

Closure Report

Site Description

Site Name:	Anderson 35 #003H
Company:	Oxy Permian Ltd.
Legal Description:	U/L L, Section 35, T21S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.43260° W 103.65308°

Release Data

Date of Release:	10/27/2016
Type of Release:	Oil and produced water
Source of Release:	Stuffing box packing on well head blew out
Volume of Release:	3 bbls oil, 7 bbls produced water
Volume Recovered:	5 bbls total

Remediation Specifications

Remediation Parameters:	Excavate the entire spill area to a depth of 6 inches, except in the areas of SP1 and SP2—excavate to a depth of 2 ft. Obtain bottom confirmation samples in the areas of SP1 & SP2. Also obtain bottom confirmation samples after 6" removal of contaminated soil @ SP3 and analyze for BTEX, TPH, and Cl.	
Remediation Activities:	06/30/2017 to 07/07/2017	
Plan Sent to OCD:	01/28/2017	Email from Cliff Brunson to Kristen Lynch
OCD Approval of Plan:	03/06/2017	Email from Olivia Yu to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 11/02/2016
Final C-141	Upon Completion
Site Diagram	November 2016
Groundwater Plot	225'-250'
TOPO Maps	November 2016
Lab Summary	11/03/2016 and 07/07/2017
Lab Analysis	11/03/2016 and 07/07/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan, Oxy requests closure approval from NMOCD.

Wade Dittrich, Environmental Coordinator

08/14/2017

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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	Casey Summers
Address	PO Box 4294, Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Anderson 35 #003H	Facility Type	Well
Surface Owner	Jimmy Mills	Mineral Owner	
		API No.	30-025-41780

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	21S	32E					Lea County, NM

Latitude N 32.43260° Longitude W 103.65308°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	3 bbls oil, 7 bbls produced water	Volume Recovered	5 bbls
Source of Release	Stuffing box packing on well head blew out	Date and Hour of Occurrence	10/27/2016	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?	Kristen Lynch- NMOCD		
By Whom?	Kathy@ BBC International, Inc.	Date and Hour	10/28/2016 @ 3:36 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.*
The stuffing box packing on the well head blew out causing a release of 3 bbls of oil and 7 bbls of produced water. A vacuum truck recovered 5 bbls of fluids and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.*
The affected area is approximately 80' x 45' on location around the well head. Remediation will be completed in accordance with a plan approved by NMOCD.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11-2-16	Phone: (575) 513-8289		

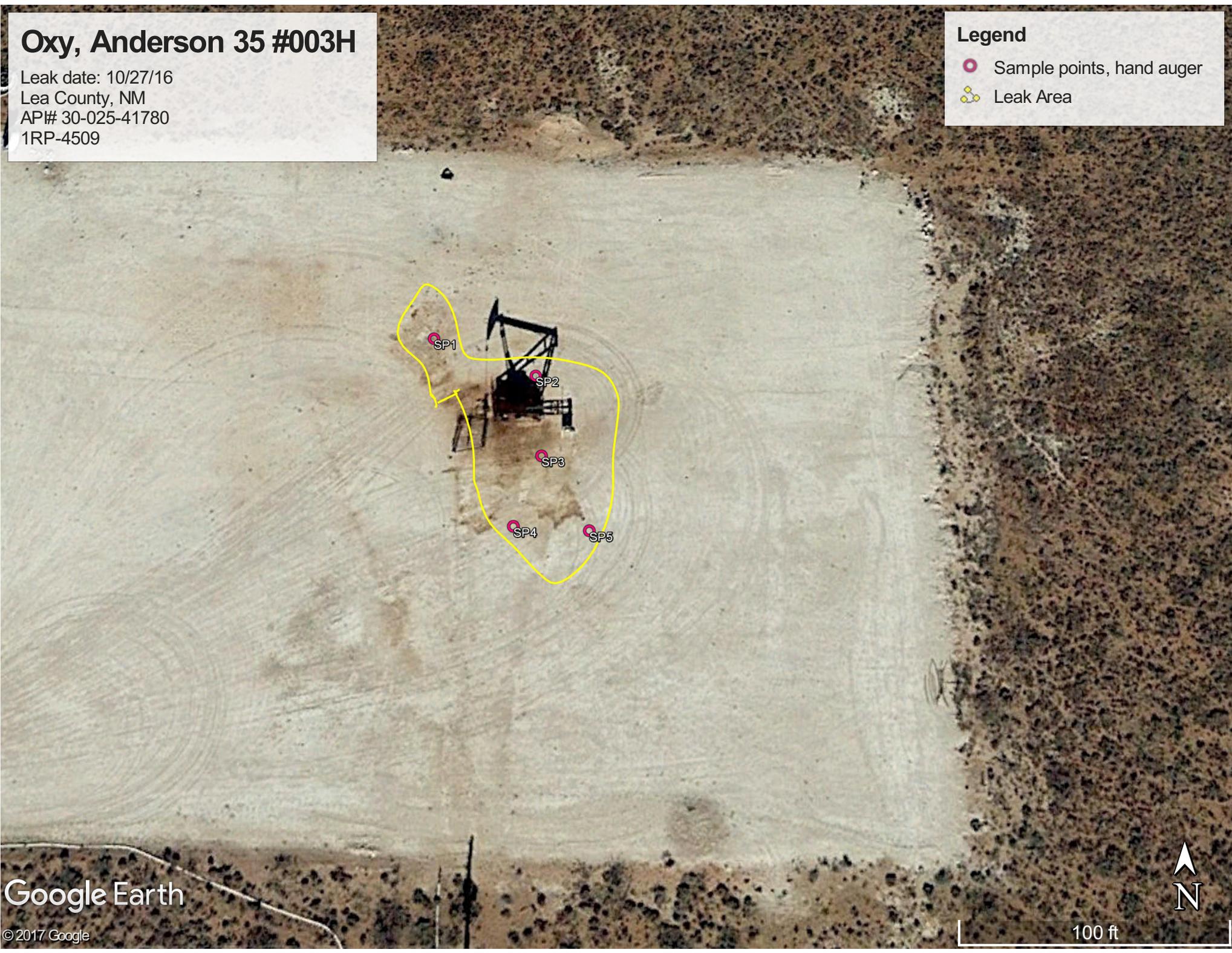
* Attach Additional Sheets If Necessary

Oxy, Anderson 35 #003H

Leak date: 10/27/16
Lea County, NM
API# 30-025-41780
1RP-4509

Legend

- Sample points, hand auger
- ⬡ Leak Area



Google Earth

© 2017 Google



100 ft

Oxy, Anderson 35 #003H

Sample points, hand auger

SP1, N 32.43265 W-103.65307

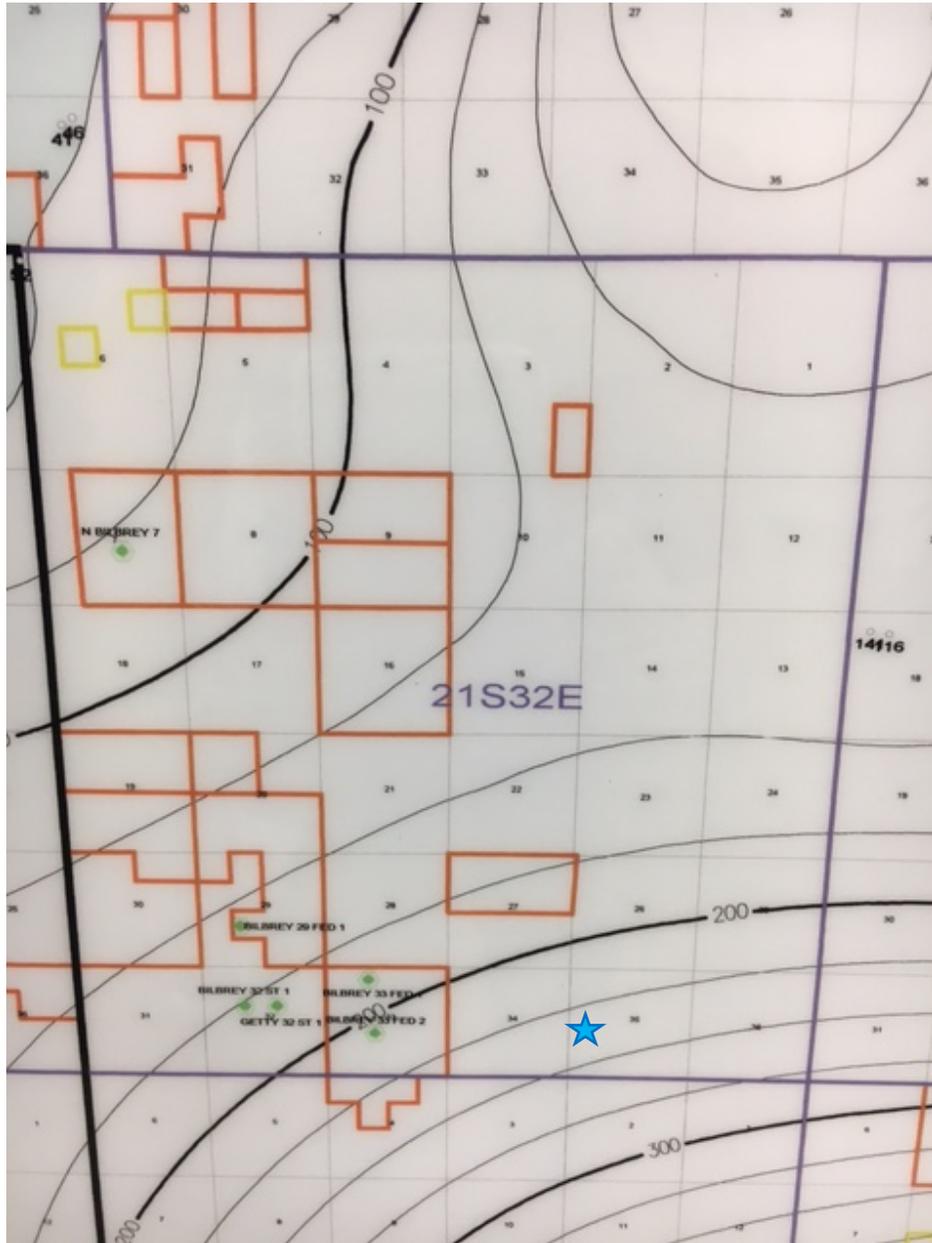
SP2, N 32.43261 W-103.65293

SP3, N 32.43251 W-103.65292

SP4, N 32.43243 W-103.65296

SP5, N 32.43243 W-103.65286

Oxy, Anderson 35 #003H
U/L L, Section 35, T21S, R32E
Groundwater: 225'-250'





New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 626736

Northing (Y): 3589283

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/14/17 11:50 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: **NW** Q4: **SW** Sec: **35** Tws: **21S** Rng: **32E**

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: "

Latitude (Y): Degrees: ° Minutes: ' Seconds: "

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): **626736.0** mtrs Northing (Y): **3589283.0** mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



Groundwater Plot

Oxy Anderson 35 #003H

County
Lea

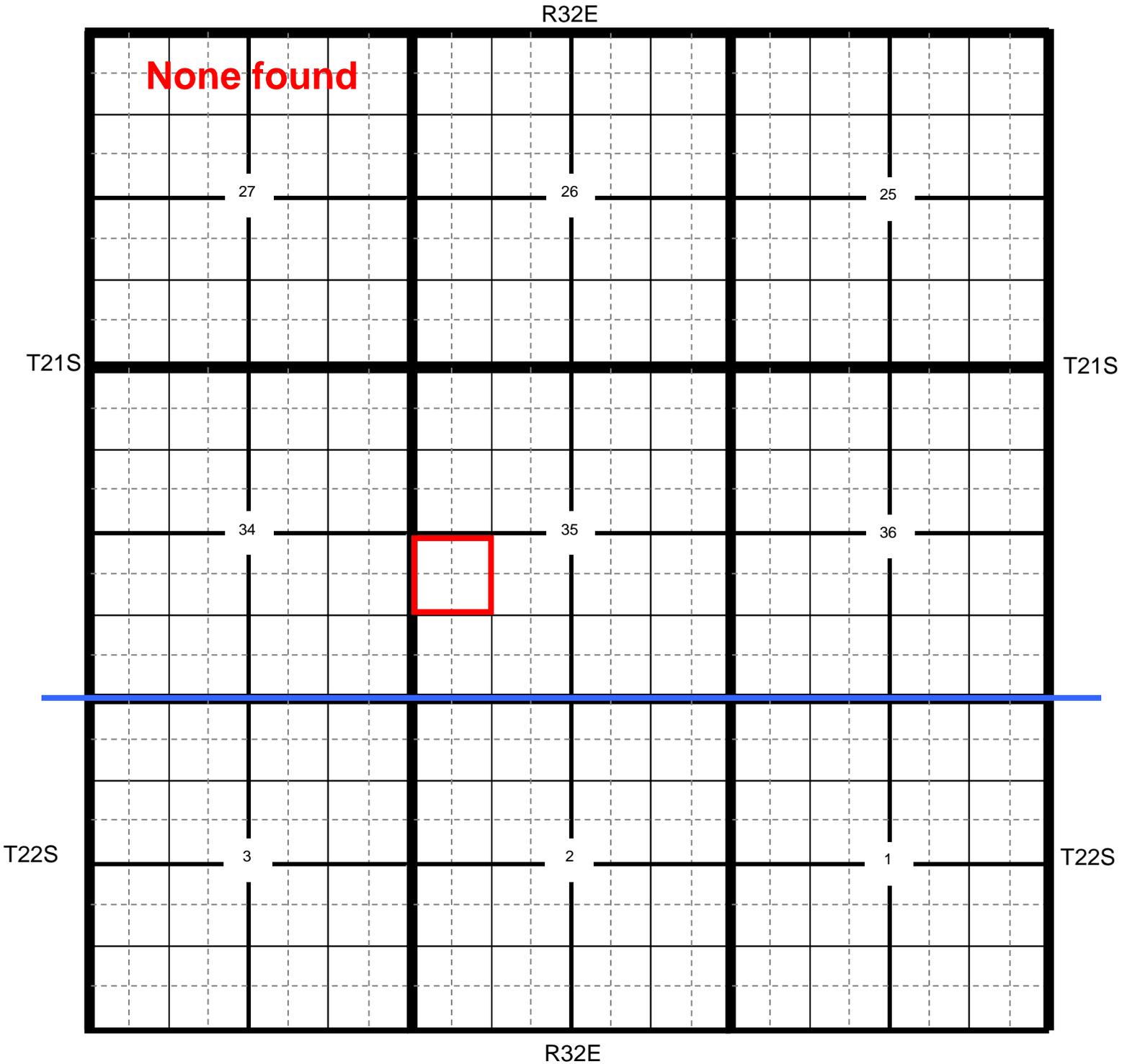
Unit Letter
L

Section
35

Township
21S

Range
32E

Trend Map 225'-250'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

Oxy Anderson 35 #003H

County: Lea Unit Letter: L Section: 35 Township: 21S Range: 32E

Trend Map 225'-250'

1

2

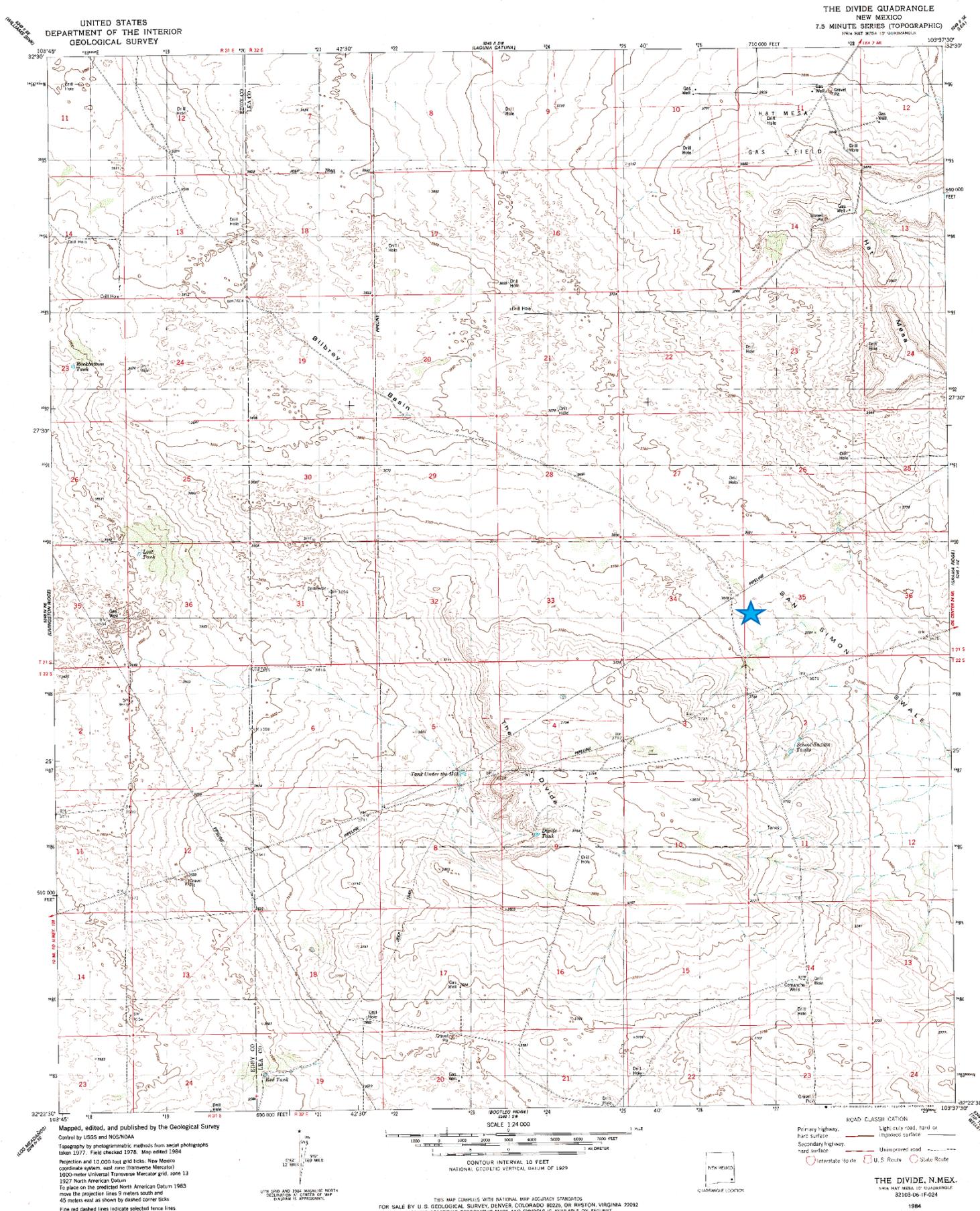
NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter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

3

4

Oxy

Anderson 35 #003H



Mapped, edited, and published by the Geological Survey
 Control by USGS and NGS/NOAA
 Topography by photogrammetric methods from aerial photographs taken 1977. Field checked 1978. Map edited 1984
 Projection and 10,000 foot grid ticks: New Mexico coordinate system, east zone (Transverse Mercator) 1000-meter Universal Transverse Mercator grid, zone 13 1927 North American Datum
 To place on the predicted North American Datum 1983 move the projection lines 9 meters south and 45 meters east as shown by dashed corner ticks
 Fine red dashed lines indicate selected fence lines

SCALE 1:24,000

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP CONFORMS WITH NATIONAL MAP ACCURACY STANDARDS FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, VIRGINIA 22092. A FOLDER CONTAINING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST.

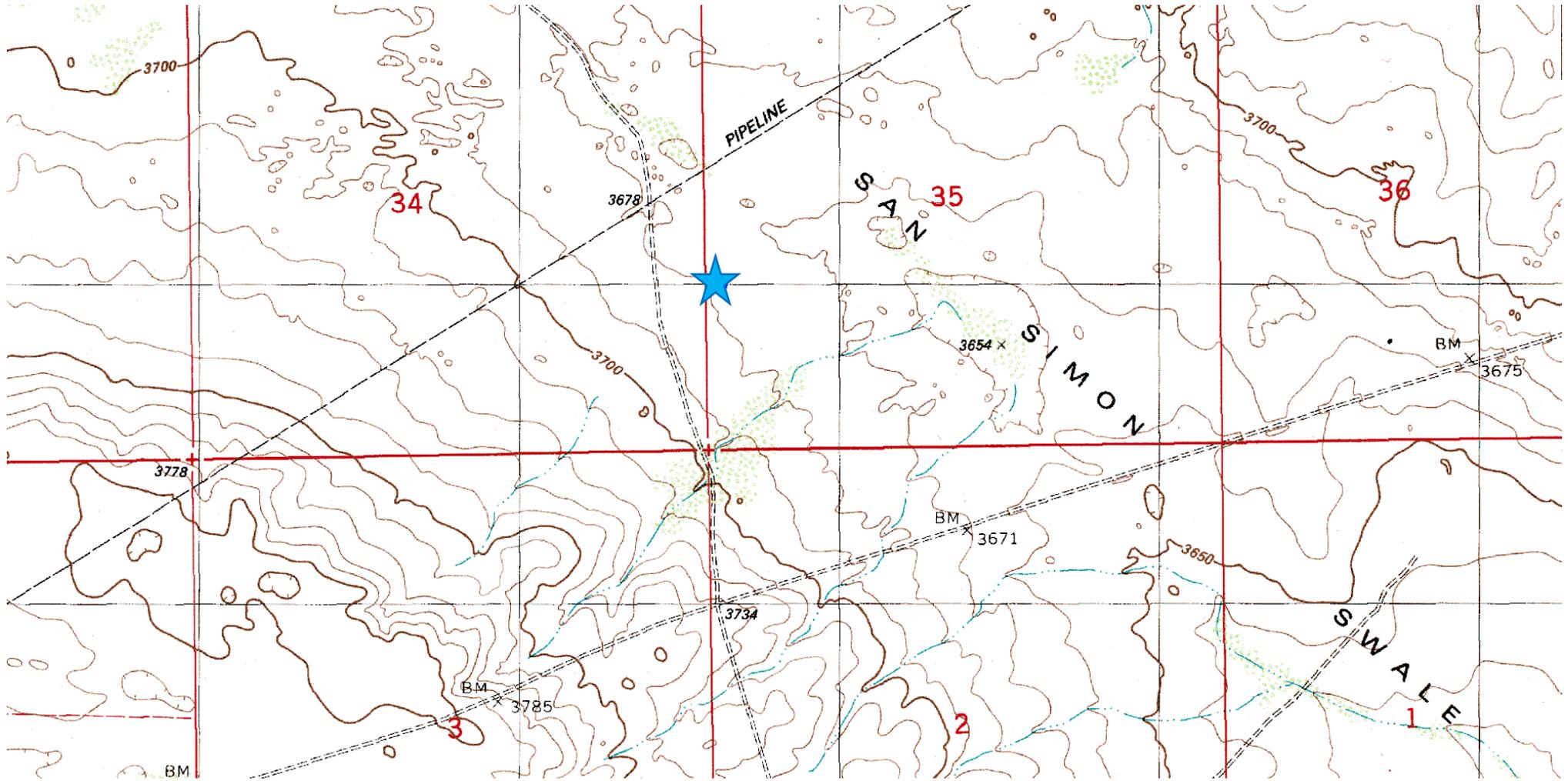
ROAD CLASSIFICATION

- Primary highway, hard surface
- Secondary highway, hard surface
- Unimproved road, hard surface
- Interstate route
- U.S. Route
- State Route
- Light duty road, hard or unimproved surface
- Unimproved road, soft surface

THE DIVIDE, N.MEX.
 7.5 MINUTE SERIES QUADRANGLE
 32103-06-1F-024
 1984
 DMA 524F 1 NW-SHEDD 56A1

Oxy

Anderson 35 #003H



**Laboratory Analytical Results Summary
Anderson 35 #003H**

Analyte	Method	Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		336	256	544
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

Analyte	Method	Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		80	128	64
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		369	n/a	n/a

Analyte	Method	Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		304	224	560
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		11.7	n/a	n/a

Analyte	Method	Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		96	128	64
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		355	<10.0	n/a

Analyte	Method	Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.722	<0.050	n/a
Toluene	BTEX 8021B		14.4	0.068	n/a
Ethylbenzene	BTEX 8021B		2.11	<0.050	n/a
Total Xylenes	BTEX 8021B		7.11	<0.150	n/a
Total BTEX	BTEX 8021B		24.3	<0.300	n/a
Chloride	SM4500Cl-B		8260	128	128
GRO	TPH 8015M		178	<10.0	n/a
DRO	TPH 8015M		11100	<10.0	n/a

**Laboratory Analytical Results Summary
Anderson 35 #003H**

		Sample	SP1 @ BOTTOM
Analyte	Method	Date	7/11/17
			mg/Kg
Chloride	SM4500Cl-B		16

		Sample	SP2 @ BOTTOM
Analyte	Method	Date	7/11/17
			mg/Kg
Chloride	SM4500Cl-B		32

		Sample	SP3 @ BOTTOM
Analyte	Method	Date	7/11/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



November 10, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ANDERSON 35 #3H

Enclosed are the results of analyses for samples received by the laboratory on 11/04/16 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ SURFACE (H602494-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	178	89.2	200	0.976	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	177	88.6	200	4.03	

Surrogate: 1-Chlorooctane 72.1 % 35-147
Surrogate: 1-Chlorooctadecane 77.3 % 28-171

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
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 Fax To: (575) 397-0397

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ 1' (H602494-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 91.1 % 35-147
Surrogate: 1-Chlorooctadecane 89.8 % 28-171
Sample ID: SP 1 @ 2' (H602494-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/07/2016	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ SURFACE (H602494-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	11.7	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 92.8 % 35-147
Surrogate: 1-Chlorooctadecane 95.1 % 28-171
Sample ID: SP 2 @ 1' (H602494-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/07/2016	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ 2' (H602494-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/07/2016	ND	400	100	400	0.00	

Sample ID: SP 3 @ SURFACE (H602494-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.722	0.100	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	14.4	0.100	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	2.11	0.100	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	7.11	0.300	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	24.3	0.600	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	11/07/2016	ND	400	100	400	0.00	

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	178	50.0	11/08/2016	ND	172	86.2	200	0.228		
DRO >C10-C28	11100	50.0	11/08/2016	ND	179	89.4	200	0.918		

Surrogate: 1-Chlorooctane 122 % 35-147

Surrogate: 1-Chlorooctadecane 428 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 3 @ 1' (H602494-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	0.068	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 99.2 % 35-147
Surrogate: 1-Chlorooctadecane 100 % 28-171
Sample ID: SP 3 @ 2' (H602494-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 4 @ SURFACE (H602494-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	369	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Sample ID: SP 4 @ 1' (H602494-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 4 @ 2' (H602494-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/07/2016	ND	400	100	400	0.00	

Sample ID: SP 5 @ SURFACE (H602494-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	355	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 93.5 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 5 @ 1' (H602494-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 80.6 % 35-147
Surrogate: 1-Chlorooctadecane 75.2 % 28-171
Sample ID: SP 5 @ 2' (H602494-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/07/2016	ND	400	100	400	0.00	

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:	
Project Manager: Cliff Brunson		Company:	
Address: P.O. Box 805		Attn:	
City: Hobbs		Address: <i>June</i>	
State: NIM zip: 88241		City:	
Phone #: 575-397-6388		State:	
Fax #: 575-397-0397		Zip:	
Project #: <i>017</i>		Project Owner: <i>OKY</i>	
Project Name: <i>Adrian 35 #31</i>		State:	
Project Location: <i>Mills Blvd</i>		City:	
Sample Name: <i>1.0</i>		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			ACID/BASE:	ICE / COOL	OTHER :	Yes	No	
11	SP 901	C	1	X						11-3	130	X	X				
12	SP 5051	C	1	X							145	X	X				
13	SP 5051	C	1	X							200	X	X				
14		C	1	X							215	X	X				
15		C	1	X							245	X	X				

BTEX
TPH
Cl-

Relinquished By: *[Signature]* Date: *11-11* Time: *11:30*
 Received By: *Cliff Brunson* Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other: *-542*

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]* (Initials)

REMARKS:

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

#75



July 10, 2017

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

RE: ANDERSON #35

Enclosed are the results of analyses for samples received by the laboratory on 07/10/17 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	07/10/2017	Sampling Date:	07/07/2017
Reported:	07/10/2017	Sampling Type:	Soil
Project Name:	ANDERSON #35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ BOTTOM (H701766-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/10/2017	ND	448	112	400	3.64	

Sample ID: SP 2 @ BOTTOM (H701766-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/10/2017	ND	448	112	400	3.64	

Sample ID: SP 3 @ BOTTOM (H701766-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2017	ND	2.27	114	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2017	ND	2.11	106	2.00	1.07	
Ethylbenzene*	<0.050	0.050	07/10/2017	ND	2.15	108	2.00	0.727	
Total Xylenes*	<0.150	0.150	07/10/2017	ND	6.42	107	6.00	0.145	
Total BTEX	<0.300	0.300	07/10/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/10/2017	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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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: 07/10/2017
 Reported: 07/10/2017
 Project Name: ANDERSON #35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

 Sampling Date: 07/07/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ BOTTOM (H701766-03)

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	07/10/2017	ND	194	97.1	200	1.53	
DRO >C10-C28	<10.0	10.0	07/10/2017	ND	200	100	200	4.15	

Surrogate: 1-Chlorooctane 91.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.1 % 34.7-157

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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



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

10/1

BILL TO ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: OUY
 Project Name: ANDERSON # 35
 Project Location:
 Sampler Name: RAEBER HERMANN
 FOR LAB USE ONLY
 P.O. #: Company:
 Attn: Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H-101704	SP1 @ Bottom		1							7-7-17	100	CL-TPH
	SP2 @ Bottom		1							7-7-17	105	BTEX
	SP3 @ Bottom		1							7-7-17	110	

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: *Raebert Hermann* Date: 7-10-17 Received By: *Samana* Date: 7-10-17
 Relinquished By: *Raebert Hermann* Date: 7-10-17 Received By: *Samana* Date: 7-10-17
 Delivered By: (Circle One) -G-70e
 Sampler - UPS - Bus - Other: *Corrupted - 6.95e*
 Sample Condition: Cool Yes No Intact Yes No
 CHECKED BY: *TS. HS*
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: *Bus*

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

From: Yu, Olivia, EMNRD
To: [Cliff Brunson](mailto:Cliff_Brunson); [Casey Summers@oxy.com](mailto:Casey_Summers@oxy.com); [Jennifer Hudgens@oxy.com](mailto:Jennifer_Hudgens@oxy.com)
Cc: [Oberding, Tomas, EMNRD](#); "[Jennifer Gilkey](#)"; [Ken Swinney](#); "[Kathy Purvis](#)"
Subject: RE: OXY - Anderson 35 #003H - Remediation Plan
Date: Monday, March 6, 2017 8:24:30 AM

Dear Mr. Brunson:

Please address these concerns regarding the delineation workplan for 1RP-4509.

- 1) According to the unscaled drawing, the reported 10 bbls release covered a larger area than expected given the analytical results. Please confirm dimensions of contaminated area on scaled digital map.
- 2) There appears to be pooling at SP 1 and SP2. Chloride levels increase back up at 2ft. bgs. Excavate to 2 ft. bgs at SP1 and SP2 and obtain bottom confirmation samples.
- 3) Obtain bottom confirmation samples after 6" removal of contaminated soil at SP3 for BTEX, TPH, and chlorides.

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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

From: Cliff Brunson
Sent: Saturday, January 28, 2017 6:45:00 PM (UTC-07:00) Mountain Time (US & Canada)
To: Lynch, Kristen, EMNRD
Cc: Casey Summers; Jennifer Hudgens; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Anderson 35 #003H - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Anderson 35 #003H release. I have attached the information packet that we used in our discussion on 2/25/17 with a cover page describing the remediation plan that we agreed upon.

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

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
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