

Closure Report

RECEIVED

OCT 31 2013

NMOCD ARTESIA

Site Description

Site Name:	Old Ranch Knoll 8 Federal #7 (2 leaks)
Company:	Oxy Permian Ltd.
Legal Description:	U/L G, Section 8, T22S, R24E
County:	Eddy County, NM
GPS Coordinates:	N 32.40720° W 104.51900°

Release Data

Date of Release:	09/27/2012 and 01/15/2013
Type of Release:	Oil & produced water- Leak 1, Produced water- Leak 2
Source of Release:	Unknown- Leak 1, Frozen line- Leak 2
Volume of Release:	8 bbls- Leak 1, 20 bbls- Leak 2
Volume Recovered:	0 bbls- Both leaks

Remediation Specifications

Remediation Parameters:	Excavate to a depth of 1 foot across the entire leak site. Obtain confirmation samples at the bottom of the excavation and test these samples for TPH and BTEX. Backfill the site with clean soil.
Remediation Activities:	09/03/2013 to 10/25/2013

Final Plan Sent to OCD:	04/03/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	04/18/2013	Email from Mike Bratcher to Cliff Brunson
Final Plan Sent to BLM:	04/18/2013	Email from Cliff Brunson to James Amos
BLM Approval of Plan:	04/19/2013	Email from James Amos to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 10/10/2012 and 01/17/2013
Final C-141	Signed 10/28/2013
Site Diagram	October 2012 and January 2013
Groundwater Plot	100'
TOPO Maps	October 2012
Lab Summary	10/29/2012, 02/06/2013, and 10/09/2013
Lab Analysis	10/29/2012, 02/06/2013, and 10/09/2013
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.

10/29/2013

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	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Old Ranch Knoll 8 Fed #7	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-32621

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	8	22S	24E	1790	N	2170	E	Eddy County, NM

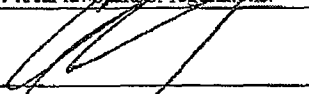
Latitude N 32.40720° Longitude W 104.51900°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release estimated	8 bbls	Volume Recovered	0 bbls
Source of Release	Unknown	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	09/27/2012 @ 3:30 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	BLM notified Oxy since the spill was discovered by James Amos of the BLM.		
By Whom?	Spill was discovered by James Amos of the BLM	Date and Hour	09/27/2012 @ 3:30 pm		
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.*				<div style="border: 2px solid black; padding: 5px; text-align: center;">RECEIVED OCT 31 2013 NMOCD ARTESIA</div>	
Describe Cause of Problem and Remedial Action Taken.* An unknown source caused an estimated 8 bbls of oil and produced water to leak onto the ground. 0 bbls were recovered.					

Describe Area Affected and Cleanup Action Taken.*
The area affected was approximately 20' x 20' and 8' x 104'. Remediation will be performed according to an OCD and BLM approved remediation plan.

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: Christopher Jones		Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>	
Date: 10/10/12	Phone: (575) 628-4121		

* Attach Additional Sheets If Necessary

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Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Old Ranch Knoll 8 Federal #7	Facility Type	
Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-32621

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	8	22S	24E	1790	North	2170	East	Eddy County, NM

Latitude N 32.40715° Longitude W 104.51900

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	20 bbls	Volume Recovered	0 bbls
Source of Release	Water dump line at Victaulic clamp froze and broke	Date and Hour of Occurrence	1/15/13	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- OCD, James Amos-BLM, Terry Gregston-BLM		
By Whom?	Christopher Jones	Date and Hour	1/16/13 @ 7:13 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					

RECEIVED

OCT 31 2013

NMOCD ARTESIA

Describe Cause of Problem and Remedial Action Taken.*

A water dump line at the victaulic clamp froze and broke causing 20 bbls of produced water to leak onto the ground. 0 bbls were recovered and the line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The area affected is approximately 100' x 40'. A water dump line at the victaulic clamp froze and broke causing 20 bbls of produced water to leak onto the ground. Fluids were not recoverable. Remediation will be performed in accordance with an OCD and BLM approved remediation plan.

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: Christopher Jones	Approval Date:	Expiration Date:	
Title: HES Specialist	Conditions of Approval:	Attached <input type="checkbox"/>	
E-mail Address: Christopher.Jones@oxy.com			
Date: 1/17/13	Phone: (575) 628-4121		

* Attach Additional Sheets If Necessary

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Facility Name	Old Ranch Knoll 8 Fed #7	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
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Signature:

Printed Name: Christopher Jones

Title: HES Specialist

E-mail Address: Christopher.Jones@oxy.com

Date: 10/28/13

Phone: (575) 628-4121

OIL CONSERVATION DIVISION

Approved by District Supervisor:

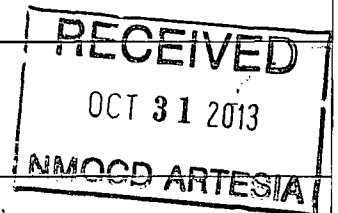
Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary



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Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-32621

LOCATION OF RELEASE

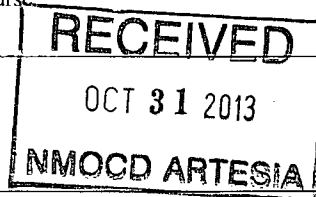
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Date: 10/28/13	Phone: (575) 628-4121		

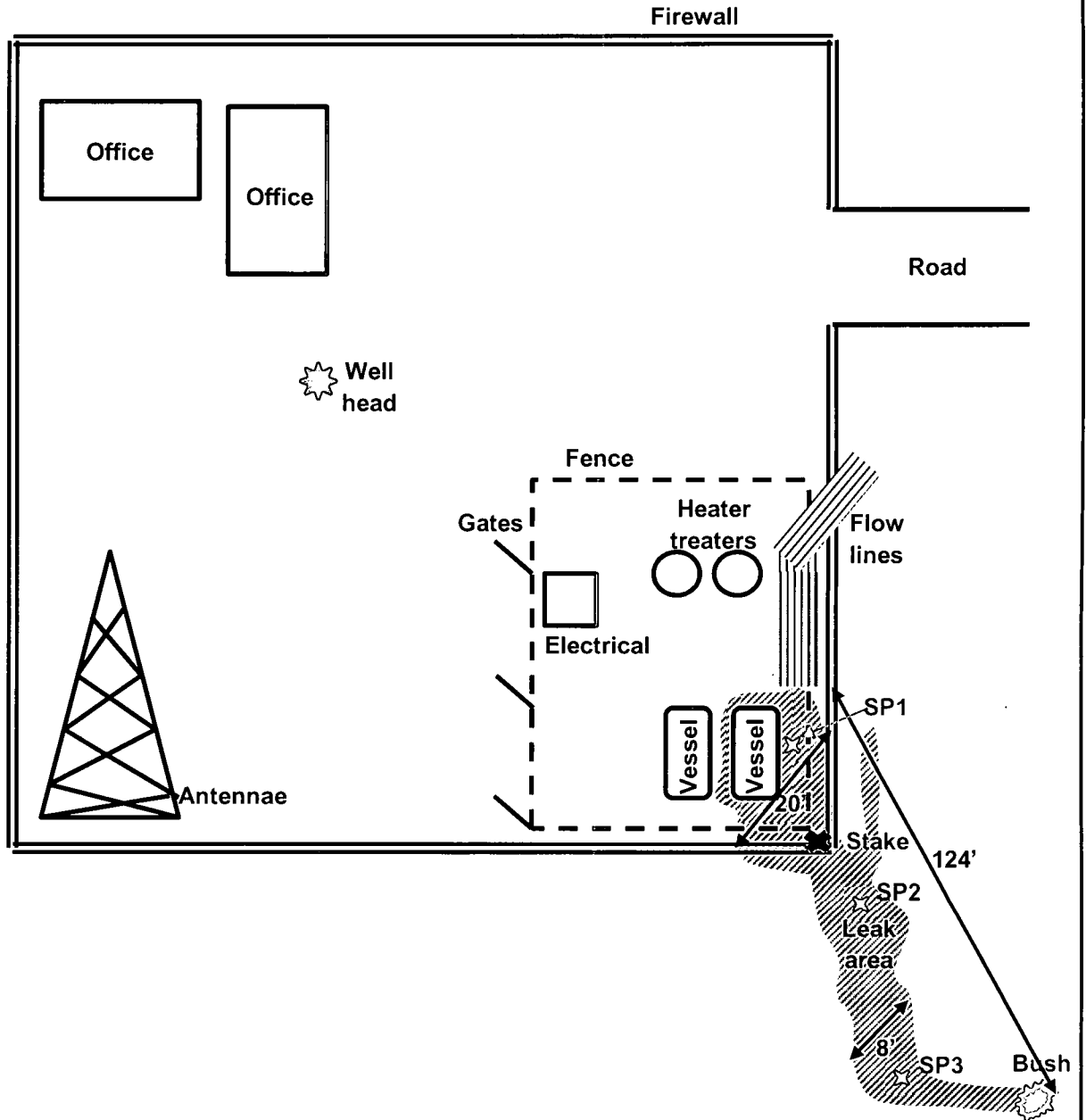
* Attach Additional Sheets If Necessary

N



Oxy

Old Ranch Knoll 8 Federal #7



BBC International, Inc.

Oxy

Old Ranch Knoll 8 Fed #7

Date: 10/4/2012

DRWG by: K. Purvis

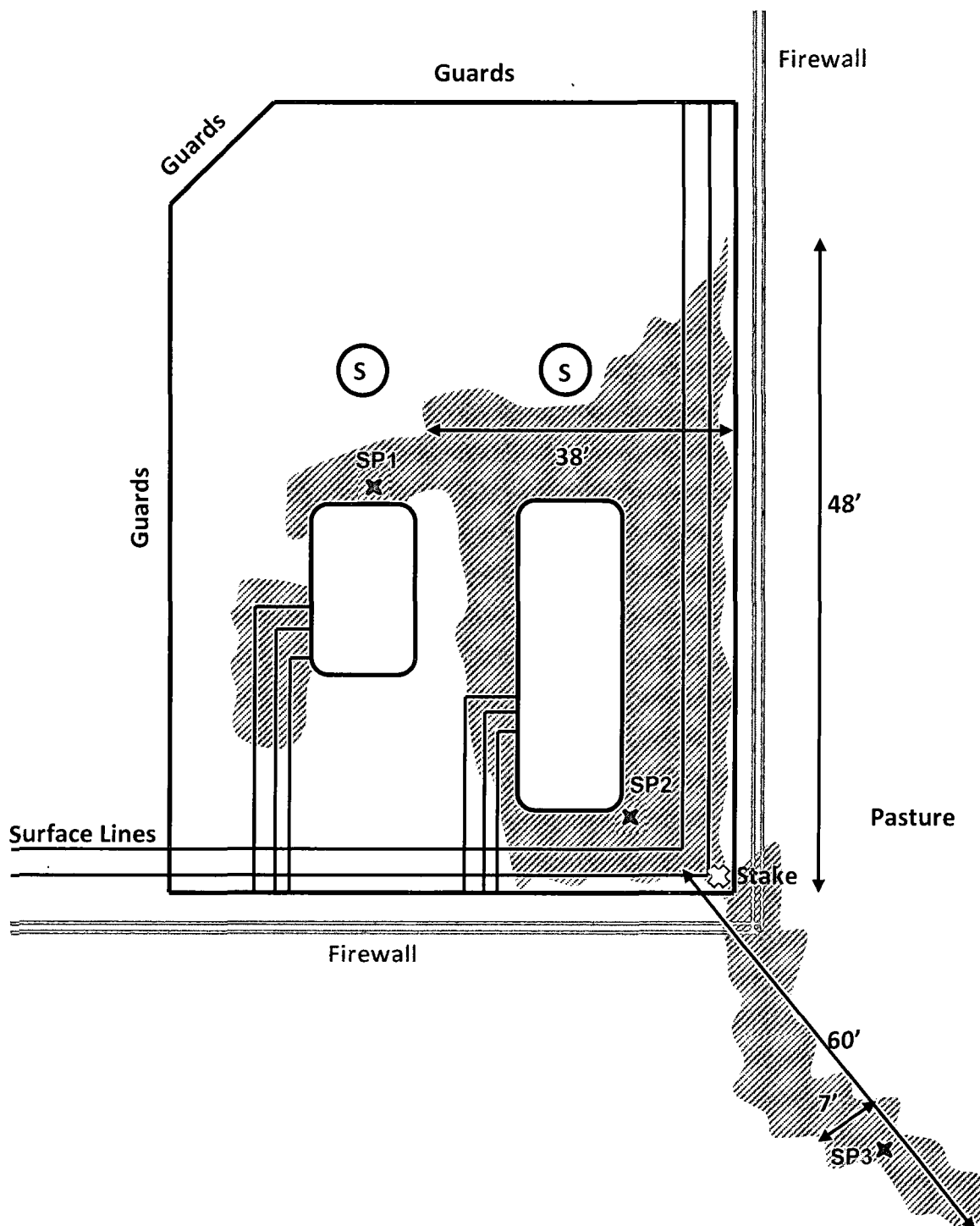
NOT TO SCALE

File: Oxy 2012



Oxy

Old Ranch Knoll 8 Federal #7 (Leak date: 1/15/13)



U/L G, Section 8, T22S, R24E
1790' FNL and 2170' FEL
Eddy County, NM
N 32.40720° W 104.51900°
API# 30-015-32621

BBC International, Inc.	
Oxy	
Old Ranch Knoll 8 Federal #7	
Date: 01/24/13	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013

Groundwater Plot

Oxy Old Ranch Knoll 8 Fed #7

County
Eddy

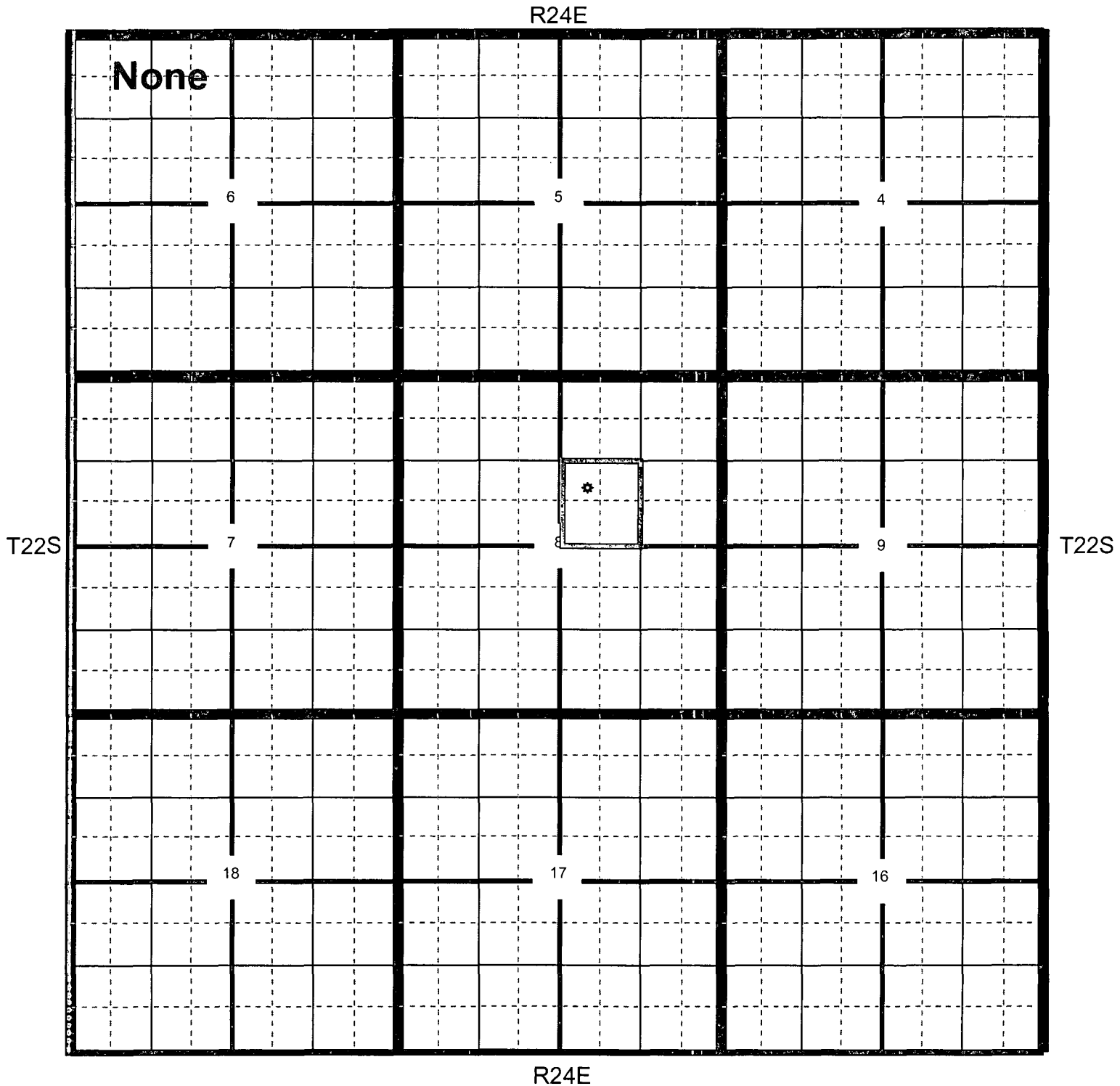
Unit Letter
G

Section
8

Township
22S

Range
24E

Trend Map 100'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

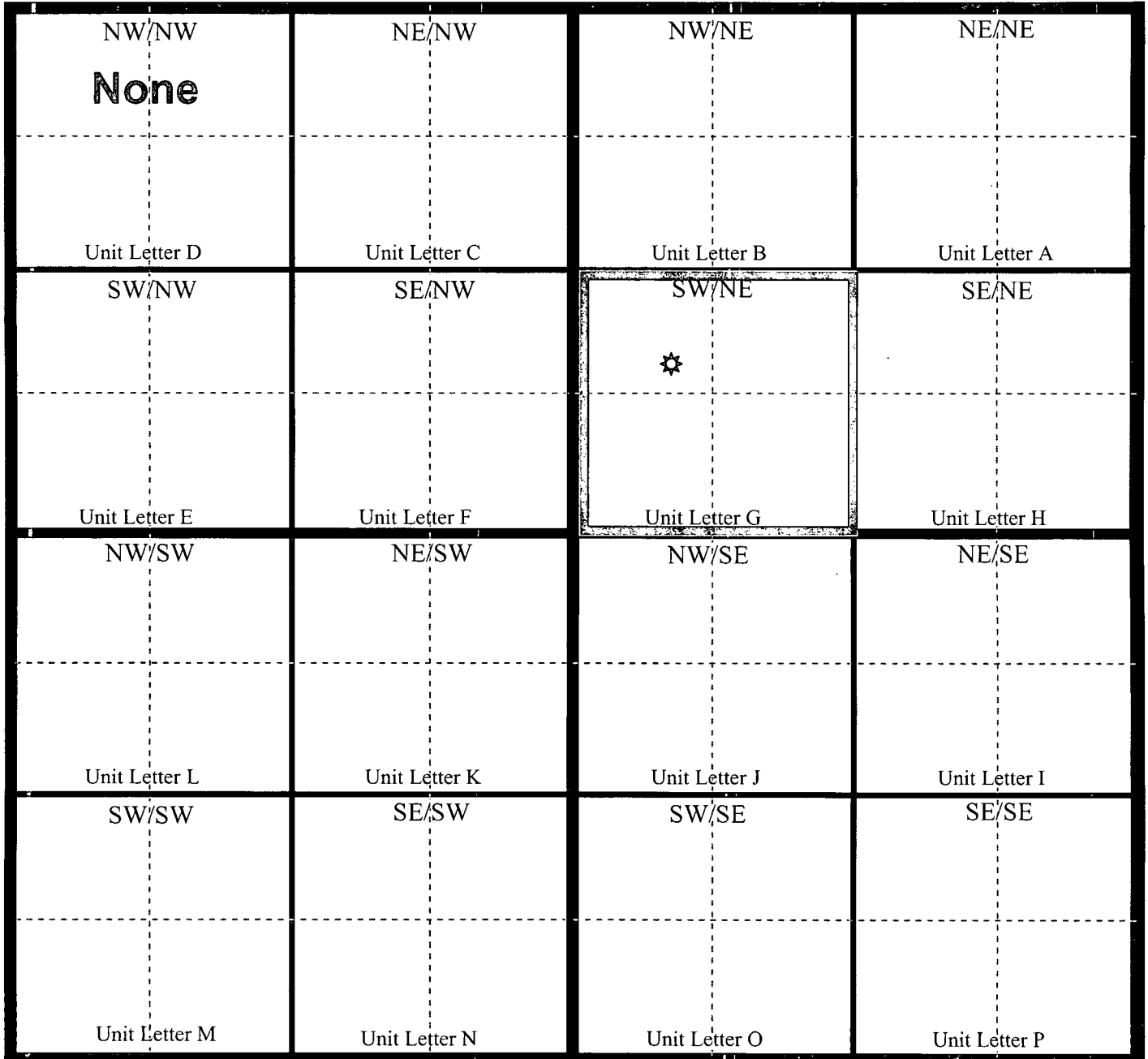
Oxy Old Ranch Knoll 8 Fed #7

County Eddy Unit Letter G Section 8 Township 22S Range 24E

Trend Map 100'

1

2



3

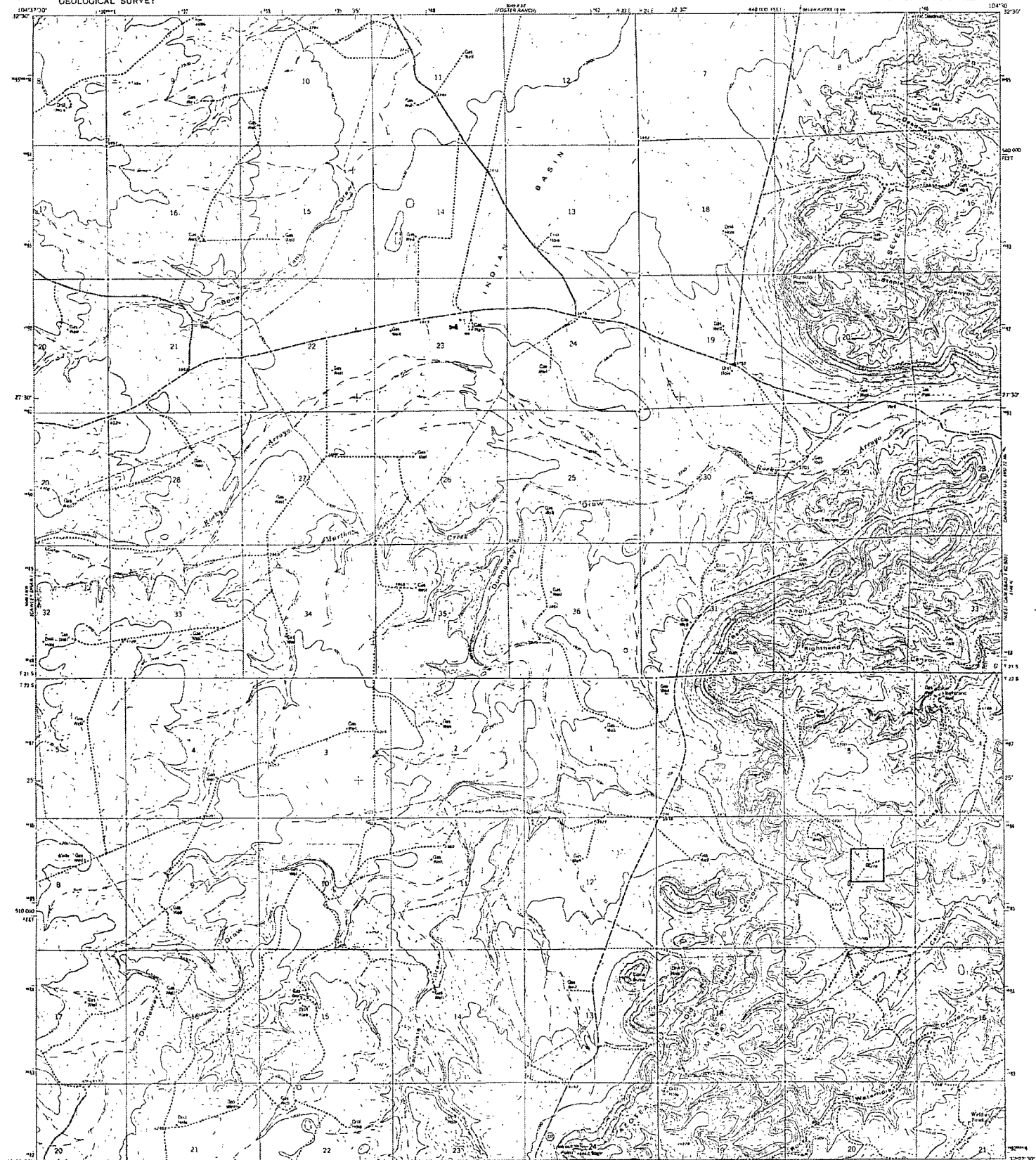
4

Old Ranch Knoll 8 Fed #7

Old Ranch Knoll 8 Fed #7

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MARTHA CREEK QUADRANGLE
NEW MEXICO—EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
N.T. & HAINSWORTH POINT # QUADRANGLE



Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NCAA
Topography by photostereometric methods from aerial photographs
taken 1972. Field checked 1978. Map edited 1978
Projection and 10,000-foot grid ticks. New Mexico
coordinate system, based on the Transverse Mercator
1000-meter Universal Transverse Mercator and Ticks,
zone 13, shown in blue. 1927 North American datum
Free red dashed lines indicate selected fence lines

SCALE 1:24,000

A horizontal scale bar with two rows of markings. The top row is labeled 'FEET' and has markings at 0, 1000, 2000, 3000, 4000, 5000, 6000, and 7000. The bottom row is labeled 'KILOMETER' and has markings at 0, 1, 2, 3, 4, 5, and 6. The bar is divided into segments corresponding to these markings.

CONTOUR INTERVAL 20 FEET
NATIONAL GEOGRAPHIC VERICAL DATUM OF 1929

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or unimproved surface
Secondary highway, hard surface	Unimproved road

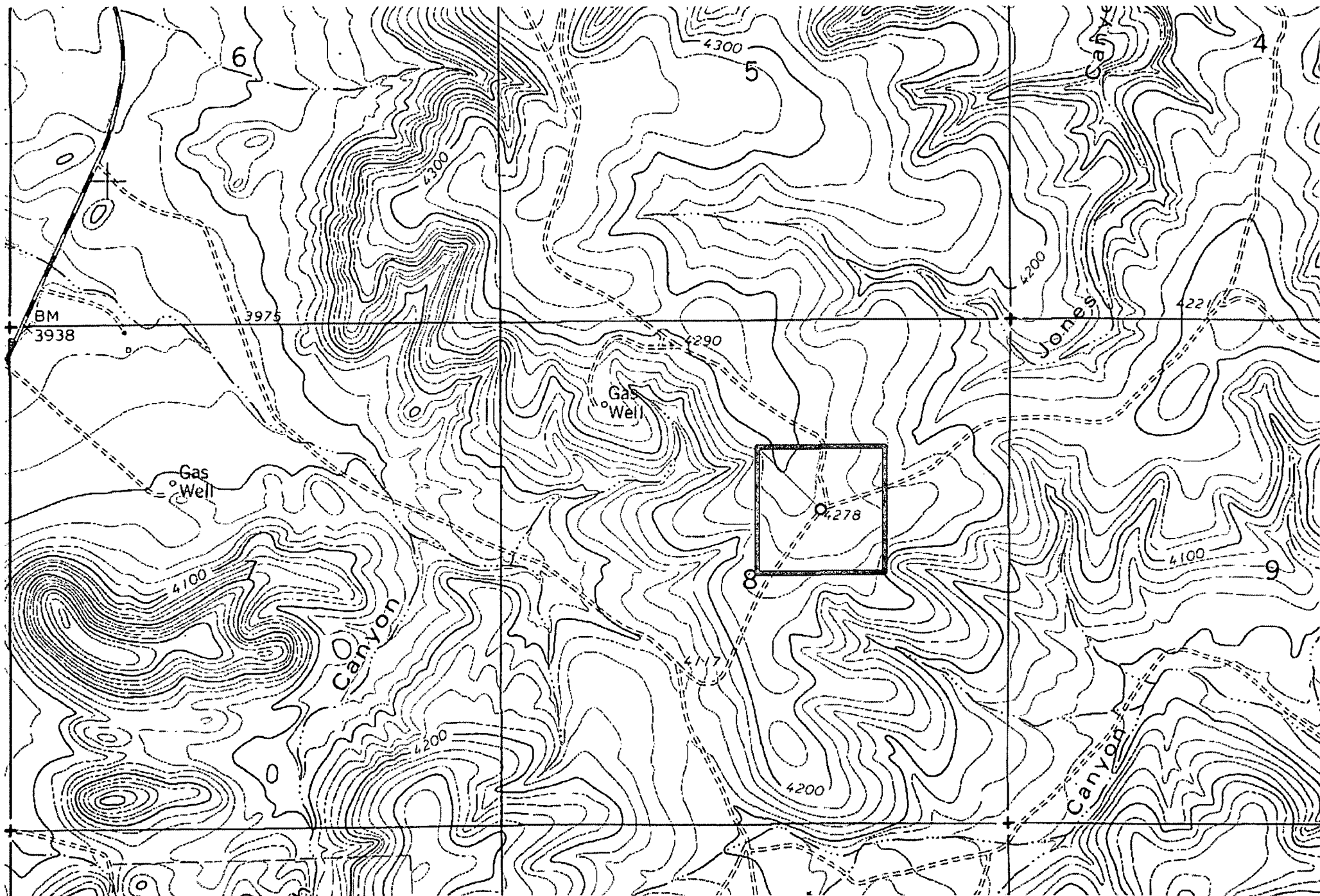
☒ Interstate Route ☐ U S Route ☐ State Route

THIS MAP COMPLEIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22091
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MARTHA CREEK, N. MEY
ROYA BANZANER MOHTE 19 JCS/BRANCHES
53227.5-610430/7.5

Oxy

Old Ranch Knoll 8 Fed #7



Laboratory Analytical Results Summary
OXY, Old Ranch Knoll 8 #7

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 1.5'	SP2 @ SURFACE	SP2 @ 1'	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.057
Toluene	BTEX 8021B		<0.050	<0.050	0.098	<0.050	0.088	<0.050	0.452
Ethylbenzene	BTEX 8021B		<0.050	0.266	0.934	<0.050	0.592	<0.050	1.86
Total Xylenes	BTEX 8021B		<0.150	<0.150	0.764	<0.150	0.59	<0.150	2.86
Total BTEX	BTEX 8021B		<0.300	<0.300	1.8	<0.300	1.27	<0.300	5.23
Chloride	SM4500Cl-B		64	16	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<50.0	20.4	133	<50.0	81.5	<50.0	196
DRO	TPH 8015M		13000	1310	2800	18200	3240	16400	5090

**Laboratory Analytical Results Summary
Old Ranch Knoll 8 #7**

		Sample	SP1 @ Surface	SP1 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32	<16.0

		Sample	SP2 @ Surface	SP2 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	48

		Sample	SP3 @ Surface	SP3 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	48

Laboratory Analytical Results Summary
Old Ranch Knoll 8 Fed #7

		Sample	SP1 @ Bottom
Analyte	Method	Date	10/9/13
			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
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP2 @ Bottom
Analyte	Method	Date	10/9/13
			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
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

2013



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

November 07, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: OLD RANCH KNOLL 8 #7

Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H202669-01)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0	
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/04/2012	ND	2.09	104	2.00	9.36	
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30	
Total BTEX	<0.300	0.300	11/04/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/05/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	13000	50.0	11/03/2012	ND	218	109	200	8.81	

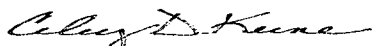
Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 286 % 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: (505) 397-0397

 Received: 11/01/2012
 Reported: 11/07/2012
 Project Name: OLD RANCH KNOLL 8 #7
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H202669-02)

BTEX 80218		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0	
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55	
Ethylbenzene*	0.266	0.050	11/04/2012	ND	2.09	104	2.00	9.36	
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30	
Total BTEX	<0.300	0.300	11/04/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 155 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/05/2012	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	20.4	10.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	1310	10.0	11/03/2012	ND	218	109	200	8.81	

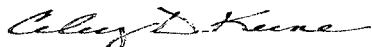
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1.5' (H202669-03)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0	
Toluene*	0.098	0.050	11/04/2012	ND	2.07	103	2.00	9.55	
Ethylbenzene*	0.934	0.050	11/04/2012	ND	2.09	104	2.00	9.36	
Total Xylenes*	0.764	0.150	11/04/2012	ND	6.29	105	6.00	9.30	
Total BTEX	1.80	0.300	11/04/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 209 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	133	10.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	2800	10.0	11/03/2012	ND	218	109	200	8.81	

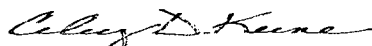
Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 147 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H202669-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0		
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55		
Ethylbenzene*	<0.050	0.050	11/04/2012	ND	2.09	104	2.00	9.36		
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30		
Total BTEX	<0.300	0.300	11/04/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
				S-06						

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	18200	50.0	11/03/2012	ND	218	109	200	8.81	

Surrogate: 1-Chlorooctane 80.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 334 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H202669-05)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0	
Toluene*	0.088	0.050	11/04/2012	ND	2.07	103	2.00	9.55	
Ethylbenzene*	0.592	0.050	11/04/2012	ND	2.09	104	2.00	9.36	
Total Xylenes*	0.590	0.150	11/04/2012	ND	6.29	105	6.00	9.30	
Total BTX	1.27	0.300	11/04/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 212 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77	
TPH 8015M									

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	81.5	10.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	3240	10.0	11/03/2012	ND	218	109	200	8.81	

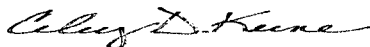
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	11/01/2012	Sampling Date:	10/29/2012
Reported:	11/07/2012	Sampling Type:	Soil
Project Name:	OLD RANCH KNOLL 8 #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H202669-06)

BTEX 8021B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0		
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55		
Ethylbenzene*	<0.050	0.050	11/04/2012	ND	2.09	104	2.00	9.36		
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30		
Total BTEX	<0.300	0.300	11/04/2012	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	16400	50.0	11/05/2012	ND	217	108	200	1.00	

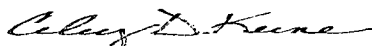
Surrogate: 1-Chlorooctane 69.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 264 % 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: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H202669-07)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.057	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	0.452	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	1.86	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	2.86	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTEX	5.23	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 350 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77	

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	196	10.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	5090	10.0	11/05/2012	ND	217	108	200	1.00	

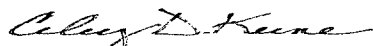
Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 200 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

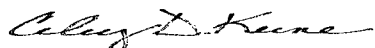
Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

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

[illegible]

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Relinquished By: <u>Jeff Oles</u> Date: <u>10/29/12</u> Time: <u>3:00</u>		Received By: <u>[Signature]</u> Date: <u>10/29/12</u> Time: <u>3:00</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: _____	
Relinquished By: <u>[Signature]</u> Date: <u>11/1/12</u> Time: <u>1:25</u>		Received By: <u>Jodi Benson</u> Date: <u>11/1/12</u> Time: <u>1:25</u>		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> 40 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No CHECKED BY: <u>[Signature]</u> (Initials)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____					

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

Page 10 of 10



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

February 12, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: OLD RANCH KNOLL 8 #7

Enclosed are the results of analyses for samples received by the laboratory on 02/07/13 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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". The signature is written in a cursive, flowing style.

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: 02/07/2013
 Reported: 02/12/2013
 Project Name: OLD RANCH KNOLL 8 #7
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/06/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H300349-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/08/2013	ND	448	112	400	7.41	

Sample ID: SP 1 @ 6" (H300349-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2013	ND	448	112	400	7.41	

Sample ID: SP 2 @ SURFACE (H300349-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2013	ND	448	112	400	7.41	

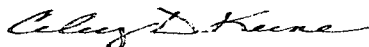
Sample ID: SP 2 @ 6" (H300349-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/08/2013	ND	448	112	400	7.41	

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: 02/07/2013
Reported: 02/12/2013
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 02/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H300349-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/08/2013	ND	448	112	400	7.41		

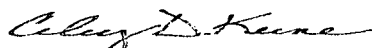
Sample ID: SP 3 @ 6" (H300349-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/08/2013	ND	448	112	400	7.41		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

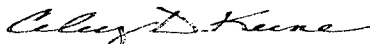
Notes and Definitions

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		Attn:													
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: SAME		City:													
Project #:		Project Owner: oxy		State:		Zip:													
Project Name: Old Ranch Knoll 8#7				Phone #:															
Project Location:				Fax #:															
Sampler Name: Roger Hernandez																			

FOR LAB USE ONLY		LABORATORY USE ONLY	CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				
H3000349																
1	SP1 @ Santa Fe													2-6-13	946	
2	SP1 @ 6"													2-6-13	950	
3	SP2 @ Santa Fe													2-6-13	1020	
4	@ 6"													2-6-13	1045	
5	SP3 @ Santa Fe													2-6-13	1105	
6	@ 6"													2-6-13	1128	

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>[Signature]</i>		Date: 2-7-13	Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 8:30			Time: <i>[Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:		REMARKS:	
Time:						
Delivered By: (Circle One)			Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:			Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)	

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

#26

October 18, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: OLD RANCH KNOLL 8 #7

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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: 10/15/2013
Reported: 10/18/2013
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/09/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ BOTTOM (H302488-01)

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	10/17/2013	ND	1.90	95.1	2.00	1.49		
Toluene*	<0.050	0.050	10/17/2013	ND	1.97	98.5	2.00	1.87		
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.00	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/17/2013	ND	5.96	99.4	6.00	1.35		
Total BTEX	<0.300	0.300	10/17/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	10/15/2013	ND	208	104	200	2.60		
DRO >C10-C28	<10.0	10.0	10/15/2013	ND	200	100	200	2.31		

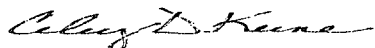
Surrogate: 1-Chlorooctane 98.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celest 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: 10/15/2013
Reported: 10/18/2013
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/09/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ BOTTOM (H302488-02)

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	10/17/2013	ND	1.90	95.1	2.00	1.49	
Toluene*	<0.050	0.050	10/17/2013	ND	1.97	98.5	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2013	ND	2.00	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/17/2013	ND	5.96	99.4	6.00	1.35	
Total BTX	<0.300	0.300	10/17/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.2 % 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	10/15/2013	ND	208	104	200	2.60	
DRO >C10-C28	<10.0	10.0	10/15/2013	ND	200	100	200	2.31	

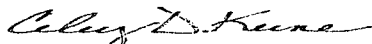
Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

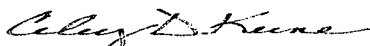
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 10px;">TPH 8015 m</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 10px;">BTEX</div> </div>																				
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: Oxy				City:																								
Project Name: Old Ranch Knoll 8 Fed #7				State: Zip:																								
Project Location: Eddy County, NM				Phone #:																								
Sampler Name: Price Brunson				Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME														
H302488	SP1 @ Bottom	6	1			✓					✓		10/9/13	12:05 pm	✓	✓												
	SP2 @ Bottom	6	1			✓					✓		10/9/13	12:10 pm	✓	✓												
<div style="text-align: center;"> <p>KAP</p> <p>10/10/13</p> </div>																												

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Relinquished By:	Date: 10/9/13 Time: 5:00pm	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 10/13/13 Time: 4:15	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY:	REMARKS:	

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

#54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Tuesday, January 15, 2013 10:11 AM
To: Cliff P. Brunson
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Oxy Old Ranch Knoll 8 Fed #7

Reference: OXY USA * Old Ranch Knoll 8-7 * 30-015-32621 * G-8-22s-24e * Eddy County, New Mexico
NMOCD Tracking Number: 2RP-1330 * Date of release: (Discovered 9/27/12)

Cliff,

Your proposal for remediation of the above referenced release is approved. The site is situated on Federal surface and may require like approval by BLM.

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.

If you have any questions or concerns, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, December 17, 2012 7:04 PM
To: Bratcher, Mike, EMNRD
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy Old Ranch Knoll 8 Fed #7

Mike,

This e-mail is to confirm our discussion on December 17, 2012 concerning the remediation plan for the release that occurred at the Oxy Old Ranch Knoll 8 Fed #7. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will excavate 1 to 1.5 feet across the entire impacted area as depicted on the attached site diagram. Confirmation samples for TPH and BTEX will be taken in the bottom of the excavation. The excavation will then be backfilled with clean soil. The depth to groundwater in this area is approximately 100 feet.

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

Oxy and I thank you for your assistance in handling this matter.

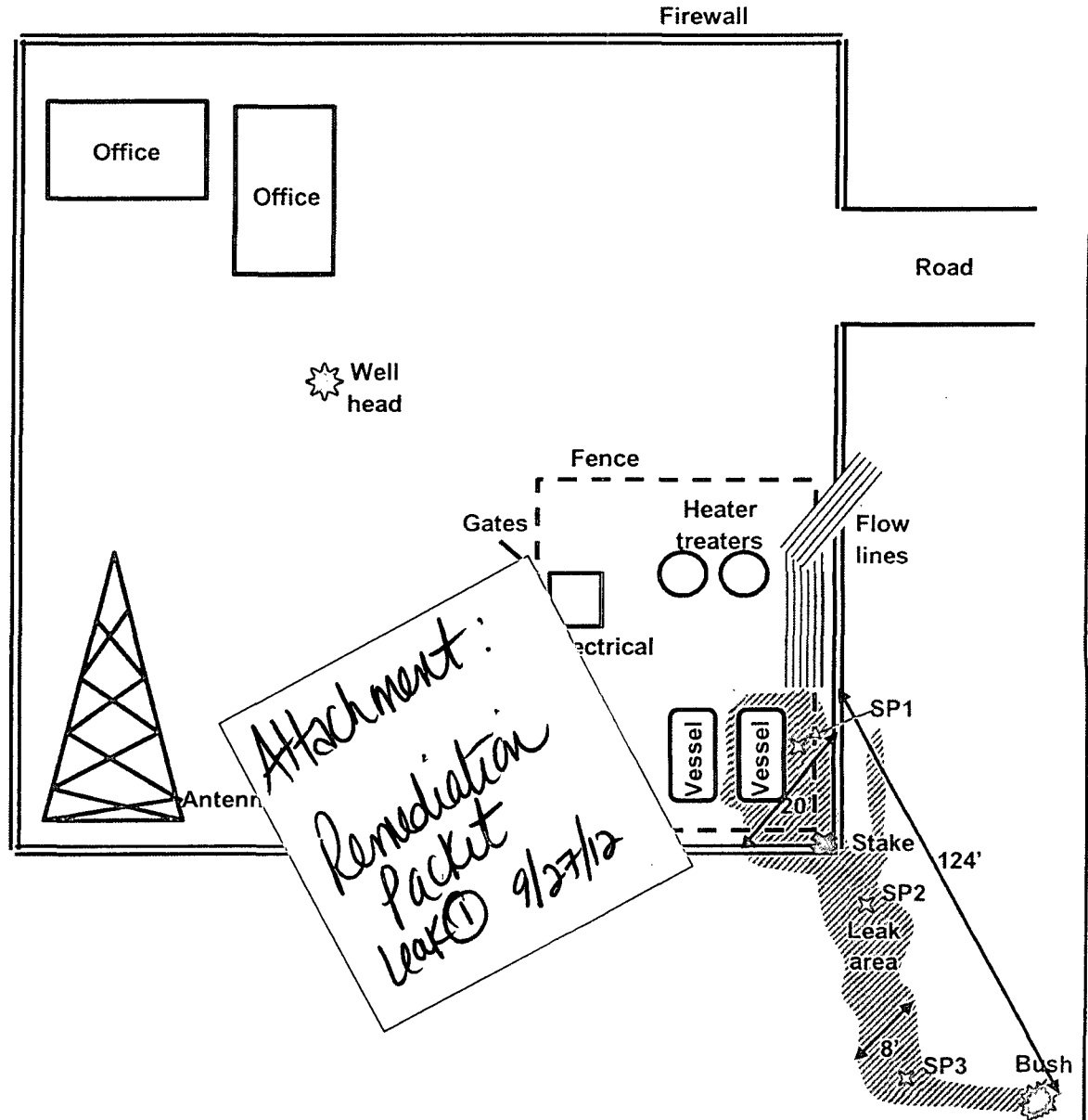
Thanks, Cliff

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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Oxy
Old Ranch Knoll 8 Federal #7



BBC International, Inc.	
Oxy	
Old Ranch Knoll 8 Fed #7	
Date: 10/4/2012	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2012



Groundwater Plot

Oxy Old Ranch Knoll 8 Fed #7

County
Eddy

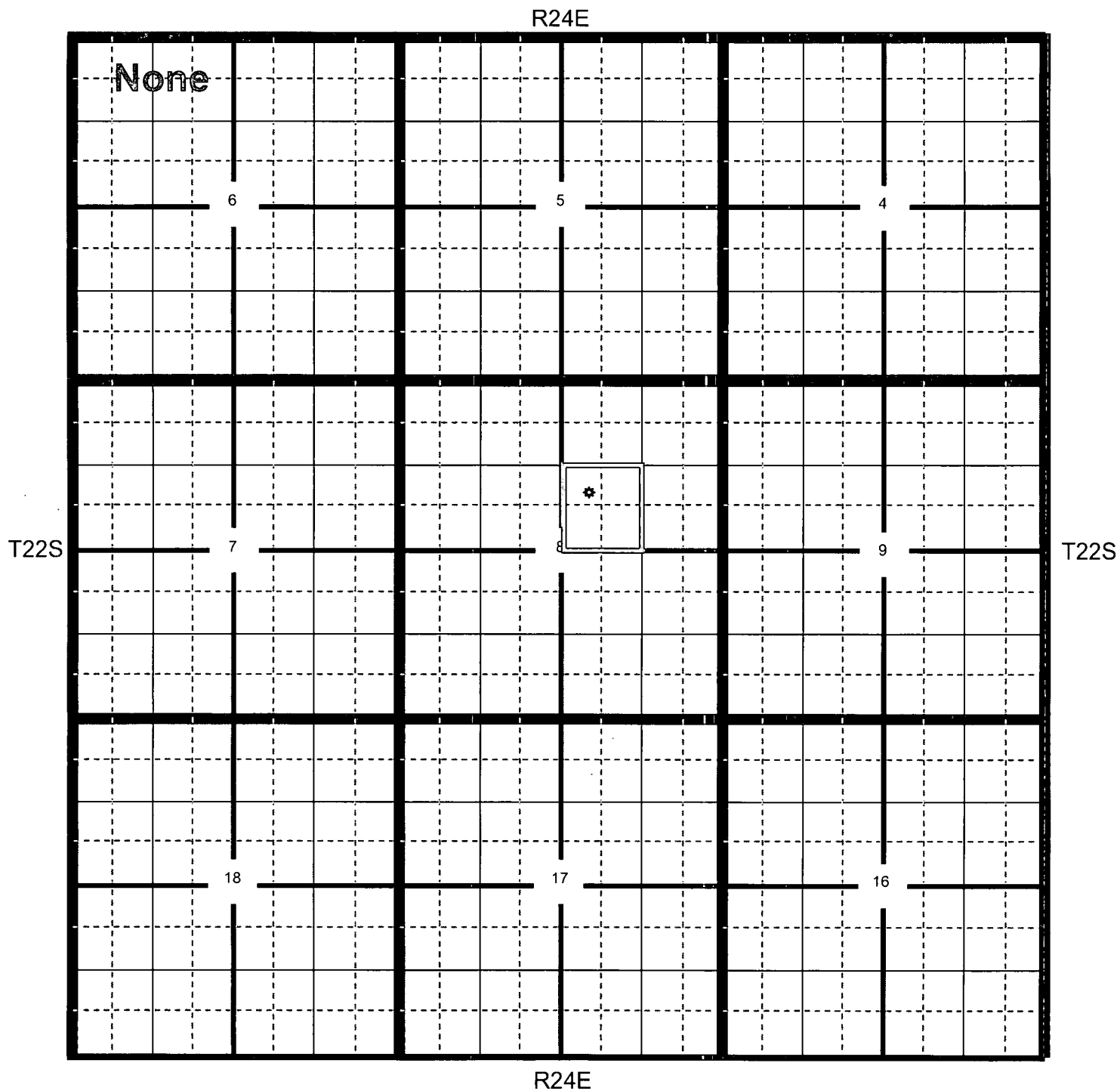
Unit Letter
G

Section
8

Township
22S

Range
24E

Trend Map 100'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases



Section Quarters

Oxy Old Ranch Knoll 8 Fed #7

County
Eddy

Unit Letter
G

Section
8

Township
22S

Range
24E

Trend Map 100'

1

2

NW/NW None	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
OXY, Old Ranch Knoll 8 #7

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 1.5'	SP2 @ SURFACE	SP2 @ 1'	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.057
Toluene	BTEX 8021B		<0.050	<0.050	0.098	<0.050	0.088	<0.050	0.452
Ethylbenzene	BTEX 8021B		<0.050	0.266	0.934	<0.050	0.592	<0.050	1.86
Total Xylenes	BTEX 8021B		<0.150	<0.150	0.764	<0.150	0.59	<0.150	2.86
Total BTEX	BTEX 8021B		<0.300	<0.300	1.8	<0.300	1.27	<0.300	5.23
Chloride	SM4500CI-B		64	16	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<50.0	20.4	133	<50.0	81.5	<50.0	196
DRO	TPH 8015M		13000	1310	2800	18200	3240	16400	5090

November 07, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: OLD RANCH KNOLL 8 #7

Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 16:25.

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

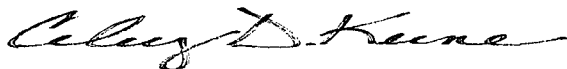
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: (505) 397-0397

 Received: 11/01/2012
 Reported: 11/07/2012
 Project Name: OLD RANCH KNOLL 8 #7
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H202669-01)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0	
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55	
Ethylbenzene*	<0.050	0.050	11/04/2012	ND	2.09	104	2.00	9.36	
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30	
Total BTEX	<0.300	0.300	11/04/2012	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/05/2012	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	13000	50.0	11/03/2012	ND	218	109	200	8.81	

Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 286 % 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: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H202669-02)

BTEX 8021B			mg/kg		Analyzed By: AP			S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0		
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55		
Ethylbenzene*	0.266	0.050	11/04/2012	ND	2.09	104	2.00	9.36		
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30		
Total BTEX	<0.300	0.300	11/04/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 155 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/05/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	20.4	10.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	1310	10.0	11/03/2012	ND	218	109	200	8.81	

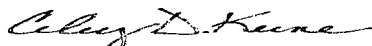
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1.5' (H202669-03)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0	
Toluene*	0.098	0.050	11/04/2012	ND	2.07	103	2.00	9.55	
Ethylbenzene*	0.934	0.050	11/04/2012	ND	2.09	104	2.00	9.36	
Total Xylenes*	0.764	0.150	11/04/2012	ND	6.29	105	6.00	9.30	
Total BTEX	1.80	0.300	11/04/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 209 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	133	10.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	2800	10.0	11/03/2012	ND	218	109	200	8.81	

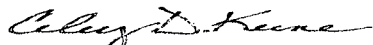
Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 147 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 11/01/2012
 Reported: 11/07/2012
 Project Name: OLD RANCH KNOLL 8 #7
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H202669-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0		
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55		
Ethylbenzene*	<0.050	0.050	11/04/2012	ND	2.09	104	2.00	9.36		
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30		
Total BTEX	<0.300	0.300	11/04/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	18200	50.0	11/03/2012	ND	218	109	200	8.81	

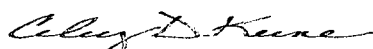
Surrogate: 1-Chlorooctane 80.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 334 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 11/01/2012
 Reported: 11/07/2012
 Project Name: OLD RANCH KNOLL 8 #7
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H202669-05)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0	
Toluene*	0.088	0.050	11/04/2012	ND	2.07	103	2.00	9.55	
Ethylbenzene*	0.592	0.050	11/04/2012	ND	2.09	104	2.00	9.36	
Total Xylenes*	0.590	0.150	11/04/2012	ND	6.29	105	6.00	9.30	
Total BTEX	1.27	0.300	11/04/2012	ND					

Surrogate: 4-Bromofluorobenzene (PID) 212 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77	

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	81.5	10.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	3240	10.0	11/03/2012	ND	218	109	200	8.81	

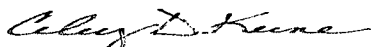
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

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 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 11/01/2012
 Reported: 11/07/2012
 Project Name: OLD RANCH KNOLL 8 #7
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H202669-06)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2012	ND	1.87	93.3	2.00	10.0		
Toluene*	<0.050	0.050	11/04/2012	ND	2.07	103	2.00	9.55		
Ethylbenzene*	<0.050	0.050	11/04/2012	ND	2.09	104	2.00	9.36		
Total Xylenes*	<0.150	0.150	11/04/2012	ND	6.29	105	6.00	9.30		
Total BTEX	<0.300	0.300	11/04/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	16400	50.0	11/05/2012	ND	217	108	200	1.00	

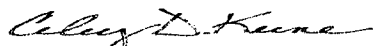
Surrogate: 1-Chlorooctane 69.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 264 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/01/2012
Reported: 11/07/2012
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H202669-07)

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.057	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	0.452	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	1.86	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	2.86	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTX	5.23	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 350 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/05/2012	ND	416	104	400	3.77	

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	196	10.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	5090	10.0	11/05/2012	ND	217	108	200	1.00	

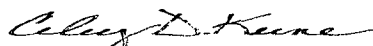
Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 200 % 63.6-154

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Caley D. Keene, Lab Director/Quality Manager

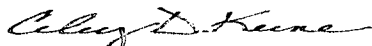
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene, Lab Director/Quality Manager



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	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Old Ranch Knoll 8 Fed #7	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-32621

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	8	22S	24E	1790	N	2170	E	Eddy County, NM

Latitude N 32.40720° Longitude W 104.51900°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release estimated 8 bbls	Volume Recovered	0 bbls
Source of Release	Unknown	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 09/27/2012 @ 3:30 pm	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM notified Oxy since the spill was discovered by James Amos of the BLM.		
By Whom?	Spill was discovered by James Amos of the BLM	Date and Hour 09/27/2012 @ 3:30 pm		
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.* An unknown source caused an estimated 8 bbls of oil and produced water to leak onto the ground. 0 bbls were recovered.				
Describe Area Affected and Cleanup Action Taken.* The area affected was approximately 20' x 20' and 8' x 104'. Remediation will be performed according to an OCD and BLM approved remediation plan.				
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: Christopher Jones		Approved by District Supervisor:		
Title: HES Specialist		Approval Date:		Expiration Date:
E-mail Address: Christopher.Jones@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/10/12		Phone: (575) 628-4121		

* Attach Additional Sheets If Necessary

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, April 18, 2013 3:40 PM
To: Cliff P. Brunson
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Oxy-Old Ranch Knoll 8 Federal #7 (1/15/13)-Remediation Plan

Reference: OXY USA * Old Ranch Knoll 8-7 * 30-015-3621 * G-8-22s-24e * Eddy County, New Mexico
OCD Tracking Number: 2RP-1521 * Date of release: 1/15/2013

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. BLM approval of remediation proposal may be required.

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.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Wednesday, April 03, 2013 3:49 PM
To: Bratcher, Mike, EMNRD
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy-Old Ranch Knoll 8 Federal #7 (1/15/13)-Remediation Plan

Mike,

This e-mail is to confirm our discussion on March 25, 2013 concerning the remediation plan for the release that occurred at the Oxy Old Ranch Knoll 8 Federal #7 (1/15/13). I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will surface scrape across the entire leak area at the site. As we discussed, this leak occurred on top of a previous leak in the south corner of the pad area. The previous leak was approved for remediation by you on January 15, 2013 (2RP 1330). That approved plan will take care of this latest one in that area. The site will then be backfilled with clean soil. The depth to groundwater in this area is approximately 100 feet.

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

Oxy and I thank you for your assistance in handling this matter.

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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Kathy Purvis

From: Amos, James <jamos@blm.gov>
Sent: Friday, April 19, 2013 8:27 AM
To: Cliff P. Brunson
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: FW: Oxy-Old Ranch Knoll 8 Federal #7 (1/15/13)-Remediation Plan

Cliff,

The chloride levels identified are low enough to not be much of an issue. On my initial inspection, I was seeing some minor amounts of condensate stuck to vegetation. I would prefer to spray the impacted areas with Micro Blaze and be done and not tear up the surface off the location. If that would be acceptable to Mike. Consider this an approval for either. Keep me informed as to starting date. thanks

On Thu, Apr 18, 2013 at 4:50 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Jim,

I have attached a remediation packet of information for your review. The packet includes a site diagram, groundwater information, lab data summary table, and the original laboratory data. In addition, I have attached the approval from the NMOCD for this plan below in this e-mail. Oxy proposes the same following plan to the BLM as approved by the NMOCD. Oxy will surface scrape across the entire leak area at the site. This leak occurred on top of a previous leak in the south corner of the pad area. The previous leak was approved for remediation on January 15, 2013. That approved plan will take care of this latest one in that area. The site will then be backfilled with clean soil. The depth to groundwater in this area is approximately 100 feet.

Oxy is therefore requesting the approval of the BLM to proceed with the submitted remediation plan. If you would please respond back via e-mail with your approval, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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Phone: (575) 397-6388
Fax: (575) 397-0397
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From: Mike Bratcher <mike.bratcher@state.nm.us>
Date: Thursday, April 18, 2013 3:39 PM

To: Cliff Brunson <cbrunson@bbcinternational.com>

Cc: Chris Jones <Christopher_Jones@oxy.com>, Ken Swinney <kswinney@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>, Kathy Purvis <kathy@bbcinternational.com>

Subject: RE: Oxy-Old Ranch Knoll 8 Federal #7 (1/15/13)-Remediation Plan

Reference: OXY USA * Old Ranch Knoll 8-7 * 30-015-3621 * G-8-22s-24e * Eddy County, New Mexico

OCD Tracking Number: 2RP-1521 * Date of release: 1/15/2013

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. BLM approval of remediation proposal may be required.

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.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]

Sent: Wednesday, April 03, 2013 3:49 PM

To: Bratcher, Mike, EMNRD
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy-Old Ranch Knoll 8 Federal #7 (1/15/13)-Remediation Plan

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

Oxy and I thank you for your assistance in handling this matter.

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

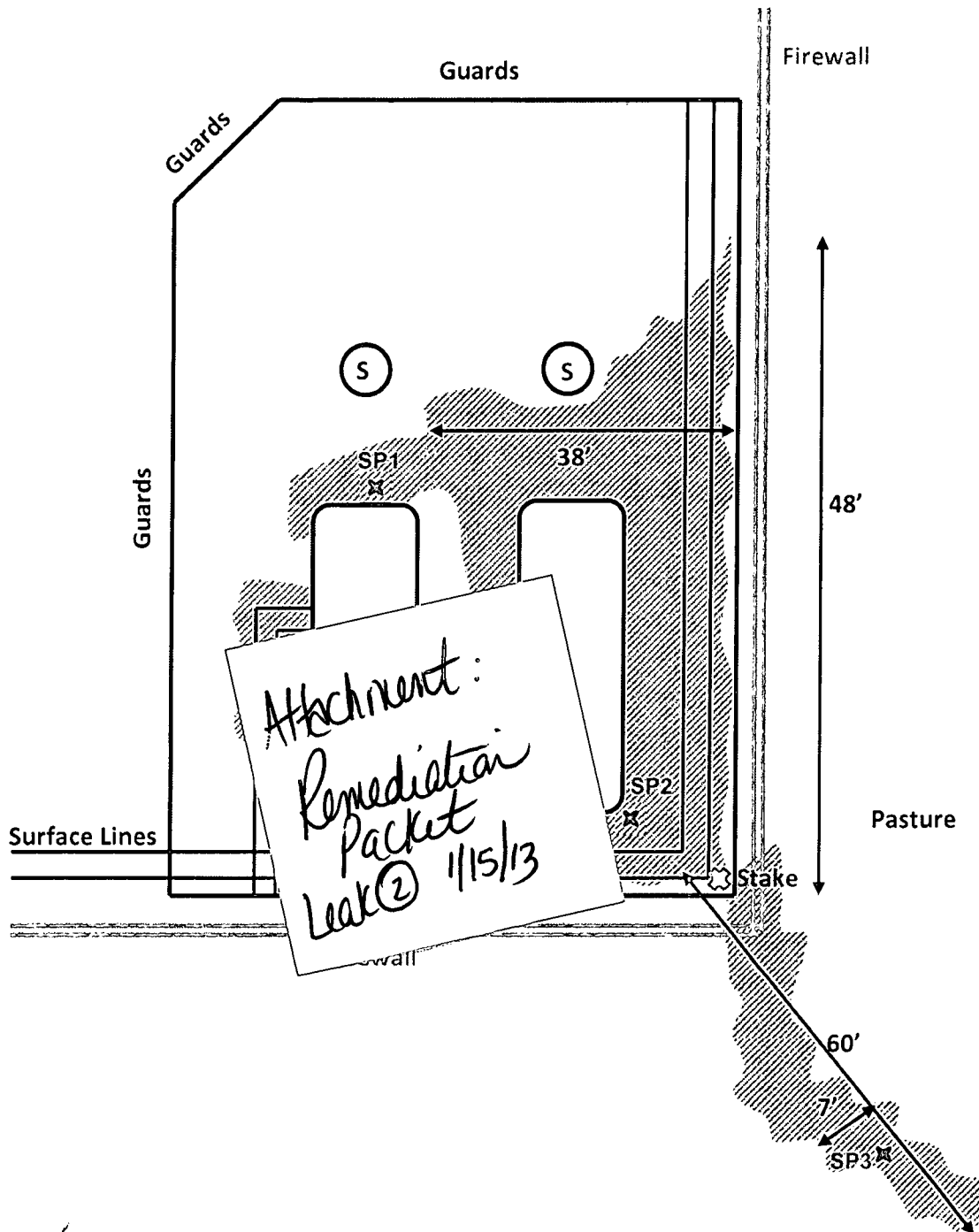
E-Mail: cbrunson@bbcinternational.com

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Oxy

Old Ranch Knoll 8 Federal #7 (Leak date: 1/15/13)



U/L G, Section 8, T22S, R24E
1790' FNL and 2170' FEL
Eddy County, NM
N 32.40720° W 104.51900°
API# 30-015-32621

BBC International, Inc.

Oxy

Old Ranch Knoll 8 Federal #7

Date: 01/24/13

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013



Groundwater Plot

Oxy Old Ranch Knoll 8 Fed #7

County
Eddy

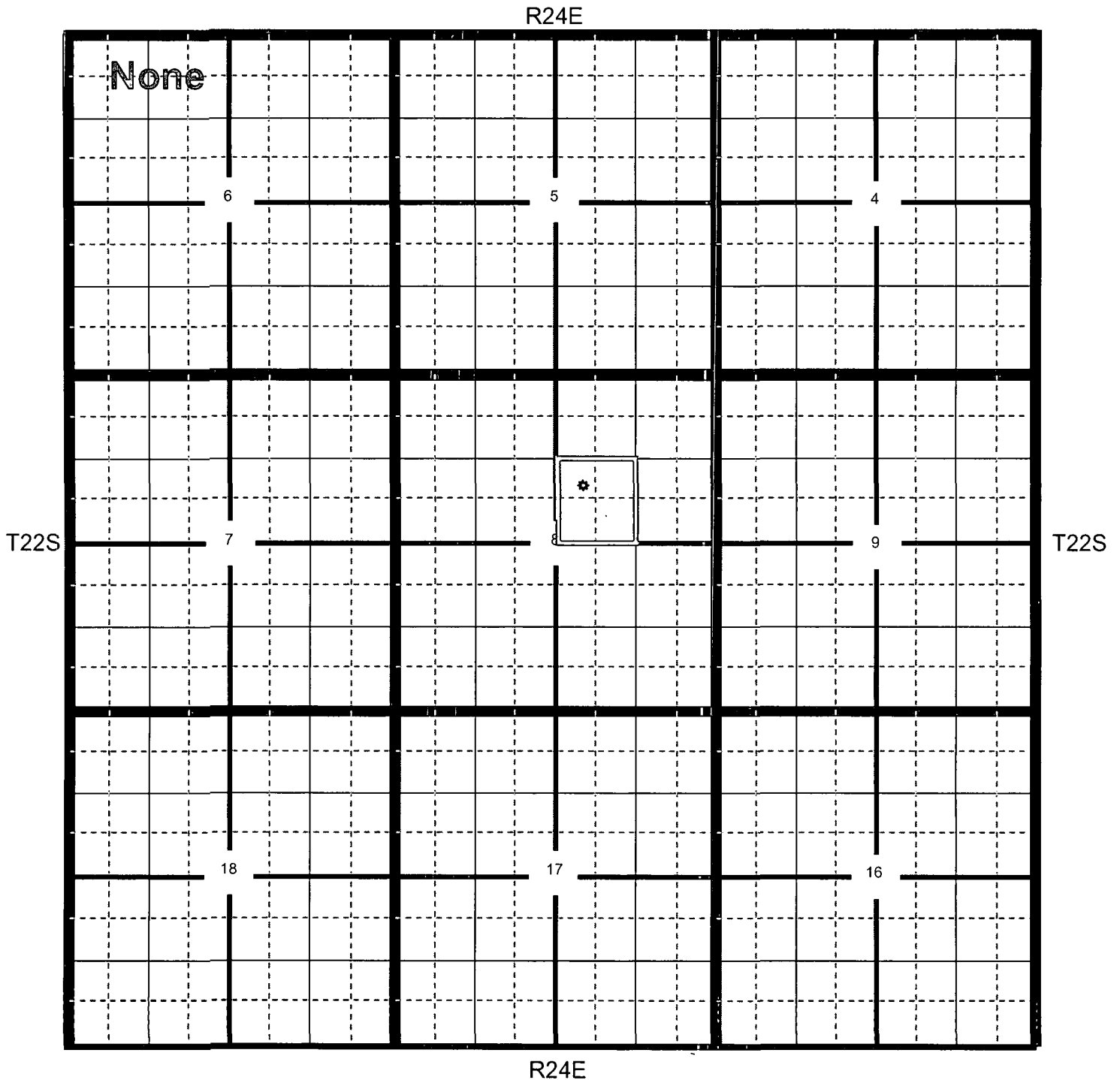
Unit Letter
G

Section
8

Township
22S

Range
24E

Trend Map 100'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

Oxy Old Ranch Knoll 8 Fed #7

County
Eddy

Unit Letter
G

Section
8

Township
22S

Range
24E

Trend Map 100'

1

2

NW/NW None	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE ☼ Unit Letter G	SE/NE
Unit Letter E	Unit Letter F	Unit Letter H	Unit Letter I
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
Old Ranch Knoll 8 #7

		Sample	SP1 @ Surface	SP1 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32	<16.0

		Sample	SP2 @ Surface	SP2 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	48

		Sample	SP3 @ Surface	SP3 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	48

February 12, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: OLD RANCH KNOLL 8 #7

Enclosed are the results of analyses for samples received by the laboratory on 02/07/13 8:30.

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

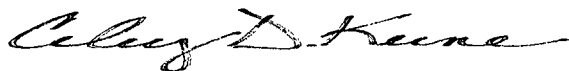
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 02/07/2013
Reported: 02/12/2013
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 02/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H300349-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/08/2013	ND	448	112	400	7.41	

Sample ID: SP 1 @ 6" (H300349-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2013	ND	448	112	400	7.41	

Sample ID: SP 2 @ SURFACE (H300349-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2013	ND	448	112	400	7.41	

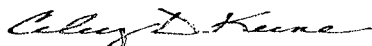
Sample ID: SP 2 @ 6" (H300349-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/08/2013	ND	448	112	400	7.41	

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: 02/07/2013
Reported: 02/12/2013
Project Name: OLD RANCH KNOLL 8 #7
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 02/06/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H300349-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2013	ND	448	112	400	7.41	

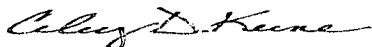
Sample ID: SP 3 @ 6" (H300349-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/08/2013	ND	448	112	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

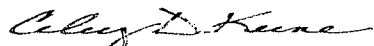
Notes and Definitions

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				Attn:																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: <i>SAME</i>																						
Project #: Project Owner: <i>oxy</i>				City:																						
Project Name: <i>Old Ranch Knoll 877</i>				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: <i>Roger Hernandez</i>				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<i>H300349</i>																										
1	<i>SP1 @ Santa Fe</i>	<i>C1</i>			<i>✓</i>				<i>✓</i>			<i>2-6-13</i>	<i>646</i>	<i>✓</i>												
2	<i>SP1 @ 6"</i>	<i>C1</i>			<i>✓</i>				<i>✓</i>			<i>2-6-13</i>	<i>658</i>	<i>✓</i>												
3	<i>SP2 @ Santa Fe</i>	<i>C1</i>			<i>✓</i>				<i>✓</i>			<i>2-6-13</i>	<i>1020</i>	<i>✓</i>												
4	<i>@ 6"</i>	<i>C1</i>			<i>✓</i>				<i>✓</i>			<i>2-6-13</i>	<i>1045</i>	<i>✓</i>												
5	<i>SP3 @ Santa Fe</i>	<i>C1</i>			<i>✓</i>				<i>✓</i>			<i>2-6-13</i>	<i>1105</i>	<i>✓</i>												
6	<i>@ 6"</i>	<i>C1</i>			<i>✓</i>				<i>✓</i>			<i>2-6-13</i>	<i>1128</i>	<i>✓</i>												

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Relinquished By: <i>RH</i>	Date: <i>2-7-13</i>	Received By: <i>Yodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>8:30</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	(Initials)		

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

26

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	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Old Ranch Knoll 8 Federal #7	Facility Type	
Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-32621

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	8	22S	24E	1790	North	2170	East	Eddy County, NM

Latitude N 32.40715° Longitude W 104.51900

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	20 bbls	Volume Recovered	0 bbls
Source of Release	Water dump line at Victaulic clamp froze and broke	Date and Hour of Occurrence	1/15/13	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher- OCD, James Amos-BLM, Terry Gregston-BLM			
By Whom?	Christopher Jones	Date and Hour 1/16/13 @ 7:13 am			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

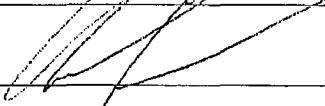
Describe Cause of Problem and Remedial Action Taken.*

A water dump line at the victaulic clamp froze and broke causing 20 bbls of produced water to leak onto the ground. 0 bbls were recovered and the line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The area affected is approximately 100' x 40'. A water dump line at the victaulic clamp froze and broke causing 20 bbls of produced water to leak onto the ground. Fluids were not recoverable. Remediation will be performed in accordance with an OCD and BLM approved remediation plan.

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: Christopher Jones		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Christopher.Jones@oxy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/17/13 Phone: (575) 628-4121			

* Attach Additional Sheets If Necessary