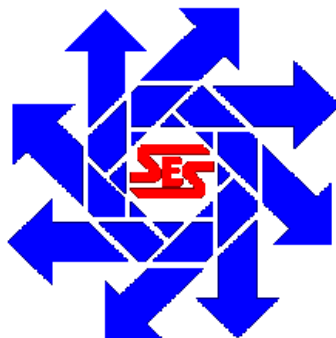


**OXY USA, Inc.  
Cotton Draw Unit #10  
Closure Report**

**Section 16, T25S, R32E  
Lea County, New Mexico**

**November 25, 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 Cotton Draw Unit #10 located in Section 16 of Township 25 South, Range 32 East, Lea County, New Mexico.

According to the C-141 dated April 01, 2014 the cause of release was internal corrosion of a 2" steel production flow line.

## III. Surface and Ground Water

The nearest groundwater of record is approximately 7.8 miles north of the site. The New Mexico Office of State Engineer record is in Section 05 Range 32 East and Township 24 South. The reported depth was 380 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 NMOCD (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 5,000 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	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
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)			0

## V. Work Performed

On April 3, 2014 SESI was onsite to perform a site assessment. The release area was mapped utilizing a Trimble Juno 3D and site photos were taken.

On April 21, 2014, SESI was onsite to determine vertical extent of contamination using a hand auger to collect samples. SP-1 was taken at the surface and at a depth of 1'

where a hard caliche layer was encountered. Samples were taken at SP-2 at surface and at 1' ft., 2' ft. and 2.5 ft. A hard layer of caliche was encountered the depth of 2.5 ft. Samples were taken at SP-3 at the surface and at 1' ft., 2 ft. and, 2.5 ft. where a hard layer of caliche was encountered. All samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl<sup>-</sup>) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Lab ID	Sample ID	Cl (mg/kg)
<b>Analysis Date:</b>	-	
5-1-2014	Sample Pt 1 @ Surface	20800
5-1-2014	Sample Pt 1 @ 1' BGS	3640
5-1-2014	Sample Pt 2 @ Surface	36800
5-1-2014	Sample Pt 2 @ 1' BGS	1070
5-1-2014	Sample Pt 2 @ 2' BGS	2320
5-1-2014	Sample Pt 2 @ 2'6" BGS	8480
5-1-2014	Sample Pt 3 @ Surface	14700
5-1-2014	Sample Pt 3 @ 1' BGS	3800
5-1-2014	Sample Pt 3 @ 2' BGS	11600
5-1-2014	Sample Pt 3 @ 2'6" BS	12000

On April 22, 2014, SESI, along with Custom Welding were on site to install (4) four test trenches to determine further contamination. Test Trenches samples were taken at 1 ft., 4ft., 5ft and 6 ft. away from the pipelines. A hard layer of caliche was encountered at the 6 ft. All samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl<sup>-</sup>) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Lab ID	Sample ID	Cl (mg/kg)
<b>Analysis Date:</b>	-	
5-1-2014	TT-1 @ 3'	2960
5-1-2014	TT-1 @ 4'	528
5-1-2014	TT-1 @ 5'	2200
5-1-2014	TT-1 @ 6'	1500

On August 26, 2014 SESI along with Custom Welding began excavation of contaminated soil. At the end of the day the following samples were taken, properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl<sup>-</sup>) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Lab ID	Sample ID	Cl (mg/kg)
<b>Analysis Date:</b>	-	
8-26-2014	South Wall (East)	1600
8-26-2014	Bottom 7' BGS	2320
8-26-2014	North Wall (East)	944
8-26-2014	North Wall (West)	864
8-26-2014	South Wall (West)	1880
8-26-2014	West Wall	448

The results of the sampling above indicate that there are three areas still above the target level of 1500 ppm Cl.

On October 10, 2014 SESI continued excavation the three problem areas indicated above. Samples were taken from the three problem areas after the excavation was completed, properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl-) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Lab ID	Sample ID	Cl (mg/kg)
Analysis Date:	-	
10-10-2014	Bottom 7' BGS	64.0
10-10-2014	North Wall	928
10-10-2014	South Wall	272

The results of the final sampling indicated that the chloride concentrations of all sides and bottom of the excavation are below the target level of 1500 ppm Cl.

## **VI. Closure**

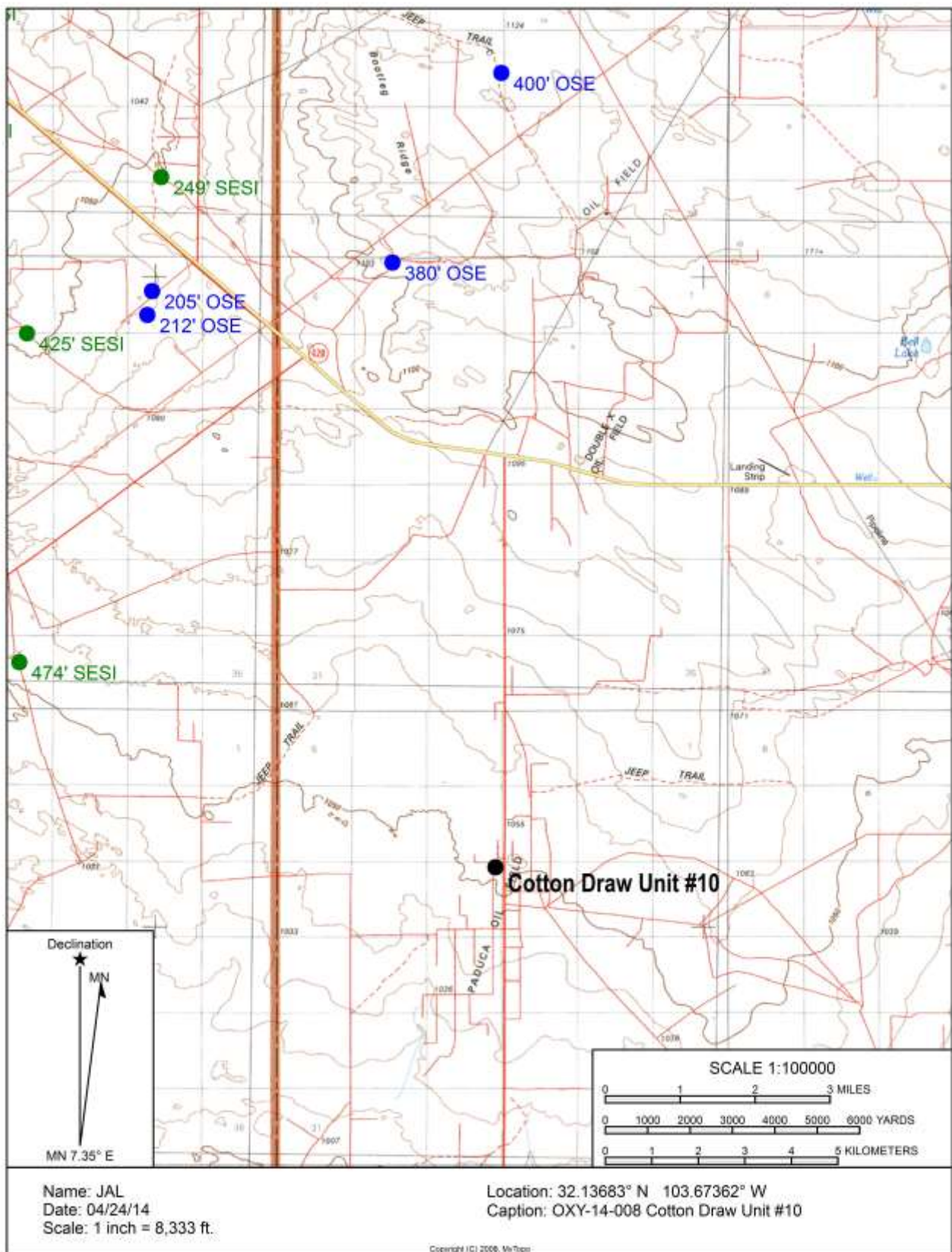
All sides and bottom were excavated to the target level of 1500 ppm Cl or less. At that point a polyethylene liner was installed and the excavation was backfilled and turned to natural grade. All contaminated were transported to an NMOCD approved disposal facility.

All required work from the approved work plan has been completed.

## **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**



**Figure 2**  
**Site Plan**





OXY-14-008 Cotton Draw Unit #10

## **Figure 3 NMOCD Trend Map**



NMOCD Trend Map

## **Appendix A**

### **Analytical Results**



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

May 01, 2014

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTONDRAW UNIT 10

Enclosed are the results of analyses for samples received by the laboratory on 05/01/14 8:15.

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,

A handwritten signature in black ink that reads "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	05/01/2014	Sampling Date:	04/21/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	COTTONDRAW UNIT 10	Sampling Condition:	** (See Notes)
Project Number:	OXY-14-008	Sample Received By:	Celey D. Keene
Project Location:	C1		

**Sample ID: SAMPLE PT 1 @ SURFACE (H401318-01)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20800	16.0	05/01/2014	ND	416	104	400	3.92		

**Sample ID: SAMPLE PT 1 @ 1' BGS (H401318-02)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	05/01/2014	ND	416	104	400	3.92		

**Sample ID: SAMPLE PT 2 @ SURFACE (H401318-03)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36800	16.0	05/01/2014	ND	416	104	400	3.92		

**Sample ID: SAMPLE PT 2 @ 1' BGS (H401318-04)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	05/01/2014	ND	416	104	400	3.92		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/01/2014	Sampling Date:	04/21/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	COTTONDRAW UNIT 10	Sampling Condition:	** (See Notes)
Project Number:	OXY-14-008	Sample Received By:	Celey D. Keene
Project Location:	C1		

**Sample ID: SAMPLE PT 2 @ 2' BGS (H401318-05)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	05/01/2014	ND	416	104	400	3.92		

**Sample ID: SAMPLE PT 2 @ 2'6" BGS (H401318-06)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8480	16.0	05/01/2014	ND	416	104	400	3.92		

**Sample ID: SAMPLE PT 3 @ SURFACE (H401318-07)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14700	16.0	05/01/2014	ND	416	104	400	3.92		

**Sample ID: SAMPLE PT 3 @ 1' BGS (H401318-08)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	05/01/2014	ND	416	104	400	3.92		

**Sample ID: SAMPLE PT 3 @ 2' BGS (H401318-09)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	05/01/2014	ND	416	104	400	3.92		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/01/2014  
Reported: 05/01/2014  
Project Name: COTTONDRAW UNIT 10  
Project Number: OXY-14-008  
Project Location: C1

Sampling Date: 04/21/2014  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**Sample ID: SAMPLE PT 3 @ 2'6" BGS (H401318-10)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	05/01/2014	ND	416	104	400	3.92	

**Sample ID: TT-1 @ 3' BGS (H401318-11)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	05/01/2014	ND	416	104	400	3.92	

**Sample ID: TT-1 @ 4' BGS (H401318-12)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/01/2014	ND	416	104	400	3.92	

**Sample ID: TT-1 @ 5' BGS (H401318-13)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/01/2014	ND	416	104	400	3.92	

**Sample ID: TT-1 @ 6' BGS (H401318-14)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	05/01/2014	ND	416	104	400	3.92	

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7



**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 SH4500C1-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



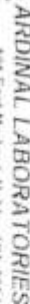
ARDINAL LABORATORIES

161 East Mainland, Hobbs, NM 88240  
(505) 397-2129 Fax: (505) 393-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: <b>Safety &amp; Environmental Solutions, Inc.</b>		F.O.B. #:		BILL TO:		ANALYSIS REQUEST	
Project Manager: <b>Rob Allan</b>		City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Company: <b>Same</b>			
Address: <b>703 East Clinton</b>		Phone #: <b>575-397-0510</b> Fax #: <b>575-393-4388</b>		Address:			
Project #: <b>04-14-008</b>		Project Owner: <b>Art-Tunnel</b>		City:			
Project Name: <b>Cottonwood Unit 10</b>		State: <b>Zip:</b>		Phone #:			
Project Location: <b>Cl</b>		Fax #:		PRESERV. SAMPLES			
Sample Name: <b>Roberto Pava</b>		DATE OF ANALYSIS		DATE		TIME	
Lab I.D. <b>HH0138-</b>		Sample I.D.		DATE		TIME	
01 Sample #1 @ surface		01		4/21/14		9:00 AM	
02 Sample #1 @ 1' bgs		02		4/21/14		9:05 AM	
03 Sample #1 @ 2' bgs		03		4/21/14		9:10 AM	
04 Sample #1 @ 3' bgs		04		4/21/14		9:15 AM	
05 Sample #1 @ 4' bgs		05		4/21/14		9:20 AM	
06 Sample #1 @ 5' bgs		06		4/21/14		9:25 AM	
07 Sample #1 @ 6' bgs		07		4/21/14		9:30 AM	
08 Sample #1 @ 7' bgs		08		4/21/14		9:35 AM	
09 Sample #1 @ 8' bgs		09		4/21/14		9:40 AM	
10 Sample #1 @ 9' bgs		10		4/21/14		9:45 AM	
11 Sample #1 @ 10' bgs		11		4/21/14		9:50 AM	
12 Sample #1 @ 11' bgs		12		4/21/14		9:55 AM	
13 Sample #1 @ 12' bgs		13		4/21/14		10:00 AM	
14 Sample #1 @ 13' bgs		14		4/21/14		10:05 AM	
15 Sample #1 @ 14' bgs		15		4/21/14		10:10 AM	
16 Sample #1 @ 15' bgs		16		4/21/14		10:15 AM	
17 Sample #1 @ 16' bgs		17		4/21/14		10:20 AM	
18 Sample #1 @ 17' bgs		18		4/21/14		10:25 AM	
19 Sample #1 @ 18' bgs		19		4/21/14		10:30 AM	
20 Sample #1 @ 19' bgs		20		4/21/14		10:35 AM	
21 Sample #1 @ 20' bgs		21		4/21/14		10:40 AM	
22 Sample #1 @ 21' bgs		22		4/21/14		10:45 AM	
23 Sample #1 @ 22' bgs		23		4/21/14		10:50 AM	
24 Sample #1 @ 23' bgs		24		4/21/14		10:55 AM	
25 Sample #1 @ 24' bgs		25		4/21/14		11:00 AM	
26 Sample #1 @ 25' bgs		26		4/21/14		11:05 AM	
27 Sample #1 @ 26' bgs		27		4/21/14		11:10 AM	
28 Sample #1 @ 27' bgs		28		4/21/14		11:15 AM	
29 Sample #1 @ 28' bgs		29		4/21/14		11:20 AM	
30 Sample #1 @ 29' bgs		30		4/21/14		11:25 AM	
31 Sample #1 @ 30' bgs		31		4/21/14		11:30 AM	
32 Sample #1 @ 31' bgs		32		4/21/14		11:35 AM	
33 Sample #1 @ 32' bgs		33		4/21/14		11:40 AM	
34 Sample #1 @ 33' bgs		34		4/21/14		11:45 AM	
35 Sample #1 @ 34' bgs		35		4/21/14		11:50 AM	
36 Sample #1 @ 35' bgs		36		4/21/14		11:55 AM	
37 Sample #1 @ 36' bgs		37		4/21/14		12:00 PM	
38 Sample #1 @ 37' bgs		38		4/21/14		12:05 PM	
39 Sample #1 @ 38' bgs		39		4/21/14		12:10 PM	
40 Sample #1 @ 39' bgs		40		4/21/14		12:15 PM	
41 Sample #1 @ 40' bgs		41		4/21/14		12:20 PM	
42 Sample #1 @ 41' bgs		42		4/21/14		12:25 PM	
43 Sample #1 @ 42' bgs		43		4/21/14		12:30 PM	
44 Sample #1 @ 43' bgs		44		4/21/14		12:35 PM	
45 Sample #1 @ 44' bgs		45		4/21/14		12:40 PM	
46 Sample #1 @ 45' bgs		46		4/21/14		12:45 PM	
47 Sample #1 @ 46' bgs		47		4/21/14		12:50 PM	
48 Sample #1 @ 47' bgs		48		4/21/14		12:55 PM	
49 Sample #1 @ 48' bgs		49		4/21/14		1:00 PM	
50 Sample #1 @ 49' bgs		50		4/21/14		1:05 PM	
51 Sample #1 @ 50' bgs		51		4/21/14		1:10 PM	
52 Sample #1 @ 51' bgs		52		4/21/14		1:15 PM	
53 Sample #1 @ 52' bgs		53		4/21/14		1:20 PM	
54 Sample #1 @ 53' bgs		54		4/21/14		1:25 PM	
55 Sample #1 @ 54' bgs		55		4/21/14		1:30 PM	
56 Sample #1 @ 55' bgs		56		4/21/14		1:35 PM	
57 Sample #1 @ 56' bgs		57		4/21/14		1:40 PM	
58 Sample #1 @ 57' bgs		58		4/21/14		1:45 PM	
59 Sample #1 @ 58' bgs		59		4/21/14		1:50 PM	
60 Sample #1 @ 59' bgs		60		4/21/14		1:55 PM	
61 Sample #1 @ 60' bgs		61		4/21/14		2:00 PM	
62 Sample #1 @ 61' bgs		62		4/21/14		2:05 PM	
63 Sample #1 @ 62' bgs		63		4/21/14		2:10 PM	
64 Sample #1 @ 63' bgs		64		4/21/14		2:15 PM	
65 Sample #1 @ 64' bgs		65		4/21/14		2:20 PM	
66 Sample #1 @ 65' bgs		66		4/21/14		2:25 PM	
67 Sample #1 @ 66' bgs		67		4/21/14		2:30 PM	
68 Sample #1 @ 67' bgs		68		4/21/14		2:35 PM	
69 Sample #1 @ 68' bgs		69		4/21/14		2:40 PM	
70 Sample #1 @ 69' bgs		70		4/21/14		2:45 PM	
71 Sample #1 @ 70' bgs		71		4/21/14		2:50 PM	
72 Sample #1 @ 71' bgs		72		4/21/14		2:55 PM	
73 Sample #1 @ 72' bgs		73		4/21/14		3:00 PM	
74 Sample #1 @ 73' bgs		74		4/21/14		3:05 PM	
75 Sample #1 @ 74' bgs		75		4/21/14		3:10 PM	
76 Sample #1 @ 75' bgs		76		4/21/14		3:15 PM	
77 Sample #1 @ 76' bgs		77		4/21/14		3:20 PM	
78 Sample #1 @ 77' bgs		78		4/21/14		3:25 PM	
79 Sample #1 @ 78' bgs		79		4/21/14		3:30 PM	
80 Sample #1 @ 79' bgs		80		4/21/14		3:35 PM	
81 Sample #1 @ 80' bgs		81		4/21/14		3:40 PM	
82 Sample #1 @ 81' bgs		82		4/21/14		3:45 PM	
83 Sample #1 @ 82' bgs		83		4/21/14		3:50 PM	
84 Sample #1 @ 83' bgs		84		4/21/14		3:55 PM	
85 Sample #1 @ 84' bgs		85		4/21/14		4:00 PM	
86 Sample #1 @ 85' bgs		86		4/21/14		4:05 PM	
87 Sample #1 @ 86' bgs		87		4/21/14		4:10 PM	
88 Sample #1 @ 87' bgs		88		4/21/14		4:15 PM	
89 Sample #1 @ 88' bgs		89		4/21/14		4:20 PM	
90 Sample #1 @ 89' bgs		90		4/21/14		4:25 PM	
91 Sample #1 @ 90' bgs		91		4/21/14		4:30 PM	
92 Sample #1 @ 91' bgs		92		4/21/14		4:35 PM	
93 Sample #1 @ 92' bgs		93		4/21/14		4:40 PM	
94 Sample #1 @ 93' bgs		94		4/21/14		4:45 PM	
95 Sample #1 @ 94' bgs		95		4/21/14		4:50 PM	
96 Sample #1 @ 95' bgs		96		4/21/14		4:55 PM	
97 Sample #1 @ 96' bgs		97		4/21/14		5:00 PM	
98 Sample #1 @ 97' bgs		98		4/21/14		5:05 PM	
99 Sample #1 @ 98' bgs		99		4/21/14		5:10 PM	
100 Sample #1 @ 99' bgs		100		4/21/14		5:15 PM	
101 Sample #1 @ 100' bgs		101		4/21/14		5:20 PM	
102 Sample #1 @ 101' bgs		102		4/21/14		5:25 PM	
103 Sample #1 @ 102' bgs		103		4/21/14		5:30 PM	
104 Sample #1 @ 103' bgs		104		4/21/14		5:35 PM	
105 Sample #1 @ 104' bgs		105		4/21/14		5:40 PM	
106 Sample #1 @ 105' bgs		106		4/21/14		5:45 PM	
107 Sample #1 @ 106' bgs		107		4/21/14		5:50 PM	
108 Sample #1 @ 107' bgs		108		4/21/14		5:55 PM	
109 Sample #1 @ 108' bgs		109		4/21/14		6:00 PM	
110 Sample #1 @ 109' bgs		110		4/21/14		6:05 PM	
111 Sample #1 @ 110' bgs		111		4/21/14		6:10 PM	
112 Sample #1 @ 111' bgs		112		4/21/14		6:15 PM	
113 Sample #1 @ 112' bgs		113		4/21/14		6:20 PM	
114 Sample #1 @ 113' bgs		114		4/21/14		6:25 PM	
115 Sample #1 @ 114' bgs		115		4/21/14		6:30 PM	
116 Sample #1 @ 115' bgs		116		4/21/14		6:35 PM	
117 Sample #1 @ 116' bgs		117		4/21/14		6:40 PM	
118 Sample #1 @ 117' bgs		118		4/21/14		6:45 PM	
119 Sample #1 @ 118' bgs		119		4/21/14		6:50 PM	
120 Sample #1 @ 119' bgs		120		4/21/14		6:55 PM	
121 Sample #1 @ 120' bgs		121		4/21/14		7:00 PM	
122 Sample #1 @ 121' bgs		122		4/21/14		7:05 PM	
123 Sample #1 @ 122' bgs		123		4/21/14		7:10 PM	
124 Sample #1 @ 123' bgs		124		4/21/14		7:15 PM	
125 Sample #1 @ 124' bgs		125		4/21/14		7:20 PM	
126 Sample #1 @ 125' bgs		126		4/21/14		7:25 PM	
127 Sample #1 @ 126' bgs		127		4/21/14		7:30 PM	
128 Sample #1 @ 127' bgs		128		4/21/14		7:35 PM	
129 Sample #1 @ 128' bgs		129		4/21/14		7:40 PM	
130 Sample #1 @ 129' bgs		130		4/21/14		7:45 PM	
131 Sample #1 @ 130' bgs		131		4/21/14		7:50 PM	
132 Sample #1 @ 131' bgs		132		4/21/14		7:55 PM	
133 Sample #1 @ 132' bgs		133		4/21/14		8:00 PM	
134 Sample #1 @ 133' bgs		134		4/21/14		8:05 PM	
135 Sample #1 @ 134' bgs		135		4/21/14		8:10 PM	
136 Sample #1 @ 135' bgs		136		4/21/14		8:15 PM	
137 Sample #1 @ 136' bgs		137		4/21/14		8:20 PM	
138 Sample #1 @ 137' bgs		138		4/21/14		8:25 PM	
139 Sample #1 @ 138' bgs		139		4/21/14		8:30 PM	
140 Sample #1 @ 139' bgs		140		4/21/14		8:35 PM	
141 Sample #1 @ 140' bgs		141		4/21/14		8:40 PM	
142 Sample #1 @ 141' bgs		142		4/21/14		8:45 PM	
143 Sample #1 @ 142' bgs		143		4/21/14		8:50 PM	
144 Sample #1 @ 143' bgs		144		4/21/14		8:55 PM	
145 Sample #1 @ 144' bgs		145		4/21/14		9:00 PM	
146 Sample #1 @ 145' bgs		146		4/21/14		9:05 PM	
147 Sample #1 @ 146' bgs		147		4/21/14		9:10 PM	
148 Sample #1 @ 147' bgs		148		4/21/14		9:15 PM	
149 Sample #1 @ 148' bgs		149		4/21/14		9:20 PM	
150 Sample #1 @ 149' bgs		150		4/21/14		9:25 PM	
151 Sample #1 @ 150' bgs		151		4/21/14		9:30 PM	
152 Sample #1 @ 151' bgs		152		4/21/14		9:35 PM	
153 Sample #1 @ 152' bgs		153		4/21/14		9:40 PM	
154 Sample #1 @ 153' bgs		154		4/21/14		9:45 PM	
155 Sample #1 @ 154' bgs		155		4/21/14		9:50 PM	
156 Sample #1 @ 155' bgs		156		4/21/14		9:55 PM	
157 Sample #1 @ 156' bgs		157		4/21/14		10:00 PM	
158 Sample #1 @ 157' bgs		158		4/21/14		10:05 PM	
159 Sample #1 @ 158' bgs		159		4/21/14		10:10 PM	
160 Sample #1 @ 159' bgs		160		4/21/14		10:15 PM	
161 Sample #1 @ 160' bgs		161		4/21/14		10:20 PM	
162 Sample #1 @ 161' bgs		162		4/21/14		10:25 PM	
163 Sample #1 @ 162' bgs		163		4/21/14		10:30 PM	
164 Sample #1 @ 163' bgs		164		4/21/14		10:35 PM	
165 Sample #1 @ 164' bgs		165		4/21/14		10:40 PM	
166 Sample #1 @ 165' bgs		166		4/21/14		10:45 PM	
167 Sample #1 @ 166' bgs		167		4/21/14		10:50 PM	
168 Sample #1 @ 167' bgs		168		4/21/14		10:55 PM	
169 Sample #1 @ 168' bgs		169		4/21/14		11:00 PM	
170 Sample #1 @ 169' bgs		170		4/21/14		11:05 PM	
171 Sample #1 @ 170' bgs		171		4/21/14		11:10 PM	
172 Sample #1 @ 171' bgs		172		4/21/14		11:15 PM	
173 Sample #1 @ 172' bgs		173		4/21/14		11:20 PM	
174 Sample #1 @ 173' bgs		174		4/21/14		11:25 PM	
175 Sample #1 @ 174' bgs		175		4/21/14		11:30 PM	
176 Sample #1 @ 175' bgs		176		4/21/14		11:35 PM	
177 Sample #1 @ 176' bgs		177		4/21/14		11:40 PM	
178 Sample #1 @ 177' bgs		178		4/21/14		11:45 PM	
179 Sample #1 @ 178' bgs		179		4/21/14		11:50 PM	
180 Sample #1 @ 179' bgs		180		4/21/14		11:55 PM	
181 Sample #1 @ 180' bgs		181		4/21/14		12:00 PM	
182 Sample #1 @ 181' bgs		182		4/21/14		12:05 PM	
183 Sample #1							



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

Company Name: <b>Safety &amp; Environmental Solutions, Inc.</b>		Project Manager: <b>Rob Allen</b>		Address: <b>703 East Clinton</b>		City: <b>Holts</b>		State: <b>NM</b>		Zip: <b>88240</b>	
Phone #: <b>575-397-0510</b>		Fax #: <b>575-393-4388</b>		Address:		City:		State:		Zip:	
Project Name: <b>CDM-14-008</b>		Project Owner: <b>Archie Trammel</b>		Project Location: <b>with ID</b>		Sample Name: <b>Roberto Ravea</b>		Fax #:		Phone #:	
Lab I.D. <b>H40138-</b>		Sample I.D.		MATERIAL		PRESERVE		SAMPLING		DATE	
11 TT-1 @ 3' bgs		11 TT-1 @ 4' bgs		11 TT-1 @ 5' bgs		11 TT-1 @ 6' bgs		11 TT-1 @ 7' bgs		11 TT-1 @ 8' bgs	
12 TT-1 @ 4' bgs		13 TT-1 @ 5' bgs		14 TT-1 @ 6' bgs		15 TT-1 @ 7' bgs		16 TT-1 @ 8' bgs		17 TT-1 @ 9' bgs	
18 TT-1 @ 10' bgs		19 TT-1 @ 11' bgs		20 TT-1 @ 12' bgs		21 TT-1 @ 13' bgs		22 TT-1 @ 14' bgs		23 TT-1 @ 15' bgs	
24 TT-1 @ 16' bgs		25 TT-1 @ 17' bgs		26 TT-1 @ 18' bgs		27 TT-1 @ 19' bgs		28 TT-1 @ 20' bgs		29 TT-1 @ 21' bgs	
30 TT-1 @ 22' bgs		31 TT-1 @ 23' bgs		32 TT-1 @ 24' bgs		33 TT-1 @ 25' bgs		34 TT-1 @ 26' bgs		35 TT-1 @ 27' bgs	
36 TT-1 @ 28' bgs		37 TT-1 @ 29' bgs		38 TT-1 @ 30' bgs		39 TT-1 @ 31' bgs		40 TT-1 @ 32' bgs		41 TT-1 @ 33' bgs	
42 TT-1 @ 34' bgs		43 TT-1 @ 35' bgs		44 TT-1 @ 36' bgs		45 TT-1 @ 37' bgs		46 TT-1 @ 38' bgs		47 TT-1 @ 39' bgs	
48 TT-1 @ 40' bgs		49 TT-1 @ 41' bgs		50 TT-1 @ 42' bgs		51 TT-1 @ 43' bgs		52 TT-1 @ 44' bgs		53 TT-1 @ 45' bgs	
54 TT-1 @ 46' bgs		55 TT-1 @ 47' bgs		56 TT-1 @ 48' bgs		57 TT-1 @ 49' bgs		58 TT-1 @ 50' bgs		59 TT-1 @ 51' bgs	
60 TT-1 @ 52' bgs		61 TT-1 @ 53' bgs		62 TT-1 @ 54' bgs		63 TT-1 @ 55' bgs		64 TT-1 @ 56' bgs		65 TT-1 @ 57' bgs	
66 TT-1 @ 58' bgs		67 TT-1 @ 59' bgs		68 TT-1 @ 60' bgs		69 TT-1 @ 61' bgs		70 TT-1 @ 62' bgs		71 TT-1 @ 63' bgs	
72 TT-1 @ 64' bgs		73 TT-1 @ 65' bgs		74 TT-1 @ 66' bgs		75 TT-1 @ 67' bgs		76 TT-1 @ 68' bgs		77 TT-1 @ 69' bgs	
78 TT-1 @ 70' bgs		79 TT-1 @ 71' bgs		80 TT-1 @ 72' bgs		81 TT-1 @ 73' bgs		82 TT-1 @ 74' bgs		83 TT-1 @ 75' bgs	
84 TT-1 @ 76' bgs		85 TT-1 @ 77' bgs		86 TT-1 @ 78' bgs		87 TT-1 @ 79' bgs		88 TT-1 @ 80' bgs		89 TT-1 @ 81' bgs	
90 TT-1 @ 82' bgs		91 TT-1 @ 83' bgs		92 TT-1 @ 84' bgs		93 TT-1 @ 85' bgs		94 TT-1 @ 86' bgs		95 TT-1 @ 87' bgs	
96 TT-1 @ 88' bgs		97 TT-1 @ 89' bgs		98 TT-1 @ 90' bgs		99 TT-1 @ 91' bgs		100 TT-1 @ 92' bgs		101 TT-1 @ 93' bgs	
102 TT-1 @ 94' bgs		103 TT-1 @ 95' bgs		104 TT-1 @ 96' bgs		105 TT-1 @ 97' bgs		106 TT-1 @ 98' bgs		107 TT-1 @ 99' bgs	
108 TT-1 @ 100' bgs		109 TT-1 @ 101' bgs		110 TT-1 @ 102' bgs		111 TT-1 @ 103' bgs		112 TT-1 @ 104' bgs		113 TT-1 @ 105' bgs	
114 TT-1 @ 106' bgs		115 TT-1 @ 107' bgs		116 TT-1 @ 108' bgs		117 TT-1 @ 109' bgs		118 TT-1 @ 110' bgs		119 TT-1 @ 111' bgs	
120 TT-1 @ 112' bgs		121 TT-1 @ 113' bgs		122 TT-1 @ 114' bgs		123 TT-1 @ 115' bgs		124 TT-1 @ 116' bgs		125 TT-1 @ 117' bgs	
126 TT-1 @ 118' bgs		127 TT-1 @ 119' bgs		128 TT-1 @ 120' bgs		129 TT-1 @ 121' bgs		130 TT-1 @ 122' bgs		131 TT-1 @ 123' bgs	
132 TT-1 @ 124' bgs		133 TT-1 @ 125' bgs		134 TT-1 @ 126' bgs		135 TT-1 @ 127' bgs		136 TT-1 @ 128' bgs		137 TT-1 @ 129' bgs	
138 TT-1 @ 130' bgs		139 TT-1 @ 131' bgs		140 TT-1 @ 132' bgs		141 TT-1 @ 133' bgs		142 TT-1 @ 134' bgs		143 TT-1 @ 135' bgs	
144 TT-1 @ 136' bgs		145 TT-1 @ 137' bgs		146 TT-1 @ 138' bgs		147 TT-1 @ 139' bgs		148 TT-1 @ 140' bgs		149 TT-1 @ 141' bgs	
150 TT-1 @ 142' bgs		151 TT-1 @ 143' bgs		152 TT-1 @ 144' bgs		153 TT-1 @ 145' bgs		154 TT-1 @ 146' bgs		155 TT-1 @ 147' bgs	
156 TT-1 @ 148' bgs		157 TT-1 @ 149' bgs		158 TT-1 @ 150' bgs		159 TT-1 @ 151' bgs		160 TT-1 @ 152' bgs		161 TT-1 @ 153' bgs	
162 TT-1 @ 154' bgs		163 TT-1 @ 155' bgs		164 TT-1 @ 156' b							

## **Appendix B**

### **C-141**

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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.
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**Release Notification and Corrective Action**

<b>OPERATOR</b>		<input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report
Name of Company: Oxy USA Inc.	Contact: Austin Trammell	
Address: 1017 W Stanolind Road	Telephone No. 575-499-4919	
Facility Name: Cotton Draw Unit 10	Facility Type: Well location	

Surface Owner: BLM	Mineral Owner:	API No. 30-025-08195
--------------------	----------------	----------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	25S	32E	660	N	660	E	Lea

Latitude\_32.13683°    Longitude\_-103.67362°

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: 35BBL	Volume Recovered: 30BBL
Source of Release: 2" steel production line due to internal corrosion	Date and Hour of Occurrence: 04/01/2014 @ 2:00 PM	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? Austin Trammell	Date and Hour 04/02/2014 @02:37 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.\*  
 Internal corrosion on a 2" steel production flow line cause 35 bbls of produced water to leak onto the ground. 30 bbls of fluid was recovered and well was shut in.

Describe Area Affected and Cleanup Action Taken.\*  
 The affected area is approximately 18'x40'. Remediation will be completed in accordance with an approved remediation plan from the 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.

Signature:  Printed Name: Austin Trammell Title: HES Specialist E-mail Address: Austin_trammell@oxy.com Date: 04/14/2014    Phone: 575-499-4919	<b>OIL CONSERVATION DIVISION</b>  Approved by Environmental Specialist:  Approval Date:    Expiration Date:  Conditions of Approval:    Attached <input type="checkbox"/>
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\* Attach Additional Sheets If Necessary

## **Appendix C**

### **Site Photographs**





Photo #1 – East of fence line facing west



Photo #2 – West of fence line facing west



Photo #3 – Release Point



Photo #4 – Spill area facing east





Photo #5 - Spill are facing north east end



Photo #6 – Spill area facing north West end



Photo # 7 – Spill area facing south west end



Photo #8 – Spill are facing south east end





Photo #9 – Bottom of spill area

## **Appendix D**

# **NMOSE Water Column/Average Depth to Water**



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

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02216</a>	CUB	LE		2	2	4	21	23S	32E	625035	3573261*	585	400	185

Average Depth to Water: **400 feet**

Minimum Depth: **400 feet**

Maximum Depth: **400 feet**

Record Count: 1

### PLSS Search:

Section(s): 21

Township: 23S

Range: 32E

\*UTM location was derived from PLSS - see Help

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.

5/15/14 11:43 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



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

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 03555 POD1</a>	C	LE		2	2	1	05	24S	32E	622709	3569231	600	380	220

Average Depth to Water: **380 feet**

Minimum Depth: **380 feet**

Maximum Depth: **380 feet**

**Record Count: 1**

**PLSS Search:**

**Section(s): 5**

**Township: 24S**

**Range: 32E**

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.

5/15/14 11:44 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02405</a>	C	ED		4	1	02	24S	31E		617690	3568631*	275	160	115
<a href="#">C 02460</a>	C	ED		3	02	24S	31E			617496	3568022*	320		
<a href="#">C 02460 POD2</a>	C	ED		3	02	24S	31E			617496	3568022*	320		
<a href="#">C 02464</a>	C	ED		3	4	1	02	24S	31E	617589	3568530*	320	205	115

Average Depth to Water: **182 feet**

Minimum Depth: **160 feet**

Maximum Depth: **205 feet**

Record Count: 4

PLSS Search:

Section(s): 2

Township: 24S

Range: 31E

\*UTM location was derived from PLSS - see Help

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.

5/15/14 11:45 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER