

CLOSURE REPORT

Property:

City of Carlsbad

Eddy County, New Mexico 32.3576775 N, 104.2441101 W NMOCD Incident ID: nAB1800955279 RP No.: 2RP-4556 API No. 30-015-20325

May 31, 2023 Ensolum Project No. 03B1417055

Prepared for:

Oxy USA Inc. P.O. Box 4294 Houston, TX 77210 Attn: Mr. Wade Dittrich

Prepared by:

Beaux Jennings

Senior Project Manager

Hans

Heather Holthaus Senior Project Manager

Ensolum, LLC | Environmental & Hydrogeologic Consultants 601 N. Marienfeld Street, Suite 400, Midland, Texas 79701 | Office: 972-364-7682

.



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CLOSURE REPORT

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Ensolum Project No. 03B1417055

1.0 INTRODUCTION

1.1 Executive Summary

- On January 3, 2018, a release of produced water occurred from a failure on a production tank 3inch drain line at the City of Carlsbad central tank battery, hereinafter referred to as the "Site". Approximately 90 barrels (bbls) of produced water were released within the secondary containment for the tank, impacting an area approximately 40 feet long by 25 feet wide.
- On January 26, 2023, Ensolum arrived on-Site and collected a total of four composite soil samples from four locations (FS-1 through FS-4), at a depth of 0-0.25 feet below ground surface (bgs), within the release area.
- Based on the laboratory analytical data, additional excavation activities were conducted in the vicinity of confirmation soil sample location FS-3. Between April 3 and May 4, 2023, Ensolum arrived on-Site and collected a total of four composite soil samples from one location on the excavation floor (FS-3), and three composite soil samples from one location on the excavation sidewall (SW-1), subsequent to completion of additional excavation activities. The final composite floor sample was collected at a depth of eight feet bgs, and the final composite sidewall sample was collected at a depth of 0-8 feet bgs.
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 17.5 feet long by 10 feet wide. The maximum depth of the excavation measured approximately eight feet bgs.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were
 removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill
 material, and then contoured to the original surrounding grade The spill area was located within the
 tank secondary containment, on a caliche pad, and does not require reclamation or revegetation at
 this time.





Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	City of Carlsbad
Location:	Eddy County, New Mexico 32.3576775 N, 104.2441101 W
Property:	New Mexico State Trust Lands
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2**, the Site Map indicating the locations of composite soil samples is included as **Figure 3**, and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

1.3 **Project Objective**

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references NMAC 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum utilized information provided by Oxy, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are two water wells identified within 1,000 feet of the Site. There are two well records located approximately 917 feet southwest of the Site (C00277 and C01153), and five well records located approximately 994 feet northeast of the Site (C00401, C00401 POD 2, C00198, C01149, and C00737). Based on a review of information in the database, these wells are between 160 and 290 feet in depth, with the depths to water ranging from 145 to 180 feet bgs.
- The Site is located within the City of Carlsbad municipal boundary.

Oxy USA Inc. Closure Report City of Carlsbad May 31, 2023 **E**NSOLUM

- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the Bureau of Land Management (BLM), the Site is located within a medium karst area.
- The Site is noted to be located within an area of minimal flood hazard.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

	Closure Criteria for Soils Impacted by a Release										
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit								
	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg								
≤ 50 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg								
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg								
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg								

3.0 SOIL REMEDIATION ACTIVITIES

On January 3, 2018, a release of produced water occurred from a failure on a production tank 3-inch drain line at the Site. Approximately 90 bbls of produced water were released within the secondary containment for the tank, impacting an area approximately 40 feet long by 25 feet wide.

On January 26, 2023, Ensolum arrived on-Site and collected a total of four composite soil samples from four locations (FS-1 through FS-4), at a depth of 0-0.25 feet bgs, within the release area.

Based on the laboratory analytical data, additional excavation activities were conducted in the vicinity of confirmation soil sample location FS-3. Between April 3 and May 4, 2023, Ensolum arrived on-Site and collected a total of four composite soil samples from one location on the excavation floor (FS-3), and three composite soil samples from one location on the excavation sidewall (SW-1), subsequent to completion of additional excavation activities. The final composite floor sample was collected at a depth of eight feet bgs, and the final composite sidewall sample was collected at a depth of 0-8 feet bgs

Based on the laboratory analytical data of the final excavation soil samples, no additional excavation was required. Subsequent to the results of the final composite soil sampling, the excavated soils were removed and taken off-Site for proper disposal.

The final excavation area measured approximately impacted area measured approximately 17.5 feet long by 10 feet wide. The maximum depth of the excavation measured approximately eight feet bgs.

The lithology encountered during the completion of sampling activities consisted primarily of caliche.





Figure 3 identifies approximate soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's composite soil sampling program included the collection of a total of 11 composite soil samples from five locations within the excavation area (FS-1 through FS-4, and SW-1). The composite soil samples were collected at a depths ranging from zero to eight feet bgs.

The composite soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico for standard laboratory analysis.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-Cl B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations associated with the excavation floor (FS-1 through FS-4) and the excavation sidewall (SW-1) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the composite soil samples are below the laboratory sample detection limits (SDLs) and/or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples are below the applicable NMOCD Closure Criteria of 600 mg/kg.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. The spill area was located within the tank secondary containment, on a caliche pad, and does not require reclamation or revegetation at this time. Oxy USA Inc. Closure Report City of Carlsbad May 31, 2023



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8.0 FINDINGS AND RECOMMENDATION

- On January 3, 2018, a release of produced water occurred from a failure on a production tank 3inch drain line at the Site. Approximately 90 bbls of produced water were released within the secondary containment for the tank, impacting an area approximately 40 feet long by 25 feet wide.
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 tank secondary containment, on a caliche pad, and does not require reclamation or revegetation at
 this time.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

Oxy USA Inc. Closure Report City of Carlsbad May 31, 2023



9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc. and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures

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APPENDIX B

Supporting Documentation

Beaux Jennings

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Tuesday, January 24, 2023 2:08 PM
То:	Beaux Jennings
Cc:	Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] City of Carlsbad (Incident ID: nAB1916244311)

[**EXTERNAL EMAIL**]

Beaux,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, January 24, 2023 11:06 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] City of Carlsbad (Incident ID: nAB1916244311)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the City of Carlsbad (Incident ID: nAB1916244311) on Thursday, January 26th. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



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PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC 8330 LBJ Freeway, Ste. 830 Dallas, TX 75243

OSE POD Locations Map



5/17/2023, 11:39:57 AM GIS WATERS PODs

• Active

• Pending

New Mexico State Trust Lands

- Subsurface Estate
- NHD Flowlines
- OSE District Boundary SiteBoundaries

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Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

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OSE POD Locations Map 1,000 ft



5/17/2023, 4:20:37 PM GIS WATERS PODs

- Active
- Pending
- OSE District Boundary
- New Mexico State Trust Lands
 - Subsurface Estate
- NHD Flowlines
- Stream River

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Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

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WATER RIGHT SUMMARY

Form WR 33 NTA FE

STATE ENGINEER OFFICE WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1	(A) Owner of well C. P. RINGER	
	Street and Number Boy 174 Pine Spring's Rou	ite
	City <u>CARLSBAD</u> State <u>Aleu</u> Well was drilled under Permit No. <u>C-1153</u> and is	
	(B) Drilling Contractor A, H, MORCLAND License	•
	(B) Drilling Contractor <u>77.8.51AND Pipe</u> KOAD	
	CityCARLSBADState Neu	U Mexico
	Drilling was commenced October 23	
	Drilling was completed November 23	19.63

(Plat of 640 acres)

Elevation at top of casing in feet above sea	level	Total	depth	of we	ell 290	
State whether well is shallow or artesian	Shallow Der	oth to	water	upon	completion	

	Depth i	n Feet	Thickness in	Description of Water-Bearing Formation
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2				
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5			· · · · · · · · · · · · · · · · · · ·	

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Section 4

Section 2

RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Diameter	Tons	No. Sacks of	Methods Used
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Section 5	PLUGGING	RECO	RD			
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PRINCIPAL WATER-BEARING STRATA

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Section 6

LOG OF WELL

Depth i	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of Material Encountered
0	6	6	BROWN	TOPSOIL
6	30	34	white	BOULDER'S + GRAVEL
30	69	39	white	BOULDER'S, GRAVEL + CALICHE
69	110	4)	PÎNK	PINK CALICHE
110	120	10	RED	RED SILT CLAY
120	128	8	PiNK	PINK CALICHE
128	137	9	YELLOW	YELLOW CLAY + GRAUGE
131	159	ゴユ	RED	BED SILT CLAY
159	185	26	RED	RED CLAY TRACE GYPSUM
185	198	13	RED	PINK Gypsum
198	201	3	RED	RED CLAY
201	203	2	RED	PINK Gypsum
2.03	213	10	RED	REDCLAY
213	235	22	RED	PINK Gypsum & RED CLAY
235	270	35	white	Gypsum
270	275	5	Blue	BLUECLAY
<u> 15</u>	285	10	RED	RED CLAY, TRACE PINK GUPSUM
385	290	. 5	white	log PSUM
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Moreland Well Driller ----- \bigcirc

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WATER RIGHT SUMMARY

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File N INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, P. O. Box 1079, Santa Fe,

New Mexico, or in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public. T~199218

Diameter	Pounds	Threads	Name of	Feet of	Type of	Perforated	
Sec. 3			'REC	ORD OF C	ASING		
No. 5, from		to	, Thiel	kness in feet		, Formation	
							·
							ellow Lime
Sec. 2	12-1			WATER-BE	ARING STR	RATA	
Total depth	of well	265	feet. Water leve	al upon com	oletion of w	rell 147	feet below land surface.
Elevation at	top of casin	g in feet abo	ve sea level				
Loc: Drilling was	te Well Ac	· Q -					<u>/ 5⁻, 19 5⁻/</u>
	lat of 640			\sim		A .	
			Street and I	Number «	302	Fernde	à le
			. Drilling Con	tractor	Joe	Donou	1 ho
			A 4			, Range	
							4 of Section 25
			. 1		-		and
			Well was dr			0	
NM			- Post Office	Car	2560	d N.M.	
	• • • • • • •		Street and I	Jumber.	0, Bo	0× 1/11	¥
	1		Owner of w			Pest	
						Kary	

Diameter in Inches	Pounds per Foot	Threads per Inch	Name of Manufacturer	Feet of Casing	Type of Shoe	Perfora From	ted To	Purpose
6"1.D.				200		150	1.20	Hold Walls of Will
					· · · · · · · · · · · · · · · · · · ·			

Sec. 4

RECORD OF MUDDING AND CEMENTING

Diameter of Hole in Inches	Number of Sacks of Cement	Methods Used	Specific Gravity of Mud	Tons of Clay Used
	1e¼	GING RECORD OF OLD	, Townsh	-
	•	Post Office.		
		oughage used		
Cement plugs were pl				
No. 1 was placed at		feet. Number of sad	cks of cement used	
No. 2 was placed at		feet. Number of sac	cks of cement used	
No. 3 was placed at			cks of cement used	

Number of sacks of cement used

JUL 10 1952

C-277 P.

STATE ENGINEER

No. 4 was placed at.

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LOG OF WELL Sec. 6 CLASSIFICATION OF FORMATION TO (Depth in Feet) THICKNESS IN FEET FROM (Depth in Feet) Soil 12 12 Ô Boldets 38 50 12 Conglomerate Rock Red Bed Caliche Gravel 50 54 104 4 145-104 5 145 150 gellow Lime- weter 20 1.50 170 174 Grey Shale 170 4 Red Bed 185 174 11 Red Bed & Dolomite Line 207 22 185 Red Bedt Gypsum 8 215 207 Pint Gypsum 265 50 215

Page 27 of 86

I, <u>fal</u> <u>Monawho</u>, do solemnly swear that, to the best of my knowledge and belief, the foregoing information is a true and correct record of the well for which report is hereby made, insofar as can be determined from all available records.

SUBSCRIBED AND SWORN TO BEFORE ME this

Signed Jac Monawho Position.... . 302 Street and Number. arlabad n.m. Post Office.

7th day of July , A.D., 19 52 Notary Public My Commission Expires December 6, 19514

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(1

WELL RECORD

					-	000
			••••••		Permit NoC	-277
		Ted R. Best				
Street or P.	o. P.O.I	Box 1111	, City ar	d State Carl	sbad, N. Mex	. .
1. Well loca	ion and descript	ion: The shall (OW well is locat	ed in SW		
SE	¼ of Section			, Range 26E	· Fleveti	on of ton of
				• • • •		· · ·
	:			, inches		
				as commenced		
		,		rilling contractor .		
302 Fe	rndale ;	Address, Car	clsbad, N. Me	X. ; Driller's	License No.	
2. Principal	Water-bearing S	Strata:				
	Depth in Feet From 7	Thic To	ekness	Description of Wat	er-bearing Formation	
No. 1	150	170	20	Yellow lim	e	
No. 2		- <u></u>				<u>`</u>
No. 3				<u></u>		
No. 4						
No. 5		<u></u>				
				<u></u>		
Diameter in inches	Pounds Thres per ft. per ir		; or Liner Feet Bottom Casin		Perfor From	ration To
6"ID		•••••)		1.70
	· · · · · · · · · · · · · · · · · · ·	•••••	·····	·····		
		·····	•••••••••••••••••••••••••••••••••••••••	·····	·····	
•••••••••••••••••••••••••••••••••••••••						
			******	••••		
4. If above c	onstruction repla	ices old well to be	abandoned, give	location:	¼,	1⁄4
of Section	, Tow	nship	, Range	; name and ad	idress of plugging	contractor,
.,						
	1			ibe how well was		
	i		· · ·			
				······································		
······	••••••••••••••••••••••••		•••••	<u></u>		······
			·**			
,		СОР	Ŷ			
	1					
. 277						

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ed Well Driller

5. Log of Well:

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Depth in Feet From To		Thickness in feet	Description of Formation					
) 0	:12	12	Soil					
12	50	38	Boulders					
50	104	54	Conglomerate rock					
104	145	41	Red bed					
145	150	5	Caliche, gravel					
150	170	20	Yellow lime (water)					
170	174	4	Gray shale					
174	185	11	Red Bed					
185	207	22	Red bed and dolomite lime					
207	215	8	Red bed and gypsum					
215	265	50	Pink gypsum					
	· · · · · · · · · · · · · · · · · · ·							
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	1 . -							
<u>_</u>								
	* : · · ·							
		<u> </u>						

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Joe Donowho

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

C-277

This form to be executed in triplicate.

PROOF OF COMPLETION OF WORKS UNDERGROUND WATERS

1

0

	Permit No. C = 2//
State of New Mexico	_)
County of Eddy	
I. Ted P. Best	
or Carlsbad	, County of Eddy
State of New Mexico	, being first duly sworn, do hereby certify that I am the owner
and holder of a permit to Chause location	in the
Darke Conver Cantonad 12	iter, repair/well, change of location of well)
	nder oround water basin, the waters from such source
to be used for demestic	purposes
under said permit; that said application has been filed	and approved in the office of the State Engineer under
No. C- 277	; that the works necessary to accomplish
	of said permit have been completed; that all provisions and state Engineer have been fully complied with; that the fol-
	pletion of said works; and that the said statement and each
and all of the items contained therein are true to the best	of my knowledge and belief.
	Ted N. 13est
Subscribed and sworn to before me this	day of
	CH Brown
My commission expires:	Notary Public.
December 6, 1954	
	embent /
1. Name of appropriator. Ted R. Best	
2. Postoffice address Box - 1/1/	
3. Underground water supply Carlsbad under	rground water basin (Dartz Canyon)
4. The well is located in the 5 W	quarter of the SEquarter
of the 5E quarter of Section	25 Z25
	EddyCounty.
DECENVEN	
ML Card SU	
DEC 24 1952	
STATE ENGINEE	JUL 10 1952
BY	OFFICE ARTESIAN WELL SUPERVISOR ROSWELL, NEW MEXICO
[]]	ECDWERT

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Nominal size (outside diameter) of casing or liner. 670.0	
fominal size (outside diameter) of casing or liner 67.0.13	
Pepth of well ZC5feet. 7. Approximate pumping depth	feet.
rescription of pump: make Wind Mill + pump jack, type Cyffindai-6	FO
action liftfeet; size and length of column	;
ze and number of bowls; total length	feet.
lake, type, horsepower, etc., of power plant	
apacity of well	
ame of driller Joe Donowho	
as log of this well been filed with State Engineer or his representative? $\frac{yes}{yes}$	
he distribution work consists of feet of	ditch,
feet of flume,	; pipe.
ze of reservoir feet wide, feet av	verage
epth,	1/4,
ands to be irrigated. <u>5 act &</u> acres, located in	
······································	
there are other sources of water supply for these lands, describe giving file Nos., etc	
Ref 1 st	È I
forks were completed	37
above construction replaces an old well to be plugged or abandoned, fill out following:	
The well abandoned is located in the Same 4,	1/4
of Section,, Range,	
	·,
Name of plugging contractor	
Name of plugging contractor	51
Name of plugging contractor	<u>5/</u> :cord-
Well was plugged in accordance with terms of permit 19	<u>5/</u> :cord-
Well was plugged in accordance with terms of permit	cord-

MR File N	umber: C				Subbasin:	-	Cross Re	ference:	-	
Primary P	urpose: D	DM 72-1	2-1 DC	OMES	TIC ONE	HOUSEHO	OLD			
Primary S	tatus: PN	AT PER	MIT							
Total Acre	5:			5	Subfile:	-			Header:	-
Total Dive	rsion: 3			(Cause/Cas	se: -				
0	wner: R.	T. SPENC	Е							
x										
uments on File		6	40444				Enom/			
Trn # Do	c File/Act		tatus 2	Tran	saction De	sc.	From/ To	Acres	Diversion	Consumptiv
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<u>images</u> <u>get</u> 197806 7212				C 00	401 RPR		Т		3	
images		_					-			
<u>get</u> <u>460840 7212</u>	1 1953-02-2	2 <u>7</u> PM7	APR	C 00-	401		Т		3	
rent Points of Dive	rsion									
			0			(NAD83 UT)	M in meters)			
POD Number	Well Tag	Source	-	•	Tws Rng	X	Y	Other	Location Des	sc
<u>C 00401</u>				4 25	22S 26E	571298	3580540*	9		
C 00401 POD2		Shallow		4 25	22S 26E	571298	3580540*	1		

5/17/23 3:32 PM

WATER RIGHT SUMMARY

	/31/2023 9:10							(Revis	<i>Page</i> . ed June 1972
1 6 N	1	≁ •	STA	TE ENGINEE	R OFFICE	–	NIN	/	
•				WELL REC	ORD	λ	r 1900)	·
					NFORMATION		l		
A) Owner o	f well	RANK	, Ro	MERO	· · · · · ·	Owner	r's Well No.		-40
Street or City and	Posti Office Ac State	ARLSBA	6 N. † D, N	M. 8	8220				
Vell was drille	d under Permit	NO CONTRACTOR	2401	·	_ and is located	in the:			
_	SANTA FE	, NEW MEXIC	0 6 1/ of Sov	ation 25	Townshin	<u>22-5</u> Ran	.	6 - F	- NMPM
						- /			
c. Lot N Subdi	lo vision, recorde	of Block No d in 🖌	F FDDY	of the C	county.	DEL			<u> </u>
						System			
									-
						License No			
ddress 8	1 Kel	Ly Rd.	CAR	LSBAd	, N.M.	8822	0		
						CABLE tool			
levation of la	nd surface or _			at we	ll is	ft. Total depth	of well	23	50_ft
		hallow 🗆 ar				upon completion			
ompieted we	n is 🗆 s.			i.				_/ U	_ _
Depth	in Feet	Thickness		-,	R-BEARING ST		Esti	mated	Yield
From	То	in Feet		-	Water-Bearing F				ninute)
180	196	16	/	cive s	AND	WHTER WHTER		60	GAL
230	245	15	Ħ	ed Riv	er SAU	Water	2	20	GAL
						•			
					······				
			Section	n 3. RECORD	OF CASING				
Diameter (inches)	Pounds per foot	Threads	Depth Top	in Feet Bottom	Length (feet)	Type of Sho	be F	Perfo rom	rations To
8"							<u>I'</u>		
<u>8</u> /''	, ,	welded	0	80	80				ore
6		Waldod	0	250	250	Homen	<u>te 2</u>	30	250
······································									
Donth	in Feet	Sectio	n 4. RECOI Sack		UNG AND CEM				
From	То	Diameter	of M		f Cement	Method of Placement			
					÷				
					T				
		1				<u></u>			
				n 5. PLUGGII	NG RECORD				
Jugaing Cont.	ractor					Depth in	Feet		ubic Feet
Address					No.		-		
Address Plugging Meth	od				No	Тор	Bottom	to	Cement
Address Plugging Meth	od				<u>1</u> 2		Bottom	to	Cement
Address Plugging Meth Date Well Plug	od				1		Bottom		
Address Plugging Meth Date Well Plug Plugging appro	od gged oved by: 7/5/88		neer Repres	entative	<u>1</u> 2	Тор	Bottom		
Address Plugging Meth Date Well Plug	od gged oved by: 7/5/88		neer Repres	entative	1 2 3 4 NGINEER ONL	Тор		FSL	*

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Section 6. LOG OF HOLE

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	8	8	
8	37	29	
37	78	41	
_78	100	22	
100	124	24	
124	180	56	
180	196	_16_	
196	210	14	
210	230	20	
230	245	15	
245	250	5	
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<u></u>	-		· · · · · · · · · · · · · · · · · · ·
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			· · · · · · · · · · · · · · · · · · ·
	-		
<u> </u>			
		Dankter	7 DEMADES AND ADDITIONAL INFORMATION

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Ê po Driller

J

CO

20 NH

89

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and the mitted to the appropriate district office of the State Engineer. All sections, excern Section 5, shall be answered as completely accurately as possible when any well is **Released to Imaging: 3/18/2023/9.46/2023/9.46/2** the section is used as a plugging record, only Section 1(a) and Section 5 need be completed.

			Mexico Offic later Rig	U	0
get image list	WR File Number: Primary Purpose: Primary Status:	DOM 72-1	Subbasin: 2-1 DOMESTIC ONE RMIT		ference: -
	Total Acres:		Subfile:	-	Header: -
	Total Diversion:	3	Cause/Cas	se: -	
	Owner:	WILLIAM M	IARTIN		
Documents	s on File	s	itatus	From/	
	Trn # Doc File	e/Act 1	2 Transaction De	sc. To	Acres Diversion Consumptive
get images	198765 72121 1949	<u>-09-16</u> PMT	Г LOG C 00198	Т	3
Current Po	oints of Diversion		Q	(NAD83 UTM in meters)	
POD N <u>C 0019</u>		TagSourceShallow	64Q16Q4Sec Tws Rng 4 25 228 26E	X Y 571298 3580540*	Other Location Desc
	An () after north	ning value indicate	es UTM location was derived	d from PLSS - see Help	
				xpressed understanding that	the OSE/ISC make no warranties, expressed of

implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/17/23 3:34 PM

WATER RIGHT SUMMARY

WELL RECORD

trn. 198765 Page 36 of 86

File No.C-198

INSTRUCTIONS: This form should be typewritten, and filed in the office of the State Engineer, P. O. Box 1079, Santa Fe, New Mexico, or in the office of the Artesian Well Supervisor, Roswell, New Mexico. Section 5 should be answered only if an old artesian well has been plugged. All other sections should be answered in full in every case, regardless of whether the well drilled is shallow or artesian in character. This report must be subscribed and sworn to before a Notary Public.

			· Owner of	well	Wm. Mar	tin				
		* = + = *	Street and	Street and NumberBox 68						
N.W-										
			Well was o	Irilled under]	Permit No	.c		and		
			-					4 of Section 25		
			-1							
SW		S.E	- L'					261		
		·	Drilling Co	ontractor	n Martin	$\frac{1}{1}$	- 26)			
			Street and	Number Be	n 68					
Locat		curately		1						
								, 19		
			1	1.1	程:			feet below land surface.		
Sec. 2	ingen Title			WATER-BE			;			
		to	, Th	ickness in fee	t	, Form	nation			
No. 2, from		to	, Th	ickness in feet	L	, Forr	nation			
No. 3, from		to	, Th	ickness in feet		, For1	nation			
No. 4, from		to	, Th	ickness in feet		, For1	nation	· · · · · · · · · · · · · · · · · · ·		
No. 5, from		to	, Th	ickness in feet	-	, Form	nation			
Sec. 3			R	CORD OF C	ASING		i Ala			
Diameter	Pounds	Threads	Name of	Feet of	Type of	Perfora	ated	Purpose		
in Inches	per Foot	per Inch	Manufactur	er Casing	Shoe	From	'î'o	rarpose		
	-		· · ·							
			· · · · · · · · · · · · · · · · · · ·							
			1					· · · · · · · · · · · · · · · · · · ·		
Sec. 4		·	RECORD OF	MUDDING	AND CEME	NTING				
Diamete	rof	Number of	Sacks	Mothoda II	bot	Specific	Gravity	Tens of		
Hole in I	nches	of Ceme	ent	Methods Used			of Mud Clay Use			
. <u>2</u>			· · · ·					All 1224 According to the According to t		
						1				
Sec. 5			PLUGGIN	G RECORD	OF OLD W	ELL	DEC 1	3 1950		
	ed in the		1/4			1	C. Pour	nchin		
Range			plugging contra	ctor		ARTESI ROSI	AN WELL	SUPERVISOR		
Street and N	umber			Pos	t Office			W MEXICO		
Tons of clay	used		Tons of roug	hage used		Туре	of rough	age		
-					s plugging a	pproved by	Artesian	Well Supervisor?		
Cement plugs	were place	d as follows	•	· .						
No. 1 was place	ced at			feet. Num	ber of sack	s of cement	used			
No. 2 was plac	ed at		•	feet. Num	ber of sacks	s of cement	used			
No. 3 was plac	ced at			fer. Nor	ber of sack	s of cement	. used			
No. 4 was plac	ed at									
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Page	3	7	of	8	6
-a,	-4.				

From (Depth in Feet)	To (Depth in Feet)	Thickness in Feet	Classification of Formation
n an the state of	aller von Maleria. 1996 – Nach Maleria, 199		an <u>- Maan yn yn ter wyf i dyna</u> yn ar yn dyna. 1976 - Charles Charles yn Arwan yn yn ar ynaeth
化化化学 网络马克尔 化乙基苯基乙基 化合金	on the second	Notes that the second	rtracted from management
Conv of Wemnr	andum on G-W condi	tions in the vicir	1ty of City Airport
Southwest of C	arlabad, New Mexic	o. W. B. Bale & (V. Theis, pp 10, 11
			and a second second Second second second Second second
0-10	Mesing		
10-20	Gravel		
2 0 -30	Missing		
30-35	Olay, sand & sre		
35(1)-40(1)	Gravel		
ho-55	Missing		<u>Поник</u> . Р
55-70	Gravel		
70-80	Clay		
<u></u>	Missing		and and a second se The second se The second se
90-95	Öley		
95- 135	Conglomerate	and the second secon	
135-140	Ølay		
ชื่อไว้ แต่ส. ยักสาวด	nded Sent 15	1949. 7	"hole
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tareta Atender	······································		
	· · ·		
I,	tion is a true and correct available records.	, do solemnly swear th record of the well for whi	nat, to the best of my knowledge and ch report is hereby made, insofar as
BSCRIBED AND SWOR	N TO BEFORE ME th	is Signed	Martis
1	. 10 Darone me in	· ·	,
	The Plans Notary Public		
	C 22 (C T T C T C T C T C T C T C T C T C T	er Olassal and NT	Box 68

(This	form	is	to	be	executed	in	triplic
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WELL RECORD

	. permisee	, <u></u> 1111	am Martin				·	
street or P.	o. Be	ox 68		, C	ty and State	Tornill	lo, Texas	
			(shallow or an	rtesian)	ioouteu mi		. 1/4,	
· · · · · · · · · · · · · · · · · · ·	¹ ⁄4 of	Section	.25, Tow	nship	.22, Ran	ge26	Elevation of	tor
casing at	oove sea le	evel,	feet;	diameter of	hole,	inches; to	otal depth,	. f
depth to	water upo	n completio	n,	feet; drilli	ng was comr	nenced		9
and com	pleted		, 19	; name	of drilling	contractor!	Villiam Martin.	
		; Ađ	dress,			; Driller's Lie	cense No.	
2. Principal	l Water-be	earing Strat	 a:		a da ser a ser		i ·	
-	Depth i	n Feet	Thick	ness	Desci	iption of Water-b	earing Formation	
No. 1	From	To	· · · · ·	· · · ·				
No. 2					· · · · · · · · · · · · · · · · · · ·		: : : :	
· · · · · · · · · · · · · · · · · · ·								
No. 3								
No. 4							· · · · · · · · · · · · · · · · · · ·	
No. 5								
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	constructi			······				
		on replaces	old well to be	abandoned	give locatio	n:	4,	
		on replaces	old well to be	abandoned	give locatio	n:	a	
	m [‡]	on replaces	old well to be	abandoned	give locatio	n:		
	m [‡]	on replaces	old well to be	abandoned	give locatio	n:		
of Sectio	m	on replaces , Townsh	old well to be	abandoned	give locatio	n:		
of Sectio	m	on replaces , Townsh	old well to be	abandoned	give locatio	n:	ess of plugging cont	
of Sectio	m	on replaces , Townsh	old well to be	abandoned	give locatio	n:	ess of plugging cont	
of Sectio	m	on replaces , Townsh	old well to be	abandoned	give locatio	n:	ess of plugging cont	
of Sectio	n plugging	on replaces , Townsh	old well to be	abandoned , Range , 19	give locatio ; n ; describe ho	n:	ess of plugging cont	ra.
of Section	n plugging	on replaces , Townsh	old well to be	abandoned , Range , 19	give locatio ; n ; describe ho	n:	ess of plugging cont	ra(
of Section	n plugging	on replaces , Townsh	old well to be	abandoned , Range , 19	give locatio ; n ; describe ho	n:	ess of plugging cont	ra(
of Section	n plugging	on replaces , Townsh	old well to be	abandoned , Range , 19	give locatio ; n ; describe ho	n:	ess of plugging cont	

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5. Log of Well:

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Depth From	in Feet	Thickness in feet	Description of Formation	
gged				······································
tigs fr	om cuttings	<u>, by R. H.</u>	King, U.S.G.S. (extractedfrom m	s copy of <u>"Memoran</u>
on Grou	nd Water Co	nditions i	n the vicinity of City Airport s	outhwest of Carlsb
			n the vicinity of City Airport s	
<u>New Mex</u> :	1.co", W. E.	Hale and	C. V. IEE, pp, 10,11.	
		· ·	·	
Q	10		missing	
10	20		gravel	
10				1 : :
20	30		missing	
30	35		clay, sand and gravel	
35 ?	40?	1. 1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (gravel	
40	55		missing	
				: : :
55	70		gravel	· · · · · · · · · · · · · · · · · · ·
70	80		clay	; ;
80	90		missing	
90	95		clay	
95	135		cong.	· · · · · · · · · · · · · · · · · · ·
135	140		clay	·
Ŵoll wa	s deepened	in 1949		
				<u>.</u>
			· · · · · · · · · · · · · · · · · · ·	
-				· · · ·
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

.

4103

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible. This form to be executed in triplicate.

PROOF OF COMPLETION OF WORKS UNDERGROUND WATERS

			Permit No.	198		1
	en an en anti-			1	· . ·	i etc. i c
State of	Texas).			
County of	El Paso	······	ss.		e' ''	
-	No stan					· · ·
				E. C.	~	**************************************
				<u> </u>		
State of	Texas		; being first du	ıly sworn, do her	eby certify that	I am the owne
and holder of a	ı permit to	Appropriate (appropriate	water water, repair well, cl	hange of location of	well)	in the
	(name of u	Carlsbad, E			, the waters fr	om such source
		Domestic		1		
to be used for		m ()				
under said per	rmit; that said ap	plication has been file	ed and approve	d in the office	of the State I	Ingineer unde
No		C-1 98	·	; that the	works necessar	y to accomplish
the appropriati	ion of water in acc	ordance with the terms	of said permit	have been comp	leted; that all	provisions and
conditions und	er which said perr	nit was approved by t	he State Engine	er have been ful	ly complied wit	h; that the fol
-	-	itted in proof of the co	-		t the said state	ment and eacl
and all of the	items contained the	erein are true to the be	st of my knowle 7	dge and belief.	· · · · ·	
. 1	•		V lom.	Marl	<u></u>	· · ·
						· · · ·
	· •.	1 7 + ho		Docomb	~ 1 3	
Subscribed and	sworn to before m	thisllth	day of	Decemb	er	
			el Cf.	yart	-2	
My commission	expires:		и. Д. УА\$	BRD, JUSTICE OF THE		ry Public.
V Dec.	31, 1950	· · · .	PRCT. No. 2000 No.	FIVE, EX-OFFICIO	NOTARY	
	······································			BE PARD COUNTY,	819-66 -68	
s.		1		F		Nature .
	- -					Pal
		STA	TEMENT			
				DE	² 13 1950	
1. Name of a	ppropriator	Wm Martin		ARTESIAN WI		
2 Postoffice a	address	P. 0. Box 68,	Tornillo,	ROSWELL,	VEW DEBUTC	
2. 1 05:000000		ar i a anna anna an S		and the second	MEXICO	R /
3. Undergrou	nd water supply	Non-artesian	• ##•• K. 2.;		······································	~
4. The well is	located in the	Joel Subdivis	ion marter of the	3		quarter
of the	ST.	quarter of Sect	ion 25	, Точ	nship.2	2 5.
Range	1 26 E		Eddy	<u>r</u>		Countv
- 2000 000000		AN 15 1951				
	BUHHUN S	STATE ENGINE	ER			
-		an a				

Received by OCD: 5/31/2023 9:10:25 AM

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Page 40 of 86

Received by OCD: 5/31/2023 9:10:25 AM

5.	Nominal size (outside diameter) of casing or liner
6.	Depth of well 160 feet. 7. Approximate pumping depth /45 feet.
8.	Description of pump: make facuggi; type
	suction liftfeet; size and length of column;
	size and number of bowls; total lengthfeet.
9.	Make, type, horsepower, etc., of power plant 3 LP. Cliette
10.	Capacity of well 20 gals. per min. 11: Is well equipped with gate valve?
12.	Name of driller
13.	Has log of this well been filed with State Engineer or his representative?
14.	The distribution work consists of feet of ditch,
	feet of flume, feet of flume, feet of pipe.
15.	Size of reservoir feet wide, feet average
	depth,4,4,4,
	, Township, Range,
16.	Lands to be irrigatedacres, located in
17.	If there are other sources of water supply for these lands, describe giving file Nos., etc
·	
18.	Works were completed Oct- 15- , 19.49.
	If above construction replaces an old well to be plugged or abandoned, fill out following:
	a. The well abandoned is located in the $\frac{14}{3}$
	of Section
	b. Name of plugging contractor
	c. Well was plugged in accordance with terms of permit, 19,
	I hereby certify that I have duly inspected the above works and find them adequate and properly constructed accord-
ing	to the terms and conditions of this permit.
	Lizzt
	*Arjatan wen Supervisor (or representative of State Engineer)
	Date
1	(HE RYDAL PRESS, SANYA FE, N. M.

and a first		Ne		00	of the Stat	e Engineer mary			
Ø		nber: C 0114		Subbasin: C		erence: -			
g <u>et image list</u>	Primary Pur Primary Stat	rpose: DOM tus: PMT	72-12-1 DC PERMIT	MESTIC ONE HO	USEHOLD				
	Total Acres:			Subfile:	-	Header: -			
	Total Diversi	ion: 3		Cause/Case:	-				
	Ow	ner: JOE A.	BEST, JR.						
Documents	x on File								
			Status		From/				
,	Trn # Doc	File/Act	1 2	Transaction Desc.	То	Acres Diversion Consumptive			
images 4	462224 72121	1963-07-25	PMT LOG	C 01149	Т	3			
Current Po	x ints of Divers	ion							
Current Points of Diversion (NAD83 UTM in meters)									
POD N	umber	Well Tag So	Q ource 64O160	04Sec Tws Rng	X Y	Other Location Desc			
C 0114		8	-	- 0	571298 3580540*	Other Location Desc			
		0		ocation was derived fro	•	e OSE/ISC make no warranties, expressed			

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.

5/17/23 3:36 PM

WATER RIGHT SUMMARY

Form WR-23

SANTA FE

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section I	(A) Owner of well Joe A. Best
	Street and Number Box 338 City XXXX Wichita Falls State Texas Well was drilled under Permit No. $l - 1/49$ and is located in the Lot#64 B.D. 4 SE 4 of Section 25 Twp. 22 Rge. 26
	(B) Drilling Contractor Emmett Barron License No. WD - 30 Street and Number 30.7 South 10th Street
	City Carlsbad State New Mexico
	Drilling was commenced September 2, 19.63
	Drilling was completed October 2, 19.63

(Plat of 640 acres)

Elevation at top of casing in feet above sea	levelTota	l depth o	of well 245	
State whether well is shallow or artesian	Shallow Depth to	water ı	upon completion	170'

Section	2		PRIN	ICIPAL WATER-BEARING STRATA	
No.	Depth in Feet		Thickness in	Description of Water-Bearing Formation	
	From	То	Feet	· · · · · · · · · · · · · · · · · · ·	
1	170'	180'	10'	Pink caliche -red bed gravel	
2					······
3			· · ·	MA NA	
4					· · ·
5				đ	>

Section 3				RECOR	D OF CAS	ING		
Dia Pounds	Threads	Depth		Feet	Turne Shee	Perforations		
in.	ft.	in	Top	Bottom	reet	Type Shoe	From	NTo (C)
7" OD	26	None	0	150	150	none	none	none
							·	
								·

Section 4

RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Diameter	Tons	No. Sacks of	Methods Used
From	То	Hole in in.	Clay	Cement	Methods Used

PLUGGING RECORD Section 5 License No. Name of Plugging Contractor Street and Number_____ City_____ State_____ _____Type of roughage____ Date Plugged__ Plugging method used....) ' __19__ Plugging approved by: Cement Plugs were placed as follows: Depth of Plug No. No. of Sacks Used **Basin Supervisor** From To FOR USE OF STATE ENGINEER ONLY

Use _____ Location No. 22.26.25 400

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Section 6			

log of well

Section 6			DF WELL	
Depth	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	COIDE	
0	5	5		Top soil
5	70	65		Boulders
70	125	55		Caliche, mud, & broken lime
125	165	40	Pink	Pink Caliche & broken lime
165	175	5.	Gray	Gray Caliche mud
175	180	5		Conglomerate Rock
180	185	5	Red	Red Bed & Some Gravel
185	200	15		Sticky Red Bed
200	245	45	Pink	Pink Caliche-Some Lime Rock
				245 Bottom
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

well Driller ann

18 - 1. 18 A

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		Net		00	of the Stat	e Engineer mary
Ø	WR File Numl	ber: C 00737	7	Subbasin: C	Cross Refe	erence: -
get image list	Primary Purp	ose: DOM	72-12-1 DO	MESTIC ONE HO	USEHOLD	
<u>get mage nat</u>	Primary Statu	s: EXP	EXPIRED			
	Total Acres:			Subfile:	-	Header: -
	Total Diversion	n: 0		Cause/Case:	-	
	Owne	er: BILLY H	B. CHESTEF	1		
Documents	x on File					
			Status		From/	
	Trn # Doc	File/Act	1 2	Transaction Desc.	То	Acres Diversion Consumptive
images :	462963 72121	<u>1956-10-17</u>	EXP EXP	C 00737	Т	3
Current Po	ints of Diversio	n				
currentre			Q	(NA	D83 UTM in meters)	
POD N <u>C 0073</u>		Well Tag Sou	irce 64Q160	24Sec Tws Rng 4 25 22S 26E	X Y 571298 3580540*	Other Location Desc
		0		ocation was derived fro	-	a OSE/ISC make no warrantias avpressed o

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.

5/17/23 3:39 PM

WATER RIGHT SUMMARY

OCD Well Locations





5/17/2023, 1:31:11 PM

Wells - Large Scale

- ₽ Gas, Active
- PLSS Second Division

PLSS First Division

1:2,257



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap,

New Mexico Oil Conservation Division

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Received by OCD: 5/31/2023 9:10:25 AM National Flood Hazard Layer FIRMette



Legend

regulatory purposes.

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Releasea to Imaging: 8/18/2023 996:42 AM 1,500 2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

U.S. Fish and Wildlife Service National Wetlands Inventory

NWI Map



Wetlands

- Estuarine and Marine Deepwater

 - Estuarine and Marine Wetland

Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake Other Riverine Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Active Mines in New Mexico







5/17/2023, 1:40:07 PM Land Ownership

Ρ **PLSS Second Division PLSS First Division**





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EMNRD MMD GIS Coordinator

Released to Imaging: 8/18/2023 9:16:42 AM NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

Karst Potential Map





5/17/2023, 1:35:44 PM Wells - Large Scale

☆ Gas, Active

Karst Occurrence Potential

Medium

PLSS Second Division L _



1:2,257



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, ©

New Mexico Oil Conservation Division

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APPENDIX C

Photographic Documentation



View of impacted area during remediation activities, facing west.



View of impacted area during remediation activities, facing southwest.



View of final excavation area, facing southwest.



View of final excavation area, facing south.



APPENDIX D

Tables

Ξ	Ν	5	0	L	U	M
						-

					Eddy	TABLE E ANALYT City of Carlsb Oxy USA, In County, New Project No. 0	ICAL RESU bad c. / Mexico	LTS				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
Closure Crite	Oil Conserva eria for Soils I lease (≤ 50 fe	mpacted by a	10	NE	NE	NE	50	NE	NE	NE	100	600
				•	Floor S	ample Analytic	al Results					
FS-1	1/26/2023	0 - 0.25	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS-2	1/26/2023	0 - 0.25	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	1/26/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	608
	4/3/2023	1			NS					NS		720
FS-3	4/13/2023	2			NS					NS		2,120
	4/21/2023	3			NS					NS		816
	5/4/2023	8			NS					NS		320
FS-4	1/26/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
					Sidewall	Sample Analyt	tical Results					
	4/13/2023	0 - 2			NS					NS		496
SW-1	4/21/2023	0 - 3			NS					NS		1,500
	5/4/2023	0 - 8			NS					NS		176

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



January 30, 2023

BEAUX JENNINGS ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND, TX 79705

RE: CITY OF CARLSBAD

Enclosed are the results of analyses for samples received by the laboratory on 01/26/23 12:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/30/2023	Sampling Type:	Soil
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact
Project Number:	03B1417055	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3576775,-104.2441101		

Sample ID: FS - 1 0-0.25' (H230372-01)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/30/2023	Sampling Type:	Soil
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact
Project Number:	03B1417055	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3576775,-104.2441101		

Sample ID: FS - 2 0-0.25' (H230372-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/27/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/30/2023	Sampling Type:	Soil
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact
Project Number:	03B1417055	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3576775,-104.2441101		

Sample ID: FS - 3 0-0.25' (H230372-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/27/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/26/2023	Sampling Date:	01/26/2023
Reported:	01/30/2023	Sampling Type:	Soil
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact
Project Number:	03B1417055	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3576775,-104.2441101		

Sample ID: FS - 4 0-0.25' (H230372-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					
Surrogate: 1-Chlorooctane	99.4 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

aboratories

Company Name:	Encolum 11 C			BILL	10		~	ANALYSIS BEOLIEST
Project Manager:	-			P.O. #		-	_	
Address: 601 N	601 N. Marienfeld St. STE 400	400		Company: Oxy USA,	JSA, Inc.			
City: Midland		State: TX	Zip: 79701	문	ich		3)	
Phone #: 210-21	210-219-8858	Fax #:		Address:		_	6	
Project #: 03B	03B1417055	Project Owner:		City:			Cl	
Project Name: C	Project Name: City of Cark b	bed		State: Zip:)	0-	
Project Location:	22.357677	-104.	2441101	#	575-390-2828	21 (M	50	
Sampler Name:	Kaileesm	th		Fax #:		15	'u	
FOR LAB USE ONLY			MATRIX		SAMPLING	80	(
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE	TPH (chloride	
-	123-1	0-0.75	1 ×	×	thto	* *	*	
و	FS-2	0, -0,25	CI X	72-1 × 1-26	-26-13 0749 .	t x	*	
a	FS-3	0-0.25	CI X	12-1 ¥	1540 8-12-	+ +	X	
4	h-s4	0-0.25	×	* 1-26-23	0753	+	+	
analyses. All claims including those service. In no event shall Cardinal b affiliates or successors arising out of	g bosinges, caronals inacing and car g bose for negligence and any other r rdinal be liable for incidental or conse g out of or ralated to the performance.	ins exclusive remedy for any claim arking whether base aute whatsoever shall be deemed weived unless made is prontal damages, including without imitation, business int of services herounder by Cardinal, regardices of whether	 claim arising whether based in corr semed waived unless made in writin vithout limitation, business interrupti rdinal, regardless of whether such c 	Processer were channels and upon upon upon upon and constra exclusive remedy for any data making whether based in contract or bot, shall be imited to the amount paid by the client for the analyses. All claims to cluding these for negligence and my other cause whatoever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be linkble for thirder to the completion of the applicable service. In no event shall Cardinal be linkble for thirderial or consequential damages, including without limitation, usiness financians, or loss of use, or loss of the input including the subsidiaries, applicable and subconsistent and any of the other service.	sunt paid by the client for the ays after completion of the app red by client, its subsidiaries, lated reasons or otherwise.	licable		
Relinquished By:	VV	Date: 1-24-23 Time: 0900	Received By:			emailed. Pl ensolum.com	□ No ease prov	Add' Phone #: Ide Email address:
Relinquished By:	Sta	Date: 1-26-23 Time: 1221	Received By:	0	70			
Sampler - UPS - Bus - Other		Corrected Temp. "CO	G Sample Co Cool Int	act (Initials)	Turnaround Time: Thermometer ID #1	12	Rush Z	Cool Intact Observed Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Ves Ves

Corrected Temp. °C

Page 7 of 7

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



April 04, 2023

BEAUX JENNINGS ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND, TX 79705

RE: CITY OF CARLSBAD

Enclosed are the results of analyses for samples received by the laboratory on 04/03/23 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact
Project Number:	03B1417055	Sample Received By:	Tamara Oldaker
Project Location:	32.3576775,-104.241101		

Sample ID: FS - 3 1' (H231510-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/04/2023	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

<th image:="" in="" state="" state<="" th="" the=""><th>PLEASE NOTE: Labelity and Damagea. Cardinat's labelity and diamayees. All claims including those for negligence and any other services no event shall Cardinal be liable for incidential or oran artificate or successors mining out of or reliated to the performance Relinquished By: Relinquished By: Relinquished By: Circle One) Sampler - UPS - Bus - Other: Co</th><th></th><th>Address: 601 N. Marienfeld St. S City: Midland Phone #: 210-219-8858 Project #: C: ty of Carls about Project Name: 033 14(105) Project Location: 32. 3576 1: Sampler Name: 1/2011/2015</th><th>101 Eas (575) Company Name: Ens Project Manager: Beau</th></th>	<th>PLEASE NOTE: Labelity and Damagea. Cardinat's labelity and diamayees. All claims including those for negligence and any other services no event shall Cardinal be liable for incidential or oran artificate or successors mining out of or reliated to the performance Relinquished By: Relinquished By: Relinquished By: Circle One) Sampler - UPS - Bus - Other: Co</th> <th></th> <th>Address: 601 N. Marienfeld St. S City: Midland Phone #: 210-219-8858 Project #: C: ty of Carls about Project Name: 033 14(105) Project Location: 32. 3576 1: Sampler Name: 1/2011/2015</th> <th>101 Eas (575) Company Name: Ens Project Manager: Beau</th>	PLEASE NOTE: Labelity and Damagea. Cardinat's labelity and diamayees. All claims including those for negligence and any other services no event shall Cardinal be liable for incidential or oran artificate or successors mining out of or reliated to the performance Relinquished By: Relinquished By: Relinquished By: Circle One) Sampler - UPS - Bus - Other: Co		Address: 601 N. Marienfeld St. S City: Midland Phone #: 210-219-8858 Project #: C: ty of Carls about Project Name: 033 14(105) Project Location: 32. 3576 1: Sampler Name: 1/2011/2015	101 Eas (575) Company Name: Ens Project Manager: Beau
BILL TO P.O. #: Company: Oxy USA Inc. Address: City: State: Zip: Phone #: 575-390-2828 Fax #: PRESERV SAMPLING ACID/BASE: OTHER: Vice / COOL DATE TIME OTHER: Vice / COOL DATE TIME OTHER: Vice / COOL DATE TIME OH OH OH Vice / COOL DATE TIME OTHER: Vice / COOL DATE TIME OHATE Not due to the tot to the amount pade byte cleant tot to the amount pade byte cleant tot. Not due to the above attent massing is cleant to the average cleant tot. Not due to the above attent massing is cleant. Not due to the above attent massing is cleant. Not due to the above attent massing is cleant. Not due to the above attent massing is cleant. Not due to the above attent massing is cleant. Not due to the above attent massing is cleant. Not due to the above attent. Not due to the above	la tre performano C ∞	C (G)RAB OR (C)OMP. (G)RAB OR (C)OMP. (G)RAB OR (C)OMP. C (G)RAB OR (TE 400 State: TX Zip: 79701 Fax #:	11 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC Beaux Jennings	
		SLUDGE OTHER : ACID/BASE: PRESERV ACID/BASE: PRESERV CE / COOL OTHER : OTHER :	Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:		

Page 4 of 4



April 19, 2023

BEAUX JENNINGS ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND, TX 79705

RE: CITY OF CARLSBAD

Enclosed are the results of analyses for samples received by the laboratory on 04/14/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVI MIDLAND TX, 7970 Fax To:				
Received:	04/14/2023	Sampling Date:	04/13/2023		
Reported:	04/19/2023	Sampling Type:	Soil		
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact		
Project Number:	03B1417055	Sample Received By:	Tamara Oldaker		
Project Location:	32.3576775,-104.241101				

Sample ID: FS - 3 2' (H231818-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	04/19/2023	ND	400	100	400	3.92	

Sample ID: SW - 1 0-2' (H231818-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/19/2023	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

-aboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Sampler - UPS - Bus - Other: **Relinquished By** PLEASE NOTE: Labity and Damages. Cardinat's labitity and clerif'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 whateoever shall be deemed waived unless made is 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. Invariant for the service is a former of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation. Invariant for the normal service. Delivered By: (Circle One) H231818 Sampler Name: Project Location: 32 Project Name: City City: Project #: Phone #: Project Manager: Lab I.D. FOR LAB USE ONLY Address: Midland 0381417055 210-219-8858 601 N. Marienfeld St. STE 400 or or related to the perfe 12 Sample I.D. Sw-1 Beaux Jennings 50 Ensolum, LLC 357077S lec Smith of Carls bu 8 Observed Tamp. I, † Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com octed Tamp Date: Date: 4-14-23 Time: 15S Sample Depth Project Owner: Fax #: 0-21 -104.2441101 State: N rages, including without limitation, business (feet) ĉ å X Sib 1.9 Received By: Received By Zip: C 0 (G)RAB OR (C)OMP **# CONTAINERS** Eddy county, NM Cool Intact Yes Yes No No GROUNDWATER Sample Condition 79701 WASTEWATER MATRIX 4 × SOIL OIL rns, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE OTHER Phone #: State: City: Fax #: P.O. #: Attn: Wade Dittrich Address: Company: ACID/BASE PRESERV CHECKED BY: P Y X ICE / COOL (Initials) OTHER BILL TO 575-390-2828 Oxy USA, 4-13-23 4-13-23 Zip DATE SAMPLING Correction Factor -0.5°C Turnaround Time: All Results are emailed. Please provide Email address: REMARKS: Verbal Result: 1052 1054 Inc. BJennings@ensolum.com TIME Chlorides X X 4500 Ves No Add'l Phone #: Standard Rush ANALYSIS Cool Infact Bacteria (only) Sample Condition Ves Yes REQUEST Corrected Temp. °C Observed Temp. °C

Received by OCD: 5/31/2023 9:10:25 AM

ARDIN



April 26, 2023

BEAUX JENNINGS ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND, TX 79705

RE: CITY OF CARLSBAD

Enclosed are the results of analyses for samples received by the laboratory on 04/21/23 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager


Analytical Results For:

	ENSOLUM, LI BEAUX JENN 705 W WADL MIDLAND TX Fax To:	INGS EY AVE.	
Received:	04/21/2023	Sampling Date:	04/21/2023
Reported:	04/26/2023	Sampling Type:	Soil
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact
Project Number:	03B1417055	Sample Received By:	Yvonne Muniz
Project Location:	32.3576775,-104.241101		

Sample ID: FS - 3 3' (H231964-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	04/25/2023	ND	400	100	400	4.08	

Sample ID: SW - 1 0-3' (H231964-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	04/25/2023	ND	400	100	400	4.08	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 5/31/2023 9:10:25 AM

10	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Hobbs, NM 8824 AX (575) 393-24:	40			
Company Name:	Ensolum, LLC			BILL TO		ANALYSIS REQUESI
Project Manager:	Beaux Jennings			P.O. #:		
Address: 601 N.	601 N. Marienfeld St. STE 400	400		Company: Oxy USA, I	Inc.	
a		State: TX	Zip: 79701	Attn: Wade Dittrich		
O I	-8858			Address:		•
Project #: 03 B 141705	17055	Project Owner:		City:		
Project Name: Cilua	Lunt Callshau	~		State: Zip:	>	
Project Location:	357675	1-104.241101	1 Eddy County NW	Phone #: 575-390-2828		
	61/20	6		1		
FOR LAB USE ONLY			MATRIX	PRESERV. SAM	SAMPLING	
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE		
Tion	FS-3	31	X		cqus x	
-00	Sw-1	0-5	C - +	4-1-2-25	0450 X	
	APPE					
	5					
PLEASE NOTE: Liability and D analyses. All claims including the)amages. Cardinal's liability and c hose for negligence and any other host he liable for incidental or cont	secuental damages, including	ry claim anising whether based in cont seemed waived unless made in writing without limitation, business interruptio	PLEASE NOTE: Lability and Damages. Cardinal's liability and clerifs exclusive remedy for any claim ansing whether based in contract or tort, shall be limited to the amount pad by the clerif for the analyses. All datases including those for negligence and any other cause whatdoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All datases including those for incidential to consciancial damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, and the state of the	paid by the client for the after completion of the applicable by client, its subsidiaries,	
affiliates or successors arising o	arising out of or related to the performant By:	Date:	nder by Cardinal, regardless of whether such cl	her such claim is based upon any of the above stated r	Verbal Result: Ves	Discourse and addresses
Kellinguished by:	h	4-21-23 Time; 20	11	1	All Results are emailed. Ple BJennings@ensolum.com	3 2
Relinquished By:		Date: Time:	Reseived By:		1.0	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. "C Corrected Temp. "C	3.5 Yes Yes	Ves LIIIN	Turnaround Time: Thermometer ID #113 Correstion Factor -0.5°C	Standard Coll Intact Observed Temp. °C

Page 75 of 86



May 08, 2023

BEAUX JENNINGS ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND, TX 79705

RE: CITY OF CARLSBAD

Enclosed are the results of analyses for samples received by the laboratory on 05/05/23 9:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

	ENSOLUM, LLC BEAUX JENNINGS 705 W WADLEY AVI MIDLAND TX, 7970 Fax To:		
Received:	05/05/2023	Sampling Date:	05/04/2023
Reported:	05/08/2023	Sampling Type:	Soil
Project Name:	CITY OF CARLSBAD	Sampling Condition:	Cool & Intact
Project Number:	03B1417055	Sample Received By:	Shalyn Rodriguez
Project Location:	32.3576775,-104.241101		

Sample ID: FS - 3 8' (H232226-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/08/2023	ND	416	104	400	0.00	

Sample ID: SW - 1 0-8' (H232226-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/08/2023	ND	400	100	400	3.92	QM-07

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be determed waived unless made in uniting and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Rélinquished By:	P	affiliates or successors arising out of or relation	PLEASE NOTE: Liability and D. analyses. All claims including th					2	>	dipidoc pit		FOR LAB USE ONLY	Sampler Name:	Project Location: 3	Droject Name:	Project #: 03 BIUITUS	Phone #: 210-219-8858	id	Address: 601 N. N	1	Company Name:
		1	ut of or related to the performan	amages. Cardinal's liability and nose for negligence and any oth so is the liable for incidental or core		5	AFF		Sur-1	12-2	2	Sample I.D.		Gille Smit	125671	a secondate	117055	8858		601 N. Marienfeld St. STE 400	Beaux Jennings	Encolum 11C
Observed Temp, "C	Date: Time:	Time	Date:	client's exclusive remedy for any rer cause whatsoever shall be de resequental damages, including v		/			Ura		2	Sample Depth (feet)		5	WH, ZUHILOI	ich	Project Owner:	Fax #:	State: TX Zip:	400		
S Cool Intact Cool Intact	Received by.	Sto	der by Cardinal, regardless of whether such of Received By:	claim arising whether based in con emed waived unless made in writin filhout limitation, business interruptio						-	1 4 0 V	BROUNDWATE NASTEWATER SOIL DIL			Eddycusto				p: 79701			
ndition CHECKED BY: http://www.checked		100pre	saim is based upon any of the apove same	PLEASE NOTE: Lability and Damages. Cardinul's liability and client's ancluder temedy for any client average investige roads in contract or tons and too innice or use annown, were completioned to applicable analysis. All claims including those for nodigence and any other cause whatever shall be deemed valved missis made in witting and received by clients all houring by client. Its subsidiaries, analysis, All claims including those for nodigence and any other cause whatever shall be deemed valved in water shall be deemed valved and the shall be deemed valved of the shall be deemed valved and the shall be deemed val						x Luis		SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV.		Phone #: 575-390-2828	State: Zip:	City:	Address:	Attn: Wade Dittrich	P	P.O. #:	BILL TO
Turnaround time: Thermometer ID #11 Cerrection Factor -0.5		BJennings@ensolum REMARKS:	ilt:	after completion of the applicable by client, its subsidiaries, of research of otherwise.	a work four the client for the					1602	1520 7	Chlor		SANDI ING S			00	0		Inc.		
Rush R		um.com	Ied. Please provide Email address:		-																	
Cool Intact	Racteria (only)		Add'l Phone #: ide Email address:																		-	
Observed Temp. °C Corrected Temp. °C	Ractoria (only) Sample Condition																					-

aboratories

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APPENDIX F

C-141

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 Department

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

Incident ID	nAB1800955279
District RP	2RP-4556
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Wade Dittrich	Contact Telephone: 575-390-2828
Contact email: wade_dittrich@oxy.com	Incident # nAB1800955279
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.3576775

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: City of Carlsbad	Site Type: Central Tank Battery
Date Release Discovered: 01/03/2018	API# 30-015-20325

Unit Letter	Section	Township	Range	County
А	25	22S	26E	Eddy

Surface Owner: X State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):	
Produced Water	Volume Released (bbls): 90	Volume Recovered (bbls): NA	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Cause of Release: 3-inch	drain line from production tank failure		6

Cause of Release: 3-inch drain line from production tank failure.

	State of New Mexic	20	Incident ID	nAB1800955279
ge 2	Oil Conservation Divi	ision	District RP	2RP-4556
			Facility ID	211-4550
ge 2			Application ID	
			**	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the Release is greater than 25 barrels.	e responsible party cons.	sider this a major release	2?
Yes No				
	otice given to the OCD? By whom? Oxy to Mike Bratcher (NMOCD) a			
	• • • •			
	Init	ial Response		
The responsible	party must undertake the following actions in	nmediately unless they could o	create a safety hazard that wo	uld result in injury
The source of the rela	ease has been stopped.			
The impacted area ha	as been secured to protect human hea	alth and the environmen	t.	
Released materials ha	ave been contained via the use of be	rms or dikes, absorbent	pads, or other containm	ent devices
	ecoverable materials have been remo			
		с н		
If all the actions describe	d above have <u>not</u> been undertaken, e	explain why:		
			24	
has begun, please attach	AC the responsible party may comp a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) NM	medial efforts have bee	n successfully complete	ed or if the release occurre
has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig	a narrative of actions to date. If re	medial efforts have bee MAC), please attach all i te to the best of my knowle ease notifications and perfo by the OCD does not relie ose a threat to groundwater,	n successfully complete information needed for o edge and understand that p orm corrective actions for eve the operator of liability surface water, human hea	ed or if the release occurre closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In
has begun, please attach within a lined containmen I hereby certify that the info regulations all operators are public health or the environn failed to adequately investig addition, OCD acceptance of and/or regulations.	a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) NM prmation given above is true and complet required to report and/or file certain rele ment. The acceptance of a C-141 report tate and remediate contamination that po of a C-141 report does not relieve the oper trich	medial efforts have bee MAC), please attach all i te to the best of my knowle ease notifications and perfo by the OCD does not relie ose a threat to groundwater, erator of responsibility for	n successfully complete information needed for o edge and understand that p orm corrective actions for eve the operator of liability surface water, human hea	ed or if the release occurre closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In
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State of New Mexico Oil Conservation Division

Incident ID	nAB1800955279
District RP	2RP-4556
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	$\underline{\leq 50}$ (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🛛 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	TYes No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps

12023 9-10-25 AN

Received

Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

%Form C-141 %Page 4	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	nAB1800955279 2RP-4556
regulations all op public health or t failed to adequate	hat the information given above is true and complete to the perators are required to report and/or file certain release noti he environment. The acceptance of a C-141 report by the C ely investigate and remediate contamination that pose a three cceptance of a C-141 report does not relieve the operator of s.	fications and perform con OCD does not relieve the eat to groundwater, surfac	rrective actions for rele operator of liability sho water, human health	eases which may endanger ould their operations have or the environment. In
Printed Name:	Wade Dittrich	Title: <u>Environmenta</u> Date:		
email: <u>wade_di</u>	ttrich@oxy.com	Telephone: <u>575-39</u>	0-2828	
OCD Only Received by:		Date:		

State of New Mexico **Oil Conservation Division**

Incident ID	nAB1800955279
District RP	2RP-4556
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Signature:

email: wade_dittrich@oxy.com

Title: Environmental Specialist

5-30-23 Date:

Telephone: 575-390-2828

OCD Only

Received by OCD:

Jocelyn Harimon Received by:

Date: 5/31/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and Released to Imaging: 8/18/2023 9:16:42. remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	<u>^</u>	$\gamma \sim$	Date:	8/18/2023	
Printed Name:	Jocelyn Harimo		Title:	Environmental Specialist	

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	222171
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	8/18/2023

Page 86 of 86

Action 222171