

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

HOBBS OCD  
AUG 04 2014  
RECEIVED

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	EC Hill B Federal #20	Facility Type	Well location
Surface Owner	DK Boyd	Mineral Owner	
		API No.	30-025-33495

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	34	23S	37E	1300	South	2280	East	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	10 bbls	Volume Recovered	0 bbls
Source of Release	Polish rod liner on well head failed	Date and Hour of Occurrence	10/04/2013	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?	Geoffrey Leking-NMOCD; Jennifer Van Curen-BLM		
By Whom?	Chancey Summers	Date and Hour	10/07/2013 @ 10:15 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.\*  
The polish rod liner on the well head failed causing 10 bbls of produced water to leak onto the ground. No fluids were recovered and the rod liner was tightened to prevent further leaking.

Describe Area Affected and Cleanup Action Taken.\*  
The area affected was approximately 30' x 20' with all of the leak staying on location. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD via email on 04/07/2014 and approved by Jennifer Van Curen of the BLM via email on 04/22/2014.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Chancey Summers	Approved by Environmental Specialist:	
Title:	HES Advisor	Approval Date:	8-9-14
E-mail Address:	Chancey.Summers@oxy.com	Expiration Date:	
Date:	7-31-14	Conditions of Approval:	
Phone:	(575) 397-8216	Attached	<input type="checkbox"/>
		LRP-3211	

\* Attach Additional Sheets If Necessary

AUG 04 2014

09112 16696  
A701421 650114  
P701421 650264

# Closure Report

Site Description	
Site Name:	EC Hill B Federal #20
Company:	Oxy Permian Ltd.
Legal Description:	U/L O, Section 34, T23S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.25729° W 103.14954°

Release Data	
Date of Release:	10/04/2013
Type of Release:	Produced water
Source of Release:	Polish rod liner on well head failed
Volume of Release:	10 bbls
Volume Recovered:	0 bbls

Remediation Specifications	
Remediation Parameters:	Excavate to a depth of 3 feet in the area of SP1. Excavate to a depth of 1 foot in the areas around SP2 and SP3. Backfill the site with clean soil. Berm the pad.
Remediation Activities:	07/14/14 to 07/16/14

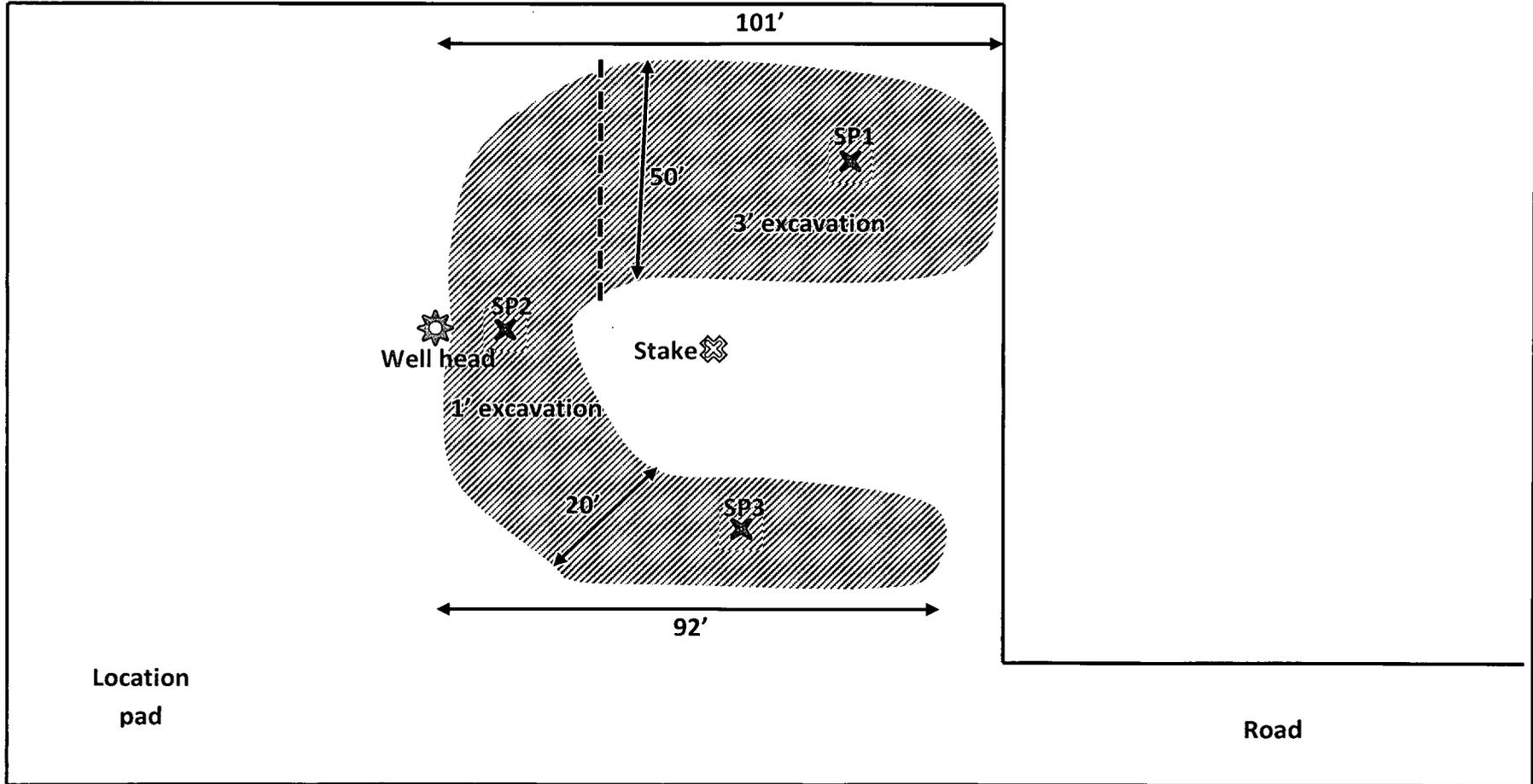
Plan Sent to OCD:	04/05/2014	Email from Cliff Brunson to Geoff Leking
OCD Approval of Plan:	04/07/2014	Email from Geoff Leking to Cliff Brunson
Plan Sent to BLM:	04/21/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	04/22/2014	Email from J. Van Curen to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 10/15/2013
Final C-141	Signed 07/31/2014
Site Diagram	October 2013
Groundwater Plot	75'
TOPO Maps	October 2013
Lab Summary	01/29/2014
Lab Analysis	01/29/2014
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.	08/01/2014



Oxy  
EC Hill B Federal #20



U/L O, Section 34, T23S, R37E  
1300' FSL and 2280' FEL  
Lea County, NM  
API# 30-025-33495  
GPS at stake: N 32.25729° W 103.14954°

BBC International, Inc.	
Oxy	
EC Hill B Federal #20	
Date: 10/14/13	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013

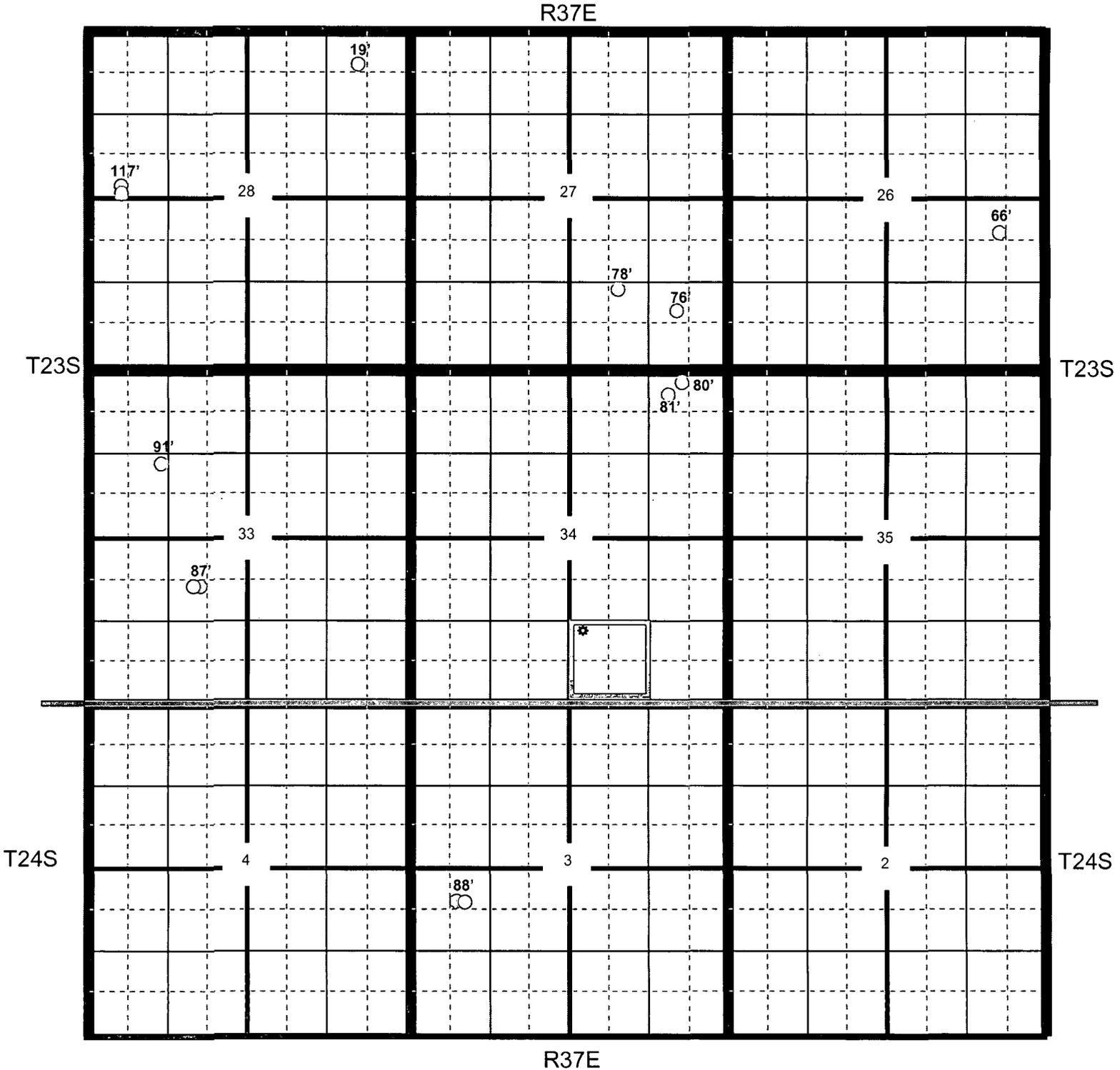


# Groundwater Plot

## Oxy EC Hill B Federal #20

County: Lea County      Unit Letter: O      Section: 34      Township: 23S      Range: 37E

Trend Map      75'



★ Location      ○ OCD      ○ USGS      ○ SEO      ★ All Databases

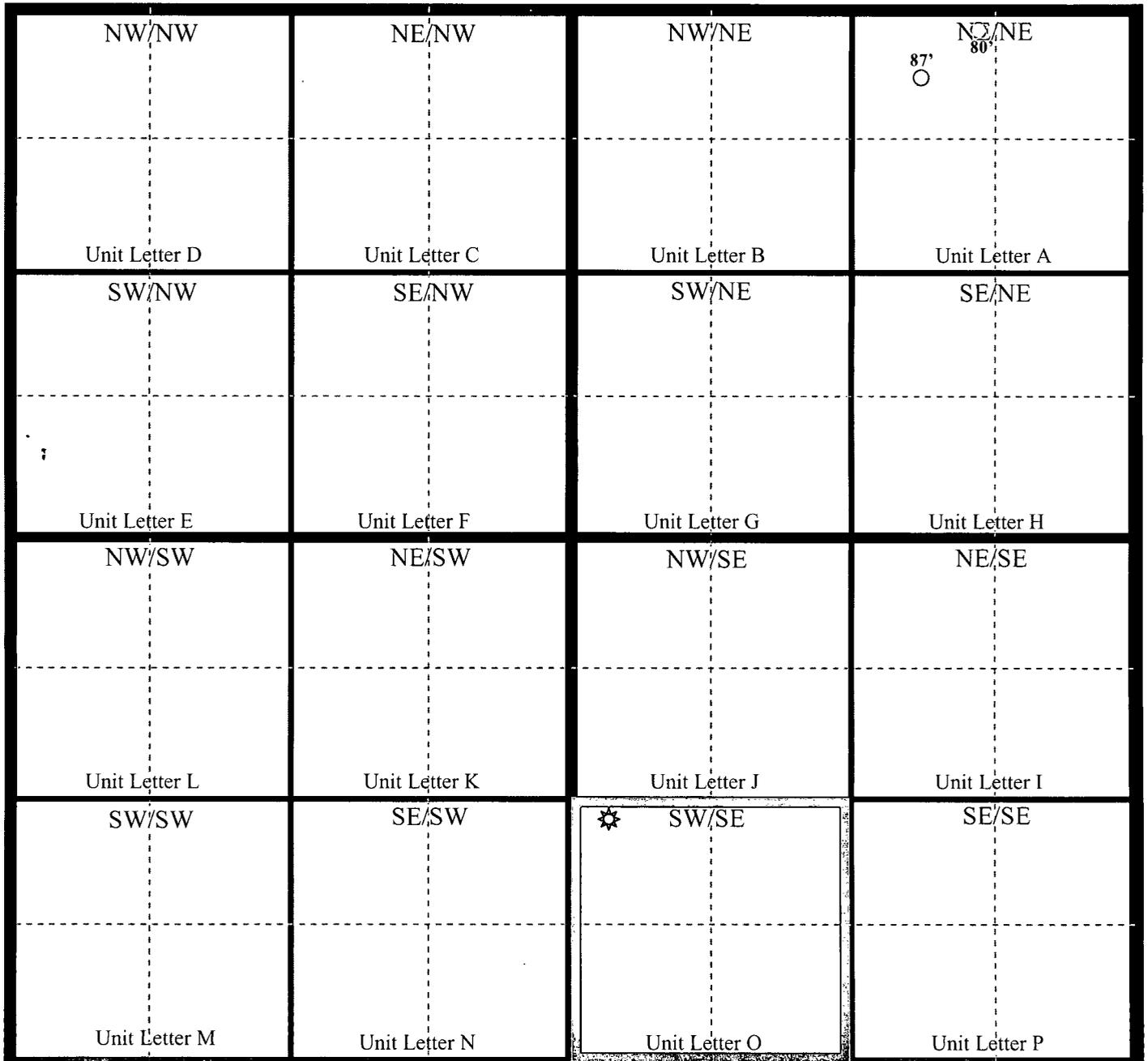
# Oxy EC Hill B Federal #20

County: Lea      Unit Letter: O      Section: 34      Township: 23S      Range: 37E

Trend Map 75'

1

2



3

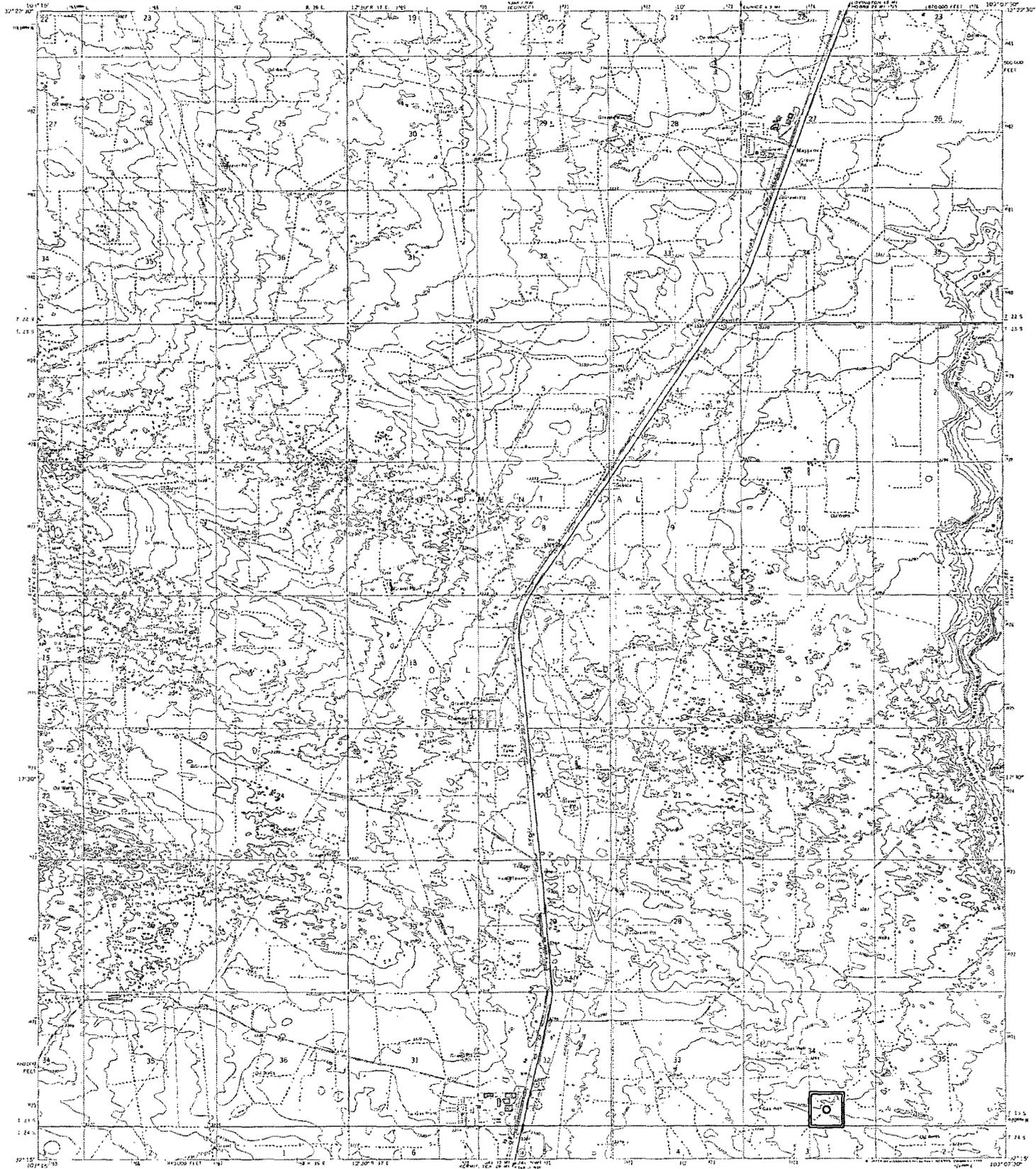
4

# Oxy

## EC Hill B Federal #20

RATTLESNAKE CANYON QUADRANGLE  
NEW MEXICO-LEA CO  
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Mapped, revised, and published by the Geological Survey  
Control by USGS and NGS/NDA  
Topography by photogrammetry; contour lines by aerial  
photography; 1:25,000 scale, 1950  
Projection projection, 1927 North American datum  
10,000-foot grid based on true Mexico central meridian,  
100° 00' 00" W  
1000-foot Universal Transverse Mercator grid lines,  
zone 18, UTM system  
This map includes the 1927 North American datum  
Roads shown in purple; contour lines, spot heights  
1:25,000 scale, 1950  
1:25,000 scale, 1950  
1:25,000 scale, 1950



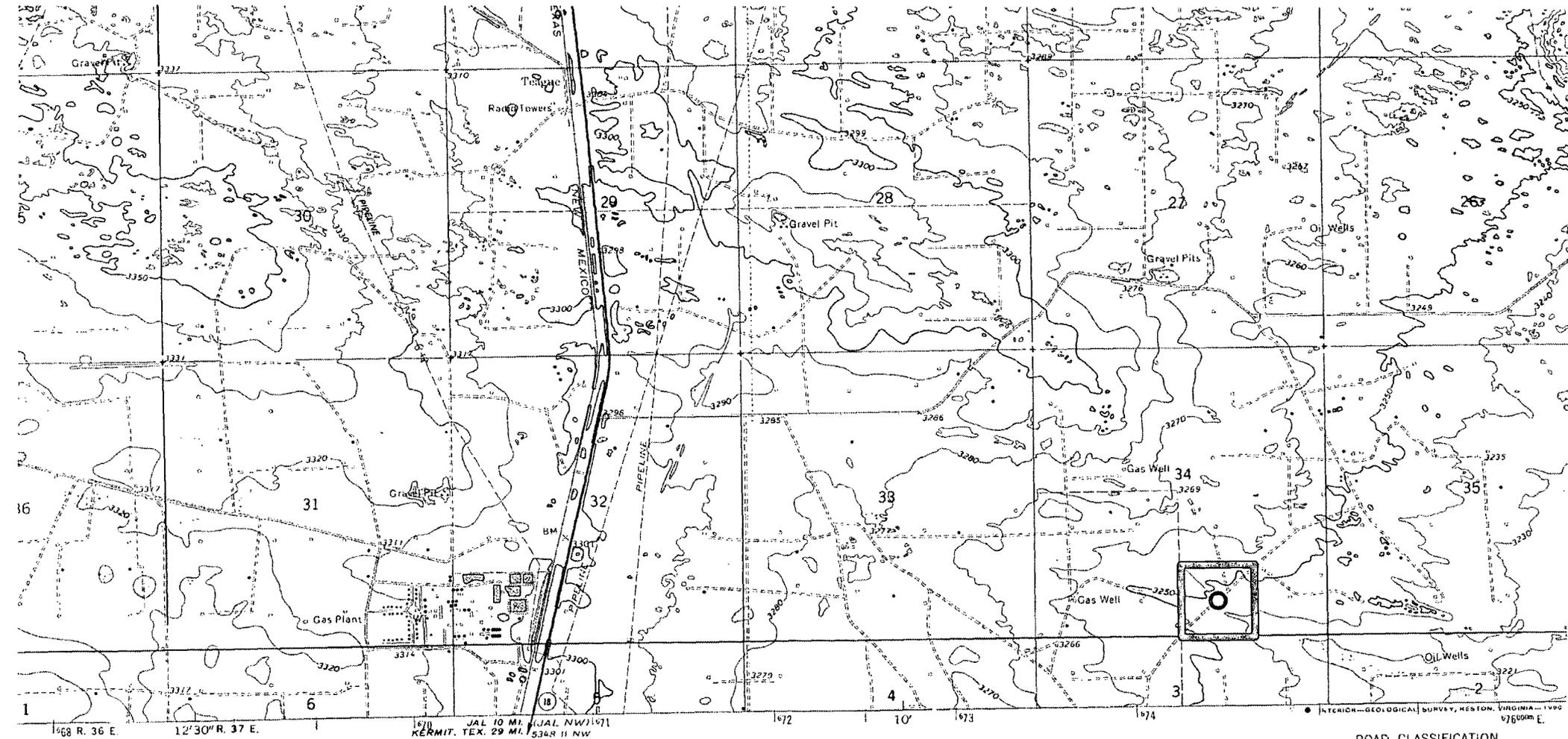
ROAD CLASSIFICATION  
Primary highway, all weather, 12' or more road, all weather,  
hard surface, improved surface  
Secondary highway, all weather, unpaved road, fair to dry  
third surface, all weather  
Other roads  
Scale 1:24,000

RATTLESNAKE CANYON, N. MEX.  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
1950  
GSA 1:24,000 (1950) 1:24,000

THIS MAP CONFORMS WITH NATIONAL MAP ACTUALLY STANARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, FEDERAL BUREAU OF RESEARCH, VIRGINIA 22199  
A FOLDER OF TOPOGRAPHIC MAPS AND QUADRANGLES IS AVAILABLE ON REQUEST

# Oxy

## EC Hill B Federal #20



SCALE 1:24 000

1 MILE

### ROAD CLASSIFICATION

Primary highway, all weather, hard surface      Light-duty road, all weather, improved surface

**Laboratory Analytical Results Summary**  
**E.C. Hill B Fed #20**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	1/29/14	1/29/14	1/29/14
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1700</b>	<b>1280</b>	<b>384</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>553</b>	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'
Analyte	Method	Date	1/29/14	1/29/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>512</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<b>14.2</b>	n/a

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	1/29/14	1/29/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>256</b>	<16.0
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

February 07, 2014

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

RE: E. C. HILL B FED #20

Enclosed are the results of analyses for samples received by the laboratory on 01/31/14 16:20.

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](http://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:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H400313-01)**

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	02/06/2014	ND	2.42	121	2.00	1.65		
Toluene*	<0.050	0.050	02/06/2014	ND	2.37	119	2.00	1.64		
Ethylbenzene*	<0.050	0.050	02/06/2014	ND	2.38	119	2.00	1.10		
Total Xylenes*	<0.150	0.150	02/06/2014	ND	6.89	115	6.00	0.798		
Total BTEX	<0.300	0.300	02/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>1700</b>	16.0	02/07/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/04/2014	ND	203	101	200	3.08		
DRO >C10-C28	<b>553</b>	10.0	02/04/2014	ND	190	95.1	200	1.59		

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

**Sample ID: SP 1 @ 3' (H400313-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>1280</b>	16.0	02/07/2014	ND	416	104	400	0.00		

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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:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 5' (H400313-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>384</b>	16.0	02/07/2014	ND	416	104	400	0.00		

**Sample ID: SP 2 @ 1' (H400313-04)**

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	02/06/2014	ND	2.42	121	2.00	1.65		
Toluene*	<0.050	0.050	02/06/2014	ND	2.37	119	2.00	1.64		
Ethylbenzene*	<0.050	0.050	02/06/2014	ND	2.38	119	2.00	1.10		
Total Xylenes*	<0.150	0.150	02/06/2014	ND	6.89	115	6.00	0.798		
Total BTEX	<0.300	0.300	02/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>512</b>	16.0	02/07/2014	ND	416	104	400	0.00		

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	02/04/2014	ND	203	101	200	3.08		
<b>DRO &gt;C10-C28</b>	<b>14.2</b>	10.0	02/04/2014	ND	190	95.1	200	1.59		

Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 3' (H400313-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/07/2014	ND	416	104	400	0.00		

**Sample ID: SP 3 @ 1' (H400313-06)**

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	02/06/2014	ND	2.42	121	2.00	1.65		
Toluene*	<0.050	0.050	02/06/2014	ND	2.37	119	2.00	1.64		
Ethylbenzene*	<0.050	0.050	02/06/2014	ND	2.38	119	2.00	1.10		
Total Xylenes*	<0.150	0.150	02/06/2014	ND	6.89	115	6.00	0.798		
Total BTEX	<0.300	0.300	02/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/07/2014	ND	416	104	400	0.00		

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	02/04/2014	ND	203	101	200	3.08		
DRO >C10-C28	<10.0	10.0	02/04/2014	ND	190	95.1	200	1.59		

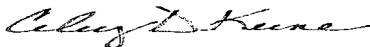
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 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:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

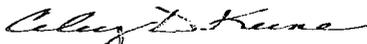
**Sample ID: SP 3 @ 2' (H400313-07)**

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2014	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

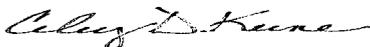
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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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

12/1

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
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													
Project #: Project Owner: OXY		City:													
Project Name: EC Hill B FEB #20		State: Zip:													
Project Location:		Phone #:													
Sampler Name: GARY RAY		Fax #:													

FOR LAB USE ONLY		(GRAB OR C) OMP	# CONTAINERS	MATRIX						PRESERV		SAMPLING		TPH	BTX	CL-
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME			
H400313																
1	SP1@1'		1			✓			✓		1-29-14	10:10	✓	✓	✓	
2	@3'		1			✓			✓		1-29-14	11:00			✓	
3	@5'		1			✓			✓		1-29-14	11:30			✓	
4	SP2@1'		1			✓			✓		1-29-14	1:45	✓	✓	✓	
5	@3'		1			✓			✓		1-29-14	2:00			✓	
6	SP3@1'		1			✓			✓		1-29-14	2:40	✓	✓	✓	
7	C2'		1			✓			✓		1-29-14	2:55			✓	

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: Gary Ray	Date: 1-31-14	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:00		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: [Signature]	Date: 1-31-14	Received By: Jodi Henson	REMARKS:	
	Time: 4:20			
Delivered By: (Circle One)	4:7	Sample Condition	CHECKED BY: [Signature]	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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

#54

## Jennifer Gilkey

---

**From:** Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>  
**Sent:** Monday, April 07, 2014 1:16 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-EC Hill B Federal #20-Remediation Plan

Cliff

Per our conversation of April 2, 2014 and review of the below email and attachment, the remediation plan is approved for the OXY EC Hill B Federal #20. Thank you.

Geoffrey Leking  
Environmental Specialist  
NMOCD-Hobbs  
1625 N. French Drive  
Hobbs, NM 88240  
Office: (575) 393-6161 Ext. 113  
Cell: (575) 399-2990  
email: [geoffreyr.leting@state.nm.us](mailto:geoffreyr.leting@state.nm.us)

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Saturday, April 05, 2014 7:45 PM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-EC Hill B Federal #20-Remediation Plan

Geoff,

This e-mail is to confirm our conversation on April 2, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 3 feet in the leak area around SP1 and excavate to a depth of 1 foot over the rest of the leak area represented by SP2 and SP3 as depicted on the attached site diagram. The site will then be backfilled with clean soil.

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

Thanks, Cliff

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

\*\*\*\*\*

## Kathy Purvis

---

**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Tuesday, April 22, 2014 6:55 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: Oxy-Remediation Plans Approval Status

EC Hill B Fed #20 --Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: SP1 is 3' and SP2 & SP3 is 6" minimal removal. Berm well pad to prevent fluids from leaving the well pad. Pay close attention to not disturb old drilling pit.

Cypress 34 Fed #1 -- Received plan in on 4-6-14 and approved on 4-16-14 after visiting with CJ. Stips are to repair cattle guard and fence along lease road, correct erosion issue in the NW, need sidewall samples from area to lined to unlined behind two tanks, Lease number missing on well sign, SP1 min is 3', SP2 is 1' minimal --sample to be sure TPH is less than 1000. SP3 & SP6 is 1' removal and SP5 is 2' removal. SP6 should be lined with a small berm to catch load line spillage from trucks. **Samples from confirmations must be sent in.**

Cedar Canyon 28 Fed #4 -- Received plan on 4-6-14 and approved plan on 4-16-14 after reviewing with CJ. Excavating 2' in areas of SP1 & SP2, and 1' removal from SP3. The area at SP1 & SP2 will have a clay liner used. Discussed plan with CJ and let him know that since there are hydrocarbons around the heater treater and separator that the clay will not be effective due to the hydrocarbons breaking down the clay rather quickly. If spill occurs in that area, it will still need to be delineated.

Patton 17 Fed #6 -- Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: Would allow surface scrape on well pad. There is no need to dig into pit with low levels of chlorides. Pit needs to be capped anyway. Recommend no or little digging, capping and topsoil.

MLMU #246 -- Plan received for remediation on 4-5-14 and approved after reviewing with CJ on 4-16-14. Sidewalls need to be taken for horizontal cleanup. **Confirmation samples need to be sent in.**

Bradley 13 Fed Battery -- Received plan in for remediation of spill on 4-6-14 and approved on 4-16-14 after visiting with CJ. Need to delineate north of tank. Tank needs to have integrity test completed and repairs made or replacement, remediate the release around the pumpjack and north to the pit area. No plan necessary, just complete the work for this area and test to be sure that contaminants have been removed. Be careful to not dig into pit contents. Remove hot material and cap if necessary. Deep bury or haul off the cement slab. **Confirmation samples from wellhead and pit area will need to be sent in.**

Confirmation samples or delineation samples are very important not only to the BLM but also the operator. This is what will determine the plan of action in reclamation of the plugged well. Without that information, massive mistakes will be (have been) made, costing hundreds of thousands in remediation of plugged wells. Strategic thinking is priceless.

Jennifer

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220

OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 21, 2014 at 4:02 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

I am following up on several remediation plans that I sent to you for approval a couple of weeks ago. Could you give me an update status on the following Oxy sites:

- EC Hill B Fed #20
- Cypress 34 Fed #1
- Cedar Canyon 28 Fed #4
- Patton 17 Fed #6
- MLM #246
- Bradley 13 Fed Battery

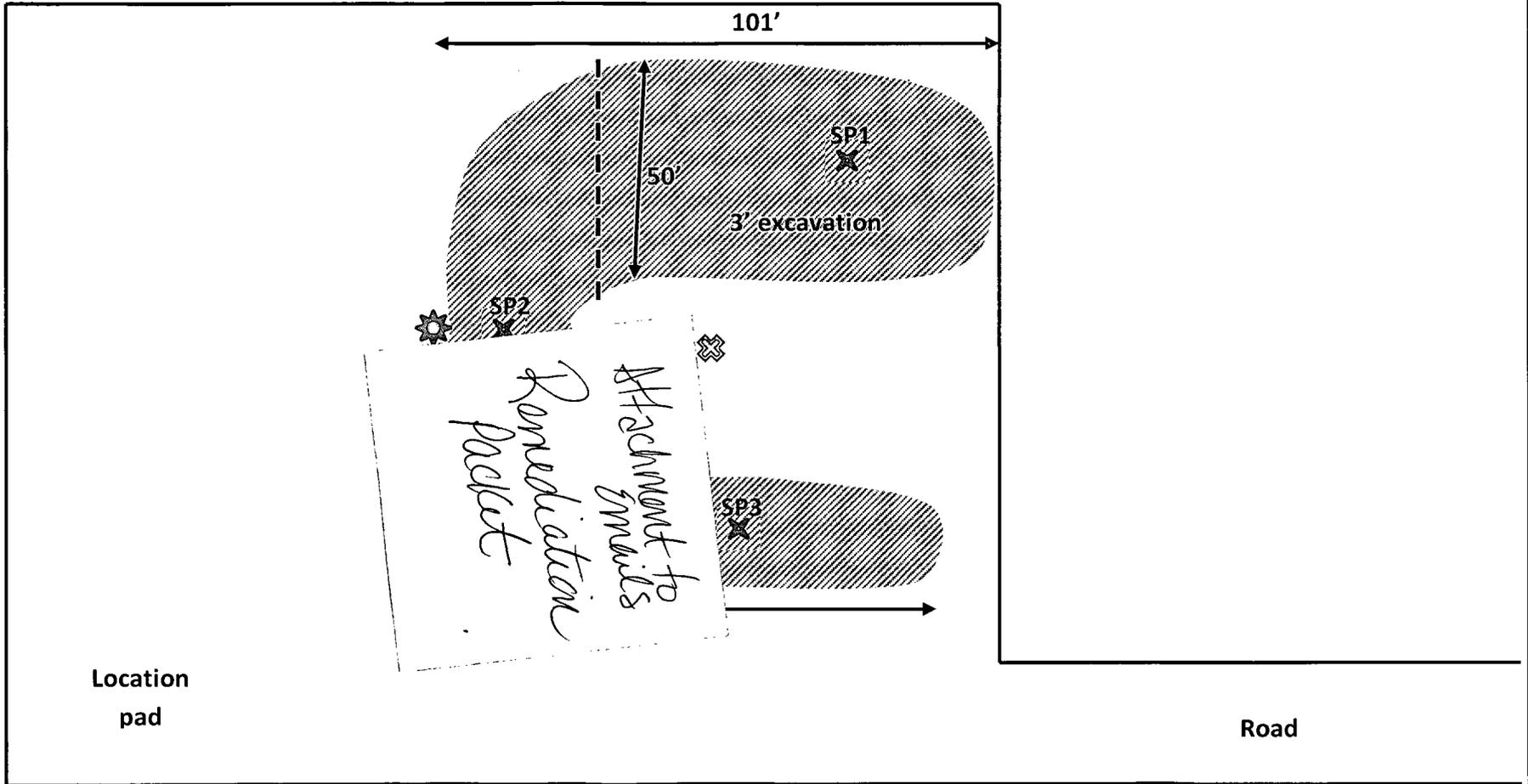
Thanks, Cliff

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](mailto:cbrunson@bbcinternational.com)

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Oxy  
EC Hill B Federal #20



U/L O, Section 34, T23S, R37E  
1300' FSL and 2280' FEL  
Lea County, NM  
API# 30-025-33495  
GPS at stake: N 32.25729° W 103.14954°

BBC International, Inc.	
Oxy	
EC Hill B Federal #20	
Date: 10/14/13	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy EC Hill B Federal #20

County  
Lea County

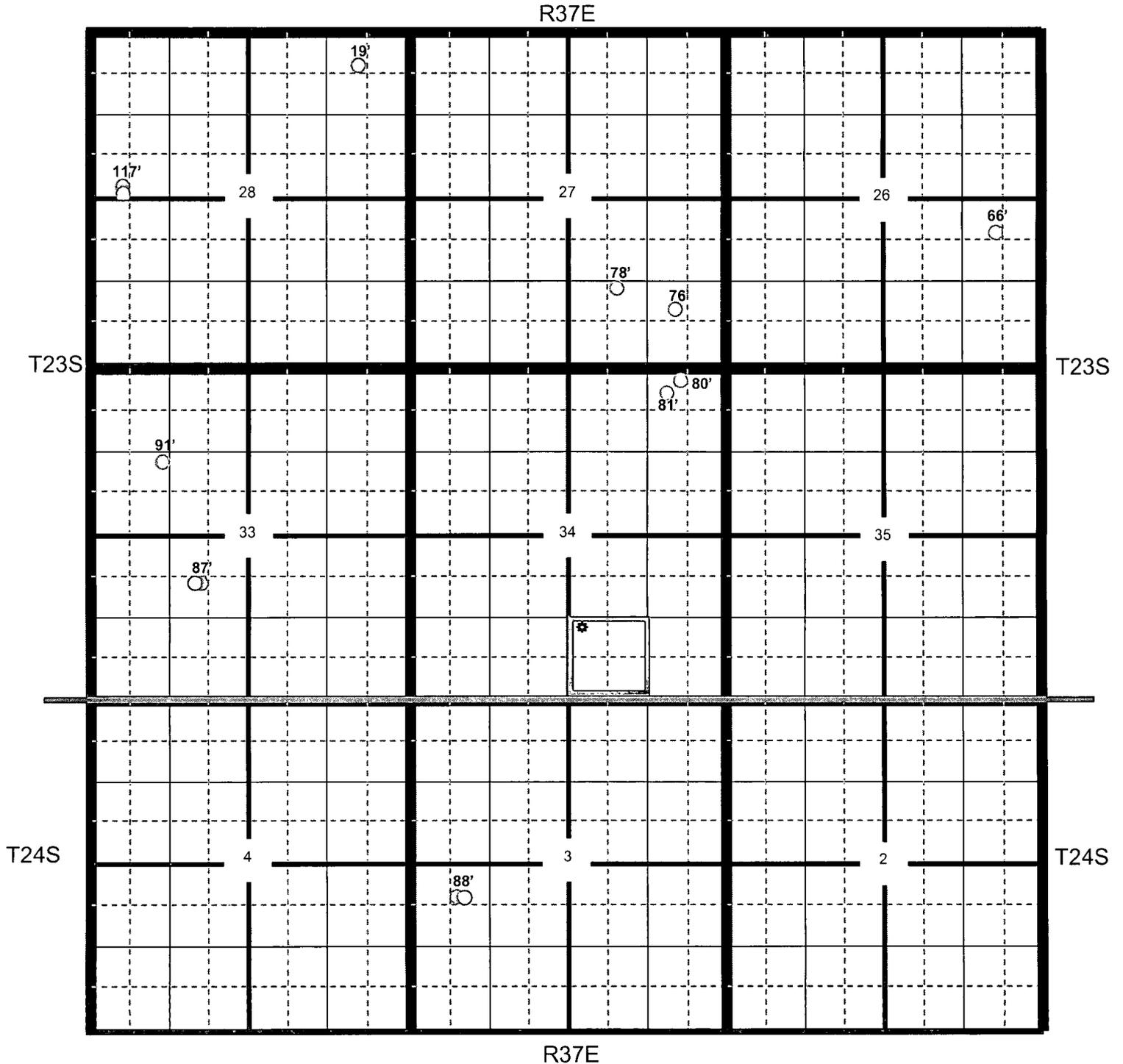
Unit Letter  
O

Section  
34

Township  
23S

Range  
37E

Trend Map 75'





Section Quarters

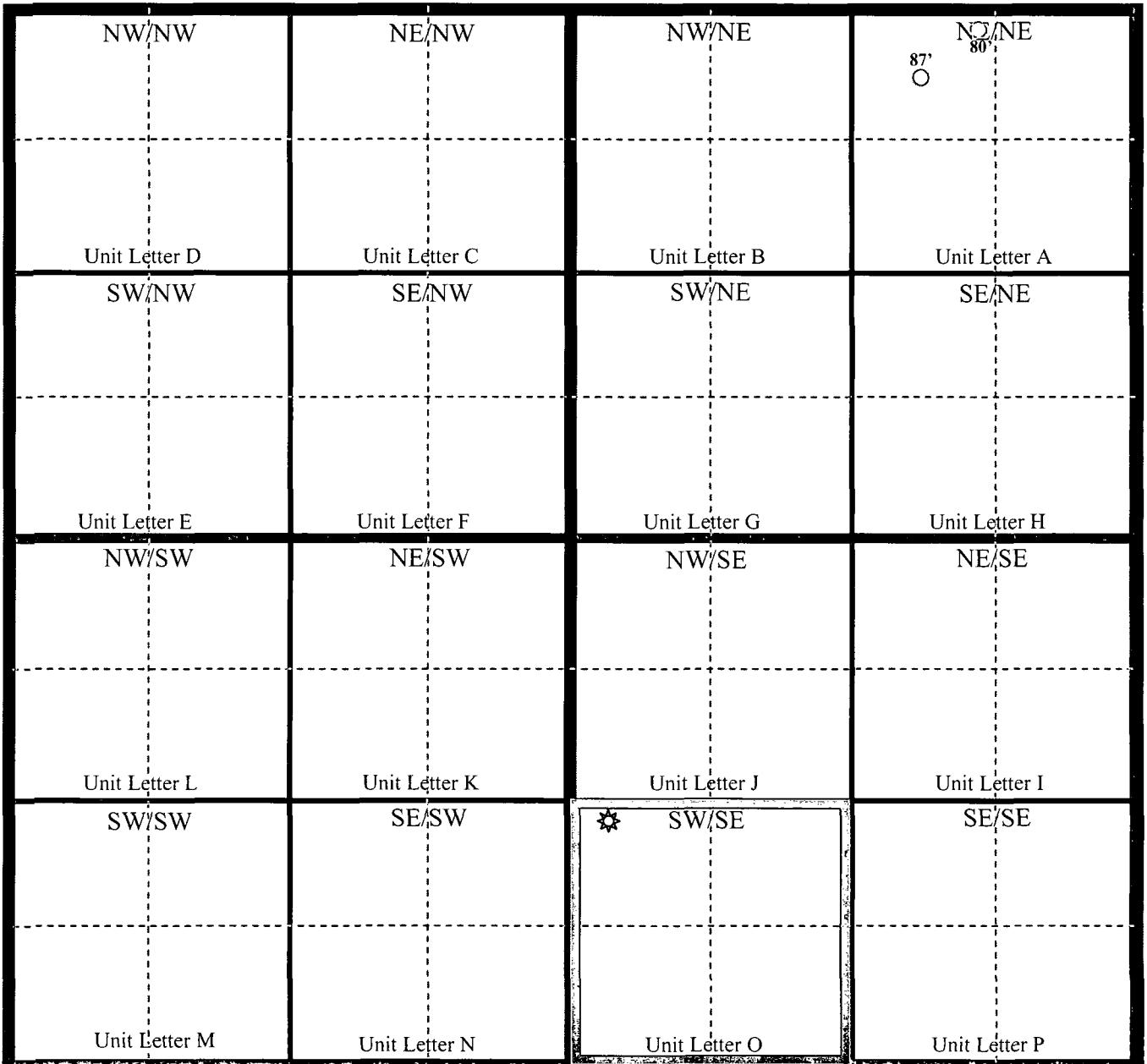
Oxy EC Hill B Federal #20

<i>County</i> Lea	<i>Unit Letter</i> O	<i>Section</i> 34	<i>Township</i> 23S	<i>Range</i> 37E
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Trend Map 75'

1

2



3

4

★ Location      ○ OCD      ○ USGS      ○ SEO      ● All Databases

**Laboratory Analytical Results Summary**  
**E.C. Hill B Fed #20**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	1/29/14	1/29/14	1/29/14
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1700</b>	<b>1280</b>	<b>384</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>553</b>	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'
Analyte	Method	Date	1/29/14	1/29/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>512</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<b>14.2</b>	n/a

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	1/29/14	1/29/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>256</b>	<16.0
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

February 07, 2014

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

RE: E. C. HILL B FED #20

Enclosed are the results of analyses for samples received by the laboratory on 01/31/14 16:20.

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](http://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:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H400313-01)**

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	02/06/2014	ND	2.42	121	2.00	1.65		
Toluene*	<0.050	0.050	02/06/2014	ND	2.37	119	2.00	1.64		
Ethylbenzene*	<0.050	0.050	02/06/2014	ND	2.38	119	2.00	1.10		
Total Xylenes*	<0.150	0.150	02/06/2014	ND	6.89	115	6.00	0.798		
Total BTEX	<0.300	0.300	02/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	02/07/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/04/2014	ND	203	101	200	3.08		
DRO >C10-C28	553	10.0	02/04/2014	ND	190	95.1	200	1.59		

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

**Sample ID: SP 1 @ 3' (H400313-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	02/07/2014	ND	416	104	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 5' (H400313-03)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>384</b>	16.0	02/07/2014	ND	416	104	400	0.00	

**Sample ID: SP 2 @ 1' (H400313-04)**

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	02/06/2014	ND	2.42	121	2.00	1.65	
Toluene*	<0.050	0.050	02/06/2014	ND	2.37	119	2.00	1.64	
Ethylbenzene*	<0.050	0.050	02/06/2014	ND	2.38	119	2.00	1.10	
Total Xylenes*	<0.150	0.150	02/06/2014	ND	6.89	115	6.00	0.798	
Total BTEX	<0.300	0.300	02/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>512</b>	16.0	02/07/2014	ND	416	104	400	0.00	

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	02/04/2014	ND	203	101	200	3.08	
<b>DRO &gt;C10-C28</b>	<b>14.2</b>	10.0	02/04/2014	ND	190	95.1	200	1.59	

Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 3' (H400313-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/07/2014	ND	416	104	400	0.00		

**Sample ID: SP 3 @ 1' (H400313-06)**

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	02/06/2014	ND	2.42	121	2.00	1.65		
Toluene*	<0.050	0.050	02/06/2014	ND	2.37	119	2.00	1.64		
Ethylbenzene*	<0.050	0.050	02/06/2014	ND	2.38	119	2.00	1.10		
Total Xylenes*	<0.150	0.150	02/06/2014	ND	6.89	115	6.00	0.798		
Total BTEX	<0.300	0.300	02/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/07/2014	ND	416	104	400	0.00		

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	02/04/2014	ND	203	101	200	3.08		
DRO >C10-C28	<10.0	10.0	02/04/2014	ND	190	95.1	200	1.59		

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 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:	01/31/2014	Sampling Date:	01/29/2014
Reported:	02/07/2014	Sampling Type:	Soil
Project Name:	E. C. HILL B FED #20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 2' (H400313-07)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2014	ND	416	104	400	0.00	

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

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Celey D. Keene, Lab Director/Quality Manager



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	EC Hill B Federal #20	Facility Type	Well location
Surface Owner	DK Boyd	Mineral Owner	API No. 30-025-33495

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	34	23S	37E	1300	South	2280	East	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	10 bbls	Volume Recovered	0 bbls
Source of Release	Polish rod liner on well head failed	Date and Hour of Occurrence	10/04/2013	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?	Geoffrey Leking-NMOCD; Jennifer Van Curen-BLM		
By Whom?	Chancey Summers	Date and Hour	10/07/2013 @ 10:15 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.\*

The polish rod liner on the well head failed causing 10 bbls of produced water to leak onto the ground. No fluids were recovered and the rod liner was tightened to prevent further leaking.

Describe Area Affected and Cleanup Action Taken.\*

The area affected was approximately 30' x 20' with all of the leak staying on location. Remediation will be conducted in accordance with a plan approved by NMOCD and the BLM.

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: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/15/13	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary