State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| 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: _____ Title: _____

Signature: Jacob Laird Date: 7/12/2023

email: _____ Telephone: _____

**OCD Only**

Received by: Shelly Wells Date: 7/24/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and 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: Shelly Wells Date: 9/15/2023

Printed Name: Shelly Wells Title: Environmental Specialist-Advanced

# Liner Inspection Report

**ConocoPhillips Company**
**Pygmy 27 State Com #001H**
Lea County, New Mexico
Unit Letter D, Section 27, Township 21 South, Range 33 East
Latitude 32.4562 North, Longitude 103.5684 West
**NMOCD Reference No. nAPP2313141665**

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**
2507 79th Street, Unit A
Lubbock, Texas 79423

Ben J. Arguijo

Joel W. Lowry

ETECH Environmental & Safety Solutions, Inc.

*Midland • San Antonio • Lubbock • Hobbs • Lafayette*

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# 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of ConocoPhillips Company, has prepared this Liner Inspection Report for the release site known as the Pygmy 27 State Com #001H (henceforth, "Site"). Details of the release are summarized below:

## Location of Release Source

Latitude: 32.4562 Longitude: -103.5684

Provided GPS are in WGS84 format.

| | | | |
|---|---|---|---|
| Site Name: | Pygmy 27 State Com #001H | Site Type: | Tank Battery |
| Date Release Discovered: | 5/7/2023 | API # (if applicable): | N/A |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| D | 27 | 21S | 33E | Lea |

Surface Owner: [ ] State [ ] Federal [ ] Tribal [X] Private (Name Merchant Livestock )

## Nature and Volume of Release

| | | |
|---|---|---|
| [X] Crude Oil | Volume Released (bbls) 2.8443 | Volume Recovered (bbls) N/A |
| [X] Produced Water | Volume Released (bbls) 2.8443 | Volume Recovered (bbls) N/A |
| | Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? | [X] Yes [ ] No [ ] N/A |
| [ ] Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| [ ] Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| [ ] Other (describe) | Volume/Weight Released | Volume/Weight Recovered |

Cause of Release:
The release was attributed a pinhole in the FWKO due to corrosion. The release affected an area within a lined facility and a vacuum truck was utilized to remove freestanding fluids.

## Initial Response

- [X] The source of the release has been stopped.
- [X] The impacted area has been secured to protect human health and the environment.
- [ ] Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- [X] All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Super Cobra release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 178 |
| Did the 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 any 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 the 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? | ☐ Yes ☒ No |

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles, topographic maps, NMOSE and USGS databases, and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Super Cobra release site are as follows:

| Probable Depth to Groundwater | Constituent | Laboratory Analytical Method | Closure Criteria*† | Reclamation Standard*‡ |
|---|---|---|---|---|
| 60' | Chloride (Cl-) | EPA 300.0 or SM4500 Cl B | 20,000 | 600 |
| | Total Petroleum Hydrocarbons (TPH) | EPA SW-846 Method 8015M Ext | 2,500 | 100 |
| | Gas Range Organics + Diesel Range Organics (GRO + DRO) | EPA SW-846 Method 8015M | 1,000 | N/A |
| | Benzene | EPA SW-846 Methods 8021b or 8260b | 10 | 10 |
| | Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) | EPA SW-846 Methods 8021b or 8260b | 50 | 50 |

* Measured in milligrams per kilogram (mg/kg)
† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).
‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

## 4.0 SITE ASSESSMENT

On June 5, 2022, Etech conducted a site assessment. During the site assessment, a visual inspection of the containment area liner was performed to check its integrity and confirm that it remained intact. No breaches were discovered during the inspection, and it was determined that the lined containment area was able to fully contain the spill. Based on this information, no further remedial action was required.

General photographs of the release site are provided in Appendix B.

## 5.0 SITE CLOSURE REQUEST

The release was limited to the lined containment area of an active tank battery facility. Visibly impacted gravel was removed and a visual inspection of the containment area liner confirmed that it remained intact, was able to fully contain the spill, and no further remedial action was required. In consideration of this information, Etech recommends ConocoPhillips Company provide copies of this *Liner Inspection Report* to the appropriate agencies and request closure be granted to the Pygmy 27 State Com #001H release site.

## 6.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Liner Inspection Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of ConocoPhillips Company. Use of the information contained in this report is prohibited without the consent of Etech and/or ConocoPhillips Company.

# 7.0 DISTRIBUTION

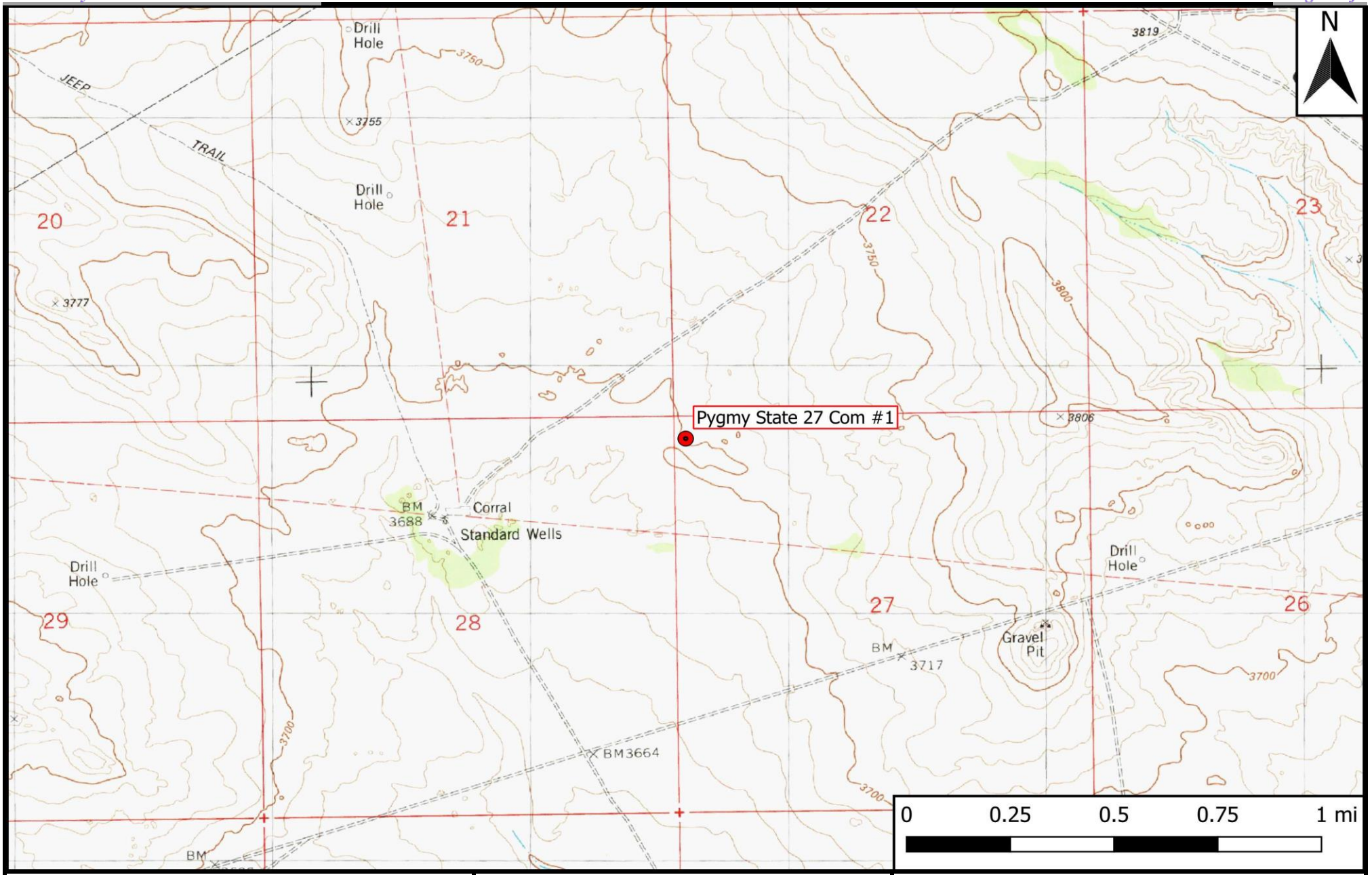
***ConocoPhillips Company***
*3300 B A St.*
*Midland, TX 79705*

***New Mexico Energy, Minerals and Natural Resources Department***
*Oil Conservation Division, District 1*
*1220 South St. Francis Drive*
*Santa Fe, NM 87505*

***Hobbs Field Office***
*New Mexico State Land Office*
*2827 North Dal Paso Street*
*Suite 117*
*Hobbs, NM 88240*

*(Electronic Submission)*

# Figure 1
# Topographic Map




Legend

- Site Location

**Figure 1**

Topographic Map

ConocoPhillips Company

Pygmy State 27 Com #1

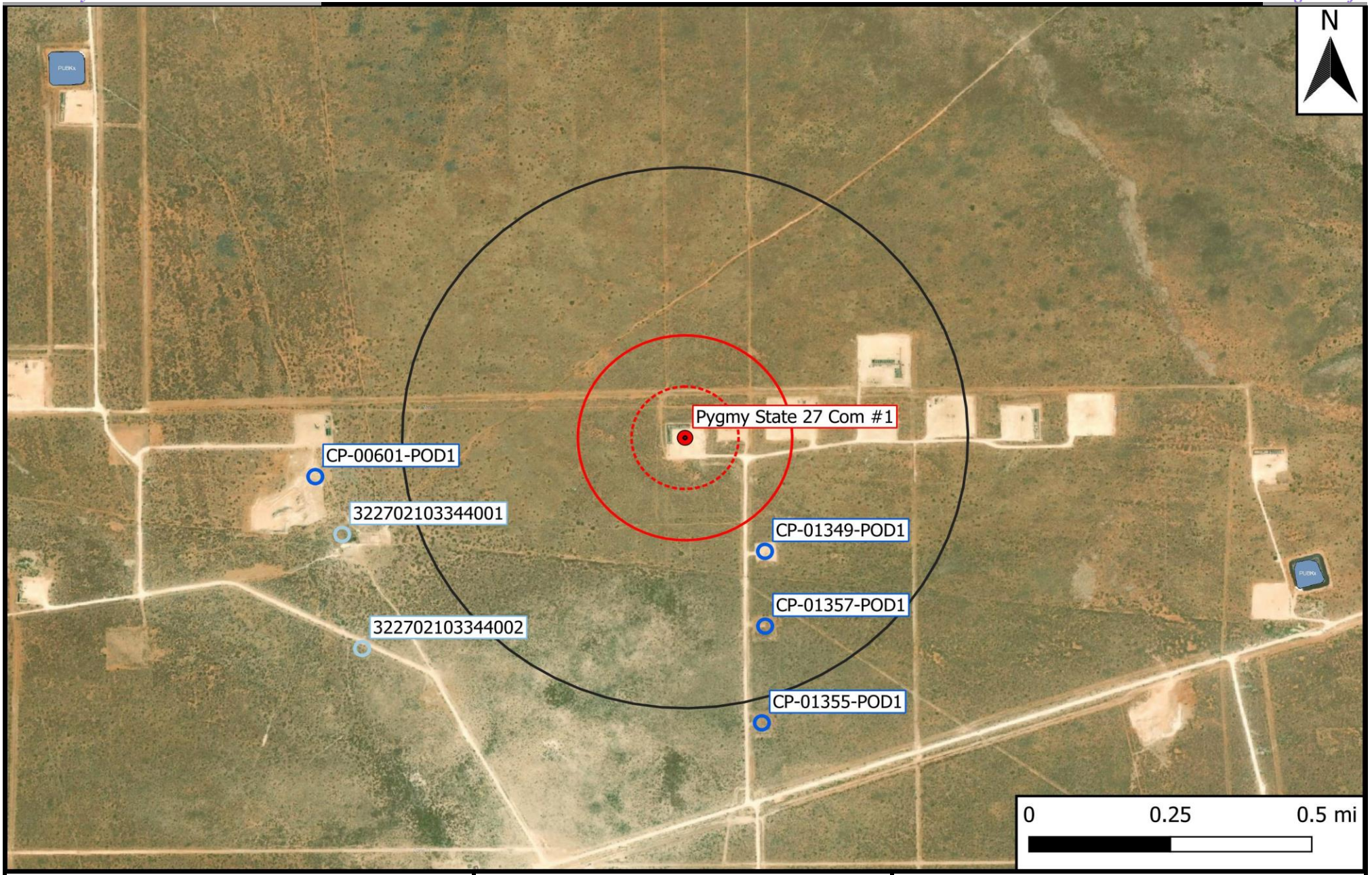
GPS: 32.4562, -103.5684

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/19/22

# Figure 2
# Aerial Proximity Map




Legend

- Site Location
- Well - NMOSE
- Well - USGS
- Potash Mine Workings
- Medium/High Karst
- 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

**Figure 2**

Aerial Proximity Map

ConocoPhillips Company

Pygmy State 27 Com #1

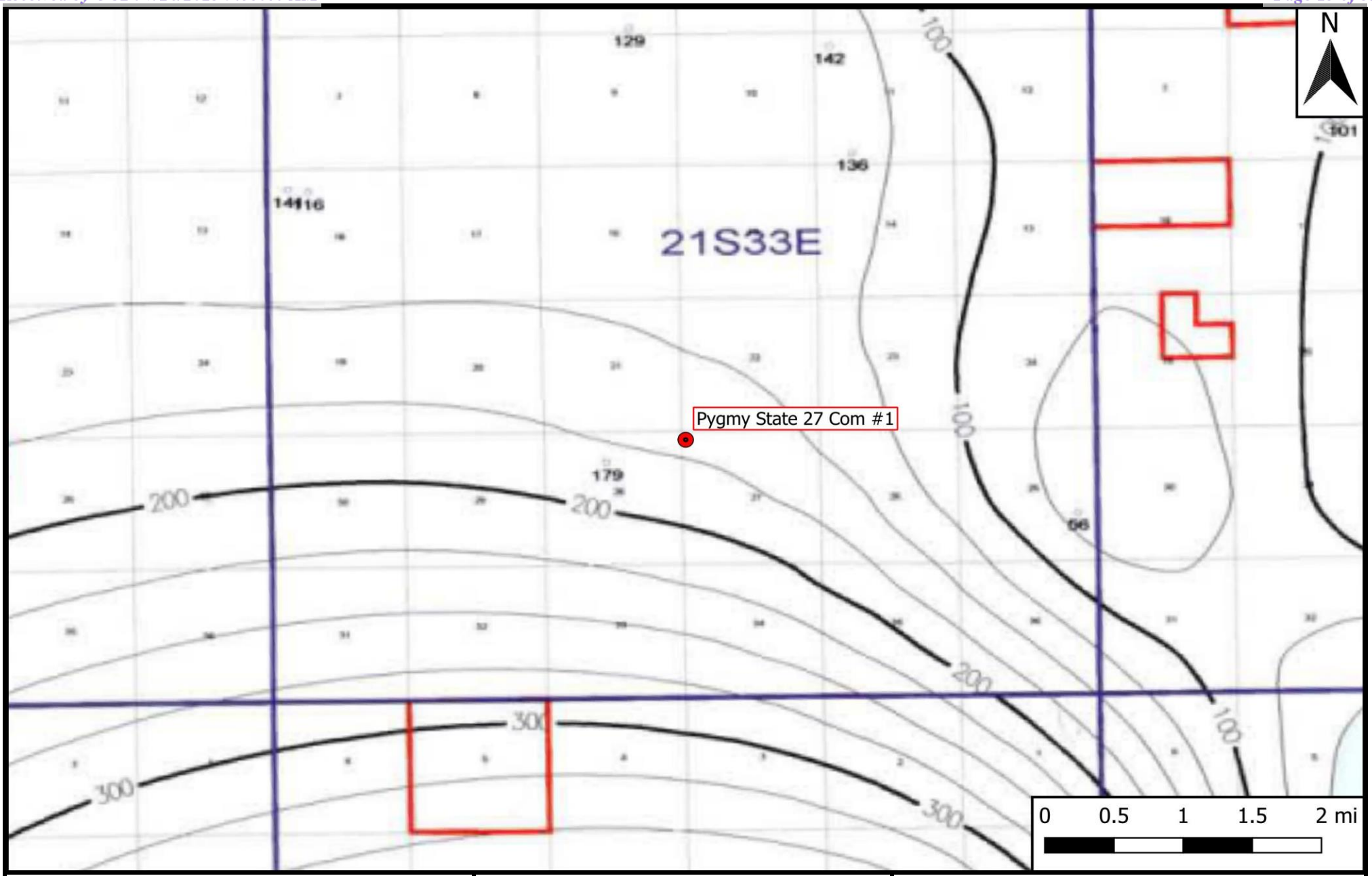
GPS: 32.4562, -103.5684

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/19/22

# Appendix A
# Depth to Groundwater Information




Legend

Site Location

**Figure 4**

Inferred Depth to Groundwater Trend Map

ConocoPhillips Company

Pygmy State 27 Com #1

GPS: 32.4562, -103.5684

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/19/22

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

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

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

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

| POD Number | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP 01349 POD1 | | CP | LE | 2 | 3 | 1 | 27 | 21S | 33E | 634782 | 3591569 | 406 | 1188 | 572 | 616 |
| CP 01357 POD1 | | CP | LE | 4 | 3 | 1 | 27 | 21S | 33E | 634782 | 3591347 | 602 | 1286 | 578 | 708 |

Average Depth to Water: **575 feet**
Minimum Depth: **572 feet**
Maximum Depth: **578 feet**

**Record Count:** 2

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 634554.44 **Northing (Y):** 3591906 **Radius:** 804.67



10/19/22 9:45 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# New Mexico Office of the State Engineer
# Point of Diversion Summary

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

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Twn | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | CP 01349 POD1 | 2 | 3 | 1 | 27 | 21S | 33E | 634782 | 3591569 |

**Driller License:** 421 **Driller Company:** GLENN'S WATER WELL SERVICE

**Driller Name:** GLENN, CLARK A."CORKY"

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 07/12/2014 | **Drill Finish Date:** | 07/18/2014 | **Plug Date:** | |
| **Log File Date:** | 08/04/2014 | **PCW Rcv Date:** | 04/27/2017 | **Source:** | Artesian |
| **Pump Type:** | SUBMER | **Pipe Discharge Size:** | 3 | **Estimated Yield:** | |
| **Casing Size:** | 7.00 | **Depth Well:** | 1188 feet | **Depth Water:** | 572 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 990 | 1188 | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 721 | 1188 |

| | | | |
|---|---|---|---|
| **Meter Number:** | 18275 | **Meter Make:** | BLANCETT |
| **Meter Serial Number:** | 092413719 | **Meter Multiplier:** | 1.0000 |
| **Number of Dials:** | 9 | **Meter Type:** | Diversion |
| **Unit of Measure:** | Barrels 42 gal. | **Return Flow Percent:** | |
| **Usage Multiplier:** | | **Reading Frequency:** | Monthly |

**Meter Readings (in Acre-Feet)**

| Read Date | Year | Mtr Reading | Flag | Rdr | Comment | Mtr Amount | Online |
|---|---|---|---|---|---|---|---|
| 06/02/2015 | 2015 | 616318 | A | ap | beginning water report | 0 | |
| 06/27/2015 | 2015 | 654758 | A | ap | | 49.547 | |
| 07/31/2015 | 2015 | 654758 | A | ap | | 0 | |
| 08/31/2015 | 2015 | 658147 | A | ap | | 4.368 | |
| 09/30/2015 | 2015 | 658147 | A | ap | | 0 | |
| 10/31/2015 | 2015 | 658147 | A | ap | | 0 | |
| 11/30/2015 | 2015 | 658147 | A | ap | | 0 | |
| 04/01/2016 | 2016 | 0 | A | ap | meter was reset | 0 | |
| 04/30/2016 | 2016 | 56 | A | ap | | 0.072 | |
| 06/30/2016 | 2016 | 45448 | A | ap | | 58.507 | |
| 07/27/2016 | 2016 | 93651 | A | ap | | 62.130 | |
| 08/04/2016 | 2016 | 0 | A | ap | | 0 | |
| 08/04/2016 | 2016 | 93651 | A | ap | replacing with new meter | 0 | |
| 09/01/2016 | 2016 | 59651 | A | ap | | 768.861 | |
| 09/30/2016 | 2016 | 59685 | A | ap | | 0.438 | |
| 10/31/2016 | 2016 | 59685 | A | ap | | 0 | |
| 11/29/2016 | 2016 | 123327 | A | ap | | 820.303 | |
| 12/31/2016 | 2016 | 202400 | A | ap | | 1019.198 | |
| 02/01/2017 | 2017 | 222525 | A | ap | | 259.398 | |
| 02/27/2017 | 2017 | 0 | A | ap | reset meter again second time | 0 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 02/27/2017 | 2017 | 227465 | A | ap | | 63.673 | |
| 03/01/2017 | 2017 | 4377 | A | ap | | 56.417 | |
| 03/31/2017 | 2017 | 63670 | A | ap | | 764.247 | |
| 05/01/2017 | 2017 | 110035 | A | ap | | 597.614 | |
| 05/31/2017 | 2017 | 121714 | A | ap | | 150.534 | |
| 07/31/2017 | 2017 | 179828 | A | ap | | 749.050 | |
| 10/31/2017 | 2017 | 212568 | A | ap | | 421.997 | |
| 11/30/2017 | 2017 | 212568 | A | ap | | 0 | |
| 11/30/2017 | 2017 | 0 | A | ap | new meter | 0 | |
| 12/30/2017 | 2017 | 381088 | A | ap | | 4911.968 | |
| 01/30/2018 | 2018 | 437540 | A | ap | | 727.628 | |
| 02/28/2018 | 2018 | 489981 | A | ap | | 675.929 | |
| 03/30/2018 | 2018 | 547614 | A | ap | | 742.851 | |
| 04/30/2018 | 2018 | 599646 | A | ap | | 670.657 | |
| 06/01/2018 | 2018 | 653059 | A | ap | | 688.458 | |
| 06/29/2018 | 2018 | 705152 | A | ap | | 671.444 | |
| 07/31/2018 | 2018 | 740396 | A | ap | | 454.271 | |
| 08/30/2018 | 2018 | 797263 | A | ap | | 732.977 | |
| 09/30/2018 | 2018 | 846832 | A | ap | | 638.911 | |
| 11/30/2018 | 2018 | 954599 | A | ap | | 1389.044 | |
| 01/02/2019 | 2018 | 1007303 | A | RPT | | 6.793 | |
| 02/01/2019 | 2019 | 1020346 | A | RPT | | 1.681 | |
| 08/01/2019 | 2019 | 1424822 | A | RPT | | 52.134 | |
| 09/01/2019 | 2019 | 1479315 | A | RPT | | 7.024 | |
| 09/30/2019 | 2019 | 1532079 | A | RPT | | 6.801 | |
| 10/31/2019 | 2019 | 1594691 | A | RPT | | 8.070 | |
| 11/30/2019 | 2019 | 1649180 | A | RPT | | 7.023 | |
| 12/31/2019 | 2019 | 1680307 | A | RPT | | 4.012 | |
| 02/01/2020 | 2020 | 1725618 | A | RPT | | 5.840 | |
| 03/01/2020 | 2020 | 1769757 | A | RPT | | 5.689 | |
| 04/01/2020 | 2020 | 1795050 | A | RPT | | 3.260 | |
| 05/01/2020 | 2020 | 1795050 | A | RPT | | 0 | |
| 06/01/2020 | 2020 | 1827737 | A | RPT | | 4.213 | |
| 08/01/2020 | 2020 | 1890759 | A | RPT | | 8.123 | |
| 09/01/2020 | 2020 | 1911876 | A | RPT | | 2.722 | |
| 10/01/2020 | 2020 | 1921973 | A | RPT | | 1.301 | |
| 10/31/2020 | 2020 | 1921973 | A | WEB | | 0 | X |
| 11/30/2020 | 2020 | 1936489 | A | WEB | | 1.871 | X |
| 12/31/2020 | 2020 | 1985989 | A | WEB | | 6.380 | X |

x

| **YTD Meter Amounts: | Year | Amount |
|---|---|---|
| | 2015 | 53.915 |
| | 2016 | 2729.509 |
| | 2017 | 7974.898 |
| | 2018 | 7398.963 |
| | 2019 | 86.745 |
| | 2020 | 39.399 |

x

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

# New Mexico Office of the State Engineer
# Point of Diversion Summary

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

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | CP 01357 POD1 | 4 | 3 | 1 | 27 | 21S | 33E | 634782 | 3591347 |

**Driller License:** 421 **Driller Company:** GLENN'S WATER WELL SERVICE

**Driller Name:** GLENN, CLARK A."CORKY"

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 08/16/2014 | **Drill Finish Date:** | 08/26/2014 | **Plug Date:** | |
| **Log File Date:** | 09/10/2014 | **PCW Rcv Date:** | 04/27/2017 | **Source:** | Artesian |
| **Pump Type:** | SUBMER | **Pipe Discharge Size:** | 3 | **Estimated Yield:** | |
| **Casing Size:** | 6.37 | **Depth Well:** | 1286 feet | **Depth Water:** | 578 feet |

**Water Bearing Stratifications:**

| Top | Bottom | Description |
|---|---|---|
| 945 | 960 | Sandstone/Gravel/Conglomerate |
| 960 | 1077 | Shale/Mudstone/Siltstone |
| 1077 | 1215 | Sandstone/Gravel/Conglomerate |
| 1215 | 1286 | Shale/Mudstone/Siltstone |

**Casing Perforations:**

| Top | Bottom |
|---|---|
| 846 | 1286 |

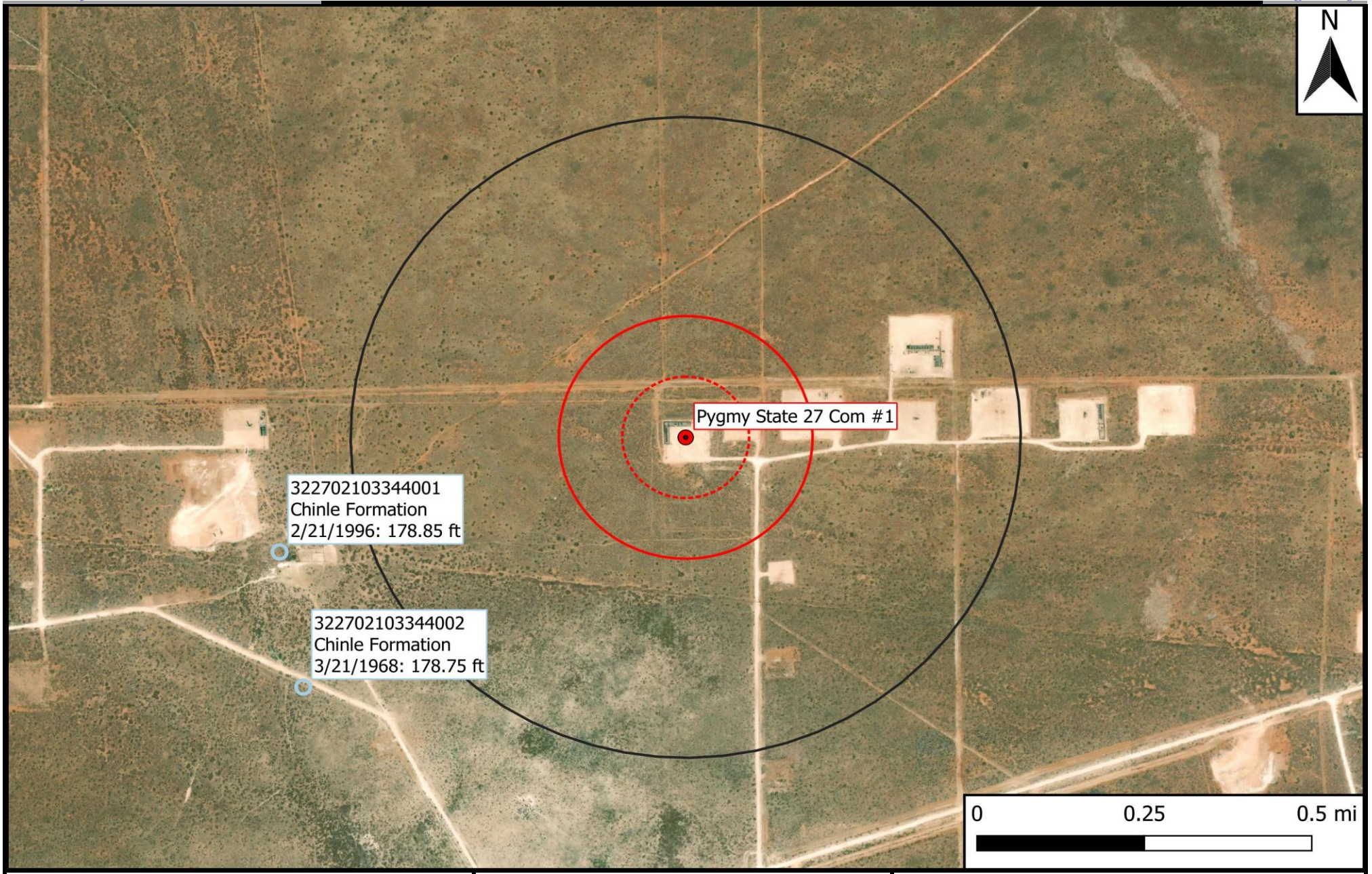
| | | | |
|---|---|---|---|
| **Meter Number:** | 18278 | **Meter Make:** | BLANCETT |
| **Meter Serial Number:** | 002514700 | **Meter Multiplier:** | 1.0000 |
| **Number of Dials:** | 9 | **Meter Type:** | Diversion |
| **Unit of Measure:** | Barrels 42 gal. | **Return Flow Percent:** | |
| **Usage Multiplier:** | | **Reading Frequency:** | Monthly |

**Meter Readings (in Acre-Feet)**

| Read Date | Year | Mtr Reading | Flag | Rdr | Comment | Mtr Amount | Online |
|---|---|---|---|---|---|---|---|
| 06/03/2015 | 2015 | 620282 | A | ap | beginning meter reading | 0 | |
| 06/27/2015 | 2015 | 648079 | A | ap | | 358.285 | |
| 07/31/2015 | 2015 | 648079 | A | ap | | 0 | |
| 08/21/2015 | 2015 | 678838 | A | ap | | 396.463 | |
| 09/30/2015 | 2015 | 679417 | A | ap | | 7.463 | |
| 10/30/2015 | 2015 | 777255 | A | ap | | 1261.066 | |
| 11/30/2015 | 2015 | 798886 | A | ap | | 278.809 | |
| 04/30/2016 | 2016 | 984569 | A | ap | | 2393.329 | |
| 06/30/2016 | 2016 | 1124000 | A | ap | | 1797.172 | |
| 07/31/2016 | 2016 | 1199233 | A | ap | | 969.703 | |
| 09/01/2016 | 2016 | 1273938 | A | ap | | 962.897 | |
| 09/30/2016 | 2016 | 1304197 | A | ap | | 390.018 | |
| 10/31/2016 | 2016 | 1352466 | A | ap | | 622.155 | |
| 11/29/2016 | 2016 | 1416500 | A | ap | | 825.355 | |
| 12/31/2016 | 2016 | 1496320 | A | ap | | 1028.826 | |
| 02/01/2017 | 2017 | 1526044 | A | ap | | 383.122 | |
| 03/01/2017 | 2017 | 1526818 | A | ap | | 9.976 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 03/31/2017 | 2017 | 1549606 | A | ap | 293.722 | |
| 05/01/2017 | 2017 | 1596745 | A | ap | 607.590 | |
| 05/31/2017 | 2017 | 1609365 | A | ap | 162.663 | |
| 07/31/2017 | 2017 | 1675457 | A | ap | 851.881 | |
| 10/31/2017 | 2017 | 1782654 | A | ap | 1381.697 | |
| 11/30/2017 | 2017 | 1866815 | A | ap | 1084.779 | |
| 12/30/2017 | 2017 | 1939812 | A | ap | 940.882 | |
| 01/30/2018 | 2018 | 2006016 | A | ap | 853.325 | |
| 02/28/2018 | 2018 | 2071063 | A | ap | 838.412 | |
| 03/30/2018 | 2018 | 2134697 | A | ap | 820.199 | |
| 04/30/2018 | 2018 | 2198100 | A | ap | 817.222 | |
| 06/01/2018 | 2018 | 2264810 | A | ap | 859.847 | |
| 06/29/2018 | 2018 | 2327836 | A | ap | 812.363 | |
| 07/31/2018 | 2018 | 2408117 | A | ap | 1034.768 | |
| 08/30/2018 | 2018 | 2477917 | A | ap | 899.675 | |
| 09/30/2018 | 2018 | 2536539 | A | ap | 755.598 | |
| 11/30/2018 | 2018 | 2614905 | A | ap | 1010.085 | |
| 01/02/2019 | 2018 | 2676128 | A | RPT | 7.891 | |
| 02/01/2019 | 2019 | 2690452 | A | RPT | 1.846 | |
| 08/01/2019 | 2019 | 3102120 | A | RPT | 53.061 | |
| 09/01/2019 | 2019 | 3143282 | A | RPT | 5.306 | |
| 09/30/2019 | 2019 | 3237244 | A | RPT | 12.111 | |
| 10/31/2019 | 2019 | 3279628 | A | RPT | 5.463 | |
| 11/30/2019 | 2019 | 3343068 | A | RPT | 8.177 | |
| 12/31/2019 | 2019 | 3380700 | A | RPT | 4.851 | |
| 02/01/2020 | 2020 | 3404021 | A | RPT | 3.006 | |
| 03/01/2020 | 2020 | 3424112 | A | RPT | 2.590 | |
| 04/01/2020 | 2020 | 3461970 | A | RPT | 4.880 | |
| 05/01/2020 | 2020 | 3461970 | A | RPT | 0 | |
| 06/01/2020 | 2020 | 3474270 | A | RPT | 1.585 | |
| 08/01/2020 | 2020 | 3485254 | A | RPT | 1.416 | |
| 09/01/2020 | 2020 | 3495334 | A | RPT | 1.299 | |
| 10/01/2020 | 2020 | 3495334 | A | RPT | 0 | |
| 10/31/2020 | 2020 | 3520393 | A | WEB | 3.230 | X |
| 11/30/2020 | 2020 | 3604293 | A | WEB | 10.814 | X |
| 12/31/2020 | 2020 | 3652303 | A | WEB | 6.188 | X |

| **YTD Meter Amounts: | Year | Amount |
|---|---|---|
| | 2015 | 2302.086 |
| | 2016 | 8989.455 |
| | 2017 | 5716.312 |
| | 2018 | 8709.385 |
| | 2019 | 90.815 |
| | 2020 | 35.008 |




Legend
- Site Location
- Well - USGS
- 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius

**Figure 5**
USGS Well Proximity Map
ConocoPhillips Company
Pygmy State 27 Com #1
GPS: 32.4562, -103.5684
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/19/22

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click forNews Bulletins

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 322702103344001

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

---

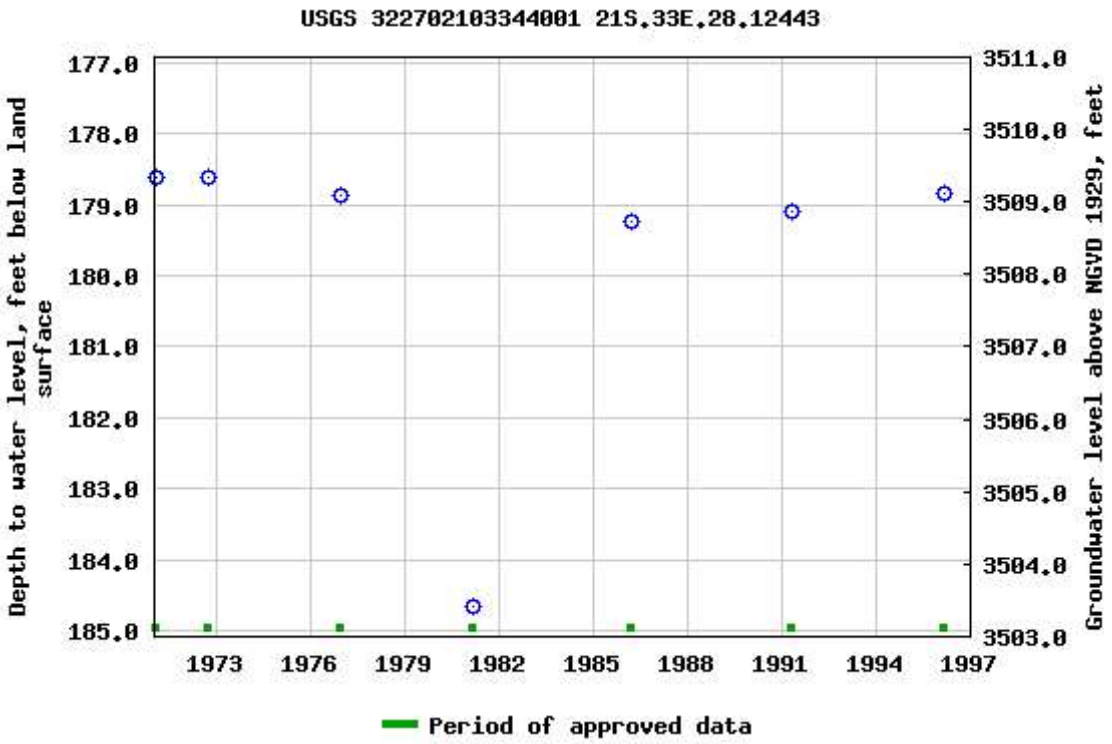
## USGS 322702103344001 21S.33E.28.12443

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°27'13", Longitude 103°34'42" NAD27
Land-surface elevation 3,688.00 feet above NGVD29
The depth of the well is 224 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |




Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

---

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News



**Title: Groundwater for USA: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?**

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-10-19 11:42:55 EDT
0.59 0.49 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click forNews Bulletins

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 322702103344002

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

---

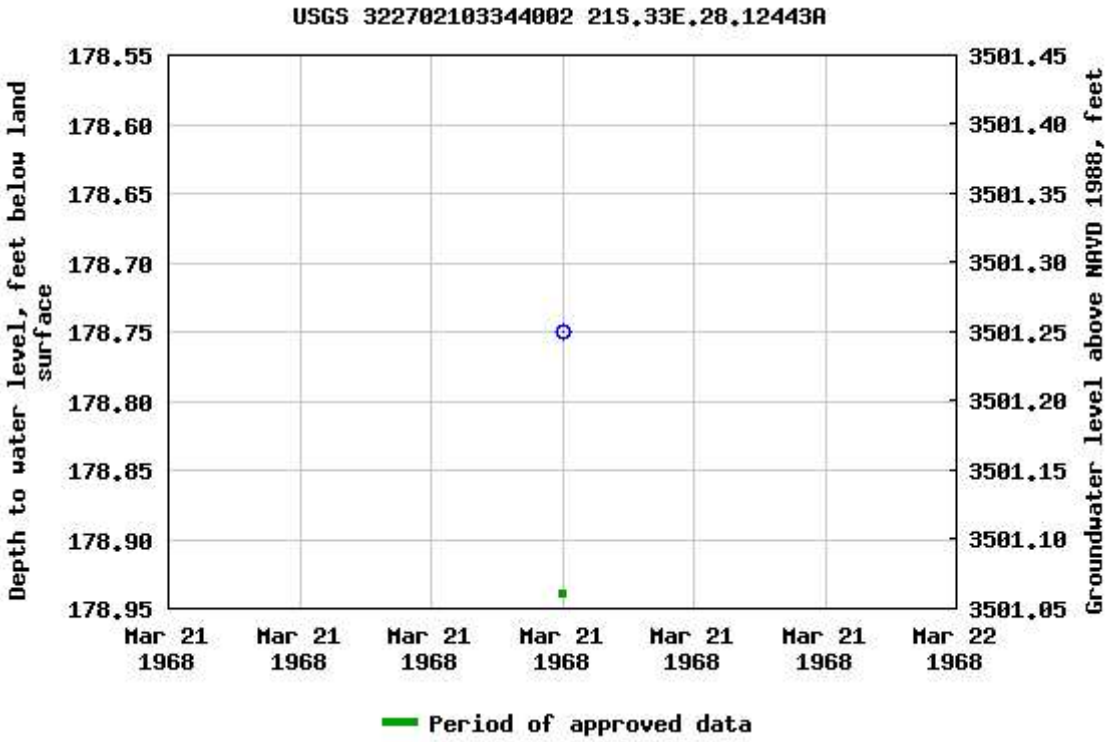
## USGS 322702103344002 21S.33E.28.12443A

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°27'02", Longitude 103°34'40" NAD27
Land-surface elevation 3,680 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |




Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

---

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
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News



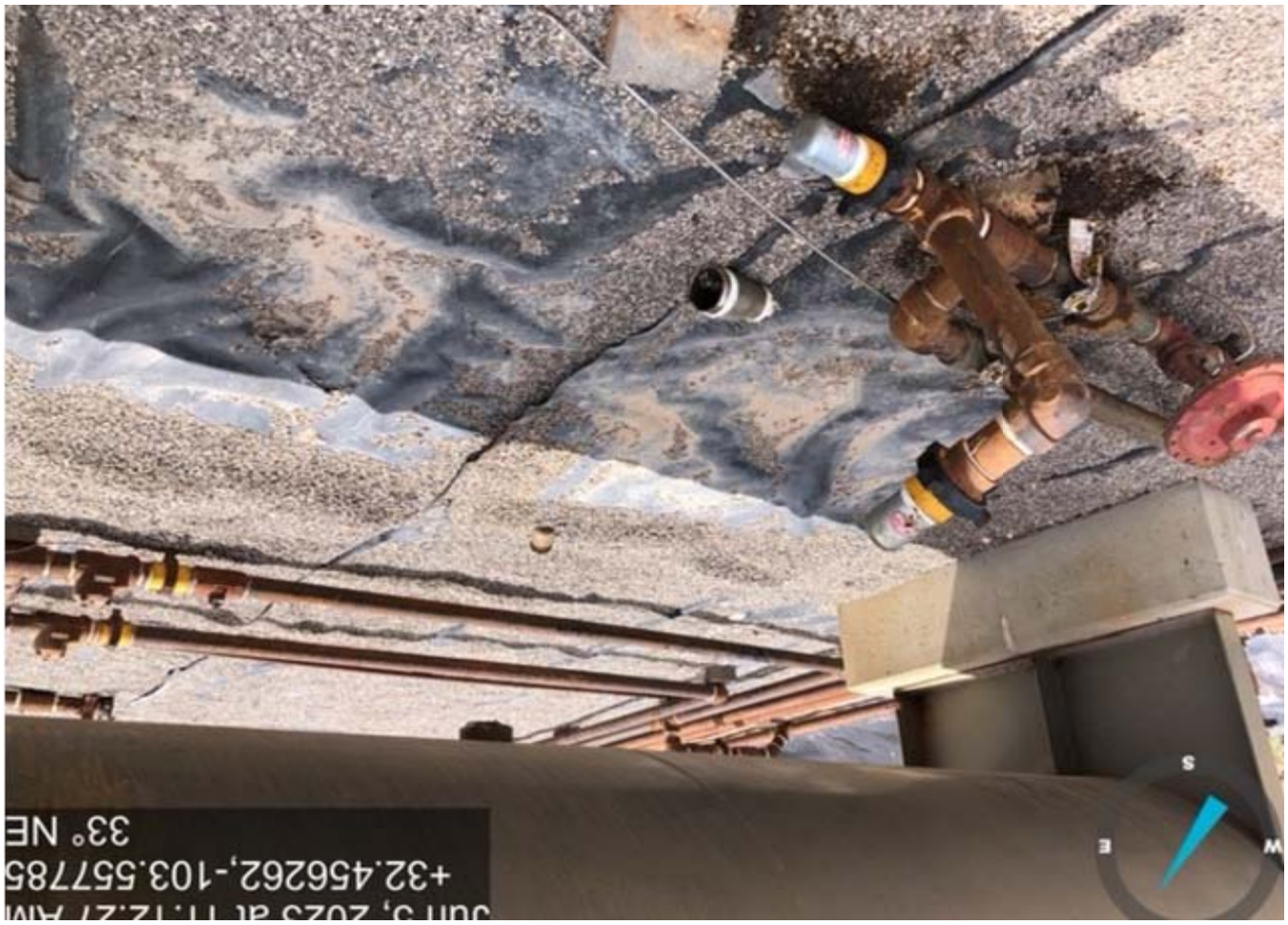
**Title: Groundwater for USA: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?**

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-10-19 11:42:56 EDT
0.57 0.48 nadww01

# Appendix B
# Photographic Log


258° W
+32.456565,-103.568506
S
E
W


77° E
+32.456565,-103.568506
S
E
W


33° NE
+32.456262,-103.557785
S
E
W


87° E
+32.456565,-103.568506
S
E
W


182° S
+32.456454,-103.558105


115° SE
+32.456454,-103.558105

# Appendix C
# NMOCD Correspondence

## Joel Lowry

**From:** Zach Conder
**Sent:** Friday, July 7, 2023 8:13 AM
**To:** Joel Lowry
**Subject:** FW: [EXTERNAL] Liner Inspection Notification, nAPP2313141665, Pygmy 27 State Com #001H

**From:** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
**Sent:** Friday, June 2, 2023 10:15 AM
**To:** Zach Conder <zach@etechenv.com>; ocd.environmental@state.nm.us
**Cc:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Joel Lowry <joel@etechenv.com>; Lance Crenshaw <lance@etechenv.com>; Tamarah Kendrick <tamarah@etechenv.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>
**Subject:** RE: [EXTERNAL] Liner Inspection Notification, nAPP2313141665, Pygmy 27 State Com #001H

> Some people who received this message don't often get email from michael.buchanan@emnrd.nm.gov. Learn why this is important

Good morning,

Received. Is the Incident Number the correct one? Nothing is coming up from the one provided below.

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.

Respectfully,

**Mike Buchanan** ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

**From:** Zach Conder <zach@etechenv.com>
**Sent:** Thursday, June 1, 2023 6:38 AM
**To:** ocd.environmental@state.nm.us
**Cc:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Joel Lowry <joel@etechenv.com>; Lance Crenshaw <lance@etechenv.com>; Tamarah Kendrick <tamarah@etechenv.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>
**Subject:** [EXTERNAL] Liner Inspection Notification, nAPP2313141665, Pygmy 27 State Com #001H

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

Please be advised ETech will be conducting a liner inspection on the ConocoPhillips location, Pygmy 27 State Com #001H, on Friday, June 5th, 2023. The incident number for this release is nAPP2313141665.

Respectfully,

Zach Conder
Project Manager
Hobbs, NM – Lubbock, TX
806-724-5943

ETECH
Environmental & Safety Solutions, Inc.

**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

Action 243581

## CONDITIONS

| | |
|---|---|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137 |
| | Action Number:<br>243581 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| scwells | None | 9/15/2023 |