

OXY USA, Inc.
South Hobbs Grayburg San Andres Unit
221 B04
Delineation Report and Work Plan

Section 4, T19S, R38E
Lea County, New Mexico

December 9, 2014



Prepared for:

OXY USA, Inc.
1017 W Stanolind Road
Hobbs, New Mexico 88240

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510

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I. Company Contacts

Representative	Company	Telephone	E-mail
Austin Tramell	OXY USA, INC.	575-499-4919	Austin_Tramell@oxy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by OXY USA, INC to perform site assessment of a release area at the South Hobbs Grayburg San Andres Unit 221 located in Section 4 of Township 19 South, Range 38 East, Lea County, New Mexico.

According to the C-141 the cause of release was external corrosion.

III. Surface and Ground Water

The nearest groundwater of record is approximately 0.4 miles of the site. The New Mexico Office of State Engineer record is in Section 4 Range 38 East and Township 19 South. The reported depth was 33 feet below ground surface (BGS).

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCDC (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	X
	50 feet to 99 feet	10 points	
	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			20

V. Work Performed

On 2014, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. All samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Total BTEX and Chloride (Cl⁻) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 11/03/2014	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
BH 1 at 4'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH 2 at 3'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH 4 at 3'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
BH 3 at 6'	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300

Sample Date 11/03/2014	Sample ID	Chloride (Cl)	Sample ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)
Depth	Method		Method		
BH 1 at 4'	SM4500Cl-B	112	TPH 8015M	<10.0	<10.0
BH 2 at 3'	SM4500Cl-B	240	TPH 8015M	<10.0	<10.0
BH 4 at 3'	SM4500Cl-B	208	TPH 8015M	<10.0	56.8
BH 3 at 6'	SM4500Cl-B	448	TPH 8015M	<10.0	<10.0

VI. Action Plan

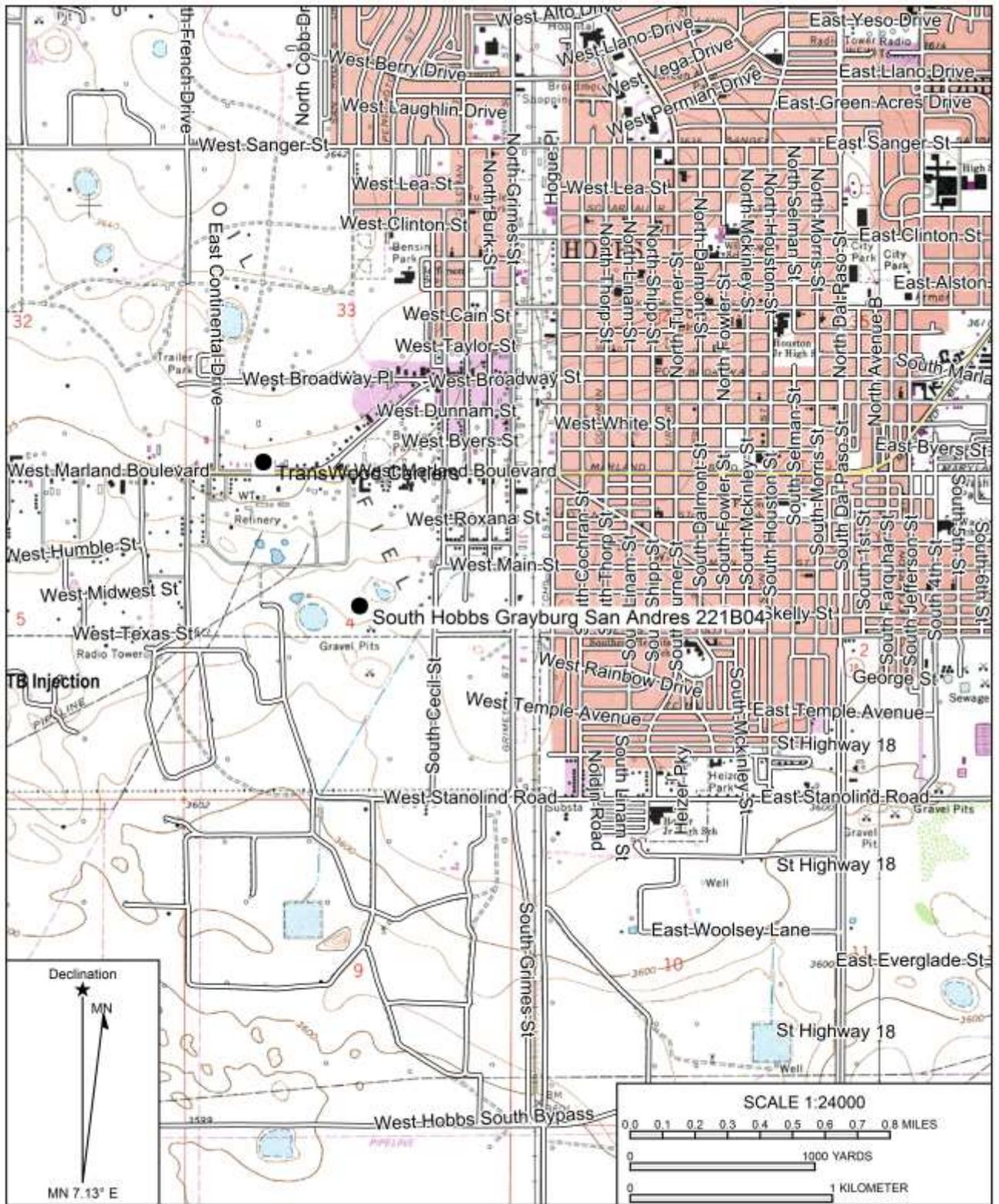
Due to the results listed above the following action plan is proposed:

1. Excavate 18" remove all contaminated soil transport to an approved NMOCD facility for disposal.
2. The excavated area will be backfilled with native soil and returned to natural grade.
3. No further action is necessary.

VII. Figures & Appendices

Figure 1 – Vicinity Map
 Figure 2 – Site Plan
 Figure 3 – NMOCD Trend Map
 Appendix A – Analytical Results
 Appendix B – C-141

Figure 1
Vicinity Map



Name: HOBBS WEST,
 Date: 12/02/14
 Scale: 1 inch = 2,000 ft.

Location: 032.6907038° N, 103.1455887° W
 Hobbs Grayburg San Andres Unit 221 B04

Figure 2
Site Plan



South Hobbs Grayburg San Andres Unit 221

Appendix A

Analytical Results



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

November 12, 2014

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: SHU GSA UNIT WELL #221

Enclosed are the results of analyses for samples received by the laboratory on 11/06/14 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/06/2014	Sampling Date:	11/03/2014
Reported:	11/12/2014	Sampling Type:	Soil
Project Name:	SHU GSA UNIT WELL #221	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-023	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NEW MEXICO		

Sample ID: BH-1 4' BGS (H403418-01)

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	11/10/2014	ND	1.84	91.9	2.00	4.93		
Toluene*	<0.050	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72		
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06		
Total BTEX	<0.300	0.300	11/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		98.9 % 61-154								
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/06/2014	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	11/06/2014	ND	189	94.3	200	2.33		
DRO >C10-C28	<10.0	10.0	11/06/2014	ND	195	97.3	200	3.40		

Surrogate: 1-Chlorooctane 90.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.2 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Hobbs NM, 88240
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Received:	11/06/2014	Sampling Date:	11/03/2014
Reported:	11/12/2014	Sampling Type:	Soil
Project Name:	SHU GSA UNIT WELL #221	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-023	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NEW MEXICO		

Sample ID: BH-2 3' BGS (H403418-02)

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	11/10/2014	ND	1.84	91.9	2.00	4.93		
Toluene*	<0.050	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72		
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06		
Total BTEX	<0.300	0.300	11/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		94.6 %		61-154						
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	11/06/2014	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	11/06/2014	ND	189	94.3	200	2.33		
DRO >C10-C28	<10.0	10.0	11/06/2014	ND	195	97.3	200	3.40		

Surrogate: 1-Chlorooctane 99.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/06/2014	Sampling Date:	11/03/2014
Reported:	11/12/2014	Sampling Type:	Soil
Project Name:	SHU GSA UNIT WELL #221	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-023	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NEW MEXICO		

Sample ID: BH-4 3' BGS (H403418-03)

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	11/10/2014	ND	1.84	91.9	2.00	4.93		
Toluene*	<0.050	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72		
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06		
Total BTEX	<0.300	0.300	11/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		99.3 % 61-154		Chloride, SM4500Cl-B						
mg/kg		Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/06/2014	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	11/11/2014	ND	189	94.3	200	2.33		
DRO >C10-C28	56.8	10.0	11/11/2014	ND	195	97.3	200	3.40		

Surrogate: 1-Chlorooctane 102 % 47.2-157
 Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	11/06/2014	Sampling Date:	11/03/2014
Reported:	11/12/2014	Sampling Type:	Soil
Project Name:	SHU GSA UNIT WELL #221	Sampling Condition:	Cool & Intact
Project Number:	OXY-14-023	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NEW MEXICO		

Sample ID: BH-3 6' BGS (H403418-04)

BTEX 80218		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2014	ND	1.84	91.9	2.00	4.93		
Toluene*	<0.050	0.050	11/11/2014	ND	1.79	89.5	2.00	1.72		
Ethylbenzene*	<0.050	0.050	11/11/2014	ND	1.72	86.0	2.00	2.09		
Total Xylenes*	<0.150	0.150	11/11/2014	ND	5.10	84.9	6.00	3.06		
Total BTEX	<0.300	0.300	11/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	11/06/2014	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	11/06/2014	ND	189	94.3	200	2.33		
DRO >C10-C28	<10.0	10.0	11/06/2014	ND	195	97.3	200	3.40		

Surrogate: 1-Chlorooctane 90.5 % 47.2-157
Surrogate: 1-Chlorooctadecane 96.4 % 52.1-176

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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



ARDIMAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2328 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

ANALYSIS REQUEST

Company Name: Safety & Environmental Solutions, Inc.
 Project Manager: Bob Allen
 Address: 703 East Clinton
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-397-0510 Fax #: 575-393-4388
 Project #: 09-14-023 Project Owner: Oxy
 Project Name: SITU GSA UNIT UCC 221
 Project Location: Hobbs, NM
 Sample Name: S08 Jerry
 P.O. #: **Bill To**
 Company: **Santa Oxy**
 Attn: **Baron Jordan**
 Address: **6 DOSTA DR**
 City: **MOLLAID ST. LODD**
 State: **TX** Zip: **79710**
 Phone #: **432-685-9932**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX										DATE	TIME	ANALYSIS REQUEST		
				GROUNDWATER	WASTEWATER	SOIL	DR	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	PRESERV				SAMPLING	
HM03418	BH-1	4 FT BGS	1	<input checked="" type="checkbox"/>	BTEX TPH (8015) CHLORINES													
	BH-2	3 FT BGS	1	<input checked="" type="checkbox"/>														
	BH-4	3 FT BGS	1	<input checked="" type="checkbox"/>														
	BH-3	6 FT BGS	1	<input checked="" type="checkbox"/>														

Delivered By: (Circle One) Temp. 5.4c Bus. Other: Sample Condition: Cool Ambient Ice 100 100 100

Relinquished By: **STJ Jerry** Date: **0800** Received By: **Baron Jordan** Time: **0800**

Signature: **Baron Jordan**

PIBONE RESULT: Yes No No ADDITIONAL PROBLEM: Yes No ADDITIONAL REMARKS: Yes No

1 Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476. #54

Appendix B

C-141

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 USA	Contact: Tony Aguilar
Address: 1017 W Stanolind Road	Telephone No. 575-390-6312
Facility Name: South Hobbs Unit 221	Facility Type: Well Location
Surface Owner: DCP Midstream	Mineral Owner: OXY
Lease No. 30-025-29892	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	4	19S	38E					

Latitude: 32.693470 Longitude: -103.153740

NATURE OF RELEASE

Type of Release: Produced Water and Oil	Volume of Release: 1BBL Oil, 500 BBLs Water	Volume Recovered: 50 BBLs Water
Source of Release: Wellhead	Date and Hour of Occurrence: 8/17/2014 10:37:49 AM	Date and Hour of Discovery: 8/17/2014 10:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Tomas Oberding	
By Whom? Tony Aguilar	Date and Hour: 8/17/2014 12:56 PM (Left Message)	
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.*

Cause of leak external corrosion, leak is at wellhead. Standing water was picked up by vacuum truck.

Describe Area Affected and Cleanup Action Taken.*

Safety & Environmental Solutions, Inc. will delineate spill area and submit appropriate work 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: Tony Aguilar	Approved by District Supervisor:	
Title: HSE Specialist	Approval Date:	Expiration Date:
E-mail Address: Raymond.Aguilar@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/20/2014 Phone: 575-390-6312		

* Attach Additional Sheets If Necessary

Appendix C

Site Photographs



Release area on pad looking North



Release area on pad looking East



Release area on pad looking Southeast



SHU # 221 & release point



Lease road looking Northwest



Pad looking North



Lease road looking East



Release area looking Southeast



Release area looking Southeast



Lease road looking West



End of lease road East by fence



Entrance lease road looking East-Southeast