

#### SITE INFORMATION

Closure Report Sterling 1H 2H CTB Incident ID: NAPP2330544013 Unit O Sec 17 T23S R27E 32.2981054°, -104.2084016° Eddy County, New Mexico

**Crude Oil Release** 

Point of Release: Failure on Separator Sight Glass Valve

Release Date: 10.29.23

Volume Released: 11.1 Barrels of Crude Oil Volume Recovered: 11.1 Barrels of Crude Oil

# CARMONA RESOURCES



Prepared for: Marathon Oil Corporation 990 Town and Country Blvd, Houston, Texas 77024

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



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November 13, 2023

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

**Re:** Closure Report

Sterling 1H 2H CTB Marathon Oil Corporation Incident ID: NAPP2330544013

Site Location: Unit O, S17, T23S, R27E (Lat 32.2981054°, Long -104.2084016°)

**Eddy County, New Mexico** 

Mr. Bratcher:

On behalf of Marathon Oil Corporation, Carmona Resources, LLC has prepared this letter to document the Sterling 1H 2H CTB site activities. The site is located at 32.2981054°, -104.2084016° within Unit O, S17, T23S, R27E, 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 incident was discovered on October 29, 2023, due to a failure on the valve to a sight glass off a separator. The incident released approximately eleven point one (11.1) barrels of crude oil, with eleven point one (11.1) barrels of crude oil recovered. All fluids were contained within the lined facility. 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 high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest well is located approximately 0.63 miles southeast of the site in S21, T23S, R27E and was drilled in 1983. The well has a reported groundwater depth of 163.27 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix C.

#### 3.0 NMAC Regulatory Criteria

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**

On November 7, 2023, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Prior to the liner inspection, the NMOCD division office was notified via email on November 2, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix B. Carmona Resources, LLC personnel inspected the liner visually and found it to be intact with no integrity issues. Refer to the Photolog.

310 West Wall Street, Suite 500 Midland TX, 79701 432.813.1992

#### **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 Marathon formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

Mike Carmona

**Environmental Manager** 

Clinton Merritt Sr. Project Manager

> 310 West Wall Street, Suite 500 Midland TX, 79701 432.813.1992

# **FIGURES**

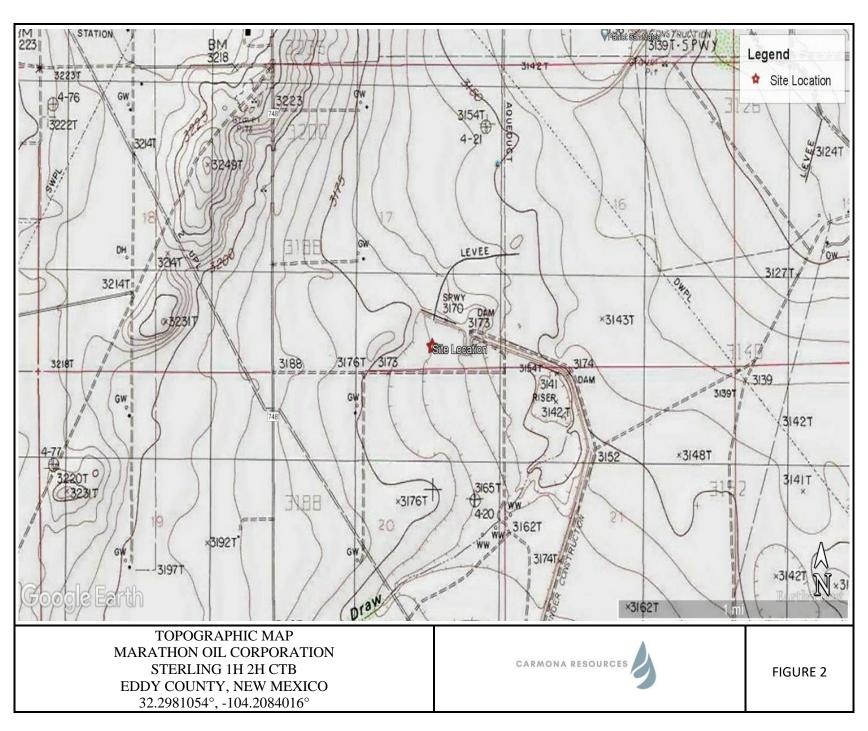
# CARMONA RESOURCES

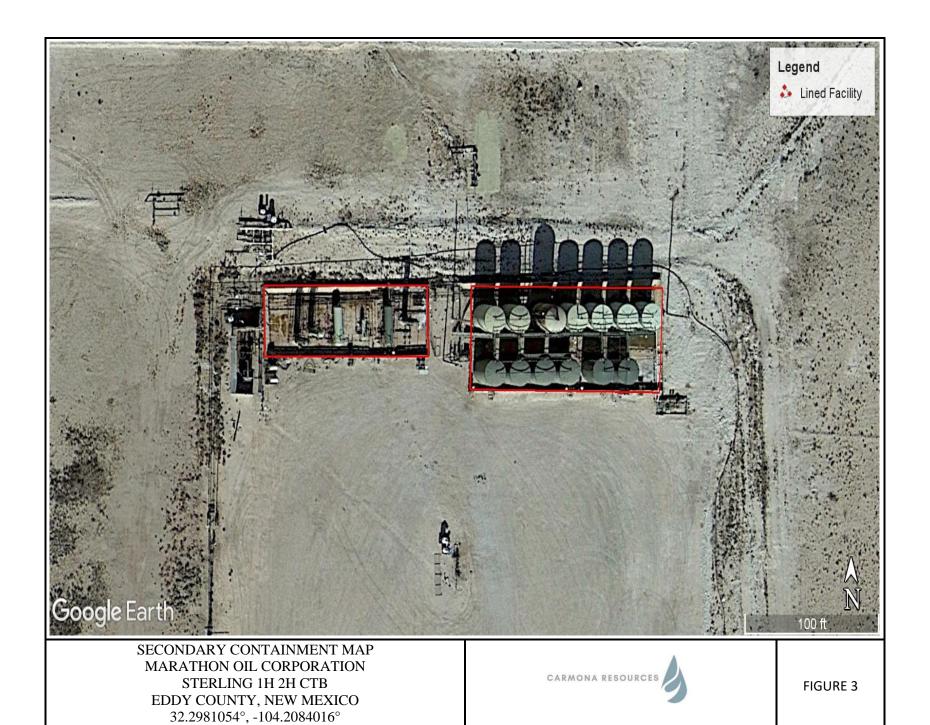


MARATHON OIL CORPORATION STERLING 1H 2H CTB EDDY COUNTY, NEW MEXICO 32.2981054°, -104.2084016°

CARMONA RESOURCES

FIGURE 1





# **APPENDIX A**

# CARMONA RESOURCES

#### **PHOTOGRAPHIC LOG**

#### **Marathon Oil Corporation**

#### Photograph No. 1

Facility: Sterling 1H 2H CTB

County: Eddy County, New Mexico

**Description:** 

View Northeast, facility signage.



#### Photograph No. 2

Facility: Sterling 1H 2H CTB

County: Eddy County, New Mexico

**Description:** 

View East, area of lined facility.



#### Photograph No. 3

Facility: Sterling 1H 2H CTB

County: Eddy County, New Mexico

**Description:** 

View West, area of lined facility.



#### PHOTOGRAPHIC LOG

#### **Marathon Oil Corporation**

#### Photograph No. 4

Facility: Sterling 1H 2H CTB

County: Eddy County, New Mexico

**Description:** 

View North, area of lined facility.



#### Photograph No. 5

Facility: Sterling 1H 2H CTB

County: Eddy County, New Mexico

**Description:** 

View West, area of lined facility.



#### Photograph No. 6

Facility: Sterling 1H 2H CTB

County: Eddy County, New Mexico

**Description:** 

View Northwest, area 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	nAPP2330544013
District RP	
Facility ID	fAPP2126332399
Application ID	

### **Release Notification**

#### **Responsible Party**

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD) nAPP2330544013
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

#### Location of Release Source

			Location	i oi Keleas	e Source		
Latitude 32.	2981054		Longitude (NAD 83 in d	-104.2 ecimal degrees to	084016 5 decimal places)		
Site Name St	erling 1H 2	н ств		Site T	ype Oil & Gas TB		
Date Release	Discovered	: 10/29/23		Facili	ty# fAPP2126332399		
Unit Letter	Section	Township	Range		County		
О	17	23S	27E	Eddy			
Crude Oi		l(s) Released (Select a Volume Release	ll that apply and attac		of Release  Decific justification for the volumes provided below)  Volume Recovered (bbls)11.1		
Crude Oi				en calculations or sp			
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)		
Is the concentration of dissolved chloride in produced water >10,000 mg/l?		chloride in the	☐ Yes ☐ No				
Condensa	ate	Volume Release	ed (bbls)		Volume Recovered (bbls)		
☐ Natural C	das	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (de	escribe)	Volume/Weight	Released (provi	de units)	Volume/Weight Recovered (provide units)		
the release of	rived on loo of approx. 1	1.1 bbl. of oil wit	hin the lined, sec	ondary contai	valve to the sight glass off the separator that resulted in nment. Standing fluid was too shallow to recover and was liner integrity inspection.		

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Incident ID	nAPP2330544013
District RP	
Facility ID	fAPP2126332399
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 respon	sible party consider this a major release?
If YES, was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
Released materials ha	s been secured to protect human health and	kes, absorbent pads, or other containment devices.
	d above have <u>not</u> been undertaken, explain w	mediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial e	fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environmental to adequately investigated	required to report and/or file certain release notified. The acceptance of a C-141 report by the Otate and remediate contamination that pose a threat	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have t to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Mel	odie Sanjari	Title: <u>Environmental Professional</u>
Signature: Melod	<u>lie Sanjari</u>	Date: <u>11/1/23</u>
email: <u>msanjari@marat</u>	thonoil.com	Telephone: <u>575-988-8753</u>
OCD Only		
Received by: _Shelly Wel	Us	Date: <u>11/1/2023</u>

Received by OCD: 11/13/2023 4:21:26 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

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Incident ID	
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#### **Site Assessment/Characterization**

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$ 

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ 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 <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	ls.

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.

Received by OCD: 11/13/2023 4:21:26 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by: Shelly Wells	Date: 11/13/2023

Received by OCD: 11/13/2023 4:21:26 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

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### 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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confidence with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially notitions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name:	
Signature:	Date:
email:	Telephone:
OCD Only	
Received by: _Shelly Wells	Date: <u>11/13/2023</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

### **MRO Spill Calculation Tool**

Standing Liquid Inputs:							
		Width (ft.) (Area					
		for	Avg. Liquid		Total Volume	Water Volume	Oil Volume
	Length (ft.)	Displacement)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Rectangle Area #1	30	50	0.5		11.13	11.13	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
				Liquid Volume:	11.13	11.13	0.00
Saturated Soil Inputs:		Soil Type:	Gravel Loam Avg. Saturated	]	Total Volume	Water Volume	Oil Volume
	Length (ft.)	Width (ft.)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Rectangle Area #1	- 0- (-,		I ,		0.00	0.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Rectangle Area #7					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
Nectangle Alea #0				Saturated Volume	0.00	0.00	0.00
				Saturatea Volume	0.00	0.00	0.00
					Total Volume	Water Volume	Oil Volume
					(bbls)	(bbls)	(bbls)
			Total St	oill Volume (bbls):	11.13	11.13	0.00
				pill Volume (gals):	467.53	467.53	0.00
omments:				on ordino (guio).	107100	107100	0.00
Jillileitts.							
			Color Key:	Required Input	Supplemental	No Input	
			•	Cells	Input Cells	(Calculations)	No Input
					·	· ·	
		Gro	ound/Vegetation	on Overspray			
over Type		Microns	Approximate D	epth (in)			
Ground							
Oull Color		10	0.00003281				
Park Color			0.00016404				
a. K. Coloi		30	0.00010404				

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

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 281817

#### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	281817
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created	By Condition	Condition Date
scwell	None	11/1/2023

From: Wells, Shelly, EMNRD

Sent: Thursday, November 2, 2023 4:44 PM

**To:** Clint Merritt

Cc: Melodie Sanjari; Castro, Isaac (MRO); Mike Carmona; Conner Moehring; Devin Dominguez; Hamlet,

Robert, EMNRD; Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] Marathon - Sterling 1H 2H CTB - Liner Inspection Notification

Hi Clinton,

The OCD has received your notification. 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.

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505 (505)469-7520 | Shelly. Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Clint Merritt < Merritt C@carmonaresources.com>

Sent: Thursday, November 2, 2023 3:37 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

**Cc:** Melodie Sanjari <a href="mailto:msanjari@marathonoil.com">msanjari@marathonoil.com</a>; Castro, Isaac (MRO) <a href="mailto:scatro@marathonoil.com">marathonoil.com</a>;

Mike Carmona < Mcarmona@carmonaresources.com >; Conner Moehring

<Cmoehring@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>

**Subject:** [EXTERNAL] Marathon - Sterling 1H 2H CTB - Liner Inspection Notification

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

Good Afternoon,

This email is a notification for a liner inspection for the Marathon — Sterling 1H 2H CTB. The inspection is scheduled to begin on <u>Tuesday</u>, <u>November 7<sup>th</sup></u>, around 10:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to document and inspect the liner inside of the facility.

nAPP2330544013

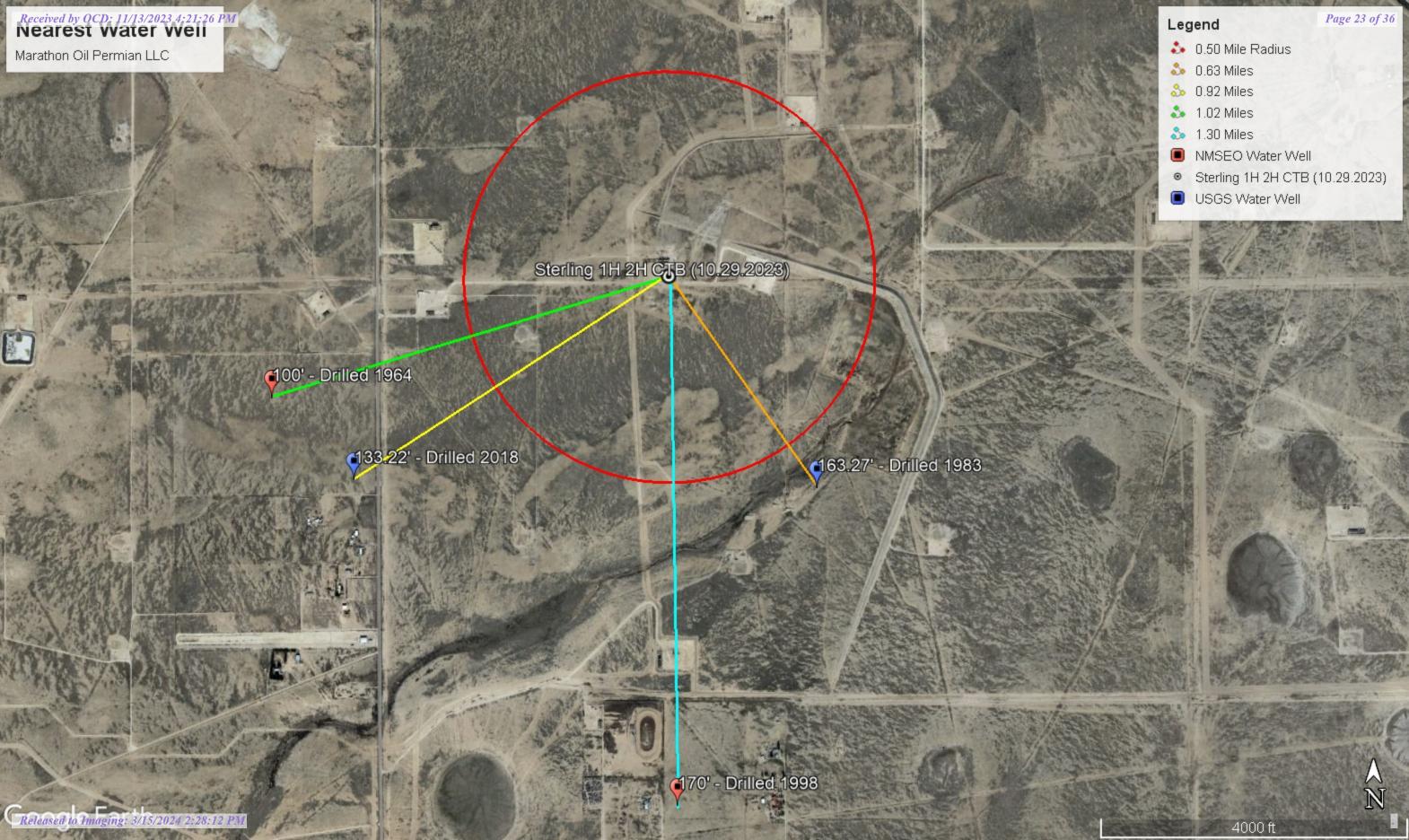
Please call if you have any questions.

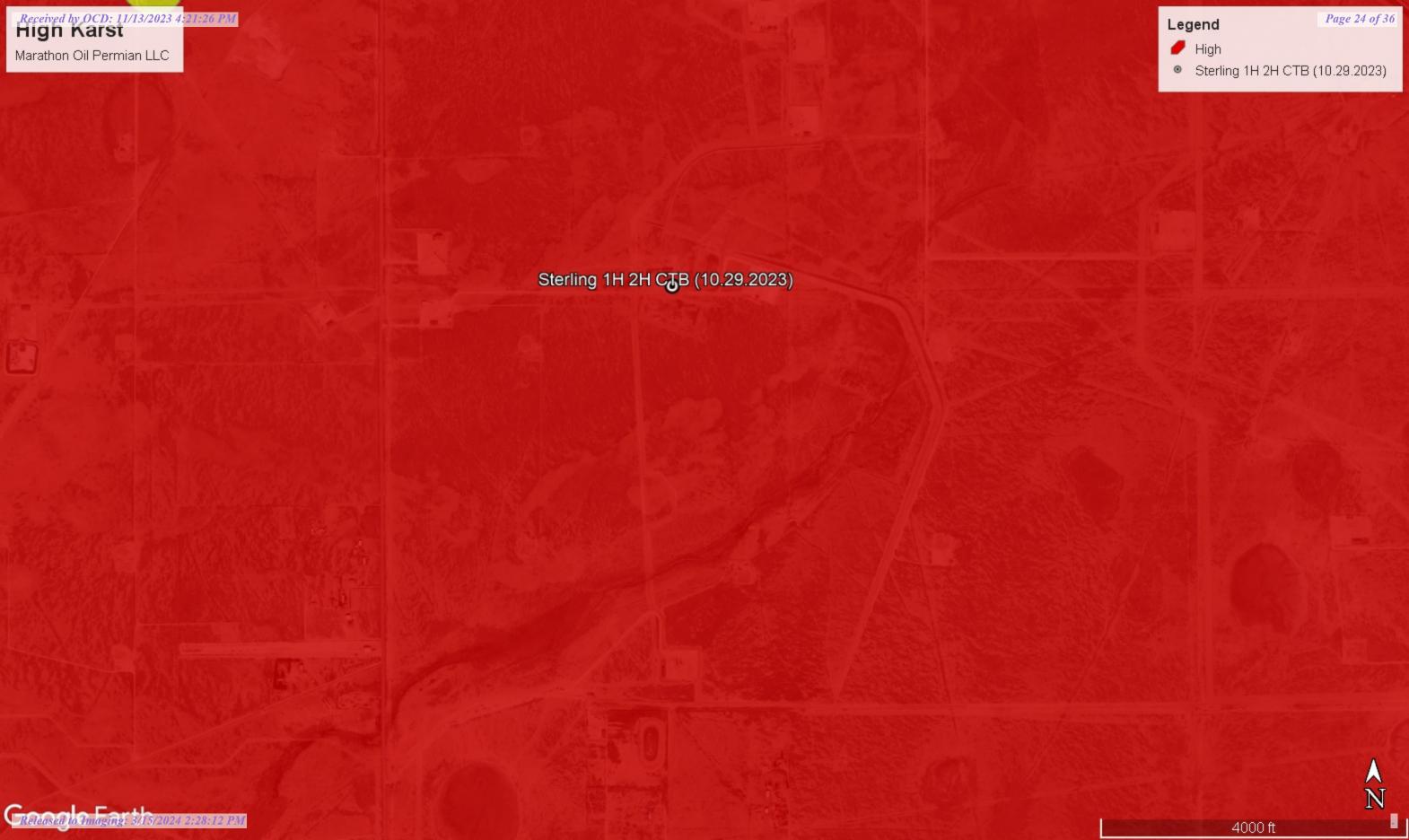
Clinton Merritt
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-9044
MerrittC@carmonaresources.com



# **APPENDIX C**

# CARMONA RESOURCES







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

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

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

(In feet)

water right file.)	closed)	(0	quar	ers	are s	malles	st to large	est) (N	IAD83 UTM in me	eters)	(	In feet)	
	POD Sub-		0	Q Q							Donth	Danth	Water
POD Number	Code basin	County	-			Tws	Rng	Х	Υ	Distance	-	-	Water Column
<u>C 01261</u>	CUB	ED			21	23S	27E	575780	3572889* 🌑	1521	250		
C 01195	С	ED		2	19	23S	27E	572958	3573260* 🌕	1646	180	100	80
<u>C 01781</u>	С	ED		2 4	19	23S	27E	573161	3572659* 🌕	1752			
C 01781 POD2	С	ED		2 4	19	23S	27E	573161	3572659* 🌕	1752	210		
C 01781 POD3	С	ED		2 4	19	23S	27E	573161	3572659* 🌕	1752	210		
C 01618	С	ED	4	4 4	07	23S	27E	573252	3575384* 🌍	2070	250		
C 02377	С	ED		2	29	23S	27E	574575	3571666* 🌍	2088	232	170	62
C 03005	С	ED	3	4 4	07	23S	27E	573052	3575384* 🌍	2199	140	100	40
C 04044 POD1	CUB	ED	3	2 3	09	23S	27E	575504	3575907 🌍	2363	290	150	140
C 02453	С	ED	4	4 2	29	23S	27E	574876	3571372* 🌍	2407	210	175	35
C 03301	С	ED	3	3 4	07	23S	27E	572597	3575268 🎒	2454	375		
C 01632	С	ED	3	2 4	07	23S	27E	573050	3575789* 🎒	2515	162	100	62
C 01632 CLW197648	O C	ED	3	2 4	07	23S	27E	573050	3575789* 🌕	2515	162	100	62
C 01632 POD2	С	ED	3	2 4	07	23S	27E	573050	3575789* 🌕	2515	173	100	73
C 02112	С	ED	1	3 4	13	21S	24E	573831	3571337 🌍	2515	182	119	63
C 04429 POD1	С	ED	4	4 1	80	23S	27E	574102	3576270 🌕	2552	400	350	50
C 00195	CUB	ED	4	1 4	09	23S	27E	576069	3575827* 🌕	2582	128	83	45
<u>C 01071</u>	С	ED		1	08	23S	27E	573751	3576499* 🌕	2852	279	95	184
C 02191	С	ED		1	08	23S	27E	573751	3576499* 🌕	2852	252	75	177
C 04581 POD1	С	ED	3	1 1	09	23S	27E	575167	3576589 🌕	2906	165	109	56
<u>C 00187</u>	С	ED	1	1 4	15	23S	27E	577380	3574509 🌕	2949	210	125	85
C 00623	С	ED		2 1	15	23S	27E	577189	3575142* 🌕	3000	200		
C 03736 POD1	С	ED	2	2 4	13	23S	26E	571677	3574793 🌕	3035			
C 02300	CUB	ED		3	07	23S	27E	572160	3575676* 🌕	3050	402		
C 03892 POD1	С	ED	1	2 1	80	23S	27E	573846	3576764 🌕	3086	148	54	94
C 02510	С	ED	1	2 1	08	23S	27E	573848	3576806* 🌍	3126	350	350	0

\*UTM location was derived from PLSS - see Help

(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

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

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

33 UTM in meters) (In feet)

water right file.)	close	d)	(c	quar	ters	are	smalle	st to lar	gest)	(NA	AD83 UTM in me	ters)	(I	n feet)	
POD Number	Code	POD Sub-	County		Q (		c Tws	Rna		x	Y	Distance	-	-	Water Column
C 00508 CLW225089	0	CUB	ED	4			0 238		5768		3575839*	3140	234	28	206
C 02326		С	ED		2	2 0	7 23S	27E	5729	48	3576491* 🌍	3160	140	99	41
<u>C 00420</u>	С	CUB	ED		4 2	2 0	9 23S	27E	5763	70	3576337* 🌍	3171	2151		
C 00508 S		CUB	ED	2	1 :	3 1	0 23S	27E	5768	77	3576039* 🌍	3276	234	28	206
C 00068 CLW193190	0	CUB	ED	3	3	1 1	0 23S	27E	5766	73	3576241* 🌕	3283	175		
<u>C 02835</u>		CUB	ED	3	4 ′	1 3	0 23S	27E	5722	58	3571338* 🌕	3315	228		
<u>C 01847</u>		С	ED		1 3	3 0	7 23S	27E	5719	56	3575878* 🌕	3336	300		
C 01847 POD2		С	ED		1 :	3 0	7 23S	27E	5719	56	3575878* 🎒	3336	243		
<u>C 00323</u>		С	ED		4 4	4 0	5 23S	27E	5747	50	3577122* 🌍	3374	200		
<u>C 02711</u>		С	ED		4 4	4 0	5 23S	27E	5747	50	3577122* 🎒	3374	170	75	95
<u>C 03020</u>		С	ED		4 4	4 0	5 23S	27E	5747	50	3577122* 🎒	3374	176	135	41
<u>C 00068</u>		CUB	ED	1	3 ′	1 1	0 23S	27E	5766	73	3576441*	3437	175		
C 03799 POD1		С	ED	1	3 3	3 0	4 23S	27E	5749	81	3577170 🌍	3445	200	51	149
C 04453 POD1		С	ED	3	2 ′	1 0	7 23S	27E	5724	75	3576566 🌍	3482	250	70	180
<u>C 01825</u>		С	ED		3 2	2 1	3 23S	26E	5711	51	3574670*	3499	243	221	22
C 00109 CLW203096	0	CUB	ED	1	3 3	3 0	4 23S	27E	5750	51	3577226* 🌍	3510	260		
<u>C 02710</u>		С	ED		4	4 0	5 23S	27E	5745	50	3577318*	3563	200	72	128
C 03653 POD1		С	ED	2	4 4	4 0	5 23S	27E	5747	57	3577331 🌍	3584	220	180	40
<u>C 01083</u>		С	ED		4 2	2 1	5 23S	27E	5780	03	3574751 🌍	3614	325	45	280
<u>C 00508</u>		CUB	ED	3	1 4	4 1	0 23S	27E	5774	87	3575855* 🌍	3628	190		
<u>C 03010</u>		С	ED	2	2 4	4 1	2 23S	26E	5716	49	3575978* 🌍	3638	140	130	10
<u>C 01857</u>		С	ED			1	3 23S	26E	5709	49	3574465* 🌍	3649	255	197	58
<u>C 02232</u>		С	ED			1	3 23S	26E	5709	49	3574465* 🌍	3649	240	200	40
<u>C 02448</u>		С	ED		2 4	4 1	2 23S	26E	5715	50	3575879* 🌍	3658	140	127	13
C 04331 POD1		С	ED	2	2 4	4 1	2 23S	26E	5716	32	3575997 🌍	3663	170	133	37
C 00259 S		CUB	ED	1	1 3	3 3	0 23S	27E	5718	74	3571131* 🌍	3732	204		
<u>C 02834</u>		CUB	ED	1	1 3	3 3	0 23S	27E	5718	74	3571131* 🌍	3732	310	176	134
C 04591 POD1		С	ED	3	2 ′	1 0	7 23S	27E	5721	68	3576690 🌕	3767	300		
<u>C 00296</u>		С	ED		1 4	4 0	5 23S	27E	5743	45	3577519* 🌕	3769	225		

\*UTM location was derived from PLSS - see Help

11/2/23 1:39 PM

Page 2 of 3

WATER COLUMN/ AVERAGE DEPTH TO WATER

(In feet)

(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)

		OD ub-	Q	Q	Q							Depth	Depth	Water
POD Number	Code ba	sin County	64	16	4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
C 01672		C ED		4	3	13	23S	26E	570750	3573861*	3780	280	80	200
C 03961 POD1		C ED	1	2	4	12	23S	26E	571522	3576070 🌕	3795	280		
C 00518 POD2	С	UB ED	2	4	4	22	23S	27E	578105	3572431* 🎒	3813	220	98	122
<u>C 01905</u>		C ED		2	3	13	23S	26E	570749	3574267* 🎒	3814	300		
C 03071		C ED		2	3	13	23S	26E	570749	3574267* 🎒	3814	250	204	46
<u>C 01678</u>		C ED	3	3	4	12	23S	26E	571048	3575379* 🎒	3841		350	
<u>C 00518</u>	С	UB ED	1	1	3	23	23S	27E	578310	3572840* 🎒	3890	178		
C 02484 EXPL	С	UB ED		4	1	13	23S	26E	570747	3574672* 🎒	3891	280	175	105
<u>C 03348</u>		C ED	1	3	3	13	23S	26E	570606	3573938 🎒	3927	240	200	40
C 03766 POD1		C ED	3	3	1	14	23S	27E	578373	3574609 🎒	3938	260	25	235
<u>C 01642</u>		C ED	2	2	1	13	23S	26E	570845	3575177* 🎒	3948	303		
<u>C 03060</u>		C ED	4	4	4	10	23S	27E	578098	3575460 🎒	3955	139	87	52
C 03488 POD1		C ED	4	3	1	23	23S	27E	578430	3573023 🎒	3969	217	122	95
<u>C 02151</u>		C ED		4	3	06	23S	27E	572341	3577095* 🎒	3993	196	130	66
C 00231 AS	С	UB ED	4	1	1	23	23S	27E	578512	3573447* 🌑	3995	230	100	130
C 00498	С	UB ED	4	1	1	23	23S	27E	578512	3573447* 🎒	3995	210	120	90
C 00498 CLW194833	ОС	UB ED	4	1	1	23	23S	27E	578512	3573447* 🌕	3995	165	80	85

Average Depth to Water: 129 feet

> Minimum Depth: 25 feet

Maximum Depth: 350 feet

Record Count: 72

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

Radius: 4000 **Easting (X):** 574528.8 Northing (Y): 3573754.31

#### \*UTM location was derived from PLSS - see Help

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**USGS** Water Resources



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- 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 =

• 321726104120801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321726104120801 23S.27E.20.42220

Eddy County, New Mexico

Latitude 32°17'26", Longitude 104°12'08" NAD27

Land-surface elevation 3,162 feet above NAVD88

The depth of the well is 192 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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 (measure
1981-05-14		D	62610		2997.28	NGVD29	1	Z		
1981-05-14		D	62611		2998.92	NAVD88	1	Z		
1981-05-14		D	72019	163.08			1	Z		
1983-02-02		D	62610		2997.09	NGVD29	1	Z		
1983-02-02		D	62611		2998.73	NAVD88	1	Z		
1983-02-02		D	72019	163.27			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
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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- 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 =

• 321727104131801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321727104131801 23S.27E.19.421232

Eddy County, New Mexico

Latitude 32°17'27", Longitude 104°13'18" NAD27

Land-surface elevation 3,190 feet above NAVD88

The depth of the well is 180 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### **Output formats**

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

Parameter   Para	Reselect perior	<u>a</u>									
1966-01-05       D       62611       3034.89       NAVD88       1       Z         1966-01-05       D       72019       155.11       1       Z         1967-01-19       D       62610       3033.08       NGVD29       1       Z         1967-01-19       D       62611       3034.72       NAVD88       1       Z         1967-01-19       D       72019       155.28       1       Z         1968-01-26       D       62610       3033.20       NGVD29       1       Z         1968-01-26       D       62611       3034.84       NAVD88       1       Z         1968-01-26       D       72019       155.16       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       62611       3035.34       NAVD88       1       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z	Date	Time	Water- level date- time	Parameter	level, feet below land	level, feet above specific vertical	vertical		Method of	? Measuring agency	? Source measur
1966-01-05       D       62611       3034.89       NAVD88       1       Z         1966-01-05       D       72019       155.11       1       Z         1967-01-19       D       62610       3033.08       NGVD29       1       Z         1967-01-19       D       62611       3034.72       NAVD88       1       Z         1967-01-19       D       72019       155.28       1       Z         1968-01-26       D       62610       3033.20       NGVD29       1       Z         1968-01-26       D       62611       3034.84       NAVD88       1       Z         1968-01-26       D       72019       155.16       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       62611       3035.34       NAVD88       1       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z											
1966-01-05       D       72019       155.11       1       Z         1967-01-19       D       62610       3033.08       NGVD29       1       Z         1967-01-19       D       62611       3034.72       NAVD88       1       Z         1967-01-19       D       72019       155.28       1       Z         1968-01-26       D       62610       3033.20       NGVD29       1       Z         1968-01-26       D       62611       3034.84       NAVD88       1       Z         1968-01-26       D       72019       155.16       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       72019       154.66       NGVD29       1       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z	1966-01-05		D	62610		3033.25	NGVD29	1	Z		
1967-01-19       D       62610       3033.08       NGVD29       1       Z         1967-01-19       D       62611       3034.72       NAVD88       1       Z         1967-01-19       D       72019       155.28       -       -       1       Z         1968-01-26       D       62610       3033.20       NGVD29       1       Z         1968-01-26       D       62611       3034.84       NAVD88       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       62611       3035.34       NAVD88       1       Z         1969-01-28       D       72019       154.66       I       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z	1966-01-05		D	62611		3034.89	NAVD88	1	Z		
1967-01-19       D       62611       3034.72       NAVD88       1       Z         1967-01-19       D       72019       155.28       1       Z         1968-01-26       D       62610       3033.20       NGVD29       1       Z         1968-01-26       D       62611       3034.84       NAVD88       1       Z         1968-01-26       D       72019       155.16       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       62611       3035.34       NAVD88       1       Z         1969-01-28       D       72019       154.66       NGVD29       1       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z	1966-01-05		D	72019	155.11			1	Z		
1967-01-19       D       72019       155.28       1       Z         1968-01-26       D       62610       3033.20       NGVD29       1       Z         1968-01-26       D       62611       3034.84       NAVD88       1       Z         1968-01-26       D       72019       155.16       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       62611       3035.34       NAVD88       1       Z         1969-01-28       D       72019       154.66       1       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z	1967-01-19		D	62610		3033.08	NGVD29	1	Z		
1968-01-26       D       62610       3033.20       NGVD29       1       Z         1968-01-26       D       62611       3034.84       NAVD88       1       Z         1968-01-26       D       72019       155.16       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       62611       3035.34       NAVD88       1       Z         1969-01-28       D       72019       154.66       1       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z	1967-01-19		D	62611		3034.72	NAVD88	1	Z		
1968-01-26 D 62611 3034.84 NAVD88 1 Z 1968-01-26 D 72019 155.16	1967-01-19		D	72019	155.28			1	Z		
1968-01-26       D       72019       155.16       1       Z         1969-01-28       D       62610       3033.70       NGVD29       1       Z         1969-01-28       D       62611       3035.34       NAVD88       1       Z         1969-01-28       D       72019       154.66       1       Z         1970-01-20       D       62610       3032.54       NGVD29       1       Z	1968-01-26		D	62610		3033.20	NGVD29	1	Z		
1969-01-28     D     62610     3033.70     NGVD29     1     Z       1969-01-28     D     62611     3035.34     NAVD88     1     Z       1969-01-28     D     72019     154.66     1     Z       1970-01-20     D     62610     3032.54     NGVD29     1     Z	1968-01-26		D	62611		3034.84	NAVD88	1	Z		
1969-01-28 D 62611 3035.34 NAVD88 1 Z 1969-01-28 D 72019 154.66 1 Z 1970-01-20 D 62610 3032.54 NGVD29 1 Z	1968-01-26		D	72019	155.16			1	Z		
1969-01-28 D 72019 154.66 1 Z 1970-01-20 D 62610 3032.54 NGVD29 1 Z	1969-01-28		D	62610		3033.70	NGVD29	1	Z		
1970-01-20 D 62610 3032.54 NGVD29 1 Z	1969-01-28		D	62611		3035.34	NAVD88	1	Z		
	1969-01-28		D	72019	154.66			1	Z		
	1970-01-20		D	62610		3032.54	NGVD29	1	Z		
19/0-01-20 D 62611 3034.18 NAVD88 1 Z	1970-01-20		D	62611		3034.18	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy		? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	ve	eferenced rtical tum
1970-01-20	D	72019	155.8	32		1	Z	
1974-01-22	D	62610	133.	3031.74	NGVD29	1	Z	
1974-01-22	D	62611		3033.38	NAVD88	1	Z	
1974-01-22	D	72019	156.	52		1	Z	
1975-01-29	D	62610		3032.27	NGVD29	1	Z	
1975-01-29	D	62611		3033.91	NAVD88	1	Z	
1975-01-29	D	72019	156.	09		1	Z	
1976-01-13	D	62610		3033.22	NGVD29	1	Z	
1976-01-13	D	62611		3034.86	NAVD88	1	Z	
1976-01-13	D	72019	155.	14		1	Z	
1977-02-01	D	62610		3032.96	NGVD29	1	Z	
1977-02-01	D	62611		3034.60	NAVD88	1	Z	
1977-02-01	D	72019	155.	40		1	Z	
1978-01-23	D	62610		3032.96	NGVD29	1	Z	
1978-01-23	D	62611		3034.60	NAVD88	1	Z	
1978-01-23	D	72019	155.	40		1	Z	
1983-01-25	D	62610		3032.71	NGVD29	1	Z	
1983-01-25	D	62611		3034.35	NAVD88	1	Z	
1983-01-25	D	72019	155.	55		1	Z	
1988-03-16	D	62610		3034.46	NGVD29	1	Z	
1988-03-16	D	62611		3036.10	NAVD88	1	Z	
1988-03-16	D	72019	153.9	90		1	Z	
1993-05-04	D	62610		3031.61	NGVD29	1	S	
1993-05-04	D	62611		3033.25	NAVD88	1	S	
1993-05-04	D	72019	156.	75		1	S	
1995-07-18	D	62610		3032.28	NGVD29	1	S	
1995-07-18	D	62611		3033.92	NAVD88	1	S	
1995-07-18	D	72019	156.	08		1	S	
1996-01-23	D	62610		3032.81	NGVD29	1	S	
1996-01-23	D	62611		3034.45	NAVD88	1	S	
1996-01-23	D	72019	155.	55		1	S	
1998-01-14	D	62610		3032.68	NGVD29	1	S	
1998-01-14	D	62611		3034.32	NAVD88	1	S	
1998-01-14	D	72019	155.	58		1	S	
2003-01-24	D	62610		3027.63	NGVD29	1	S	USGS
2003-01-24	D	62611		3029.27	NAVD88	1	S	USGS
2003-01-24	D	72019	160.	73		1	S	USGS
2018-02-01 00:14 UT	C m	62610		3055.14	NGVD29	1	V	USGS
2018-02-01 00:14 UT	C m	62611		3056.78	NAVD88	1	V	USGS
2018-02-01 00:14 UT	C m	72019	133.	22		1	V	USGS

Fynl	an	ati	n

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

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	?
Method of measurement	V	Calibrated electric-t	ape measurement.			
Method of measurement	Z	Other.				
Measuring agency		Not determined				
Measuring agency	USGS	U.S. Geological Surv	vey			
Source of measurement		Not determined				
Source of measurement	S	Measured by personnel of reporting agency.				
Water-level approval status	А	Approved for publication Processing and review completed.				

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Page Last Modified: 2023-11-02 15:56:59 EDT

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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

 $\mathbf{X}$ 

C 01195

23S 27E 572958 3573260\*

108 **Driller License:** 

**Driller Company:** 

SMITH, SAM S.

**Driller Name:** 

SMITH, SAM S.

**Drill Start Date:** 

07/01/1964

**Drill Finish Date:** 

07/15/1964

Plug Date:

Shallow

Log File Date:

08/14/1964 **PCW Rcv Date:**  Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

6.00

**Depth Well:** 

180 feet

Depth Water: 100 feet

Water Bearing Stratifications:

**Bottom Description** Top

168

173 Limestone/Dolomite/Chalk

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POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



# 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

23S 27E

 $\mathbf{X}$ 574575

3571666\*

**Driller License:** 1348

C 02377

**Driller Company:** 

TAYLOR WATER WELL SERVICE

**Driller Name:** 

**Drill Start Date:** 05/24/1998 **Drill Finish Date:** 

05/30/1998

Plug Date:

Shallow

Log File Date:

08/24/1998

**PCW Rcv Date:** 

Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

**Depth Well:** 

232 feet

Depth Water: 170 feet

Water Bearing Stratifications: **Bottom Description** Top

173 174 Limestone/Dolomite/Chalk 175 Other/Unknown

179 Other/Unknown 180

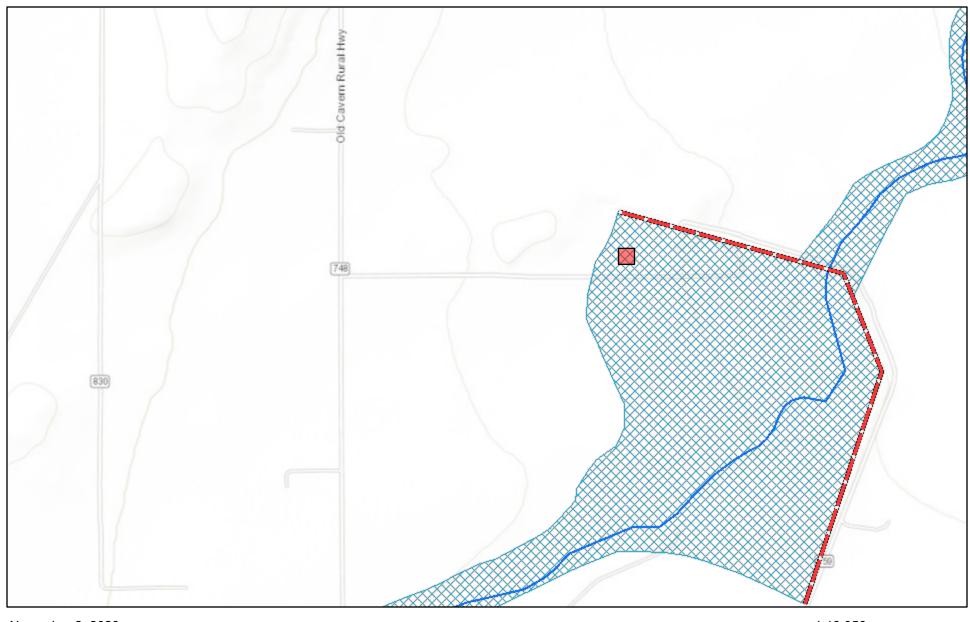
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/2/23 1:41 PM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help

### New Mexico NFHL Data



November 2, 2023

1:18,056 0 0.13 0.25 0.5 mi 1 0 0.2 0.4 0.8 km

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

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

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 284923

#### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	284923
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2330544013 STERLING 20 STATE TB, thank you. This Remediation Closure Report is approved.	3/15/2024