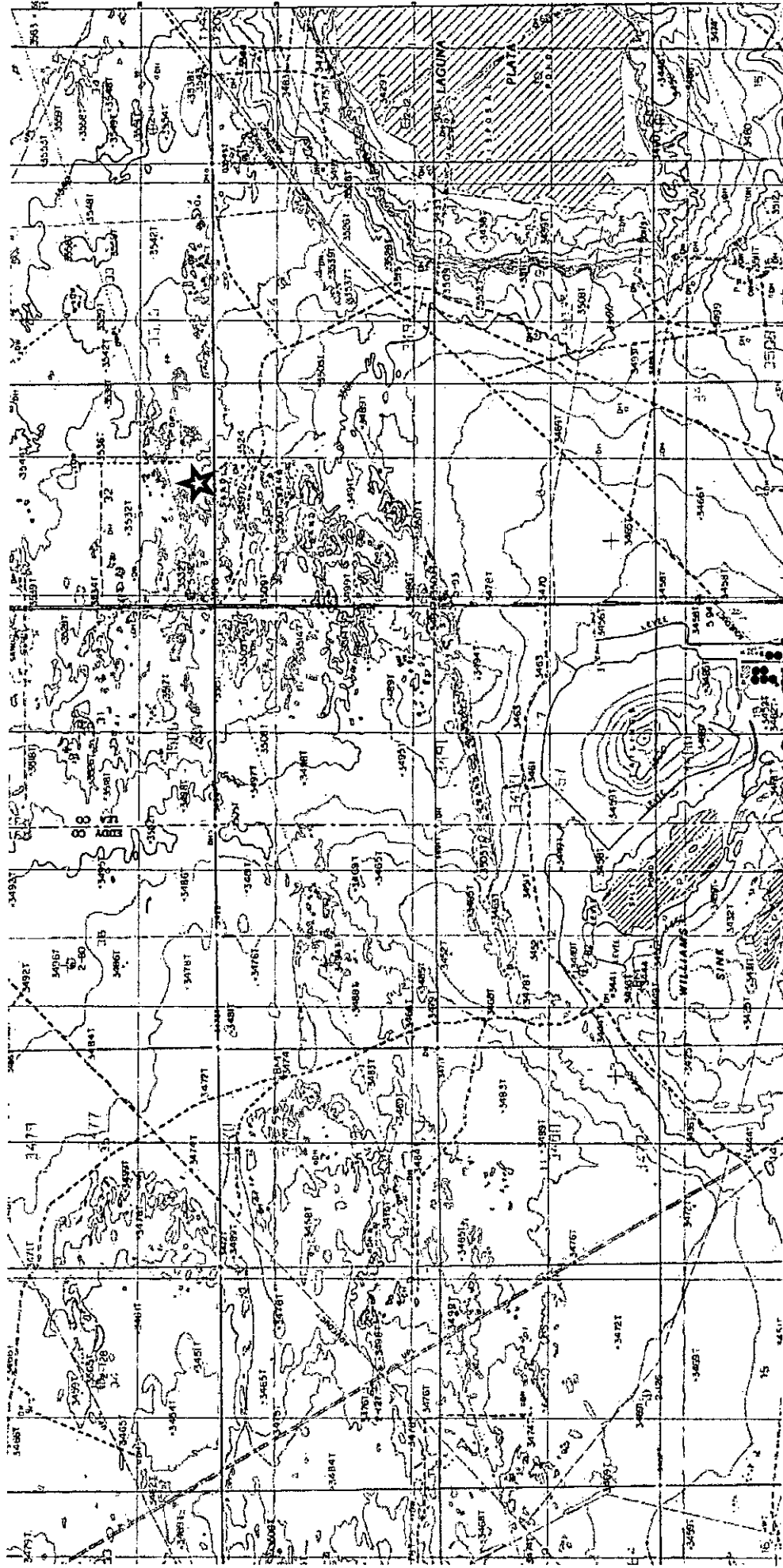
PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check.

THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS
FOR HALF MT LIA (CALIFORNIA) SURVEY, CONVEYER, (COLUMBIA) 0012
(14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

IMPROVED READ
 UNIMPROVED READ
 TELL
☐ IMPROVED READ ☒ U.S. READ ☐ NEW READ
 WILLIAMS SINK, NW MEXICO
 PROFESSIONAL EDITION 1987
 1200-77-77-77

COG

Magnum Pronto State Com #5H





Groundwater Plot
COG Magnum Pronto State Com #5H

County
Lea

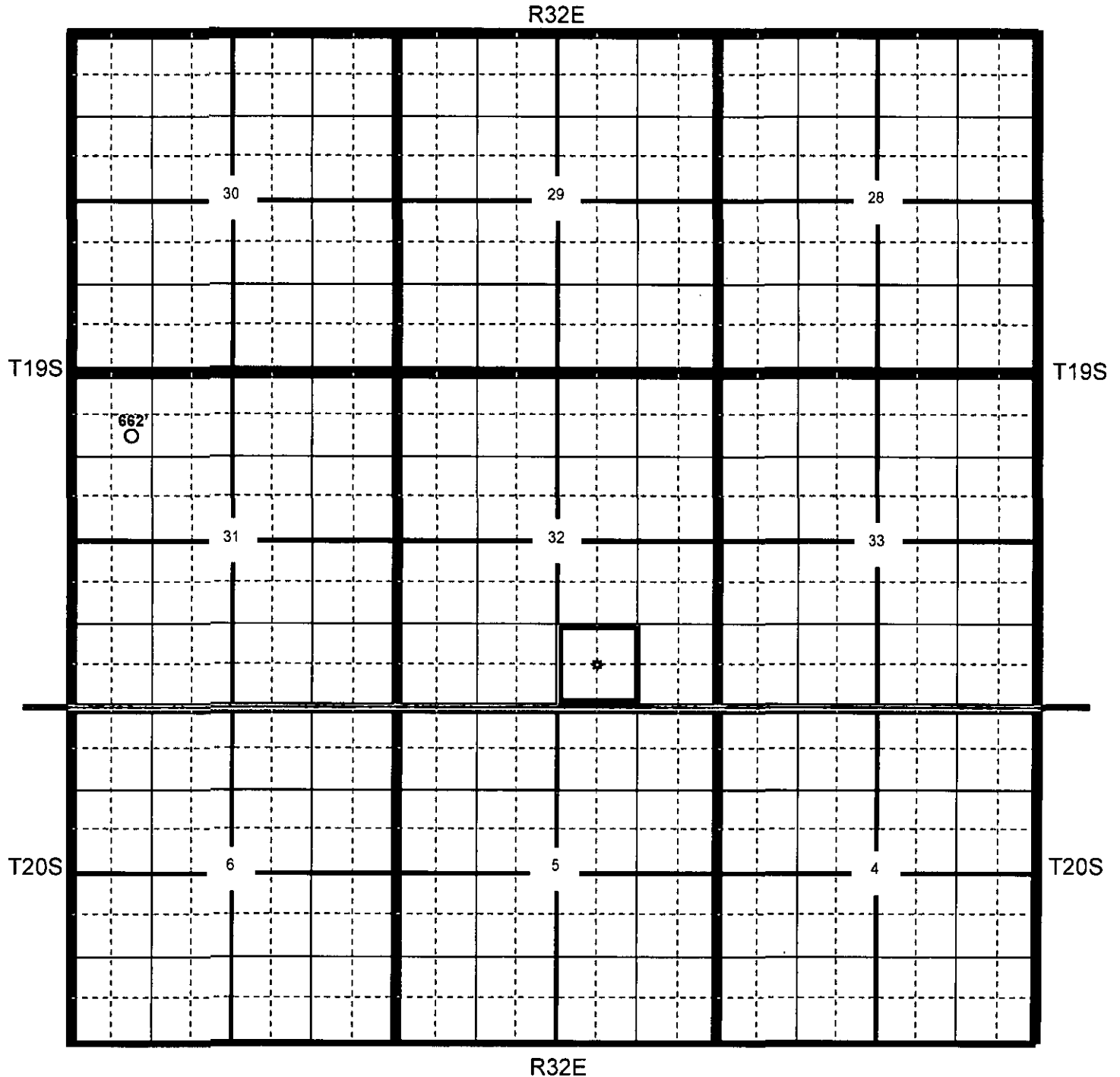
Unit Letter
O

Section
32

Township
19S

Range
32E

Trend Map 450'



★ Location

● OCD

● USGS

● SEO

● All Databases



Section Quarters


COG Magnum Pronto State Com #5H

County Unit Letter Section Township Range
Lea O 32 19S 32E

Trend Map 450'

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, Magnum Pronto State Com #5H

Analyte	Method	Sample Date	SP1 @ SURFACE 11/11/13 mg/Kg	SP1 @ 1' 11/11/13 mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.142	<0.050
Ethylbenzene	BTEX 8021B		0.259	<0.050
Total Xylenes	BTEX 8021B		0.436	<0.150
Total BTEX	BTEX 8021B		0.837	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		98.4	<10.0

Analyte	Method	Sample Date	SP2 @ SURFACE 11/11/13 mg/Kg	SP2 @ 1' 11/11/13 mg/Kg
Benzene	BTEX 8021B		0.071	<0.050
Toluene	BTEX 8021B		1.09	<0.050
Ethylbenzene	BTEX 8021B		1.25	<0.050
Total Xylenes	BTEX 8021B		2	<0.150
Total BTEX	BTEX 8021B		1.42	<0.300
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		1690	<10.0

Analyte	Method	Sample Date	SP3 @ SURFACE 11/12/13 mg/Kg	SP3 @ 1' 11/12/13 mg/Kg
Benzene	BTEX 8021B		0.156	<0.050
Toluene	BTEX 8021B		2.12	<0.050
Ethylbenzene	BTEX 8021B		2.07	<0.050
Total Xylenes	BTEX 8021B		3.2	<0.150
Total BTEX	BTEX 8021B		7.55	<0.300
GRO	TPH 8015M		28.2	<10.0
DRO	TPH 8015M		3330	20.9

December 02, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MAGNUM PRONTO STATE COM #005 H

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.

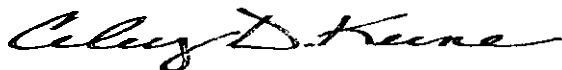
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ SURFACE (H302848-01)

BTX 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	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	0.142	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	0.259	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	0.436	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTX	0.837	0.300	11/25/2013	ND					

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

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	171	85.5	200	5.54	
DRO >C10-C28	98.4	10.0	11/24/2013	ND	161	80.5	200	6.94	

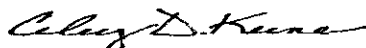
Surrogate: 1-Chlorooctane 84.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.9 % 63.6-154

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

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:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 1 FT (H302848-02)

BTX 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	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	<0.050	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTX	<0.300	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 89.4-126

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	171	85.5	200	5.54	
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94	

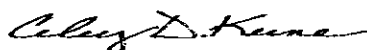
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.0 % 63.6-154

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

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:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ SURFACE (H302848-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.071	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	1.09	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	1.25	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	2.00	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTX	4.42	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 125 % 89.4-126

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	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	1690	50.0	11/24/2013	ND	161	80.5	200	6.94	

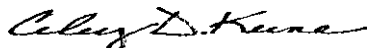
Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 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:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 1 FT (H302848-04)

BTX 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	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTX	<0.300	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PHL) 112 % 89.4-126

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	171	85.5	200	5.54	
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94	

Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.1 % 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:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ SURFACE (H302848-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.156	0.050	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	2.12	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	2.07	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	3.20	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	7.55	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	28.2	10.0	11/24/2013	ND	171	85.5	200	5.54		
DRO >C10-C28	3330	10.0	11/24/2013	ND	161	80.5	200	6.94		

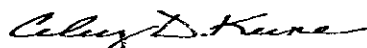
Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 170 % 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:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ 1 FT (H302848-06)

BTX 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	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTX	<0.300	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 89.4-126

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	171	85.5	200	5.54	
DRO >C10-C28	20.9	10.0	11/24/2013	ND	161	80.5	200	6.94	

Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.7 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

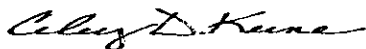
Notes and Definitions

- 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



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: JBBC International, Inc.		P.O. #:		ANALYSIS REQUEST																		
Project Manager: Cliff Brunson		Company:																				
Address: P.O. Box 805		Attn:																				
City: Hobbs		State: NM Zip: 88241																				
Phone #: 575-397-6388		Fax #: 575-397-0397																				
Project #:		Project Owner: C06																				
Project Name: Magnum Prostate State CDM #005 #		City: Stone																				
Project Location: Loco #1115		State: Zip:																				
Sample Name: Gary Ray		Phone #:																				
FOR LAB USE ONLY		Fax #:																				
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								
H302848	SP2 @ Surface ✓	G	2			X							11-11-13	10:45	TPH							
	2 SP2 @ 2ft ✓	G	2			X							11-11-13	11:00	B-TPH							
	3 SP2 @ Surface ✓	G	2			X							11-11-13	12:30								
	4 SP2 @ 2ft ✓	G	2			X							11-11-13	12:45								
	5 SP2 @ Surface ✓	G	2			X							11-11-13	10:05								
	6 SP2 @ 2ft ✓	G	2			X							11-11-13	10:25								
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Relinquished By:		Date: 11/11/13	Time: 8:00am	Received By:																		
Refused By:		Date: 11/21/13	Time: 11:05	Received By: Scott Henderson																		
Delivered By: (circle One)		Sample Condition		CHECKED BY:																		
Sampler - UPS - Bus - Other:		Cool intact		YES																		
		NO		NO																		
t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476																						

#54

Closure Report

HOBBS OCD

APR 28 2014

Site Description

Site Name:	Magnum Pronto State Com #5H
Company:	COG Operating LLC
Legal Description:	U/L O, Section 32, T19S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.61057° W 103.78719°

Release Data

Date of Release:	10/09/2013
Type of Release:	Oil
Source of Release:	Well head
Volume of Release:	15 bbls
Volume Recovered:	13 bbls

Remediation Specifications

Remediation Parameters:	Surface scrape the entire leak area to a depth of 6 inches, then backfill the site with clean soil.
Remediation Activities:	03/31/2014 to 04/01/2014

Plan Sent to OCD:	02/25/2014	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	02/21/2014	Verbal approval from Leking to Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 10/24/2013
Final C-141	Signed 04/22/2014
Site Diagram	November 2013
Groundwater Plot	450'
TOPO Maps	November 2013
Lab Summary	11/11/2013-11/12/2013
Lab Analysis	11/11/2013-11/12/2013
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.

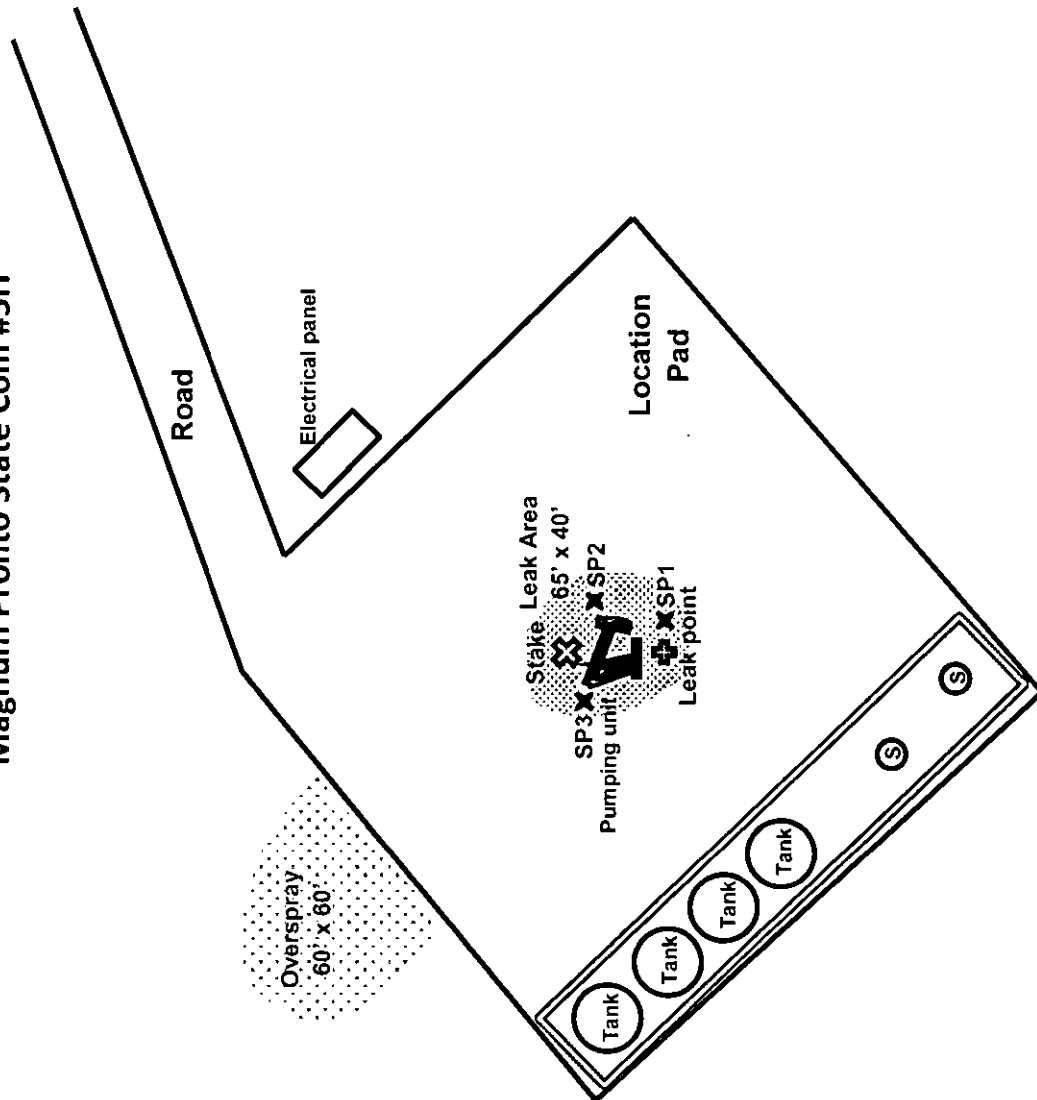
Cliff Brunson, President of BBC International Inc.

04/25/2014



COG

Magnum Pronto State Com #5H



U/L O, Section 32, T19S, R32E
Lea County, NM
N 32.61057° W 103.78719° at stake
API# 30-025-40163

BBC International, Inc.

COG

Magnum Pronto State Com #5H

Date: 11/07/2013 DRWG by: K. Purvis

NOT TO SCALE File: COG 2013



Groundwater Plot

COG Magnum Pronto State Com #5H

County
Lea

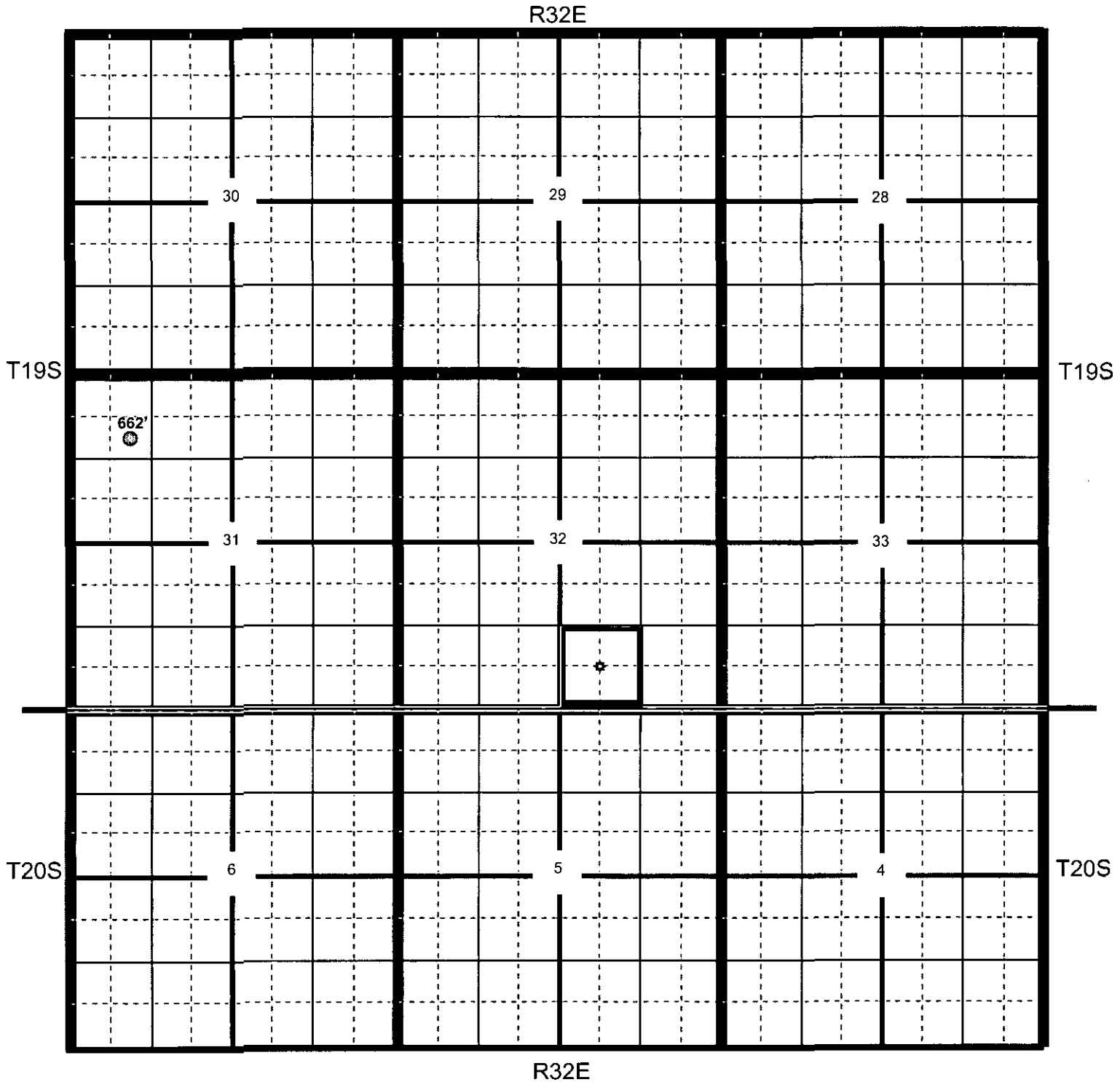
Unit Letter
O

Section
32

Township
19S

Range
32E

Trend Map 450'



★ Location

○ OCD

● USGS

● SEO

● All Databases


COG Magnum Pronto State Com #5H

County Lea Unit Letter O Section 32 Township 19S Range 32E

Trend Map 450'

1

2

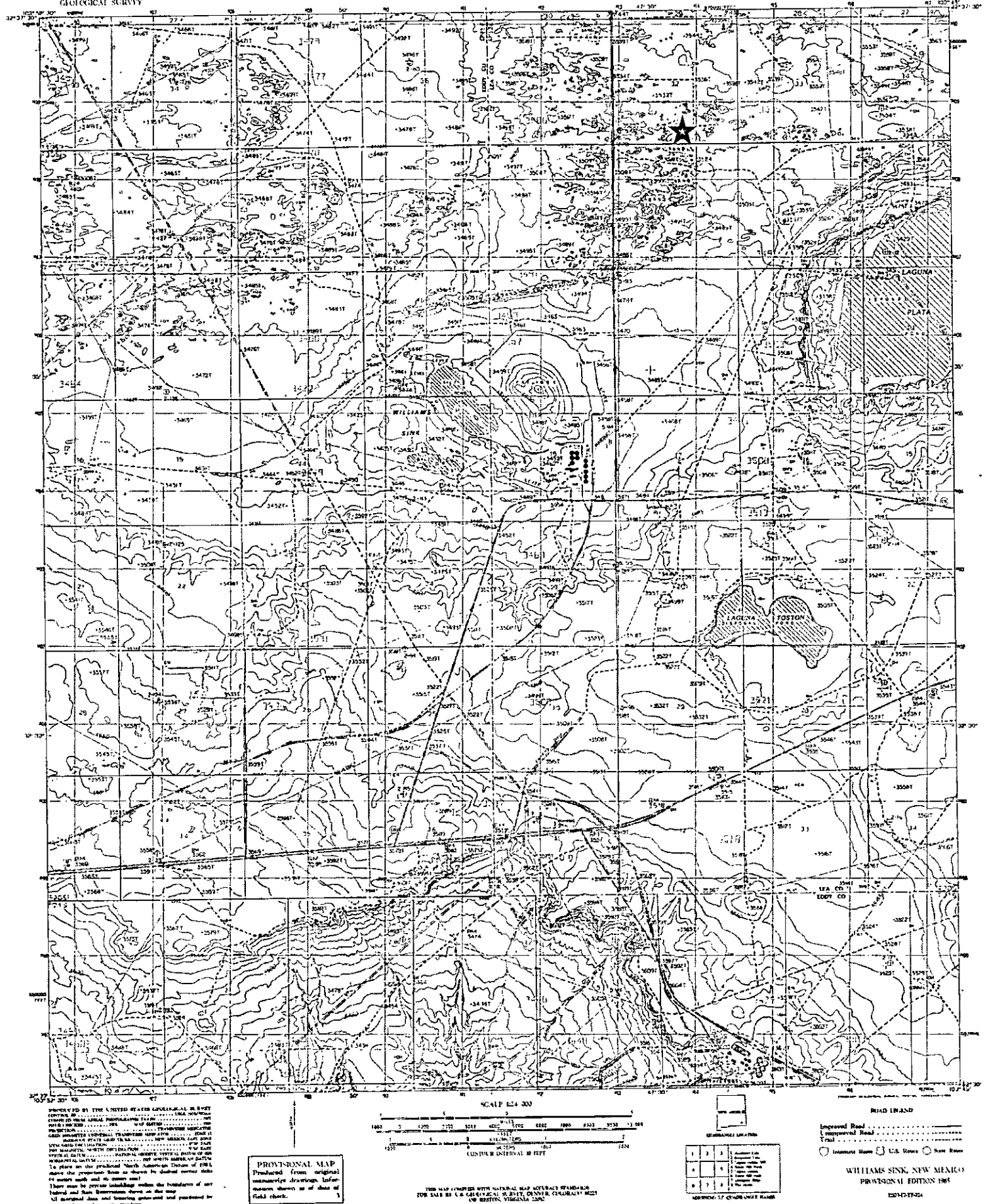
NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE 	SE/SE
Unit Letter M	Unit Letter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

3

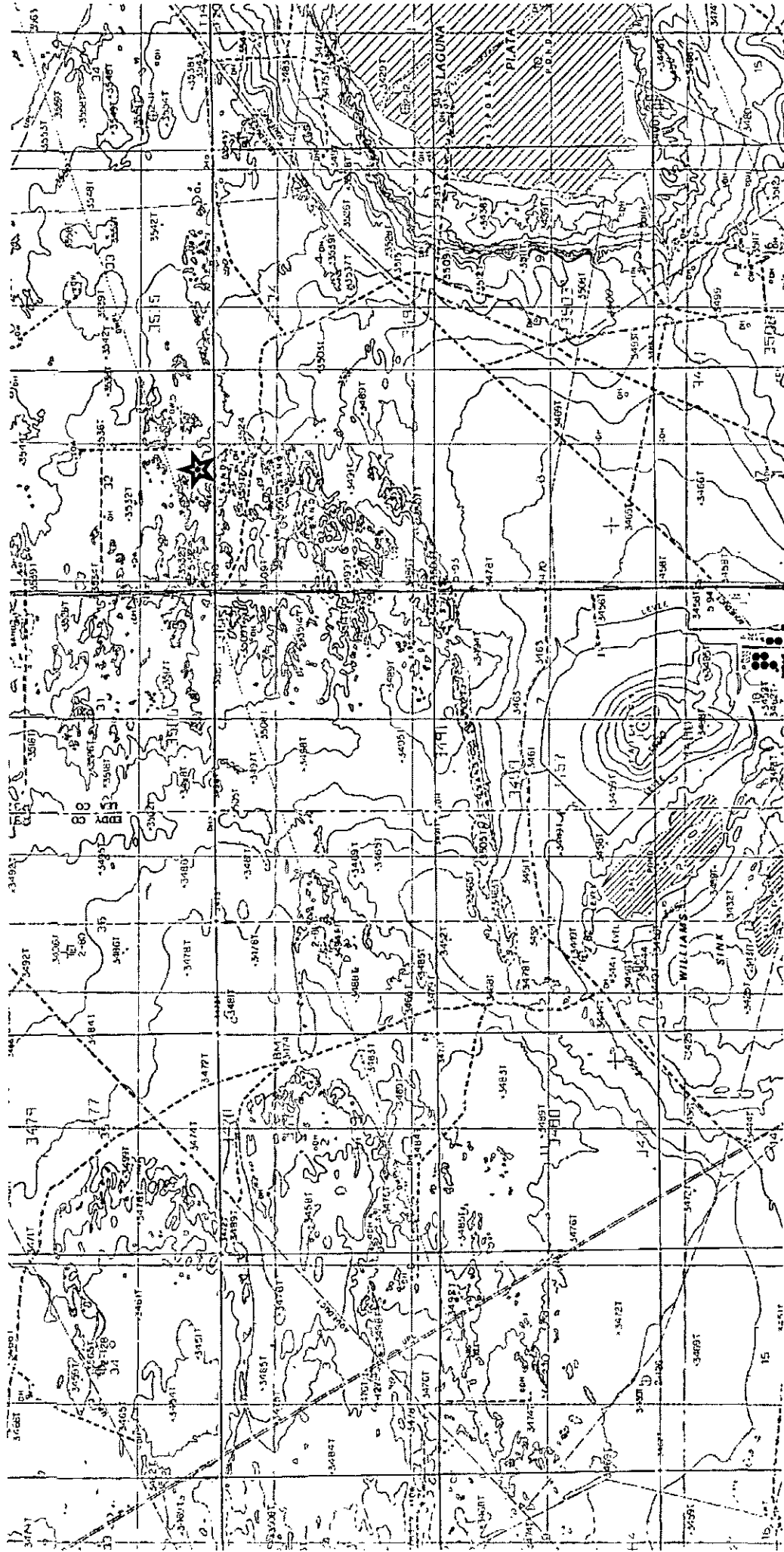
4

Magnum Pronto State Com #5H

WILLIAMS SINK QUADRANGLE
NEW MEXICO
7.5 MINUTE SERIES (TOPOGRAPHIC)



COG
Magnum Pronto State Com #5H



Laboratory Analytical Results Summary
COG, Magnum Pronto State Com #5H

Analyte	Method	Sample Date	SP1 @ SURFACE 11/11/13 mg/Kg	SP1 @ 1' 11/11/13 mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.142	<0.050
Ethylbenzene	BTEX 8021B		0.259	<0.050
Total Xylenes	BTEX 8021B		0.436	<0.150
Total BTEX	BTEX 8021B		0.837	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		98.4	<10.0

Analyte	Method	Sample Date	SP2 @ SURFACE 11/11/13 mg/Kg	SP2 @ 1' 11/11/13 mg/Kg
Benzene	BTEX 8021B		0.071	<0.050
Toluene	BTEX 8021B		1.09	<0.050
Ethylbenzene	BTEX 8021B		1.25	<0.050
Total Xylenes	BTEX 8021B		2	<0.150
Total BTEX	BTEX 8021B		1.42	<0.300
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		1690	<10.0

Analyte	Method	Sample Date	SP3 @ SURFACE 11/12/13 mg/Kg	SP3 @ 1' 11/12/13 mg/Kg
Benzene	BTEX 8021B		0.156	<0.050
Toluene	BTEX 8021B		2.12	<0.050
Ethylbenzene	BTEX 8021B		2.07	<0.050
Total Xylenes	BTEX 8021B		3.2	<0.150
Total BTEX	BTEX 8021B		7.55	<0.300
GRO	TPH 8015M		28.2	<10.0
DRO	TPH 8015M		3330	20.9



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

December 02, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MAGNUM PRONTO STATE COM #005 H

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/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,

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:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ SURFACE (H302848-01)

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	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	0.142	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	0.259	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	0.436	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	0.837	0.300	11/25/2013	ND					

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

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	171	85.5	200	5.54	
DRO >C10-C28	98.4	10.0	11/24/2013	ND	161	80.5	200	6.94	

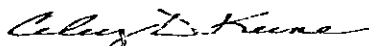
Surrogate: 1-Chlorooctane 84.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.9 % 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:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ 1 FT (H302848-02)

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	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	<0.050	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	<0.300	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 89.4-126

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	171	85.5	200	5.54		
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94		

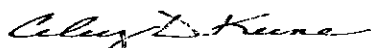
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.0 % 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:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ SURFACE (H302848-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.071	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	1.09	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	1.25	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	2.00	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	4.42	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 125 % 89.4-126

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	11/24/2013	ND	171	85.5	200	5.54		
DRO >C10-C28	1690	50.0	11/24/2013	ND	161	80.5	200	6.94		

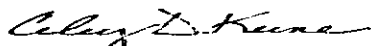
Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 2 @ 1 FT (H302848-04)

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	11/25/2013	ND	1.95	97.4	2.00	0.491		
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750		
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11		
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65		
Total BTEX	<0.300	0.300	11/25/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

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	171	85.5	200	5.54		
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94		


Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.1 % 63.6-154

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Received:	11/21/2013	Sampling Date:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ SURFACE (H302848-05)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.156	0.050	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	2.12	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	2.07	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	3.20	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	7.55	0.300	11/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	28.2	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	3330	10.0	11/24/2013	ND	161	80.5	200	6.94	

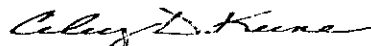
Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 170 % 63.6-154

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Received:	11/21/2013	Sampling Date:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 3 @ 1 FT (H302848-06)

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	11/25/2013	ND	1.95	97.4	2.00	0.491		
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750		
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11		
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65		
Total BTEX	<0.300	0.300	11/25/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

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	171	85.5	200	5.54		
DRO >C10-C28	20.9	10.0	11/24/2013	ND	161	80.5	200	6.94		

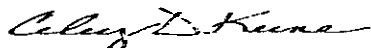
Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.7 % 63.6-154

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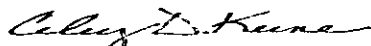
Notes and Definitions

- 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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