



SITE INFORMATION

Closure Report
Man State 002H (05.29.23)
Eddy County, New Mexico
Unit L Sec 32 T18S R28E
32.7033°, -104.2054°

Produced Water Release
Point of Release: Equipment failure due to corrosion
Release Date: 05.29.2023
Volume Released: 180 Barrels of Produced Water
Volume Recovered: 180 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Concho Operating, LLC
15 West London Road
Loving, New Mexico 88256

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 500
Midland, Texas 79701



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August 15, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report
Man State 002H (05.29.23)
Concho Operating, LLC
Incident ID NAPP2316327282
Site Location: Unit L, S32, T18S, R28E
(Lat 32.7033°, Long -104.2054°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for Man State 002H (05.29.23). The site is located at 32.7033°, -104.2054° within Unit L, S32, T18S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 29, 2023, caused by equipment failure due to corrosion within a lined facility. It resulted in approximately one hundred eighty (180) barrels of produced water to be released and one hundred eighty (180) of produced water recovered. See figure 3. The initial C-141 form is attached in Appendix B.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is located approximately 0.72 miles Southeast of the site in S05 T19S R28E and was drilled in 2015. The well has a reported depth to groundwater of 159.93' feet below ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix C.

3.0 Site Characterization and Groundwater

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.



4.0 Liner Inspection Activities

Before performing the liner inspection, the NMOCD division office was notified via email on June 5, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix B. On July 7, 2023, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility and determined that the liner was intact with no integrity issues. Prior to conducting the liner inspection, the area received a rain event resulting in the facility having standing rainwater during the liner inspection. Refer to the Photolog.

5.0 Conclusions

Based on the liner inspection throughout the facility, no further actions are required at the site. The final C-141 is attached, and COG formally requests the closure of the spill. If you have any questions regarding this report or need additional information, don't hesitate to contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

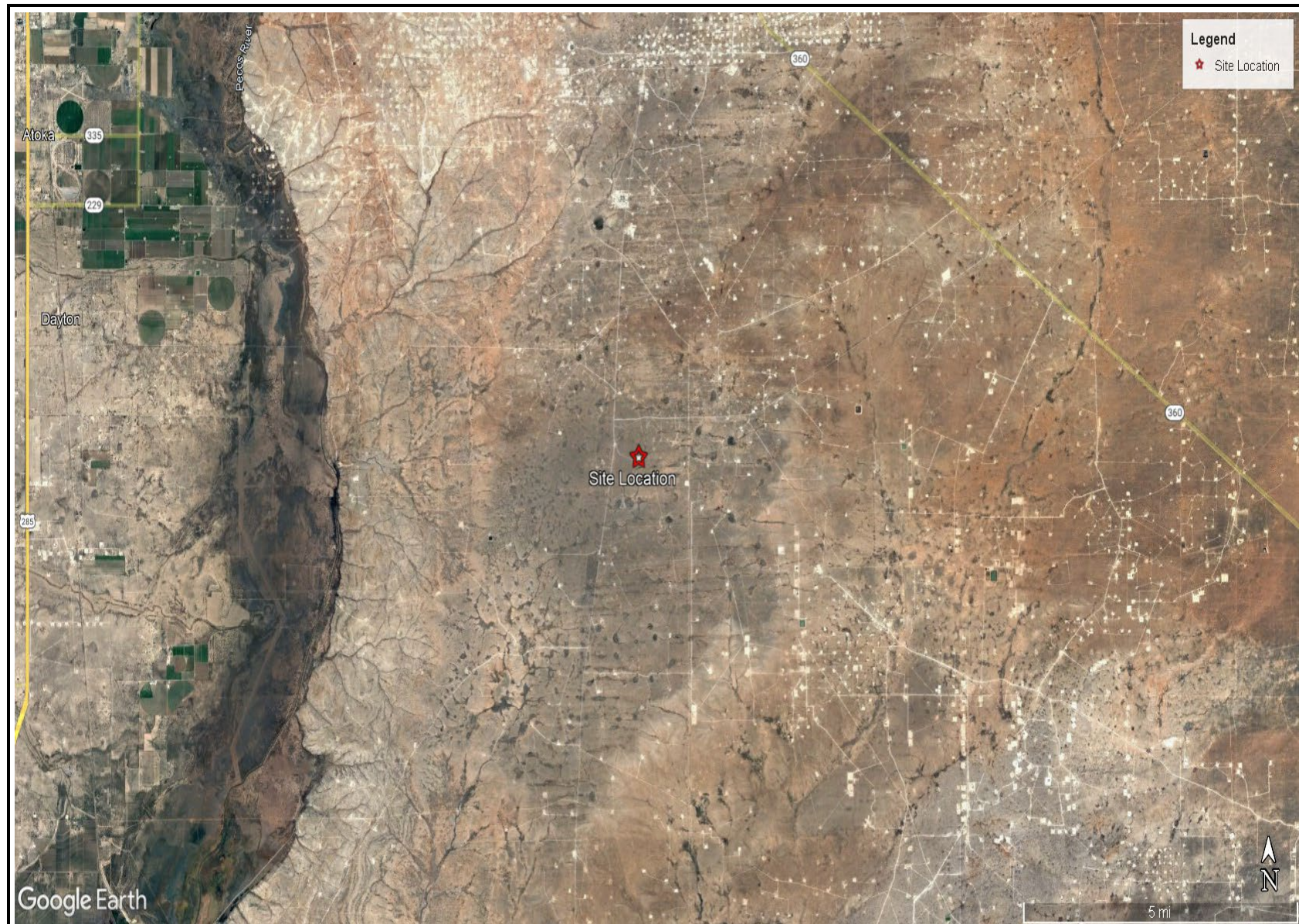
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES

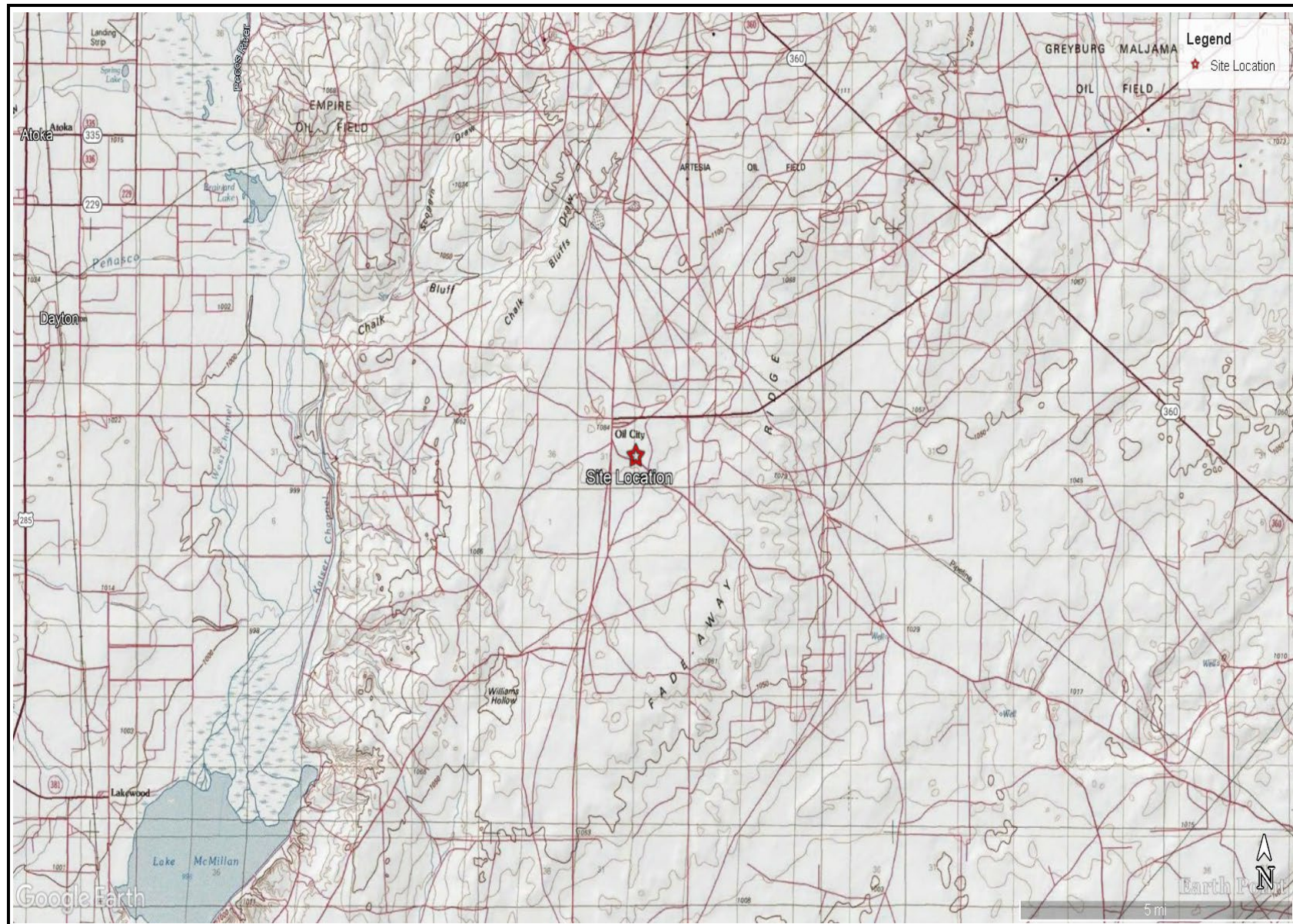




SITE OVERVIEW MAP
COG OPERATING, LLC
MAN STATE 002H (05.29.23)
EDDY COUNTY, NEW MEXICO
32.7033°, -104.2054°



FIGURE 1



TOPOGRAPHIC MAP
 COG OPERATING, LLC
 MAN STATE 002H (05.29.23)
 EDDY COUNTY, NEW MEXICO
 32.7033°, -104.2054°



FIGURE 2



SECONDARY CONTAINMENT MAP
COG OPERATING, LLC
MAN STATE 002H (05.29.23)
EDDY COUNTY, NEW MEXICO
32.7033°, -104.2054°



FIGURE 3

APPENDIX A

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

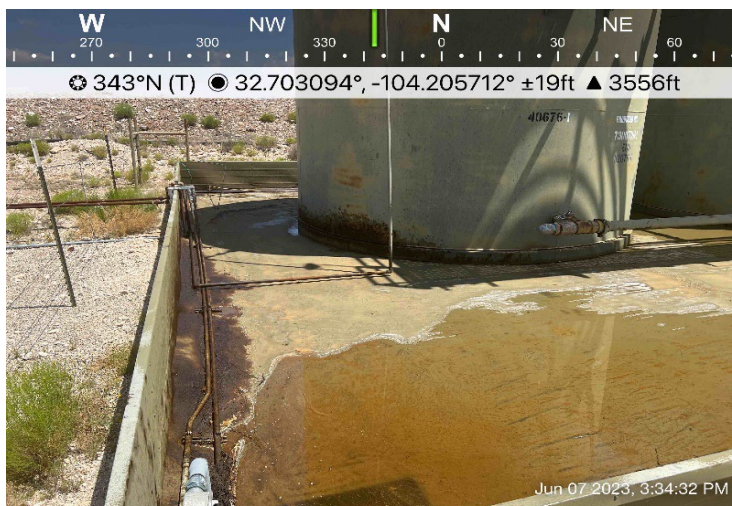
Photograph No. 1

Facility: Man State 002H (05.29.23)

County: Eddy County, New Mexico

Description:

View area North of lined facility.



Photograph No. 2

Facility: Man State 002H (05.29.23)

County: Eddy County, New Mexico

Description:

View area East of lined facility.



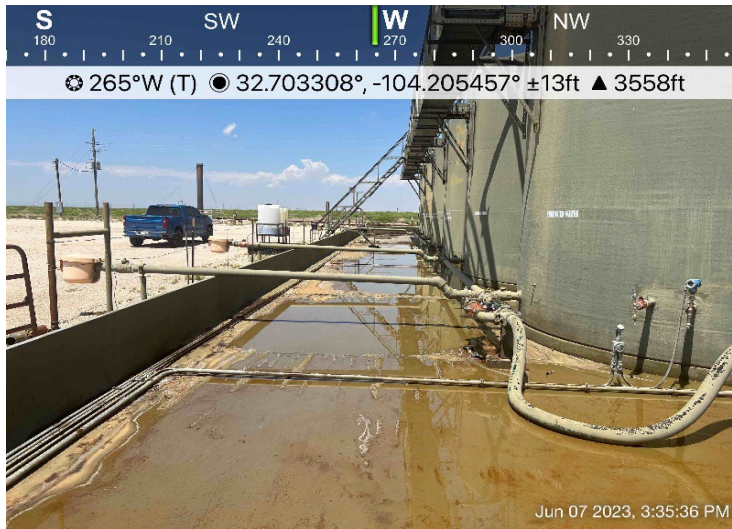
Photograph No. 3

Facility: Man State 002H (05.29.23)

County: Eddy County, New Mexico

Description:

View area West of lined facility.



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Man State 002H (05.29.23)

County: Eddy County, New Mexico

Description:

View area West of lined facility.



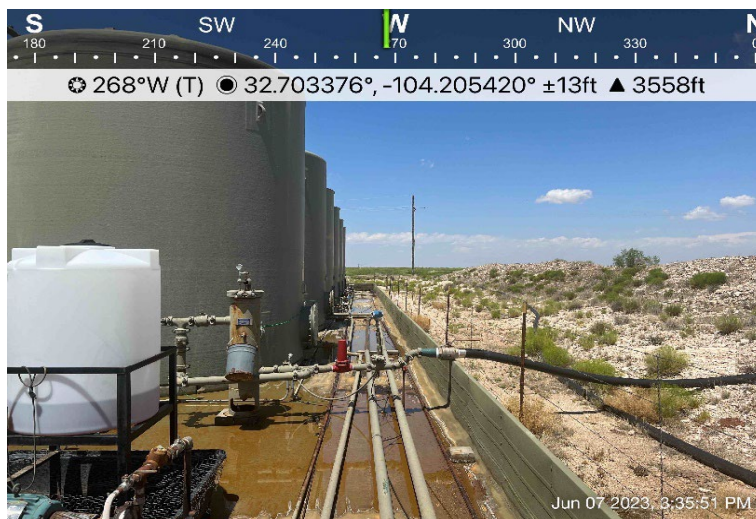
Photograph No. 5

Facility: Man State 002H (05.29.23)

County: Eddy County, New Mexico

Description:

View area West of lined facility.



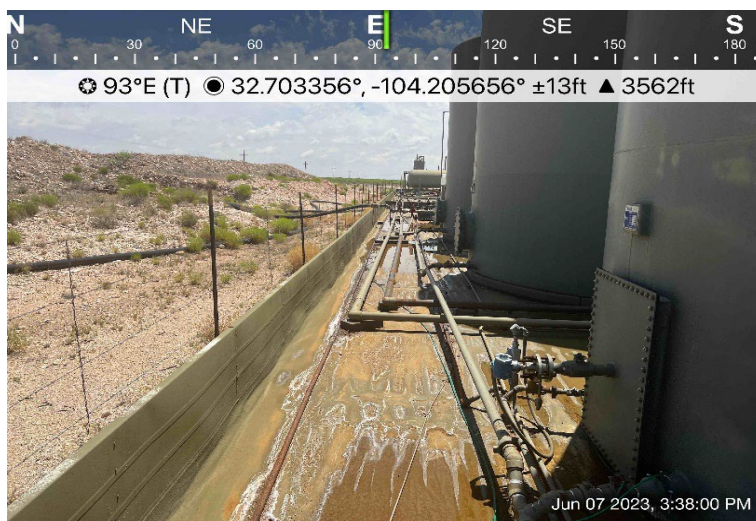
Photograph No. 6

Facility: Man State 002H (05.29.23)

County: Eddy County, New Mexico

Description:

View area East of lined facility.



APPENDIX B

CARMONA RESOURCES



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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ 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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: _____	Title: _____
Signature: <u>Patricia Zapanta</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

L48 Spill Volume Estimate Form - Fill In Gray Cells									
Facility Name & Well Number(s):				Man State 2H			Release Discovery Date & Time: 5.29.23		
Provide any known details about the event:				Pinhole due to corrosion. All contained in lined secondary containment			Primary Cause (dropdown):	Internal Corrosion - Erosion/Corrosion	Secondary Cause (dropdown):
				Was the Release to Soil / Caliche (dropdown):	Release On/Off Pad (dropdown):	Recovered Volume (bbl.) (if available, not included in volume calculations)	Release Type (dropdown):		Method of Determination (dropdown):
BU:	Permian	Asset Area:	DBW - Fine Sands	No	On-Pad		Produced Water		Field Measurement
Known Volume (dropdown):				No					
Known Area (dropdown):				No					
Spill Calculation - On-Pad Surface Pool Spill									
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)		
Rectangle A	160	34	2.3	5440.00	187.21	0.01	189.02		
Rectangle B				0.00	0.00	0.00	0.00		
Rectangle C				0.00	0.00	0.00	0.00		
Rectangle D				0.00	0.00	0.00	0.00		
Rectangle E				0.00	0.00	0.00	0.00		
Rectangle F				0.00	0.00	0.00	0.00		
Rectangle G				0.00	0.00	0.00	0.00		
Rectangle H				0.00	0.00	0.00	0.00		
Rectangle I				0.00	0.00	0.00	0.00		
Rectangle J				0.00	0.00	0.00	0.00		
Total Volume Release, Soil not impacted:							179.5673		

Incident ID	
District RP	
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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ 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 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 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: _____ Title: _____

Signature: Jacqueline Morris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 8/30/2023

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:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 8/30/2023

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: 9/13/2023

Printed Name: Shelly Wells Title: Environmental Specialist-Advanced

From: Enviro, OCD, EMNRD
Sent: Tuesday, June 6, 2023 9:12 AM
To: Conner Moehring
Cc: Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] COG - Man State 2H Battery (05.29.23) - Liner Inspection Notification

Conner,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

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](http://www.emnrd.nm.gov)



From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Monday, June 5, 2023 8:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jacqui.Harris@conocophillips.com; Mike Carmona <Mcarmona@carmonaresources.com>
Subject: [EXTERNAL] COG - Man State 2H Battery (05.29.23) - Liner Inspection Notification

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

Good Morning,

On behalf of COG, Carmona Resources will conduct a liner inspection at the below-referenced site on 6/7/23 around 3:30 p.m. Mountain Time. Please let me know if you have any questions.

COG – Man State 2H Battery (05.29.23)
Eddy County, New Mexico
Unit L, S32, T18S, R28E
32.7033, -104.2057

Conner R. Moehring
310 West Wall Street, Suite 500
Midland Texas, 79701
M: 432-813-6823
Cmoehring@carmonaresources.com

CARMONA RESOURCES



APPENDIX C

CARMONA RESOURCES

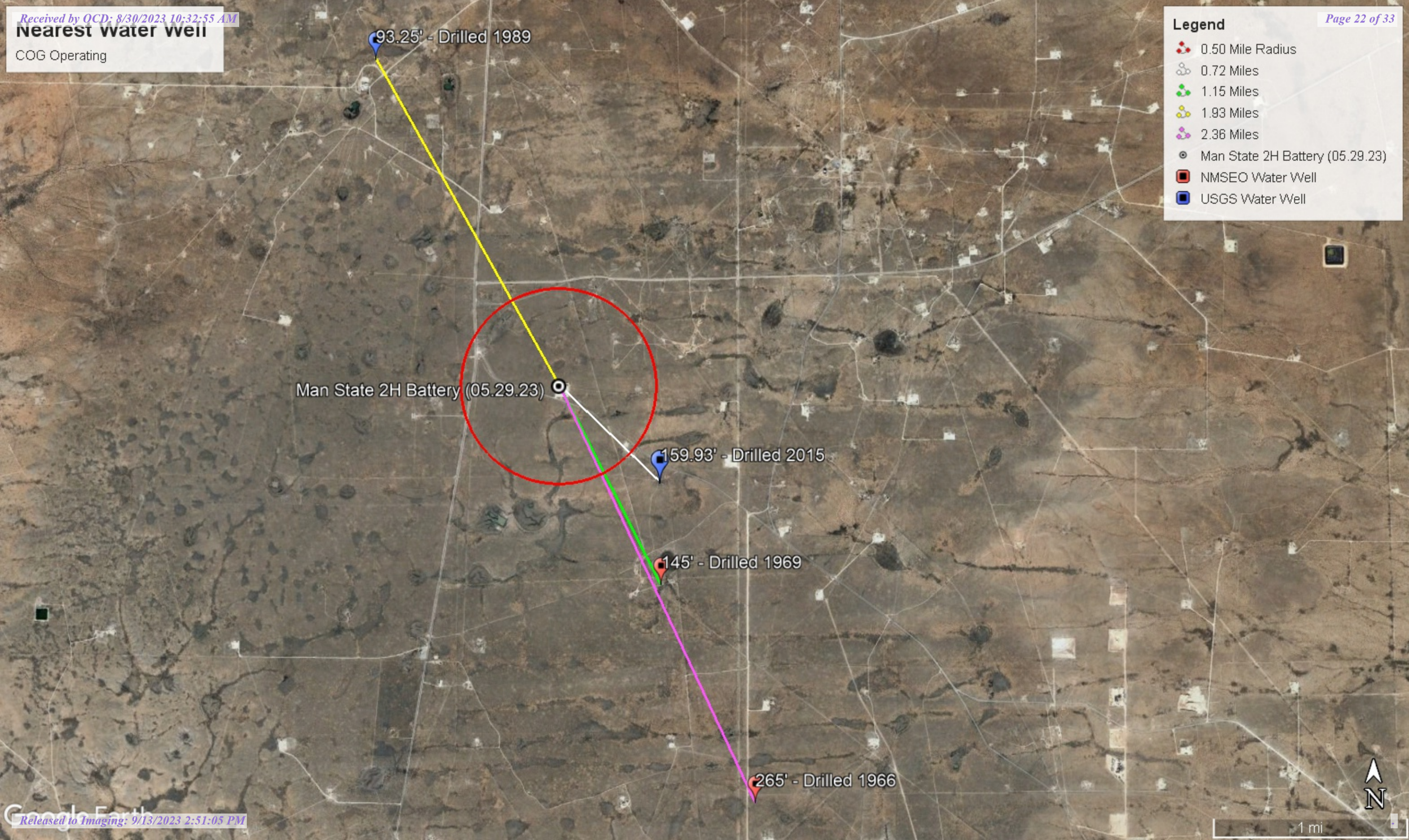


Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 0.72 Miles
- 1.15 Miles
- 1.93 Miles
- 2.36 Miles
- Man State 2H Battery (05.29.23)
- NMSEO Water Well
- USGS Water Well



Low Karst

COG Operating

Legend

-  Low
-  Man State 2H Battery (05.29.23)
-  Medium

Man State 2H Battery (05.29.23)



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00478 POD1	CP	ED		1	1	4	05	19S	28E	575300	3617036*	1846	312	145	167
RA 09588	RA	ED			1	2	33	18S	28E	576976	3619384*	2625	300		
CP 00361 POD1	CP	ED		3	1	3	09	19S	28E	576094	3615246*	3802	365	265	100

Average Depth to Water: **205 feet**

Minimum Depth: **145 feet**

Maximum Depth: **265 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 574448

Northing (Y): 3618674

Radius: 4000

*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.


6/5/23 11:24 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
				Groundwater	New Mexico	GO	

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 324154104115201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324154104115201 19S.28E.05.21114

Eddy County, New Mexico

Latitude 32°41'45.8", Longitude 104°11'48.7" NAD83

Land-surface elevation 3,543 feet above NAVD88

The depth of the well is 160 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1965-11-03			D 62610		3387.67	NGVD29	1		Z	
1965-11-03			D 62611		3389.24	NAVD88	1		Z	
1965-11-03			D 72019	153.76			1		Z	
1968-04-01			D 62610		3389.72	NGVD29	P		Z	
1968-04-01			D 62611		3391.29	NAVD88	P		Z	
1968-04-01			D 72019	151.71			P		Z	
1971-01-28			D 62610		3390.81	NGVD29	1		Z	
1971-01-28			D 62611		3392.38	NAVD88	1		Z	
1971-01-28			D 72019	150.62			1		Z	
1976-12-09			D 62610		3391.66	NGVD29	1		Z	
1976-12-09			D 62611		3393.23	NAVD88	1		Z	
1976-12-09			D 72019	149.77			1		Z	
1983-01-11			D 62610		3392.72	NGVD29	1		Z	
1983-01-11			D 62611		3394.29	NAVD88	1		Z	

8/31/23, 12:30 PM

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1983-01-11	D	72019	148.71		1	Z	
1986-06-03	D	62610	3392.57	NGVD29	1	S	
1986-06-03	D	62611	3394.14	NAVD88	1	S	
1986-06-03	D	72019	148.86		1	S	
1990-09-20	D	62610	3392.26	NGVD29	1	S	
1990-09-20	D	62611	3393.83	NAVD88	1	S	
1990-09-20	D	72019	149.17		1	S	
1994-03-09	D	62610	3391.25	NGVD29	1	S	
1994-03-09	D	62611	3392.82	NAVD88	1	S	
1994-03-09	D	72019	150.18		1	S	
1999-02-19	D	62610	3390.73	NGVD29	1	S	USGS
1999-02-19	D	62611	3392.30	NAVD88	1	S	USGS
1999-02-19	D	72019	150.70		1	S	USGS
2015-12-16 19:40 UTC	m	62610	3381.50	NGVD29	P	S	USGS
2015-12-16 19:40 UTC	m	62611	3383.07	NAVD88	P	S	USGS
2015-12-16 19:40 UTC	m	72019	159.93		P	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Last Modified: 2023-06-05 13:30:03 EDT


0.39 0.35 nadww02

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
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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 00478 POD1	1	1	4	05	19S	28E	575300	3617036*		
<hr/>											
Driller License:	406	Driller Company:				TIDWELL, CLYDE J.					
Driller Name:	CLYDE TIDWELL										
Drill Start Date:	12/12/1969	Drill Finish Date:				12/23/1969		Plug Date:			
Log File Date:	01/02/1970	PCW Rev Date:				11/01/1971		Source:		Shallow	
Pump Type:	SUBMER	Pipe Discharge Size:						Estimated Yield:		7 GPM	
Casing Size:	7.00	Depth Well:				312 feet		Depth Water:		145 feet	
<hr/>											
Water Bearing Stratifications:				Top	Bottom	Description					
				150	160	Sandstone/Gravel/Conglomerate					
				200	262	Sandstone/Gravel/Conglomerate					
<hr/>											
Casing Perforations:				Top	Bottom						
				140	262						

*UTM location was derived from PLSS - see Help

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6/5/23 11:25 AM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324339104131901

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324339104131901 18S.28E.30.111123

Eddy County, New Mexico
Latitude 32°43'39", Longitude 104°13'19" NAD27
Land-surface elevation 3,570 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1948-12-02			D 62610		3431.37	NGVD29	P		Z	
1948-12-02			D 62611		3432.95	NAVD88	P		Z	
1948-12-02			D 72019	137.05			P		Z	
1983-04-13			D 62610		3475.77	NGVD29	1		Z	
1983-04-13			D 62611		3477.35	NAVD88	1		Z	
1983-04-13			D 72019	92.65			1		Z	
1989-02-22			D 62610		3475.17	NGVD29	1		Z	
1989-02-22			D 62611		3476.75	NAVD88	1		Z	
1989-02-22			D 72019	93.25			1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet

Section	Code	Description
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels
URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=324339104131901&agency_cd=USGS&format=html)



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0.29 0.25 nadww02



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 00361 POD1	3	1	3	09	19S	28E	576094	3615246*

x

Driller License:

Driller Company:

Driller Name: LOWE DRILLING CO.

Drill Start Date: 04/19/1971

Drill Finish Date: 05/13/1966

Plug Date:

Log File Date: 05/25/1971

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 8.63

Depth Well: 365 feet

Depth Water: 265 feet

Water Bearing Stratifications:	Top	Bottom	Description
	265	365	

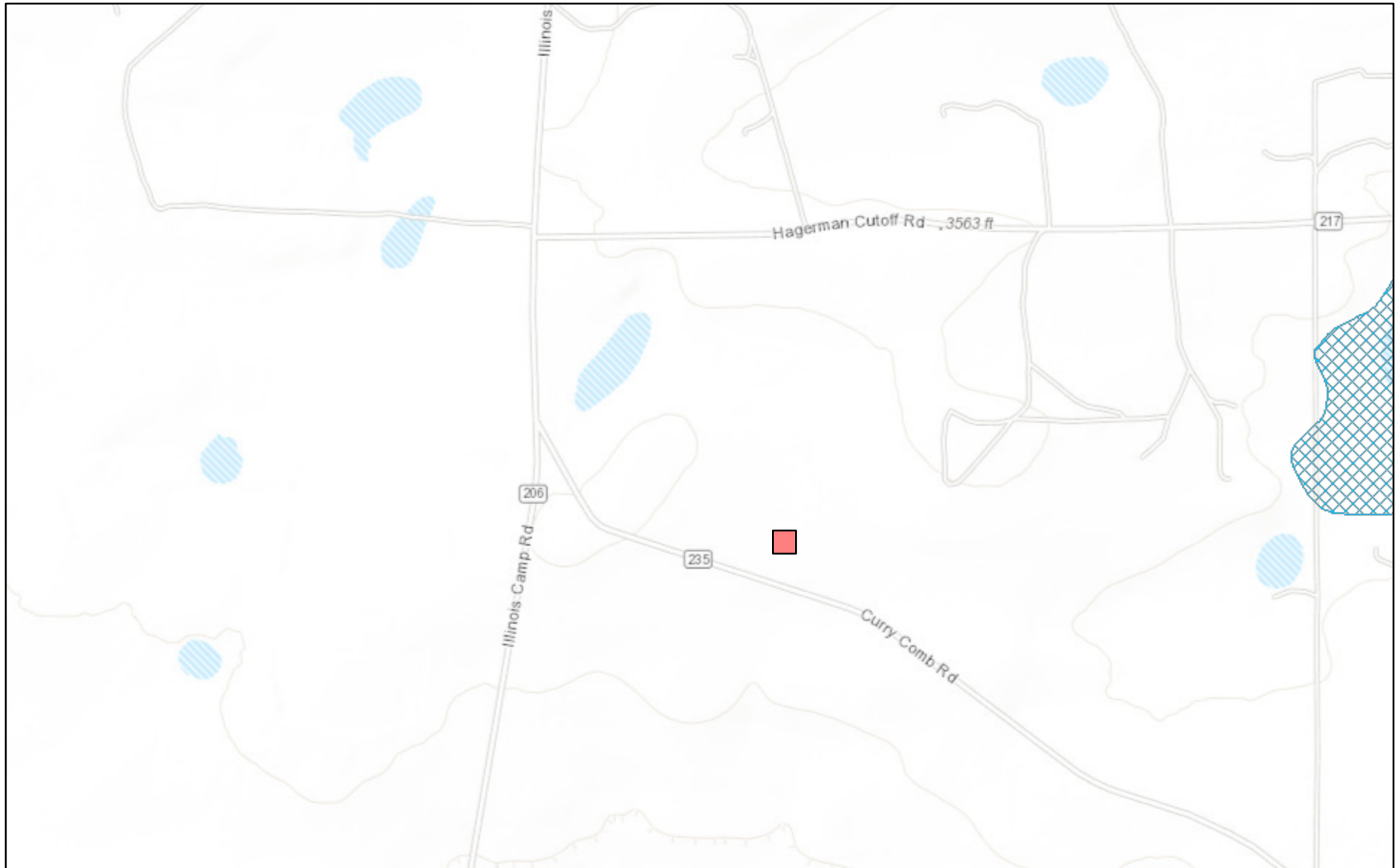
Casing Perforations:	Top	Bottom
	288	348

x

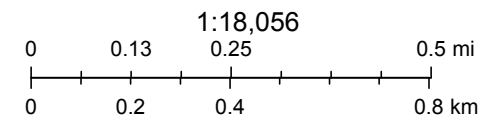
*UTM location was derived from PLSS - see Help

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New Mexico NFHL Data



June 5, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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

CONDITIONS

Action 259492

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 259492
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	9/13/2023