

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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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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- 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 BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal.
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 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.

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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Web Generated Map Map is generated by web users.

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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| S displayName | use | use_of_well | status | pod_status | own_Iname | own_fname | depth_well | depth_water | distance_to_center | utm_easting | utm_northing start_date | finish_date |
| C 00277 | MUL | null | PMT | ACT | BEST | TED. R. | 26 | 5 14 | 7 917.516 | 571411 | 3580227 Sun Sep 02 1951 | Fri Sep 14 1951 |
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WATER RIGHT SUMMARY

Form WR 23 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 (P. RINGER | |
|-----------|--|---------------------|
| | Street and Number Box 174 Pine Spring's Rou | ite |
| | Well was drilled under Permit No. <u>C-1/53</u> and is | located in the |
| | $\frac{\mathcal{S}\mathcal{W}}{\mathcal{W}} \xrightarrow{\mathcal{V}} \mathcal{S}\mathcal{E} \xrightarrow{\mathcal{V}} \mathcal{S} \xrightarrow{\mathcal{V}} \xrightarrow{\mathcal{V}} \mathcal{S} \xrightarrow{\mathcal{V}} \mathcal{S} \xrightarrow{\mathcal{V}} \xrightarrow{\mathcal{V}} \mathcal{S} \xrightarrow{\mathcal{V}} \xrightarrow{\mathcal{V}} \mathcal{S} \xrightarrow{\mathcal{V}} \mathcal{V$ | Rge. 266 |
| | (B) Drilling Contractor <u>77.8.51AND Pipe</u> KOAD | No. <u>UID-77-3</u> |
| | CityCARLSBADState Neu | U Mexico |
| | Drilling was commenced October 23 | <u> </u> |
| | 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 | |

PRINCIPAL WATER-BEARING STRATA

| NT+ | Depth in Feet | | Thickness in | Description of Water-Bearing Formation |
|---------|---------------|----|--------------|--|
| 110. | From | То | - Feet | Description of Water-Dearing Formation |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

| Section 3 | 3 | | | RECOR | ING | | | |
|-----------|--------|----------|-----|--------|------|-------------|--------|----------|
| Dia | Pounds | Threads | D | epth | Foot | Type Shee | Perfor | ations |
| in. | ft. | in | Top | Bottom | reet | Type Shoe = | From | То |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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Section 4

Section 2

RECORD OF MUDDING AND CEMENTING

| Depth in Feet | | Diameter | Tons | No. Sacks of | Mothoda Haad |
|---------------|----|-------------|-------------|--------------|--------------|
| From | То | Hole in in. | Clay Cement | | Methods Osed |
| | | | | | |
| •···· | | | | | |
| <u> </u> | | | | | |
| | 1 | | | | |

| Section 5 Pl | UGGING I | RECO | RD | | | |
|---|--|------|---------------|---------------|-------------|------------|
| Name of Plugging Contractor | | | |] | License No. | |
| Street and Number | City | | | S | State | |
| Tons of Clay used | age used | | | Type of | roughage | |
| Plugging method used | ······································ | · · | Date | Plugged | | |
| Plugging approved by: | | • | Cement | t Plugs wer | e placed as | follows: |
| Basin Superviso | r ', | No. | Depth From | of Plug To | No. of | Sacks Used |
| FOR USE OF STATE ENGINEER ONLY JULIS Date Received 72:8 WV II JULIS 161 161 161 161 161 161 161 16 | | | | | | |
| File No. <u>C - 11 5-3</u> Use | D. | > | Lo | ocation No. | 22.26,2 | 5.443 |

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C-11.53

Section 6

LOG OF WELL

| Depth | in Feet | Thickness | Color | Type of Material Encountered |
|----------|---------|-----------|--------|------------------------------|
| From | То | m reet | | |
| 0 | 6 | 6 | BROWN | TOPSOIL |
| 6 | 30 | 24 | white | BOULDER'S + GRAVEL |
| _30 | 69 | 39 | White | BOULDER'S, GRAVEL + CALICHE |
| 69 | 110 | 4) | PINK | PINK CALICHE |
| 110 | 120 | 10 | RED | RED SILT CLAY |
| 120 | 128 | 8 | PINK | PINK CALICLE |
| 128 | 137 | 9 | YELLOW | GELLOW CLAY & GRAUGE |
| 131 | 159 | 22 | RED | Red Silt CLAY |
| 159 | 185 | 3.6 | RED | RED CLAY TRACE GYPSUM |
| 185 | 198 | 13 | RED | PINK GUPSUM |
| 198 | 201 | 3 | RED | RED CLAY |
| 201 | 203 | 3 | RED | PINK Gypsum |
| 2.03 | 213 | 10 | RED | REDCLAY |
| 213 | 235 | 23 | RED | PINK Gypsum + RED CLAY |
| 235 | 270 | 35 | white | 64 PSUM |
| 270 | 215 | 5 | Blue | BLUECLAY |
| 275 | 285 | 10 | RED | RED CLAU TRACE RINK QUPSUM |
| 285 | 290 | . 5 | white | Ga PSUM |
| | | | | 3 |
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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

1964 JAN 14 AM 9: 10 STATE ENGINEER OFFIC SANTA FE, N. M. i

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WR-36

| | FIELD REPORT FOR CH | EMENTING OF WE | | 10- |
|---|--|---|--|---------------------|
| ame of Applicant | R. M. Foster | r | చి | Tar FEB |
| ame of Well | C-1152 | | | SAENCIA |
| riller's Name | Dale Burgett | t | | AFE |
| rilling Method | Cable | | | |
| ASING DATA: | feet ofi | .nch. Grade | | |
| nspected by | | on | | ····· |
| Approved)(Reject | ed) | | | |
| ater string 190 | feet ofi | nch. Grade | J 55 20# | |
| nspected by | D. Nelson | on | Sept. 9, 19 | 63 |
| Approved) (Reject | ssk <u>k</u> | | | |
| il string | feet ofi | nch. Grade | | |
| nspected by | | on | | |
| Approved)(Reject | ed) | | | |
| EMENTING PROGRAM emented byDal | : .e_BurgettS | Supervised by_ | Nelson | |
| ype of shoe used | Texas Float o | collar used | <u></u> | <u></u> |
| ottom three join | ts weldedCeme | ent: around sho | besks | · |
| round casing | sksAdd | litives | | |
| lug pumped down_ ement circulated emp. survey ran_ emp. survey ran_ hecked for shut ethod used hecked for shut ethod used EMARKS: | 11:00 (a.m.)(Y N N (a.m.)(p.m.) (a.m.)(p.m.) off 11:00 (a uiler s s off (a s | No. of sacks Cema a.m.) (XXXX) Supervised by a.m.) (p.m.) upervised by | t. 17, 1963 ent at ent at Sept. 19, 1 Nelson | feet feet 963 |
| | <u> </u> | | | <u> </u> |
| | <u> </u> | | · , · · · · · · · · · · · · · · · · · · | |
| | | | | |
| | · | | <u>^</u> | |
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| ob approved by | Jam M | the fl | | |

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 Date:
 By:

 File No.
 Location No.

| | | New . V | Mexico O Vater R | ffice of t light | he State Sumi | e Enginee mary | r |
|----------------------------------|---|--|--|---|---------------------------------------|--------------------------|-------------------------|
| Ø | WR File Number: | C 00277 | Subb | asin: C | Cross Refe | rence: - | |
| get image list | Primary Purpose: | MUL 72- | 12-1 MULTIPLE D | OMESTIC HOU | USEHOLDS | | |
| <u>get inlage fist</u> | Primary Status: | PMT PE | RMIT | | | | |
| | Total Acres: | | Subfi | le: - | | Header: | - |
| | Total Diversion: | 3 | Cause | e/Case: - | | | |
| | Owner: | TED. R. BE | ST | | | | |
| Documents | s on File | | | | | | |
| | | | Status | | From/ | | |
| - | Trn # Doc File | e/Act 1 | 2 Transactio | on Desc. | То | Acres Diversion | Consumptive |
| images get | <u>199218 72121 1951</u> | <u>-08-06</u> PM | T LOG C 00277 | | Т | 3 | |
| Current Po | x bints of Diversion | | | (NAD83 UT) | M in meters) | | |
| | | | Q | (1011005 011) | in meters) | | |
| POD N | Number Well | Tag Source | 64Q16Q4Sec Tws | Rng X | Y | Other Location Des | se |
| <u>C 0027</u> | <u>' /</u> | Shallow | 3 4 4 25 22 S | 26E 571411 | 3580227* | **LOTS 1,2,3 & 25 | |
| | *An (*) after nortl | ning value indica | tes UTM location was d | lerived from PLSS | - see Help | | |
| The data is fur implied, concern | nished by the NMOSE/IS ning the accuracy, comple | SC and is accepte teness, reliability, | d by the recipient with usability, or suitability f | the expressed unde or any particular pur | erstanding that the pose of the data. | e OSE/ISC make no wa | arranties, expressed or |

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WATER RIGHT SUMMARY

Page 26 of 86

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 | |
| No. 4, from | | to | , Thicl | kness in feet | | , Formation | |
| No. 3, from | | tg | , Thicl | kness in feet | | , Formation | |
| No. 2, from | | to | , Thiel | aness in feet | | , Formation | ······ |
| No. 1, from | 120 | to | Thick | kness in feel | ~0 | , Formation | rellow ~ 2 me |
| 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. |
| State whethe | r well is sha | allow or artes | sian | Sha | 22001 | | |
| Elevation at | top of casin | g in feet abo | ve sea level | | | | ······· |
| L003 Drilling was | commenced | g - | - 3 | 19 57 Dri | lling was co | moleted $9-$ | 15 10 51 |
| (1 | lat of 640 | Acres) | | Par | 1560 | J N.M. | |
| | | | Street and I | Number « | 302 | Fernde | ìle |
| | | | . Drilling Con | tractor | Joe | Donou | 1 ho |
| si | | | Township | <u> </u> | 7 | , _{Range} | 5 /= / |
| | | | is located in | the | , 14 | E_{14} J_{12} | 4 of Section 2 3 |
| | | | Well was dr | illed under] | ermit No | E S E | and |
| | | | | | | 0. 2 27 | |
| Ni | | | - Post Office | Car | 2560 | d N.M. | |
| | • • • • • • • | | Street and I | Jumber. | 0, Bo | 0× 1/11 | × |
| | 1 | | Owner of w | e11 | 4Λ , | Pest | |
| | | | | | | Kary | |

| Diameter | Pounds | Threads | Name of | Feet of | Type of | Perfora | ted | Puzzoga |
|-----------|----------|----------|--------------|---------|---------|----------|-----|--------------------|
| in Inches | per Foot | per Inch | Manufacturer | Casing | Shoe | From | Ť0 | I urboso |
| 6"1D | | | · | 200 | | 150 | 120 | Half Walls of Will |
| | | | | | | | | |
| | | | | · | | | | |
| | | | | |] | <u> </u> | | |

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 |
|---|------------------------------|---------------------|----------------------------|----------------------|
| | | | | |
| | | | | |
| Sec. 5 Well is located in th Range | PLUG | GING RECORD OF OLD | WELL , Townsh | ip |
| Street and Number | | Post Office. | | |
| Tons of city used | Tons of F | | approved by Artesian We | ll Supervisor? |
| Cement plugs were pl | aced as follows: | | | |
| 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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WELL RECORD

| <u> </u> | | | | | | | 000 |
|--------------|---------------------------------------|-------------------|---|---------------|--|---------------------------------------|---|
| Date of Rec | eipt | | | | F | Permit No | -277 |
| Name o | f permitee, | Ted R. E | Best | | | | |
| Street or P. | 0. P. | 0. Box 1111 | ·····• | City and St | ate Carls | bad, N. Mer | • |
| 1. Well loc | ation and des | cription: The Sh | allow well | is located ir | n SW | | |
| SE | 1/4 of Se | etton 25 | Township | 225 p | anga 26E | · Floweti | on of ton of |
| | | | | | ange | , E ACY260 | 265 |
| casing a | bove sea level | l, | feet; diameter | of hole, | inches; | total depth, | 299 feet; |
| depth to | water upon (| completion,4 | .4.(feet; dri | illing was co | mmencedS | ept.3, | , 1951, |
| and com | pleted | Sept. 15, | , 1951 ; nai | ne of drillin | g contractor | Joe Donowh | i O |
| 302 F | erndale | ; Address, | Carlsbad, | N. Mex. | ; Driller's I | License No. | |
| 2. Principa | l Water-bear | ing Strata: | | | | | |
| | Depth in F From | 'eet To | Thickness | De | scription of Water | -bearing Formation | |
| No. 1 | 150 | 170 | 20 | У | Cellow lime | | |
| No. 2 | | | | | | | <u>`</u> |
| No. 3 | · · · · | | | | | | |
| No. 4 | | <u></u> | <u> </u> | | | | |
| No. 5 | | · · · · · | | | | | |
| | I | | _ <u></u> | | <u> </u> | | <u></u> |
| in inches | per ft. j | per inch Top | Bottom | | Type of Shoe | From | T0 |
| 010 | 1 | | ····· | 200 | | 150 | 170 |
| •••••• | 4. | •••••• | ••••• | ••••• | •••••••••••••••••••••••••••••••••••••• | • | |
| •••••• | • | | ••••• | ····· | •••• | : ; ; | |
| •••••• | | | ••••• | | | · · · · · · · · · · · · · · · · · · · | |
| | | | ••••• | ••••• | •••• | | • |
| 4. If above | construction | replaces old well | to be shandone | d give locat | ion | 1/2 1/2 | 1/. |
| | | | | , 31.0 10000 | | | , |
| or Sectio | n, | Township | , Range | | name and add | ress of pluggin | g contractor, |
| | | | •••••• | | | · · · | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | |
| date of] | plugging | | , 19 | ; describe l | now well was p | lugged: | •••••• |
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ed Well Driller

5. Log of Well:

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| Depth From | in Feet 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 | |
| <u> </u> | | | | |
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| | | | : | |
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| <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-c | 277 |
|--|--|---|
| State of New Mexico | -) | |
| county of Eddy |) ss. | |
| I Ted P. Best | · . | |
| or Carlsbad | Countrof Eda | // |
| State of New Mexico | ., being first duly sworn, d | o bereby certify that I am the owner |
| and holder of a permit to Chauge location | in of well | in the |
| Dark Convon (Contenad In | ter, repair/well, change of locat | ion of well) 1. basi |
| (name of underground reservoir, artesian) | asin, etc) | , the waters from such source |
| to be used for domestic | | |
| under said permit; that said application has been filed β | and approved in the o | ffice of the State Engineer under |
| No. <u><u><u><u></u></u><u><u><u></u></u><u><u></u><u><u></u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u></u> | ; that | the works necessary to accomplish |
| conditions under which said permit was approved by the | I said permit have been State Engineer have bee | completed; that all provisions and in fully complied with: that the fol- |
| lowing statement of facts is submitted in proof of the comp | pletion of said works; an | d that the said statement and each |
| and all of the items contained therein are true to the best | of my knowledge and be | lief. |
| | 1ed A | 13est |
| | | |
| Subscribed and sworn to before me this | day of July | |
| | | BANN |
| My commission expires: | | Notary Public. |
| December 6, 1954 | | $\mathcal{F}(\boldsymbol{\gamma}^{(N)}) = \mathcal{F}(\boldsymbol{\gamma}^{(N)})$ |
| | | |
| | | |
| STATE | MENT | |
| 1. Name of appropriator. Ted P. 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 SW | quarter of the | E quarter |
| of the 5E quarter of Section | 2.5 | Township 22 5 |
| Range 96 E | Faldy | rownship |
| DEARNING MERINA | - a a y | |
| KEUSU U GU | | |
| DEC 24 1952 | | |
| STATE ENGINEE | | JUL IV 1302 |
| | , | ARTESIAN WELL SUPERVISOR ROSWELL, NEW MEXICO |

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| fominal size (outside diameter) of casing or liner. 670.0 | |
|--|----------------------|
| fominal size (outside diameter) of casing or liner 67.0.13 | |
| | nches. |
| epth of well | feet. |
| escription of pump: make Wind Mill + Pump Jack type Callmodal- 6 | FO |
| iction lift | ; |
| ze and number of bowls; total length | feet. |
| lake, type, horsepower, etc., of power plant | |
| | |
| apacity of well | |
| ame of driller Donowho him | |
| 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 | ⁷ erage |
| pth, cubic feet capacity, located in the14,14,14,14,14,14,14,14,14,14,14,14,14,14,14,14,14,14, | 1/4, |
| , Township, Range, | |
| 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 |
| orks 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- |
| Name of plugging contractor | <u>5/</u> :cord- |
| Name of plugging contractor | <u>5</u>] :cord- |

| 🦰 🛛 WR File | Number: | C 00401 | | | S | Subbasin | : C | | Cross Ref | erence: | - | |
|--|---------------|--------------|-------|-------|----------------------|--------------------|------|--------------------|-----------------|---------|--------------|------------|
| Primary | Purpose: | DOM | 72-12 | -1 DO | MES | ΓIC ONE | НО | USEHC | DLD | | | |
| mage list Primary | y Status: | PMT | PERM | /IT | | | | | | | | |
| Total Ac | eres: | | | | S | Subfile: | | - | | | Header: - | |
| Total Di | version: | 3 | | | (| Cause/Ca | se: | - | | | | |
| | Owner: | R. T. SPI | ENCE | | | | | | | | | |
| uments on File | | | Sta | itus | | | | | From/ | | | |
| Trn # | Doc File | Act | 1 | 2 | Tran | saction D | esc. | | То | Acres | Diversion | Consumptiv |
| <u>get</u> <u>197808 72</u> <u>images</u> | 2121 1988- | 05-12 | PMT | LOG | C 004 | 401 CLW | | | Т | | 3 | |
| <u>get</u> <u>197806 72</u> <u>images</u> | 2121 1986- | <u>09-16</u> | PMT | APR | C 004 | 401 RPR | | | Т | | 3 | |
| <u>get</u> <u>460840 72</u> images | 2121 1953- | 02-27 | PMT | APR | C 004 | 401 | | | Т | | 3 | |
| rent Points of D | iversion | | | | | | (NA) | D83 11TN | (in meters) | | | |
| | | | Ç | 2 | | | (IA | D05 0 1 N | a in incicits) | | | |
| POD Number <u>C 00401</u> | Well | Tag Sou | rce 6 | 4Q16(|)4Sec 4 25 | Tws Rng 22S 26E | : | X 571298 | Y 3580540* 🧧 | Other] | Location Des | c |
| C 00401 POD2 | | Shal | low | | 4 25 | 22S 26E | | 571298 | 3580540* | | | |

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WATER RIGHT SUMMARY

| | | | | | | | | (Revis | ed June 1972 |
|--|--|-----------------------|---------------------------------------|--------------------------------|--|---------------------|---------------|-------------|---------------|
| 1 6 N | 1 | ≁ • | STA | TE ENGINEE | R OFFICE | – | NIN | / | |
| • | | | | WELL REC | ORD | λ | r 1900 |) | · |
| | | | Section 1. | GENERAL I | 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 | 2401 | · | _ and is located | in the: | | | |
| _ | SANTA FE | I, NEW MEXIC | 0 6 1/ of Sov | ation 25 | Townshin | 22-5 Par | . | 6 - F | - NMPM |
| a | 7474 | · 74 | <u><u> </u></u> | | | Kal | Ige | | 14.141.1 .141 |
| b. Tract | No, | of Map No | | of the | ; | | | | |
| c. Lot N Subdi | lo vision, recorde | of Block No d in 🖌 | F FDDY | of the C | county. | | | | <u> </u> |
| d. X= | | _ feet, Y= | | feet, N | .M. Coordinate S | System | | | Zone ir |
| the | , | | · · · · · · · · · · · · · · · · · · · | | | | | | Grant |
| B) Drilling (| Contractor | <u> </u> | GAR | MAG | ВΥ | License No | WD. | -96 | 59 |
| ddress 8 | 1 Kel | Ly Rd. | CAR | LSBAd | , N.M. | 8822 | 0 | | |
| Drilling Began | 5-14- | 1988 Compl | eted <u>6 -</u> | 27-1988 | Type tools | CABLE tool | Size of | hole_ | 8 _in |
| levation of la | nd surface or _ | | | at we | ll is | ft. Total depth | of well | 23 | 50_ft |
| commisted well | | | togian | | Denth to water | upon completion | of well | 18 | ° 0 ft |
| ompieted we | n is 🗆 s. | | | | | | | _/ U | _ _ |
| Depth | in Feet | Thickness | on 2. PRIN | | K-BEAKING SI | | Esti | mated | Yield |
| From | То | in Feet | | Description of | Water-Bearing F | ormation | (gallon | is per r | ninute) |
| 180 | 196 | 16 | / | cive s | AND | WHLER | | 60 | AL |
| 230 | 245 | 15 | Ħ | ed Riv | er SAU | Water | 2 | 20 | GAL |
| | | | | | | • | | | |
| | | | | | ······ | | | | |
| | | | Section | n 3. RECORD | OF CASING | | | | |
| Diameter (inches) | Pounds per foot | Threads per in. | Depth | in Feet Bottom | Length (feet) | Type of Sho | be F | Perfo | rations |
| a" | | | | Bottom | | | <u>I'</u> | | 10 |
| <u>8</u> /'' | , , , | Welded | 0 | 80 | 80 | | | 70 | ONR |
| 6 | | Waldod | 0 | 250 | 250 | Homen | <u>te 2</u> | 30 | 250 |
| ······································ | | | | | | | | | |
| Donth | in Feet | Sectio | n 4. RECO | | ING AND CEM | IENTING | | | |
| From | То | Diameter | of M | ud o | f Cement | Method of Placement | | | |
| | | | | | ÷ | | | | |
| | | | | | T | | | | |
| | | | | | | | | | |
| | | 1 | | | | <u></u> | | | |
| | | | Sectio | n 5. PLUGGII | NG RECORD | | | | |
| Jugaing Cont. | ractor | | | | | Depth in | Feet | Cı | ubic Feet |
| Plugging Cont: Address | ractor | | | | | | - | | |
| Plugging Cont Address Plugging Meth Date Well Plug | ractor od ged | | | | No | Тор | Bottom | to | Cement |
| Plugging Cont Address Plugging Meth Date Well Plug Plugging appro | ractor od gged oved by: | | | | No. | Тор | Bottom | to | Cement |
| Plugging Cont: Address Plugging Meth Date Well Plug Plugging appro | ractor od gged oved by: | State Engin | neer Repres | entative | No. 1 2 3 4 | Тор | Bottom | | |
| Plugging Cont: Address Plugging Meth Date Well Plug Plugging appro | ractor od gged oved by: 7/5/88 | State Engi | neer Repress FOR USE | entative OF STATE E | No. 1 2 3 4 NGINEER ONL | Top Top | Bottom | | |
| 7 Plugging Cont: Address Plugging Meth Date Well Plug Plugging appro Date Received | ractor od gged oved by: 7/5/88 | State Engi | neer Repres | entative OF STATE E Quad | No. 1 2 3 4 NGINEER ONL | Top Top | Bottom | FSL | |

| File No | 175700 | U L | 10 |
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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> | |

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: 3/18/2023/9.46/2013/10** is used as a plugging record, only Section 1(a) and Section 5 need be completed.

| | | New I N | Mexico Offic later Rig | ce of the Sta ght Sum | te Engineer Mary |
|------------------------|--|--------------------------------|--|-----------------------------|--|
| get image list | WR File Number: Primary Purpose: Primary Status: | C 00198 Dom 72-1 PMT PER | Subbasin: 2-1 DOMESTIC ONE RMIT | C Cross Re HOUSEHOLD | 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> | Number Well 9 <u>8</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 | |
| The data is fur | nished by the NMOSE/IS | SC and is accepted | by the recipient with the e | spressed 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 Number Box 68 | | | | | | |
| N.W- | | NE | Post Offic | | Tornill | a, Texas | 8 | | | |
| | | | Well was o | Irilled under] | Permit No | .c | | and | | |
| | | | in located | in the | 1/ 一次教授 | 1/ | ST | V of Section 25 | | |
| | | | The second | 00 d | | D | | 268- | | |
| SW | | S.E | Township | | · · · · · · · · · · · · · · · · · · · | , Range | | | | |
| | | · | Drilling Co | ontractor | n Martin | $\frac{1}{1}$ | - 26) | | | |
| | | | Street and | Number Be | n 68 | | | | | |
| Local | te Well Ac | curately | Post Offic | e | <u>millo, 1</u> | 'exes | | | | |
| Drilling was o | commenced | | | , 19 Dri | lling was co | mpleted | | , 19 | | |
| Elevation at t | op of casin | g in feet abo Now or arte | ve sea level | non-ort of | | | | ······ | | |
| Total depth o | f well | now or area | feet. Water le | vel upon com | pletion of v | vel] | | feet below land surface. | | |
| Sec. 2 | ingen Title | | PRINCIPAL | WATER-BE | ARING ST | RATA | ; | | | |
| No. 1, from | | 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 | Purmosa | | |
| in Inches | per Foot | per Inch | Manufactur | er Casing | Shoe | From | 'î'o | rarpose | | |
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| 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 | ut Methods Used | | | of Mud Clay Used | | | |
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| Sec 5 | | | PLUGGIN | IG RECORD | OF OLD W | ELL | DEC 1 | 3 1950 | | |
| Well is locate | ed in the | | 1/4 | | Section | | | nship, | | |
| 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 | | | feet. Num | ber of sacks | s of cement | used | | | |
| No. 5 was plac | ced at | | JAN 1= 1 | GÇ feet. Num | ber of sack | s of cement | used | ······ | | |
| - | | A== | | (over) | | | | | | |
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| Page | 3 | 7 | of | 8 | 6 |
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| 55-70 | Gruvel | and the second second | |
| 70-80 | Clav | | |
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| 135-140 | <u>Ølay</u> | | · · · · · · · · · · · · · · · · · · · |
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| I, | tion is a true and correct | , do solemnly swear th record of the well for whi | nat, to the best of my knowledge and |
| n be determined from all a | ivailable records. | | |
| BSCRIBED AND SWOR | N TO BEFORE ME th | is Signed | Martin |
| 11 pay of the | A.D., 19-5 | - O Position The 13 | ••••• |
| is then faith | The Bars | Street and Number | LO |
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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 | |
| 1 Well lock | tion and (| description | The shall | low well is | located in | SF | 12 | |
| | | | (shallow or an | rtesian) | ioouteu mi | | · /*** | |
| · · · · · · · · · · · · · · · · · · · | 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 Principa | l Water-be | earing Strai | a: | | a na sana ang sana a Sana ang sana | | i · | |
| · · · · · · · · · | _Depth i | n Feet | Thick | ness | Desci | iption of Water-b | earing Formation | |
| No. 1 | From | To | · · · · · | · · · · | | | | |
| No 2 | | | | | · · · · · · · · · · · · · · · · · · · | | : : : : | |
| NO. 2 | | | | | | | | |
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| | | ······ | | | | | | |
| | constructi | | old well to be | shandoned | give locatio | n: ½ | | |
| 4. If above | constructi | on replaces | old well to be | abandoned | give locatio | n: | 4, | |
| l. If above of Sectio | constructi | on replaces , Townsh | old well to be | abandoned , Range | give locatio | n: | a | rac |
| If above of Sectio | constructi | on replaces , Townsh | old well to be | abandoned | give locatio | n: | a, | ra(|
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| i. If above of Section date of | construction | on replaces , Townsh | old well to be | abandoned , Range , 19 | give locatio ; n: ; describe ho | n: | a, | |
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| 1. If above of Sectic date of | construction plugging | on replaces | old well to be | abandoned | give locatio ; n ; describe ho | n: | a, | ra (|
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5. Log of Well:

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| Depth From | in Feet To | Thickness in feet | Description of Formation | |
|---------------------------------------|---------------|----------------------|---------------------------------------|---------------------------------------|
| Logged | m cuttings | , by R. H. | King, U.S.G.S. (Bxtractedfrom ms | s copy of "Memorandu |
| OnGrow | nd Water Co | nditions | in the vicinity of City Airport so | uthwest of Carlsbad |
| New Mex | ico". W. E. | Hale and | Their C. V. Inc. pp. 10,11. | |
| | | | · · · · · · · · · · · · · · · · · · · | |
| 0 | 10 | | missing | · · · · · · · · · · · · · · · · · · · |
| 10 | 20 | | gravel | |
| 20 | 30 | | missing | |
| 30 | 35 | | clay, sand and gravel | |
| 35 ? | 40? | 100 | gravel | · · · · · · · · · · · · · · · · · · · |
| 40 | 55 | | missing | |
| 55 | 70 | | gravel | : ! |
| 70 | 80 | | clay | · · · · · · · · · · · · · · · · · · · |
| 80 | 90 | | missing | |
| 90 | 95 | | clay | |
| 95 | 135 | ļ | cong. | · · · · · · · · · · · · · · · · · · · |
| 135 | 140 | | clay | |
| Well wa | s deepened | in 1949 | | · |
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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. s. |
|-----------------|--|--|--|------------------------|--|---|
| | | | | 1. 1. 1. I. | | |
| State of | Texas | |). | | | |
| County of | El Paso | ······································ | \rangle ss. | | | |
| - - | Wm Meastin | | | | | |
| L, | Marrille | ····· | | Ella | | |
| of | <u> </u> | · · · · · · · · · · · · · · · · · · · | , County of | <u> </u> | | |
| State of | Texas | میں ایک در اور ایسان ایشن میں اوریا ایک ایسی میں میں ایک در اور ایسان ایک | , being first di | ıly sworn, do here | by certify that | I am the owne: |
| and holder of | a permit to | Appropriate (appropriate | Water water, repair well, c | hange of location of v | vell) | in the |
| **** | | Carlsbad, H | Basin | | , the waters fr | om such source |
| | (name of u | nderground reservoir, artesia | n basin, etc.) | | | |
| to be used for. | | Domestic | ···· | | | purpose: |
| under said p | ermit; that said ap | plication has been file | ed and approve | d in the office of | of the State I | Ingineer unde |
| No | | C-1 98 | | ; that the v | vorks necessar | y to accomplish |
| the appropria | tion of water in acc | ordance with the terms | of said permit | have been comp | leted; that all | provisions and |
| conditions un | der which said per | mit was approved by t | he State Engine | er have been full | y complied wit | h; that the fol |
| lowing statem | nent of facts is subm | litted in proof of the co | mpletion of said | l works; and that | t the said state | ment and eacl |
| and all of the | e items contained th | erein are true to the be | st of my knowl | edge and belief. | | • |
| 1. T | • | | V lom | Marl | ~~~ | |
| | | | a and a second | | | |
| | | | | | | |
| Subscribed an | d sworn to before m | e thisllth | day of | Decembi | 91 | , 19. 50 |
| | | · · · | el a | Uart. | -3 | |
| My commissio | on expires: | | | and mercure of the | Nota | ry Public. |
| V Dec. | 31. 1950 | | | . FIVE, EX-OFFICIO I | IDTARI | |
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| | | STA | TEMENT | 1 00 | | |
| | | | | I DEC | 13 1050 | · · · · / |
| 1. Name of | appropriator | Wm, Martin | | ARTESIAN | FIC | |
| 2 Postoffice | address | P. 0. Box 68, | Tornillo, | ROSWELL, N | LL SUPERING | |
| 2. I Ostonice | | ar a company of | | | MEXICO | R |
| 3. Undergrou | und water supply | Non-artesian. | •+\$•• &_ ================================== | | | <u> </u> |
| 4. The well i | is located in the | Joel Subdivis | ion quarter of th | e | | quarter |
| of the | ST | auarter of Sect | ion 25 | Tow | nship 2 | 2 S . |
| 01 010 | | | | , 201 | | |
| Range | <u>~ 26 B</u> | N.M.P.M. | in Edd | <u>y</u> | | County |
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| 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 hacing the type |
| | suction lift |
| | size and number of bowls |
| 9. | Make, type, horsepower, etc., of power plant 3 kP. Cliettic |
| | |
| 10. | Capacity of well gals. per min. 11. Is well equipped with gate valve? |
| 12. | Name of driller. Wm. Martin (WD-20) |
| 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 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 1949 |
| 19. | If shove construction replaces an old well to be plugged or shandoned fill out following: |
| 10. | The well shandoned is located in the |
| | of Section Township Dange |
| | b Nome of plugging continuitor |
| | c. Well was plugged in accordance with terms of permit |
| | Thereby 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. |
| 5 | link |
| | *Ariani wen Supervisor (or representative of State Engineer) |
| - | Engineer Date 11 Sr 51 |
| ٦ | THE RYDAL PRESS, SANYA FE, N. M. |

| | | Ne | ew Mex Wat | ico Office er Rigl | of the Stat | e Engineer mary | | |
|---|---|---|---|---|---|------------------------------|------------|--|
| get image list | WR File Nur Primary Pur | nber: C 0114 pose: DOM | 49 72-12-1 DC | Subbasin: C DMESTIC ONE HO | Cross Refe | erence: - | | |
| | Total Acres: Total Diversi | on: 3 | PERMII | Subfile: Cause/Case: | - | Header: - | | |
| Documents | on File | ner: JOE A | Status | | From/ | | | |
| images | Trn # Doc 462224 72121 x x | File/Act 1963-07-25 | 1 2 PMT LOG | Transaction Desc. C 01149 | То Т | Acres Diversion Consump 3 | ptive | |
| Current Points of Diversion (NAD83 UTM in meters) | | | | | | | | |
| POD N <u>C 0114</u> | Jumber <u>9</u> *An (*) afte | Well Tag So Sl r northing value | ource 64Q160 nallow indicates UTM I | Q4Sec Tws Rng 4 25 228 26E ocation was derived fro | X Y 571298 3580540* | Other Location Desc | | |
| Current Po POD N C 0114 | vints of Divers vints of Divers vints of Divers vints of Divers vints of Divers vints of Divers vints of Divers | ion Well Tag So Sl or northing value | PMT LOG Q purce 64Q160 nallow indicates UTM I | (NA Q4Sec Tws Rng 4 25 22S 26E ocation was derived fro | D83 UTM in meters) X Y 571298 3580540* m PLSS - see Help seed understanding that th | Other Location Desc | arressed 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 3:36 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 NumberBox 338 City XXXX Wichita FallsState Texas Well was drilled under Permit No. $\mathcal{L} - // 49$ 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 307 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 | levelTotal | depth of | f well245' |
|--|------------------|----------|---------------------|
| State whether well is shallow or artesian | Shallow Depth to | water uj | pon completion 170' |

| Section 2 PRINCIPAL WATER-BEARING STRATA | | | | | | | | | | |
|--|----------------------------|------|----------------------|--|---------------------------------------|--|--|--|--|--|
| No. | Depth in Feet From To | | Thickness in Feet | Description of Water-Bearing Formation | | | | | | |
| 1 | 170' | 180' | 10' | Pink caliche -red bed gravel | . Clarke | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | MAR | | | | | |
| 4 | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 5 | | | | | 3 | | | | | |

| Section 3 | | | RECORD OF CASING | | | | | |
|------------|---------|-------|------------------|--------|------------|--------------|------|------|
| Dia Pounds | Threads | Depth | | Foot | Turne Shee | Perforations | | |
| in. | ft. | in | Top | Bottom | reet | Type Shoe | From | To |
| 7" OD | 26 | None | 0 | 150 | 150 | none | none | none |
| | | | | | | | · | |
| | | | | | | | | · |

Section 4

RECORD OF MUDDING AND CEMENTING

| Depth | in Feet | Diameter | Tons | Tons No. Sacks of | Methods Head |
|-------|---------|-------------|------|-------------------|--------------|
| 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

Released to Imaging: 8/18/2023 9:16:42 AM

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Date Received JIVIS JIVIS

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Page 43 of 86

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|-----------|---|----|------|
| Section 6 | | | |

log of well

| Depth | in Feet | Thickness in Feet | Color | Type of Material Encountered | |
|----------|---------------------------------------|----------------------|---------------------------------------|--|--|
| # rom | 10 | | | | |
| 0 | <u>, 5'</u> | 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

, 10

| | | New | , Mexi Wat | ico Office er Rig ł | of the Stat | e Engineer mary | | | |
|--|---------------------|---------------------|----------------------|--------------------------------------|-------------------------------|-----------------------------|--|--|--|
| Ø | WR File Numbe | er: C 00737 | | Subbasin: C | Cross Refe | erence: - | | | |
| get image list | Primary Purpos | se: DOM 7 | 72-12-1 DO | MESTIC ONE HO | USEHOLD | | | | |
| <u>get mage nat</u> | Primary Status: | EXP E | EXPIRED | | | | | | |
| | Total Acres: | | | Subfile: | - | Header: - | | | |
| | Total Diversion: | : 0 | | Cause/Case: | - | | | | |
| | Owner | BILLY B. | CHESTER | <u>_</u> | | | | | |
| Documents | x on File | | | | | | | | |
| | | | Status | | From/ | | | | |
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| $\frac{1}{x}$ | | | | | | | | | |
| (NAD83 UTM in meters) | | | | | | | | | |
| POD N <u>C 0073</u> | Number W | /ell Tag Sourc | ce 64Q16Q | 24Sec Tws Rng 4 25 228 26E | X Y 571298 3580540* | Other Location Desc | | | |
| *An (*) after northing value indicates UTM location was derived from PLSS - see Help | | | | | | | | | |

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

5/17/23 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.

Page 47 of 86



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.

Released to Imaging: 8/18/2023 9:16:42 AM

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

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Karst Potential Map





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

☆ Gas, Active

Karst Occurrence Potential

Medium

PLSS Second Division L _



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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

Released to Imaging: 8/18/2023 9:16:42 AM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division



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

| TABLE 1 | | | | | | | | | | | | |
|-----------------------------------|---|---|--------------------|--------------------|-------------------------|-----------------------------|--------------------------|--------------------|--------------------|--------------------|---------------------------------------|---------------------|
| SOIL SAMPLE ANALYTICAL RESULTS | | | | | | | | | | | | |
| | City of Carlsbad | | | | | | | | | | | |
| | | | | | | Oxy USA, In | с. | | | | | |
| | | | | | Eddy | County, New | / Mexico | | | | | |
| | Ensolum Project No. 03B1417055 | | | | | | | | | | | |
| 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) |
| New Mexico Closure Crite Re | Oil Conserva eria for Soils I elease (≤ 50 fe | ation Division Impacted by a eet) | 10 | NE | NE | NE | 50 | NE | NE | NE | 100 | 600 |
| | | | | • | Floor S | Sample 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 Analy | 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



03B1417055

32.3576775,-104.2441101

Shalyn Rodriguez

Sample Received By:

Analytical Results For:

| | | 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 |

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

Project Number:

Project Location:

| 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 | Analyzed 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 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 % | <i>49.1-14</i> | 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,-104.244 | 41101 | | |

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 % | % 71.5-13 | 24 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed 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 | Analyzed 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 9 | % 48.2-13 | 24 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 % | 6 49.1-14 | 18 | | | | | | |

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 % 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 | Analyzed 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 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 109 % | 6 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,-104.244 | 41101 | | |

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 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | | | | | | |
| 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 | Analyzed 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 | 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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

aboratories

| Company Name: | Ensolum 11 C | | | BILL | 70 | | AN | AI VOIS DECHIEST |
|--|---|--|---|---|--|---|-------------------------------|---|
| Project Manager: | Beaux Jennings | | | P.O. # | | - | _ | |
| Address: 601 N | I. Marienfeld St. STE | 400 | | Company: Oxy U | SA, Inc. | | | |
| City: Midland | | State: TX | Zip: 79701 | Attn: Wade Dittric | 7 | _ | 3) | |
| Phone #: 210-21 | 9-8858 | Fax #: | | Address: | | _ | 6 | |
| Project #: 03B | 1417055 | Project Owner | | City: | | | C_{l} | |
| Project Name: C | ity of Cark b | ed | | State: Zip: | | s) | 0- | |
| Project Location: | 32.3576775 | ,-104.24 | 141101 | Phone #: 575-39 | 0-2828 | M | 50 | |
| Sampler Name: | Kaileesm | th | | Fax #: | | 0 | [°] u | |
| FOR LAB USE ONLY | | | MATRIX | PRESERV. | SAMPLING | 82 | (| |
| 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 : | TIME | TPH (| chloride | |
| - | 12- | 0-0.75 | CI X | × 1-26- | the st | r ¥ | * | |
| ٩ | FS-2 | 0, -0,25 | CI X | 1-26- | 13 0749 51- | TX | × | |
| a | FS-3 | 0-0.25 | CI X | 12-1 7 | 1540 8- | + | * | |
| t | h-54 | 0-0.25 | × | * 1-26 | -13 0753 | + | + | |
| | | | | | | | | |
| analyses. All claims including the service. In no event shall Cardin affiliates or successors arising ou | ore for negligence and any other or al be liable for incidental or conse- st of or related to the performance | rins exclusive remedy for any ause whatsoaver shall be de quental dameges, including w of services hereunder by Car | claim arising whether based in contempt weived unless made in writing inthout limitation, business interruptio dinal, regardless of whether such cl | ract or tort, shall be limited to the amou 3 and received by Cardinal within 30 day ins, loss of use, or loss of profits incurre aim is based upon any of the above sta- | unt paid by the client for the ys after completion of the app of by client, its subsidiaries, the neasons or otherwise. | licable | | |
| Relinquished By: | VU | Date: 1-24-23 Time: 19900 | Received By: | | Verbal Result All Results are BJennings@ | emailed. F | I No Add' lease provide En | l Phone #: nail address: |
| Relinquished By: | WCTOO | Date: 1-26-23 Time: 1221 | Received By: | Cionar | REMARKS: | | | |
| Sampler - UPS - Bus | s - Other: Cor | rrected Temp. "Q) | A Cool Intac | Yes CHECKED(BY: | Turnaround Ti Thermometer ID | me: S | ush 24 | Bacteria (only) Sample Condition 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 | l 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

| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Relinquishéd By: | Affiliates or successors arising out of or related to the perform Relinquished By: | PLEASE NOTE: Lability and Damages. Cardinal's lability a analyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or c | | | C.C.1 1 | H231510 | Lab I.D. Sample I.I | a sera bond south (sera). | FOR LARIES DAWY | Project Location: 32. 35 76 1 | Project Name: 0515 14170 | Project #: City of Carlson | Phone #: 210-219-8858 | City: Midland | Address: 601 N. Marienfeld St. | Project Manager: Beaux Jennir | Company Name: Ensolum, LL |
|---|--|---|---|--|--|----------------|-----------------------------|--|---------------------------|-----------------|-------------------------------|--------------------------|----------------------------|-----------------------|----------------------|--------------------------------|-------------------------------|--|
| Observed Temp. °C 1. S Sample Conditi Corrected Temp. °C . 9 Event Temp. °C . 9 Event Temp. °C . 9 Event Temp. °C . 9 Intert T | Time: | mance of services hereunder by Cardinal, regardless of whether such claim Date: | and client's exclusive remedy for any claim arising whether based in contract other cause whatsoever shall be deemed waived unless made in writing an consecuential damance inclusion unless the start unless made in writing and | | | - | GROU WAST SOIL OIL | C, Sample Depth (feet) B OR (C)ON ITAINERS INDWATER EWATER | AP. MATRIX | Smith | 175,-104.24/101 | 32 | ad Project Owner: | Fax #: | State: TX Zip: 79701 | . STE 400 | ngs | and, Hobbs, NM 88240 126 FAX (575) 393-2476 LC |
| on CHECKED BY: Turnaround Time: Wiv Standa (Initials) Thermometer ID #113 Cerreuson Factor - 0.5°C | All Results are emailed. Please BJennings@ensolum.com REMARKS: | is based upon any of the above stated reasons or otherwise. | or fort, shall be limited to the amount paid by the client for the I received by Cardinal within 30 days after completion of the apolicable | | | × 92h0 51-54 × | | HASE: OOL R: MGI.il | PRESERV. SAMPLING | Fax #: | Phone #: 575-390-2828 | State: Zip: | City: | Address: | Attn: Wade Dittrich | Company: Oxy USA Inc. | P.O. # | BILL TO |
| rd R Bacteria (only) Sample Condition | provide Email address: | lo Add'l Phone #: | | | | | | | | | | | | | | | ANALYSIS REQUEST | |

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 AVE MIDLAND TX, 79705 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 | Analyzed | l 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 | Analyzed 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

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 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, LLC BEAUX JENNINGS 705 W WADLEY A' MIDLAND TX, 797 Fax To: | VE. 05 | |
|-------------------|---|---------------------|---------------|
| 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, SM4500Cl-B | mg/ | kg | Analyzed | i 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 | oride, SM4500Cl-B mg/kg | | | | | | | | |
|----------------------|-------------------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| 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

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

| 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

| | (575) 393-2326 F/ | Hobbs, NM 882 AX (575) 393-24 | 40 76 | | | |
|---|---|---|--|--|--|--|
| Company Name: | Encolum 11C | | | BILL TO | | ANALYSIS REQUEST |
| Project Manager: | Beaux Jennings | | | P.O. #: | | |
| Address: 601 N | V. Marienfeld St. STE | 400 | | Company: Oxy USA, | Inc. | |
| City: Midland | | State: TX | Zip: 79701 | Attn: Wade Dittrich | | |
| Phone #: 210-2 | 19-8858 | Fax #: | | Address: | | |
| Project #: 03 6 | MILOCE | Project Owner | | City: | | |
| Project Name: (| Lust Callchad | Y | | State: Zip: | > | |
| Project Location | 21 3< 7675 | -104.24110 | 1 13 dd County NO | Phone #: 575-390-28 | 328 | |
| Samler Name | Valor Curit | 4 | | Fax #: | 15 | |
| odilipier ivanie. | THE STUDY | | MATRIX | PRESERV SAM | IPLING U | |
| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL | OTHER : ACID/BASE: ICE / COOL OTHER : | Chlouides | |
| The second | 45-3 | 31 | C I X | X 4-2-23 | caus + | |
| 90- | Sw-1 | 0.5 | C - + | 4-1-2-25 | 0450 X | |
| / | | | | | | |
| | | | | | | |
| | APP | | | | | |
| | 5 | | | | | |
| | | | | | | |
| PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca | d Damages. Cardinal's liability and c ig those for negligence and any othe indinal be liable for incidental or cont | tient's exclusive remedy for a r cause whatsoever shall be sequental damages, including | ny claim ansing whether based in contra deemed waived unless made in writing i without limitation, business interruption | and received by Cardinal within 30 days at and received by Cardinal within 30 days at s, loss of use, or loss of profits incurred by | ther completion of the applicable view of the state of the second s | |
| Relinquished By | ig out of or related to the performant? | Date: 1-23 | Received By: | ili s user apoint all a rais secondation | Verbal Result: Verbal Result: Yes Konstantion Verbal Results are emailed. Please provide the provided of t | Add'l Phone #: ovide Email address: |
| 11010 | 0 | Time: 30 | Uhonne M | uni2 | BJennings@ensolum.com | |
| Relinquished By | | Date: Time: | Reseived By: | | REMARKS: | |
| Delivered By: (C Sampler - UPS - | Bus - Other: | bserved Temp. *C | 3.5 Sample Cond B.S. U Yes U | ition CHECKED BY: | Turnaround Time: Standard Rush Thermometer ID #113 Corresum Factor -0.5°C | Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes No Corrected 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: | <u>=</u> . 5 | |
|-------------------|---|---------------------|------------------|
| 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 | Analyzed | l 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, SM4500CI-B | s, SM4500Cl-B mg/kg | | | | | | | | | |
|----------------------|---------------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|--|
| 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 whother this subsidiaries, afflicate 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Rélinquished By: | | P | Relinquished By: | PLEASE NOTE: Liability and Damag analyses. All claims including those is service. In no event shall Cardinal be | | | | | 8 | 5 | dipide (b) | (manne) | Lab I.D. Sa | FOR LAB USE ONLY | Sampler Name: Van | Project Location: 32 | Project Name: | project #: 03 BIUL | Phone #: 210-219-885 | City: Midland | Address: 601 N. Mari | Project Manager: Bea | Company Name: | 101 Ea (575) |
|--|-----------------|----------------|-------------------------------------|---|-----------------------------------|----|-----|--|------|------------|------------|----------------------------------|---|------------------|-------------------|----------------------|------------------|--------------------|----------------------|---------------------|----------------------|----------------------|---------------|-----------------|
| One) One | | | or related to the performance of se | es. Cardinal's liability and client's or negligence and any other cause liable for incidental or consequent | | 5/ | AFF | | SWAL | | N'N | | Imple I.D. Sa | | he smith | 1. 244 1256 | ne traticational | tuss Pr | 8 Fa | S | enfeld St. STE 400 | ux Jennings | solum 11 C | 393-2326 FAX (5 |
| T D. SC Sam | Time: | Time 00 83 0 K | Date: 23 Received By: | exclusive remedy for any claim ansing whether bas e whatsoever shall be deemed waived unless mad stal damages, including without limitation, business | | | | | | D-81 C 1 + | 8 (1) | G)RAI | (feet) B OR (C) TAINERS NDWATE EWATER | OMP. | | WH, ZHAILOL Eddyca | | oject Owner: | x #: | tate: TX Zip: 79701 | | | | 575) 393-2476 |
| Ple Condition CHECKED BY: | | annund | 20.0 | sed in contract or tor, sinain or innerve versions and the set of | about the smouth of the smouth of | | | | | × 64.03 | x 2.11.2 | OTHE ACID/ ICE / 0 OTHE | GE R : BASE: COOL R : | | Fax #: | Phone #: 575-390-28 | State: Zip: | City: | Address: | Attn: Wade Dittnch | Company: Oxy USA, I | P.O. #: | BILL IO | |
| Turnaround Time: USA Standard Thermometer ID #119 Correction Factor -0.5°C | | REMARKS: | All Results are emailed. Please pro | ther completion of the applicable y client, its subsidiaries, reasons or otherwise. | ad by the client for the | | | | | 1612 | 1520 7 | TIME | chlor | ide | PLING | 28 | 5 | 0(| 0 | | nc. | | | |
| Cool Intact | | | vide Email address: | - Late Drown 4. | | | | | | | | | | | | | | | | | | | | NALYSIS REQUE |
| Observed Temp. °C Corrected Temp. °C | amole Condition | | | | | | | | | | | | | | | | | | | | | | - | ST |

aboratories



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 | • |

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

| | State of frew mexi | co | Incident ID | nAB1800055270 |
|---|--|--|---|---|
| ge 2 | Oil Conservation Div | ision | District RP | 2RP-4556 |
| | | | Facility ID | 2101-4550 |
| | | | Application ID | |
| Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No | If YES, for what reason(s) does the Release is greater than 25 barrels | ne responsible party con | nsider this a major release | 2? |
| If YES, was immediate n Yes, by Wade Dittrich of | otice given to the OCD? By whom Oxy to Mike Bratcher (NMOCD) | ? To whom? When an and Crystal Weaver (SI | d by what means (phone, O) on 01/03/2018 at 035. | , email, etc)? 8. |
| | Ini | tial Response | | |
| The responsible | party must undertake the following actions i | mmediately unless they could | l create a safety hazard that wo | uld result in injury |
| The source of the rel | ease has been stopped. | | | |
| The impacted area ha | as been secured to protect human he | alth and the environme | nt. | |
| Released materials h | ave been contained via the use of be | erms or dikes, absorben | t pads, or other containm | ent devices. |
| \square All free liquids and r | ecoverable materials have been rem | oved and managed ann | ropriately | |
| | | o fou una munucou upp | | |
| If all the actions describe | d above have <u>not</u> been undertaken, | explain why: | | |
| If all the actions describe Per 19.15.29.8 B. (4) NM 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 addition, OCD acceptance o | A above have <u>not</u> been undertaken, MAC the responsible party may com a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) N primation given above is true and complete required to report and/or file certain rel ment. The acceptance of a C-141 report gate and remediate contamination that po of a C-141 report does not relieve the op | explain why: explain why: mence remediation imperedial efforts have be MAC), please attach all tet to the best of my know ease notifications and per t by the OCD does not rel ose a threat to groundwate erator of responsibility fo | nediately after discovery en successfully complete information needed for d ledge and understand that p form corrective actions for n teve the operator of liability r, surface water, human hea r compliance with any other | of a release. If remediatied or if the release occurr closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In federal, state, or local laws |
| If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. | A above have <u>not</u> been undertaken, AC the responsible party may com a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) N required to report and/or file certain rel ment. The acceptance of a C-141 repor gate and remediate contamination that po f a C-141 report does not relieve the op trich | explain why: explain why: emedial efforts have be MAC), please attach all the to the best of my know ease notifications and per t by the OCD does not rel ose a threat to groundwate erator of responsibility fo | nediately after discovery en successfully complete information needed for o ledge and understand that pr form corrective actions for n leve the operator of liability r, surface water, human hea r compliance with any other | of a release. If remediatived or if the release occurrelosure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In federal, state, or local laws |
| If all the actions describe Per 19.15.29.8 B. (4) NM 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 addition, OCD acceptance o and/or regulations. Printed Name: Wade Ditt | A above have <u>not</u> been undertaken, AC the responsible party may com a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) N primation given above is true and comple required to report and/or file certain rel ment. The acceptance of a C-141 repor gate and remediate contamination that p of a C-141 report does not relieve the op trich | explain why: explain why: emedial efforts have be MAC), please attach all ete to the best of my know ease notifications and per t by the OCD does not rel ose a threat to groundwate erator of responsibility fo Title: <u>Enviro</u> | nediately after discovery en successfully complete information needed for o ledge and understand that p form corrective actions for r feve the operator of liability r, surface water, human hea r compliance with any other | of a release. If remediatied or if the release occurrelosure evaluation. Tursuant to OCD rules and releases which may endanger should their operations have lith or the environment. In federal, state, or local laws |
| If all the actions describe Per 19.15.29.8 B. (4) NM 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 addition, OCD acceptance of and/or regulations. Printed Name: Wade Ditte Signature: | A above have <u>not</u> been undertaken, AC the responsible party may com a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) N primation given above is true and comple required to report and/or file certain rel ment. The acceptance of a C-141 repor gate and remediate contamination that p of a C-141 report does not relieve the op trich MAAD | mence remediation imperedial efforts have be MAC), please attach all tet to the best of my know ease notifications and per t by the OCD does not rel ose a threat to groundwate erator of responsibility fo Title: <u>Enviro</u> Date: | nediately after discovery en successfully complete information needed for of ledge and understand that pr form corrective actions for n ieve the operator of liability r, surface water, human hea r compliance with any other <u>nmental Specialist</u> <u>3023</u> | of a release. If remediaties of 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 federal, state, or local laws |
| If all the actions describe Per 19.15.29.8 B. (4) NM 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 addition, OCD acceptance o and/or regulations. Printed Name: <u>Wade Ditt</u> Signature: <u></u> email: <u>wade_dittrich@ox</u> | A above have <u>not</u> been undertaken, AC the responsible party may com a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) N prmation given above is true and comple required to report and/or file certain rel ment. The acceptance of a C-141 repor gate and remediate contamination that put of a C-141 report does not relieve the op trich MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | explain why: explain why: mence remediation immedial efforts have be MAC), please attach all te to the best of my know ease notifications and per t by the OCD does not relose a threat to groundwate erator of responsibility fo Title: Enviro Date: Telephone: | nediately after discovery en successfully complete information needed for o ledge and understand that p form corrective actions for n teve the operator of liability r, surface water, human hea r compliance with any other <u>mmental Specialist</u> <u>3023</u> <u>575-390-2828</u> | of a release. If remediatied or if the release occurrelosure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lith or the environment. In federal, state, or local laws |
| If all the actions describe Per 19.15.29.8 B. (4) NM 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 addition, OCD acceptance o and/or regulations. Printed Name: Wade Ditt Signature: email: wade_dittrich@ox | A above have <u>not</u> been undertaken, AC the responsible party may com a narrative of actions to date. If re nt area (see 19.15.29.11(A)(5)(a) N rmation given above is true and comple required to report and/or file certain rel ment. The acceptance of a C-141 repor gate and remediate contamination that p of a C-141 report does not relieve the op trich MADMAN sy.com | mence remediation imperedial efforts have be MAC), please attach all the to the best of my know ease notifications and per t by the OCD does not relose a threat to groundwate erator of responsibility fo Title: Enviro Date: | nediately after discovery en successfully complete information needed for o ledge and understand that pr form corrective actions for n eve the operator of liability r, surface water, human hea r compliance with any other <u>nmental Specialist</u> <u>30223</u> <u>575-390-2828</u> | of a release. If remediatied or if the release occurr closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In federal, state, or local laws |

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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 State of New Mexico Page 4 Oil Conservation Division | | | Incident ID District RP Facility ID Application ID | nAB1800955279 2RP-4556 |
|--|--|---|--|--|
| I hereby certify that the in regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. | formation given above is true and complete to the re required to report and/or file certain release not onment. The acceptance of a C-141 report by the 0 tigate and remediate contamination that pose a thre e of a C-141 report does not relieve the operator of | best of my knowledge ar ifications and perform co OCD does not relieve the eat to groundwater, surfa responsibility for compl | nd understand that purs prrective actions for rele operator of liability sh ce water, human health iance with any other fe | uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws |
| Printed Name: <u>Wade D</u> Signature: | ittrich leDitto | Title: <u>Environment</u> | al Specialist | |
| email: wade_dittrich@e | oxy.com | Telephone: <u>575-39</u> | 00-2828 | |
| 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: | | \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 | Condition Date |
|------------|-----------|-------------------|
| jharimon | None | 8/18/2023 |

Page 86 of 86

Action 222171