



March 2, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: 2025 Annual Groundwater Monitoring Report

Nell Hall #1
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: NAUTOFAB000417
NMOCD Administrative Order: 3RP-090

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2025 Annual Groundwater Monitoring Report* to the New Mexico Oil Conservation Division (NMOCD) to document groundwater monitoring activities conducted at the Nell Hall #1 natural gas production site (Site) during 2025. The Site is located on private land, approximately 2 miles west of Aztec, New Mexico in Section 7, Township 30 North, Range 11 West, San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

Petroleum-impacted soil was first discovered at the Site during the closure of an unlined dehydrator pit in 1994 by Conoco, Inc. (operator of the Site at the time and later ConocoPhillips Company). At the time of discovery, three monitoring wells, MW-1, MW-2, and MW-3, were installed at the Site to assess groundwater conditions and determine if groundwater had been impacted by the release. Conoco, Inc. also installed eight air-sparge wells (SP-1 through SP-8, see Figure 2) to introduce air into the water-bearing zone and enhance the volatilization and biodegradation of petroleum hydrocarbons in groundwater; however, no information or data in the historical Site reports indicated whether the air sparge wells were ever operated as intended.

Drought conditions in the 1990s and early 2000s resulted in a water table decline to an elevation below the screened intervals of the monitoring wells. As such, these wells have not been sampled since the early 2000s. In response, monitoring wells MW-4, MW-5, and MW-6 were installed in 2004 with 30 to 35 feet of slotted screen to accommodate significant water table fluctuations caused by seasonal variation and/or nearby irrigation. To further evaluate subsurface soil and groundwater quality downgradient of MW-6, two additional wells (MW-7 and MW-8) were installed in 2015.

Hilcorp acquired the Site from ConocoPhillips Company in August 2017 and continued groundwater monitoring in accordance with NMOCD-approved abatement requirements. Following recommendations presented in the *2021 Annual Groundwater Monitoring Report*, the

NMOCD approved modifications to the monitoring program, including reductions in sampling frequency as conditions warranted. Based on recommendations presented in the *2022 Annual Groundwater Monitoring Report* (May 21, 2024), the NMOCD approved the plugging and abandonment of air sparge wells SP-1 through SP-8 and monitoring wells MW-1 through MW-5, which were subsequently plugged and abandoned in June 2024. As part of the same approval, the NMOCD authorized continued semi-annual groundwater sampling and gauging of monitoring wells MW-6, MW-7, and MW-8 until all constituents of concern meet applicable standards.

SITE GROUNDWATER CLEANUP STANDARDS

The NMOCD requires groundwater quality standards be met as presented by the New Mexico Water Quality Control Commission (NMWQCC) and listed in Title 20, Chapter 6, Part 2, Section 3103 (20.6.2.3103) of the New Mexico Administrative Code (NMAC). The following standards are presented for the constituents of concern (COCs) at the Site in milligrams per liter (mg/L).

- Benzene: 0.005 mg/L
- Toluene: 1.0 mg/L
- Ethylbenzene: 0.70 mg/L
- Total Xylenes: 0.62 mg/L
- Dissolved Iron: 1.0 mg/L

GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Groundwater-level measurements were collected from monitoring wells MW-6, MW-7, and MW-8 during the April and November 2025 monitoring events. During the April 2025 event, insufficient groundwater volume was present in these wells to allow collection of groundwater samples or field parameters. In November 2025, sufficient groundwater was present, and groundwater samples and associated field parameters were successfully collected from wells MW-6, MW-7, and MW-8.

GROUNDWATER ELEVATIONS

Static groundwater levels were recorded using a Keck oil/water interface probe. The probe was decontaminated with Alconox[®] soap and rinsed with distilled water prior to each measurement to prevent cross-contamination.

Based on semiannual monitoring data, groundwater elevations exhibit seasonal variability, with higher elevations typically observed during the summer and fall months. In 2025, groundwater elevations measured in November were approximately 8 to 12 feet higher than those measured in April, consistent with historical seasonal trends and likely influenced by irrigation-related recharge in the surrounding area.

Measured depths to groundwater and calculated groundwater elevations are summarized in Table 1. The inferred groundwater flow direction has varied seasonally across the site. In April 2025 (Figure 3), groundwater flow was interpreted to be predominantly toward the southeast, while in November 2025 (Figure 4), the inferred flow direction shifted slightly toward the south. These variations are consistent with localized hydrologic influences and seasonal recharge conditions.

GROUNDWATER SAMPLING

Groundwater from each monitoring well was purged and sampled using a disposable bailer. Purging was accomplished by removing stagnant groundwater from the monitoring well prior to collecting a sample. Field measurements of groundwater quality parameters, including temperature, pH, electrical conductivity, and total dissolved solids were collected during the purging process and are presented in Table 2.

Following well purging, groundwater samples were placed directly into laboratory-provided containers and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Containers were immediately sealed and packed on ice to preserve samples. Samples were submitted to Eurofins Environmental Testing Laboratory (Eurofins) in Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United State Environmental Protection Agency (EPA) Method 8260B, and dissolved iron following EPA Method 200.7. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

GROUNDWATER ANALYTICAL RESULTS

During the April 2025 semiannual groundwater monitoring event, groundwater samples were not collected from monitoring wells MW-6, MW-7, and MW-8 due to insufficient water levels. Groundwater samples were successfully collected from all three wells during the November 2025 monitoring event.

Benzene was detected in groundwater from MW-6 during the November 2025 sampling event at a concentration of 0.010 mg/L, which was greater the NMWQCC groundwater standard . Ethylbenzene was also detected in MW-6 at a concentration of 0.014 mg/L; however, this concentration is less than the NMWQCC standard. Toluene and total xylenes were not detected above laboratory reporting limits in any of the sampled wells during 2025.

Dissolved iron was detected in MW-6 at a concentration of 1.1 mg/L during the November 2025 event, which is greater than the NMWQCC secondary groundwater standard. Dissolved iron concentrations in MW-7 and MW-8 were below the NMWQCC secondary groundwater standard.

Results of the November 2025 groundwater monitoring event indicate localized exceedances of benzene and secondary dissolved iron in MW-6, while groundwater analytical results from MW-7 and MW-8 remained compliant with NMWQCC groundwater standards. Analytical results are summarized in Table 3 and depicted on Figure 5. Complete laboratory analytical reports are provided in Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

Groundwater monitoring data indicate dissolved-phase petroleum hydrocarbon concentrations at the Site have decreased over time and are currently localized to monitoring well MW-6. BTEX constituents have not been detected above laboratory reporting limits in wells MW-7 and MW-8 for over ten years, and analytical results from 2025 confirm compliance with applicable NMWQCC groundwater standards.

Monitoring well MW-6 continues to exhibit benzene concentrations exceeding the NMWQCC groundwater standard; however, benzene concentrations have steadily declined since 2013 and

remain substantially lower than historical peak concentrations. Dissolved iron concentrations in MW-6 have also shown a long-term decreasing trend and are interpreted to be associated with localized reducing groundwater conditions related to petroleum hydrocarbon degradation. The absence of elevated BTEX or dissolved iron concentrations in downgradient wells indicates the groundwater plume remains stable, localized, and has not migrated beyond the vicinity of MW-6.

Based on current and historical Site data, monitored natural attenuation (MNA) remains an appropriate and effective remedial approach for managing residual benzene and dissolved iron concentrations in groundwater at MW-6. To continue evaluating groundwater conditions and confirm plume stability, Ensolum recommends continued semiannual groundwater sampling of wells MW-6, MW-7, and MW-8 for BTEX and dissolved iron. Wells MW-7 and MW-8 will continue to serve as compliance monitoring points to verify dissolved-phase constituents are not migrating downgradient. Upon achieving compliance with applicable NMWQCC groundwater standards in MW-6, quarterly groundwater sampling will be conducted until eight consecutive compliant sampling events are achieved.

Ensolum appreciates the opportunity to provide environmental services to Hilcorp. Please contact the undersigned with any questions regarding this report or the recommended monitoring approach.

Sincerely,

Ensolum, LLC

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Attachments:

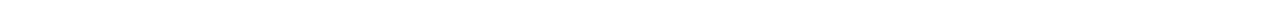
- Figure 1 Site Location Map
- Figure 2 Site Map
- Figure 3 April 2025 Groundwater Elevation Map
- Figure 4 November 2025 Groundwater Elevation Map
- Figure 5 2025 Groundwater Analytical Results

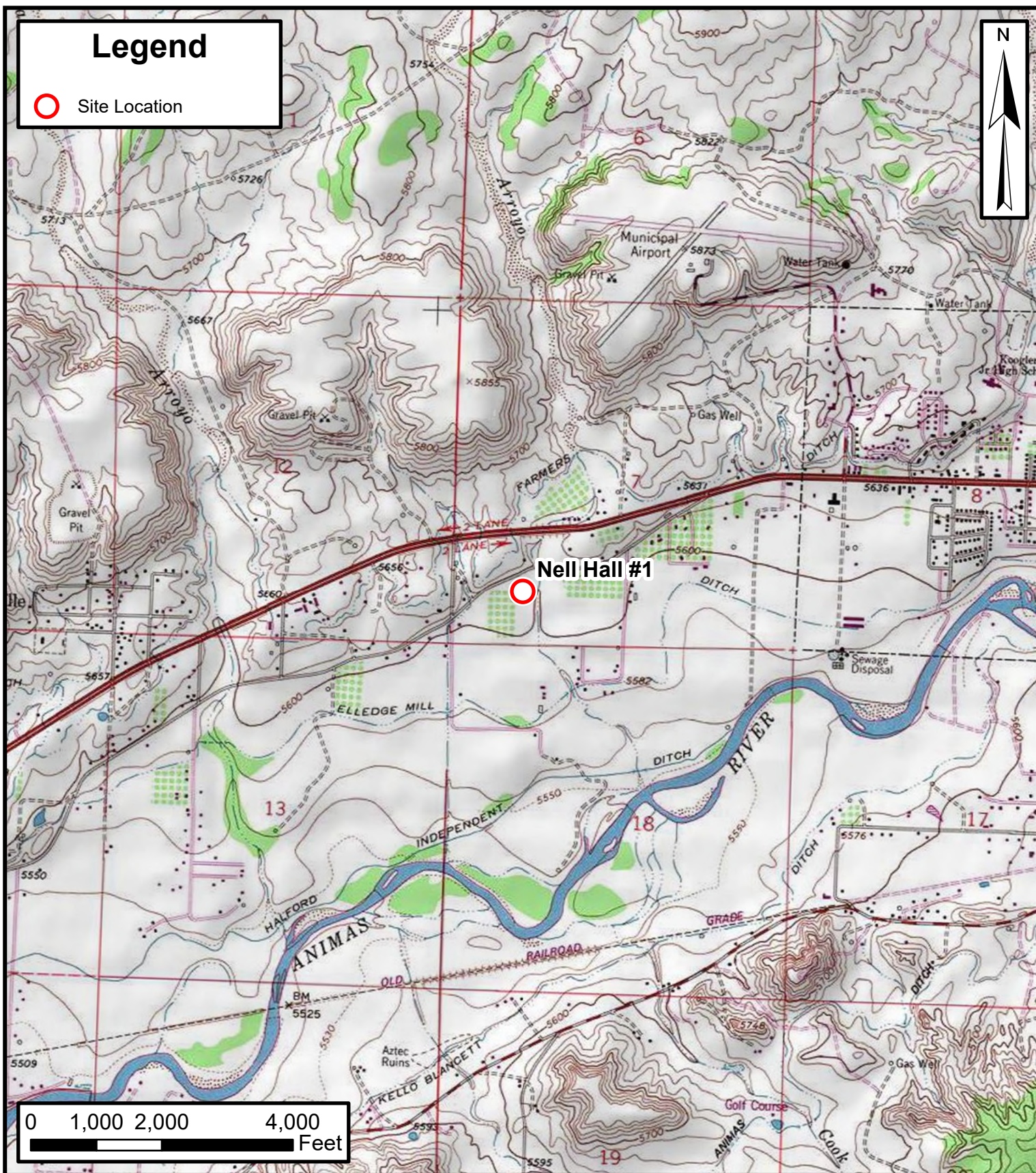
- Table 1 Groundwater Elevation Summary
- Table 2 Groundwater Quality Measurement
- Table 3 Groundwater Analytical Results

- Appendix A Laboratory Analytical Reports



FIGURES





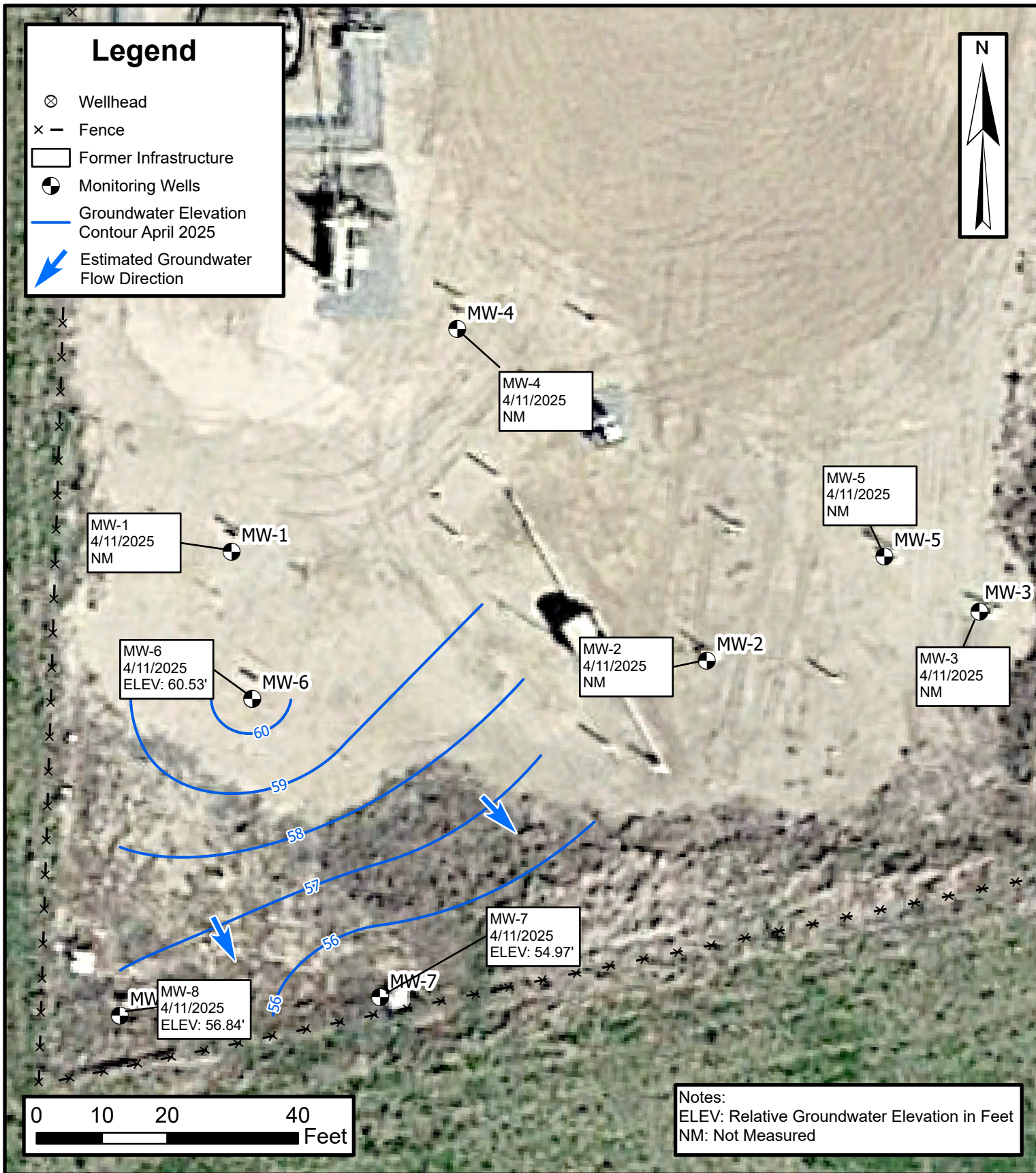
Site Location Map
 Nell Hall #1
 Hilcorp Energy Company
 36.821616, -108.037375
 Sec 7, T30N, R11W
 San Juan County, New Mexico

FIGURE
1



Site Map
 Nell Hall #1
 Hilcorp Energy Company
 36.821616, -108.037375
 Sec 7, T30N, R11W
 San Juan County, New Mexico

FIGURE
2



April 2025 Groundwater Elevation Map

Nell Hall #1
 Hilcorp Energy Company
 36.821616, -108.037375
 Sec 7, T30N, R11W
 San Juan County, New Mexico

FIGURE 3

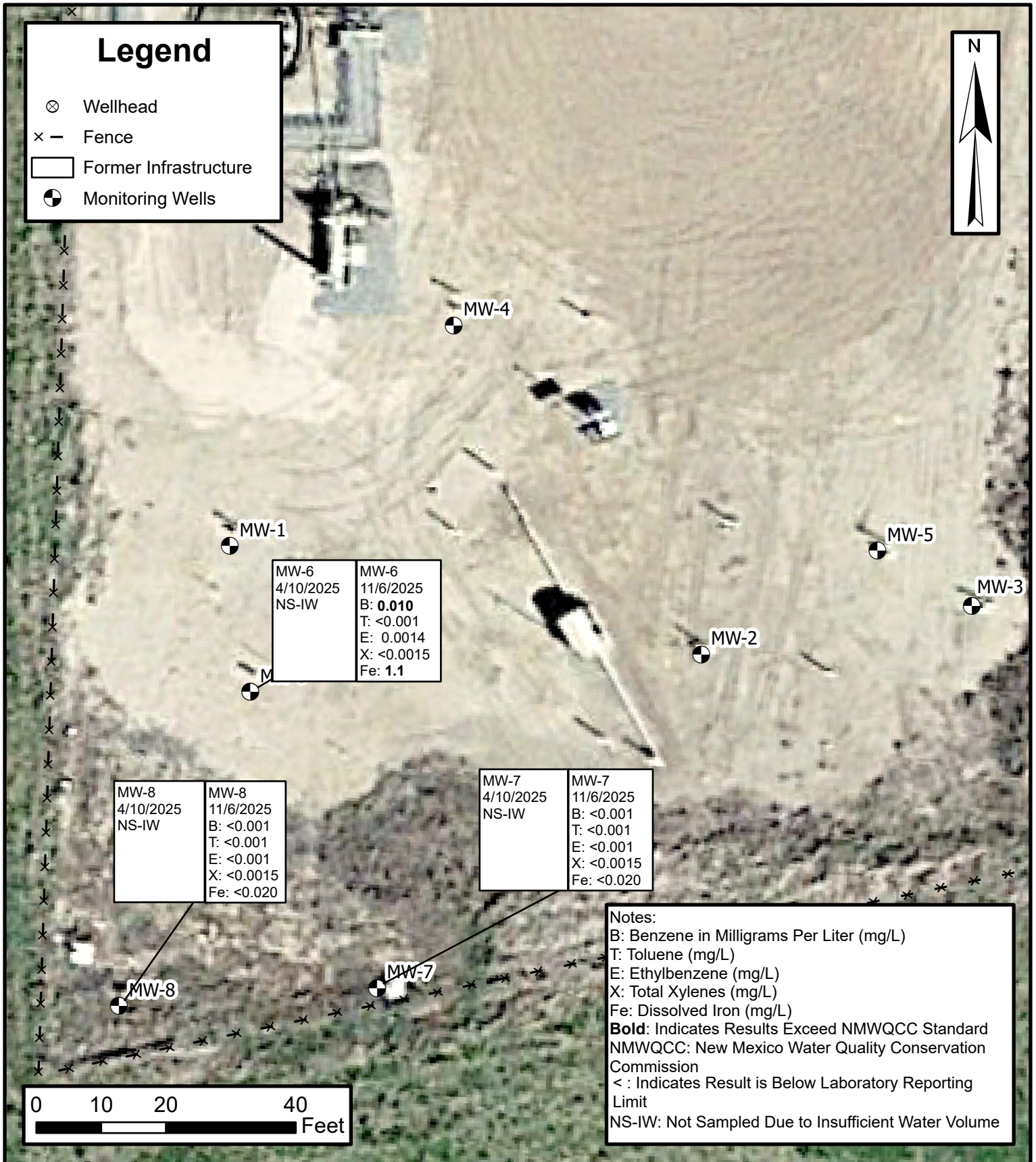


November 2025 Groundwater Elevation Map

Nell Hall #1
 Hilcorp Energy Company
 36.821616, -108.037375
 Sec 7, T30N, R11W
 San Juan County, New Mexico

FIGURE
4





2025 Groundwater Analytical Results

Nell Hall #1
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FIGURE
5



TABLES



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-1	97.95	5/10/2005	DRY	--
		10/20/2005	19.25	78.70
		11/22/2005	24.15	73.80
		5/17/2006	--	--
		11/15/2006	21.40	76.55
		2/19/2007	DRY	--
		5/14/2007	24.85	73.10
		8/22/2007	24.61	73.34
		11/6/2007	20.87	77.08
		3/17/2008	DRY	--
		10/22/2008	19.38	78.57
		3/30/2009	28.25	69.70
		9/30/2009	16.56	81.39
		3/31/2010	DRY	--
		6/9/2010	24.16	73.79
		9/27/2010	20.00	77.95
		3/16/2011	DRY	--
		6/21/2011	26.80	71.15
		9/27/2011	17.85	80.10
		12/13/2011	25.39	72.56
		3/7/2012	DRY	--
		6/4/2012	26.40	71.55
		9/20/2012	17.57	80.38
		12/28/2012	DRY	--
		3/28/2013	DRY	--
		6/12/2013	24.33	73.62
		9/11/2013	17.59	80.36
		12/13/2013	27.45	70.50
		3/20/2014	DRY	--
		6/18/2014	25.18	72.77
9/15/2014	18.68	79.27		
12/15/2014	DRY	--		
3/16/2015	DRY	--		
6/15/2015	27.85	70.10		
9/16/2015	21.71	76.24		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-1	97.95	11/30/2015	26.14	71.81
		3/30/2016	DRY	--
		9/8/2016	18.46	79.49
		11/29/2016	25.21	72.74
		6/14/2017	25.05	72.90
		9/25/2017	19.44	78.51
		12/5/2017	27.29	70.66
		3/15/2018	28.36	69.59
		6/27/2018	24.84	73.11
		3/14/2019	28.24	69.71
		5/24/2019	28.24	69.71
		8/27/2019	DRY	--
		12/17/2019	27.80	70.15
		2/19/2020	28.25	69.70
		4/28/2020	28.26	69.69
		8/25/2020	25.17	72.78
		10/28/2020	22.34	75.61
		3/24/2021	28.24	69.71
		6/28/2021	DRY	--
		9/22/2021	DRY	--
		11/15/2021	26.79	71.16
		2/9/2022	NM	--
4/12/2022	NM	--		
7/27/2022	NM	--		
10/13/2022	NM	--		
Plugged and Abandoned in June 2024				
MW-2	97.16	5/10/2005	DRY	--
		10/20/2005	18.81	78.35
		11/22/2005	23.74	73.42
		5/17/2006	22.06	75.10
		11/15/2006	21.01	76.15
		2/19/2007	DRY	--
		5/14/2007	DRY	--
		8/22/2007	18.03	79.13
		11/6/2007	20.43	76.73



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Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-2	97.16	3/17/2008	DRY	--
		10/22/2008	18.83	78.33
		3/30/2009	27.15	70.01
		9/30/2009	16.01	81.15
		3/31/2010	DRY	--
		6/9/2010	23.36	73.80
		9/27/2010	19.42	77.74
		3/16/2011	DRY	--
		6/21/2011	26.43	70.73
		9/27/2011	17.28	79.88
		12/13/2011	25.10	72.06
		3/7/2012	DRY	--
		6/4/2012	25.17	71.99
		9/20/2012	17.30	79.86
		12/28/2012	DRY	--
		3/28/2013	DRY	--
		6/12/2013	23.78	73.38
		9/11/2013	17.22	79.94
		12/13/2013	27.00	70.16
		3/20/2014	DRY	--
		6/18/2014	24.78	72.38
		9/15/2014	18.18	78.98
		12/15/2014	DRY	--
		3/16/2015	DRY	--
		6/15/2015	26.65	70.51
		9/16/2015	21.37	75.79
		11/30/2015	26.04	71.12
		3/30/2016	27.31	69.85
		6/22/2016	25.45	71.71
		9/8/2016	18.09	79.07
11/29/2016	24.94	72.22		
6/14/2017	24.85	72.31		
9/25/2017	18.96	78.20		
12/5/2017	27.04	70.12		
3/15/2018	DRY	--		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-2	97.16	6/27/2018	24.61	72.55
		3/14/2019	27.16	70.00
		5/24/2019	27.21	69.95
		8/27/2019	24.74	72.42
		12/17/2019	27.05	70.11
		2/19/2020	27.14	70.02
		4/28/2020	27.20	69.96
		8/24/2020	24.61	72.55
		10/28/2020	21.89	75.27
		3/24/2021	27.18	69.98
		6/28/2021	DRY	--
		9/22/2021	DRY	--
		11/15/2021	26.86	70.30
		2/9/2022	NM	--
		4/12/2022	NM	--
		7/27/2022	NM	--
		10/13/2022	NM	--
Plugged and Abandoned in June 2024				
MW-3	97.77	5/10/2005	DRY	--
		10/20/2005	19.36	78.41
		11/22/2005	24.24	73.53
		5/17/2006	22.82	74.95
		11/15/2006	21.53	76.24
		2/19/2007	DRY	--
		5/14/2007	DRY	--
		8/22/2007	18.36	79.41
		11/6/2007	20.95	76.82
		3/17/2008	DRY	--
		10/22/2008	19.34	78.43
		3/30/2009	DRY	--
		9/30/2009	DRY	--
		3/31/2010	DRY	--
		6/9/2010	23.87	73.90
		9/27/2010	19.93	77.84
3/16/2011	DRY	--		



**TABLE 1
GROUNDWATER ELEVATIONS
Nell Hall #1
Hilcorp Energy Company
San Juan County, New Mexico**

Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-3	97.77	6/21/2011	27.06	70.71
		9/27/2011	17.82	79.95
		12/13/2011	25.66	72.11
		3/7/2012	DRY	--
		6/4/2012	25.53	72.24
		9/20/2012	17.97	79.80
		12/28/2012	DRY	--
		3/28/2013	DRY	--
		6/12/2013	24.36	73.41
		9/11/2013	17.84	79.93
		12/13/2013	DRY	--
		3/20/2014	DRY	--
		6/18/2014	25.36	72.41
		9/15/2014	18.79	78.98
		12/15/2014	DRY	--
		3/16/2015	DRY	--
		6/15/2015	27.20	70.57
		9/16/2015	22.05	75.72
		11/30/2015	26.68	71.09
		3/30/2016	DRY	--
		9/8/2016	18.75	79.02
		11/29/2016	25.53	72.24
		6/14/2017	25.52	72.25
		9/25/2017	19.62	78.15
		12/5/2017	27.31	70.46
		3/15/2018	DRY	--
		6/27/2018	25.27	72.50
		3/14/2019	27.40	70.37
		5/24/2019	DRY	--
		8/27/2019	25.42	72.35
12/17/2019	27.30	70.47		
2/19/2020	27.37	70.40		
4/28/2020	DRY	--		
8/24/2020	25.20	72.57		
10/28/2020	22.49	75.28		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-3	97.77	3/24/2021	DRY	--
		6/28/2021	DRY	--
		9/22/2021	DRY	--
		11/15/2021	27.24	70.53
		2/9/2022	NM	--
		4/12/2022	NM	--
		7/27/2022	NM	--
		10/13/2022	NM	--
Plugged and Abandoned in June 2024				
MW-4	97.75	3/8/2004	36.04	61.71
		7/19/2004	8.44	89.31
		10/27/2004	19.69	78.06
		12/27/2004	27.58	70.17
		5/10/2005	DRY	--
		10/20/2005	18.87	78.88
		11/22/2005	23.93	73.82
		5/17/2006	--	--
		11/15/2006	21.02	76.73
		2/19/2007	34.40	63.35
		5/14/2007	27.56	70.19
		8/22/2007	18.18	79.57
		11/6/2007	20.48	77.27
		3/17/2008	36.08	61.67
		10/22/2008	18.96	78.79
		3/30/2009	37.36	60.39
		9/30/2009	16.15	81.60
		3/31/2010	DRY	--
		6/9/2010	23.61	74.14
		9/27/2010	19.61	0.00
3/16/2011	DRY	--		
6/21/2011	26.79	70.96		
9/27/2011	17.47	80.28		
12/13/2011	25.35	72.40		
3/7/2012	35.73	62.02		
6/4/2012	25.39	72.36		



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Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-4	97.75	9/20/2012	17.43	80.32
		12/28/2012	28.02	69.73
		3/28/2013	DRY	--
		6/12/2013	24.06	73.69
		9/11/2013	17.40	80.35
		12/13/2013	27.90	69.85
		3/20/2014	DRY	--
		6/18/2014	25.10	72.65
		9/15/2014	18.43	79.32
		12/15/2014	28.01	69.74
		3/16/2015	DRY	--
		6/15/2015	26.91	70.84
		9/16/2015	21.62	76.13
		11/30/2015	26.28	71.47
		3/30/2016	37.54	60.21
		6/22/2016	25.59	72.16
		9/8/2016	18.29	79.46
		11/29/2016	25.31	72.44
		6/14/2017	25.17	72.58
		9/25/2017	19.24	78.51
		12/5/2017	27.64	70.11
		3/15/2018	37.54	60.21
		6/27/2018	24.84	72.91
		10/10/2018	22.70	75.05
		12/12/2018	29.98	67.77
		3/14/2019	37.43	60.32
		5/23/2019	33.96	63.79
		8/27/2019	25.17	72.58
		12/16/2019	29.15	68.60
		2/20/2020	36.64	61.11
4/29/2020	DRY	--		
8/25/2020	24.74	73.01		
10/29/2020	22.13	75.62		
3/24/2021	37.40	60.35		
6/28/2021	26.33	71.42		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-4	97.75	9/22/2021	23.45	74.30
		11/15/2021	26.77	70.98
		2/9/2022	37.37	60.38
		4/12/2022	DRY	--
		7/27/2022	24.58	73.17
		10/13/2022	25.15	72.60
		1/31/2023	37.35	-37.35
		5/11/2023	37.39	-37.39
		7/18/2023	33.74	-33.74
		10/19/2023	28.46	-28.46
		1/17/2024	37.32	-37.32
Plugged and Abandoned in June 2024				
MW-5	98.81	3/8/2004	37.19	61.62
		7/19/2004	9.38	89.43
		10/27/2004	21.07	77.74
		12/27/2004	28.99	69.82
		5/10/2005	39.79	59.02
		10/20/2005	20.34	78.47
		11/22/2005	25.23	73.58
		5/17/2006	23.80	75.01
		11/15/2006	22.51	76.30
		2/19/2007	35.31	63.50
		5/14/2007	27.59	71.22
		8/22/2007	19.45	79.36
		11/6/2007	21.94	76.87
		3/17/2008	37.33	61.48
		10/22/2008	19.30	79.51
		3/30/2009	38.68	60.13
		9/30/2009	17.54	81.27
		3/31/2010	39.05	59.76
		6/9/2010	24.91	73.90
		9/27/2010	20.92	77.89
3/16/2011	39.25	59.56		
6/21/2011	28.02	70.79		
9/27/2011	18.79	80.02		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-5	98.81	12/13/2011	26.62	72.19
		3/7/2012	37.00	61.81
		6/4/2012	26.57	72.24
		9/20/2012	18.92	79.89
		12/28/2012	29.37	69.44
		3/28/2013	DRY	--
		6/12/2013	25.39	73.42
		9/11/2013	18.84	79.97
		12/13/2013	29.20	69.61
		3/20/2014	39.83	58.98
		6/18/2014	26.35	72.46
		9/15/2014	19.76	79.05
		12/15/2014	29.37	69.44
		3/16/2015	39.55	59.26
		6/15/2015	28.22	70.59
		9/16/2015	23.02	75.79
		11/30/2015	27.61	71.20
		3/30/2016	41.26	57.55
		6/22/2016	26.91	71.90
		9/8/2016	19.72	79.09
		11/29/2016	26.48	72.33
		6/14/2017	26.48	72.33
		9/25/2017	20.58	78.23
		12/5/2017	29.09	69.72
		3/15/2018	40.67	58.14
		6/27/2018	26.24	72.57
		10/10/2018	23.44	75.37
		12/12/2018	31.25	67.56
		3/14/2019	41.70	57.11
		5/24/2019	34.36	64.45
8/28/2019	26.41	72.40		
12/17/2019	30.58	68.23		
2/21/2020	38.03	60.78		
4/29/2020	39.43	59.38		
8/25/2020	26.17	72.64		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-5	98.81	10/29/2020	23.49	75.32
		3/24/2021	41.78	57.03
		6/28/2021	27.68	71.13
		9/22/2021	24.80	74.01
		11/15/2021	28.50	70.31
		2/9/2022	38.95	59.86
		4/12/2022	42.47	56.34
		7/27/2022	25.56	73.25
		10/13/2022	26.63	72.18
		1/31/2023	38.87	59.94
		5/11/2023	42.47	56.34
		7/18/2023	33.23	65.58
		10/19/2023	29.80	69.01
		1/17/2024	38.86	59.95
Plugged and Abandoned in June 2024				
MW-6	98.41	3/8/2004	36.27	62.14
		7/19/2004	9.43	88.98
		10/27/2004	19.33	79.08
		12/27/2004	28.62	69.79
		5/10/2005	DRY	--
		10/20/2005	19.94	78.47
		11/22/2005	25.02	73.39
		5/17/2006	--	--
		11/15/2006	21.12	77.29
		2/19/2007	34.82	63.59
		5/14/2007	26.12	72.29
		8/22/2007	19.41	79.00
		11/6/2007	21.51	76.90
		3/17/2008	36.34	62.07
		10/22/2008	19.99	78.42
		3/30/2009	37.04	61.37
		9/30/2009	17.26	81.15
		3/31/2010	37.24	61.17
6/9/2010	24.43	73.98		
9/27/2010	20.79	77.62		



**TABLE 1
GROUNDWATER ELEVATIONS
Nell Hall #1
Hilcorp Energy Company
San Juan County, New Mexico**

Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-6	98.41	3/16/2011	DRY	--
		6/21/2011	27.56	70.85
		9/27/2011	18.58	79.83
		12/13/2011	26.32	72.09
		3/7/2012	36.01	62.40
		6/4/2012	26.55	71.86
		9/20/2012	18.25	80.16
		12/28/2012	29.11	69.30
		3/28/2013	DRY	--
		6/12/2013	24.78	73.63
		9/11/2013	18.26	80.15
		12/13/2013	28.84	69.57
		3/20/2014	37.47	60.94
		6/18/2014	25.93	72.48
		9/15/2014	19.35	79.06
		12/15/2014	29.02	69.39
		3/16/2015	37.37	61.04
		6/15/2015	27.92	70.49
		9/16/2015	22.40	76.01
		11/30/2015	27.22	71.19
		3/30/2016	37.81	60.60
		6/22/2016	26.75	71.66
		9/8/2016	19.27	79.14
		11/29/2016	26.20	72.21
		6/14/2017	25.97	72.44
		9/25/2017	20.04	78.37
		12/5/2017	28.63	69.78
		3/15/2018	37.76	60.65
		6/27/2018	25.67	72.74
		10/10/2018	22.97	75.44
12/12/2018	31.12	67.29		
3/14/2019	37.84	60.57		
5/23/2019	35.26	63.15		
8/27/2019	25.83	72.58		
12/16/2019	29.41	69.00		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-6	98.41	2/20/2020	36.41	62.00
		4/29/2020	DRY	--
		8/25/2020	25.70	72.71
		10/28/2020	22.85	75.56
		3/24/2021	34.74	63.67
		6/28/2021	27.08	71.33
		9/22/2021	24.30	74.11
		11/15/2021	27.63	70.78
		2/9/2022	36.93	61.48
		4/12/2022	37.86	60.55
		7/27/2022	25.38	73.03
		10/13/2022	26.03	72.38
		1/31/2023	36.78	61.63
		5/11/2023	37.88	60.53
		7/18/2023	35.26	63.15
		10/19/2023	29.43	68.98
		1/17/2024	36.65	61.76
		5/1/2024	37.85	60.56
		10/17/2024	26.32	72.09
4/11/2025	37.88	60.53		
11/6/2025	29.42	68.99		
MW-7	97.60	9/16/2015	21.70	75.90
		11/30/2015	26.78	70.82
		3/30/2016	40.46	57.14
		6/22/2016	25.98	71.62
		9/8/2016	18.55	79.05
		11/29/2016	25.73	71.87
		6/14/2017	25.35	72.25
		9/25/2017	19.44	78.16
		12/5/2017	28.21	69.39
		3/15/2018	39.85	57.75
		6/27/2018	25.06	72.54
		10/10/2018	22.26	75.34
		12/12/2018	30.25	67.35
3/14/2019	40.81	56.79		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-7	97.60	5/23/2019	33.75	63.85
		8/28/2019	25.00	72.60
		12/16/2019	29.41	68.19
		2/19/2020	37.10	60.50
		4/29/2020	37.87	59.73
		8/24/2020	25.17	72.43
		10/28/2020	22.25	75.35
		3/24/2021	40.91	56.69
		6/28/2021	26.38	71.22
		9/22/2021	23.60	74.00
		11/15/2021	27.09	70.51
		2/8/2022	38.32	59.28
		4/12/2022	42.56	55.04
		7/27/2022	24.51	73.09
		10/13/2022	25.34	72.26
		1/31/2023	37.99	59.61
		5/11/2023	42.55	55.05
		7/18/2023	33.59	64.01
		10/19/2023	28.88	68.72
		1/17/2024	38.02	59.58
5/1/2024	42.63	54.97		
10/17/2024	25.52	72.08		
4/10/2025	42.63	54.97		
11/6/2025	28.94	68.66		
MW-8	98.87	9/16/2015	22.74	76.13
		11/30/2015	27.97	70.90
		3/30/2016	41.65	57.22
		6/22/2016	27.11	71.76
		9/8/2016	19.52	79.35
		11/29/2016	26.82	72.05
		6/14/2017	26.30	72.57
		9/25/2017	20.52	78.35
		12/5/2017	29.30	69.57
		3/15/2018	41.03	57.84
6/27/2018	26.00	72.87		



TABLE 1 GROUNDWATER ELEVATIONS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico				
Well Identification	Top of Casing Elevation (feet) (1)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (1)
MW-8	98.87	10/10/2018	23.27	75.60
		12/12/2018	31.34	67.53
		3/14/2019	42.00	56.87
		5/23/2019	35.12	63.75
		8/28/2019	26.03	72.84
		12/17/2019	30.42	68.45
		2/19/2020	38.11	60.76
		4/29/2020	38.32	60.55
		8/25/2020	26.32	72.55
		10/28/2020	23.41	75.46
		3/24/2021	42.00	56.87
		6/28/2021	27.30	71.57
		9/22/2021	24.60	74.27
		11/15/2021	28.58	70.29
		2/8/2022	39.11	59.76
		4/12/2022	42.05	56.82
		7/27/2022	25.67	73.20
		10/13/2022	26.28	72.59
		1/31/2023	39.08	59.79
		5/11/2023	42.42	56.45
		7/18/2023	34.88	63.99
		10/19/2023	29.93	68.94
		1/17/2024	39.02	59.85
5/1/2024	42.40	56.47		
10/17/2024	26.70	72.17		
4/10/2025	42.03	56.84		
11/6/2025	30.08	68.79		

Notes:

- (1): surface elevation based on an arbitrary datum of 100 feet
- bgs: below ground surface
- BTOC: below top of casing
- NM: not measured
- : indicates no GWEL or PSH measured



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico Ensolum Project No. 07A1988012							
Well Identification	Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)
MW-4	3/17/2015	Not sampled					
	6/15/2015	16.01	6.78	0.635	977	2.74	-113.9
	9/16/2015	16.48	7.00	0.619	953	4.24	-83.1
	11/30/2015	15.59	7.01	0.680	1,046	2.60	-54.0
	3/30/2016	Not sampled					
	6/22/2016	16.00	6.65	--	1,090	1.10	-109.0
	9/8/2016	16.55	7.35	0.627	965	5.03	66.3
	11/29/2016	14.79	7.34	--	935	3.87	46.0
	6/14/2017	14.81	7.02	0.688	1,043	2.14	-135.6
	9/25/2017	16.08	6.90	--	800	--	--
	12/5/2017	14.31	6.84	0.658	1,013	1.32	-153.5
	3/15/2018	No parameter or samples collected due to low well volume					
	6/27/2018	16.51	6.77	--	1,060	--	-102.5
	3/14/2019	No parameter or samples collected due to low well volume					
	5/23/2019	14.40	7.10	0.510	980	--	-4.6
	8/27/2019	19.60	7.16	0.620	1,230	--	-3.2
	12/16/2019	8.40	6.40	0.590	1,200	2.68	13.5
	2/20/2020	15.80	6.36	0.650	1,300	8.19	-2.6
	4/29/2020	No parameter or samples collected due to low well volume					
	8/25/2020	22.40	6.18	0.640	1,290	1.04	16.2
	10/29/2020	17.20	6.59	0.570	1,140	4.63	-13.1
	3/24/2021	No parameter or samples collected due to low well volume					
	6/28/2021	No parameters collected due to equipment failure					
	9/22/2021	17.90	6.96	--	2,950	--	--
	11/15/2021	16.90	6.35	--	1,090	--	--
	2/9/2022	No parameter or samples collected due to low well volume					
4/28/2022	No parameter or samples collected due to low well volume						
7/27/2022	19.30	6.18	0.550	1,090	--	--	
10/13/2022	18.10	6.63	0.470	1,020	--	--	
1/31/2023	No parameter or samples collected due to low well volume						
5/11/2023	No parameter or samples collected due to low well volume						
7/18/2023	36.12	7.10	0.900	1,385	1.61	-94.80	
10/19/2023	25.66	7.25	1.030	1,580.8	1.73	-67.60	
MW-5	3/17/2015	No parameters or sample collected due to low well volume.					
	6/15/2015	15.28	7.08	0.576	886	6.83	10.2
	9/16/2015	15.99	6.72	0.598	920	7.33	34.9
	11/30/2015	16.24	6.84	1.118	1,721	5.52	-50.5
	3/30/2016	No parameter or samples collected due to low well volume					
	6/22/2016	15.70	7.02	--	1,120	5.87	2.0
	9/8/2016	15.78	7.82	0.550	846	7.91	54.3
	11/29/2016	15.47	7.17	--	1,198	8.96	74.8
	6/14/2017	14.22	7.05	0.914	1,406	6.88	-80.1
	9/25/2017	15.60	6.83	--	947	--	--
	12/5/2017	15.16	7.05	0.888	1,367	4.66	-82.9
	3/15/2018	15.53	7.13	--	1,301	1.23	78.4



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico Ensolum Project No. 07A1988012								
Well Identification	Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)	
MW-5	6/27/2018	15.84	7.11	--	1,098	6.80	65.6	
	3/14/2019	14.40	7.20	0.670	1,340	--	-15.6	
	5/24/2019	14.40	7.17	0.560	1,130	--	-22.6	
	8/28/2019	19.10	7.02	0.680	1,360	--	-20.2	
	12/17/2019	10.20	6.57	0.640	1,250	7.16	-31.7	
	2/21/2020	12.40	6.50	0.570	1,210	--	-30.5	
	4/29/2020	20.70	6.71	0.530	1,060	4.04	-19.9	
	8/25/2020	23.40	6.86	0.600	1,180	2.71	-15.6	
	10/28/2020	17.50	6.54	0.670	1,330	4.46	-8.6	
	3/24/2021	13.00	6.68	0.580	1,190	--	-21.7	
	6/28/2021	No parameters collected due to equipment failure						
	9/22/2021	19.70	7.07	--	3,820	--	--	
	11/15/2021	17.70	6.27	--	1,230	--	--	
	2/9/2022	13.90	6.78	--	1,000	--	--	
	4/28/2022	No parameter or samples collected due to low well volume						
	7/27/2022	18.40	6.64	0.510	1,020	--	--	
	10/13/2022	17.90	6.79	0.470	1,090	--	--	
	1/31/2023	12.60	7.32	0.490	960	--	--	
	5/11/2023	No parameter or samples collected due to low well volume						
	7/18/2023	38.56	7.56	0.790	1,219	6.38	-49.9	
10/19/2023	24.92	7.68	0.860	1,318.6	6.87	-79.5		
1/17/2024	7.74	8.07	0.630	970.62	4.94	234.6		
MW-6	3/17/2015	Not sampled.						
	6/15/2015	15.34	6.50	0.730	1,124	4.15	-95.9	
	9/16/2015	15.69	6.13	0.846	1,302	2.92	-121.5	
	11/30/2015	15.36	6.57	0.793	1,221	4.82	-72.4	
	3/30/2016	Not sampled						
	6/22/2016	15.30	6.50	--	1,220	1.42	-91.4	
	9/8/2016	15.51	7.43	0.849	1,307	1.86	-138.7	
	11/29/2016	15.29	6.86	--	1,132	2.57	-86.1	
	6/14/2014	14.10	6.73	0.775	1,192	2.02	-115.1	
	9/25/2017	14.86	6.30	--	1,342	--	--	
	12/5/2017	13.91	6.68	0.794	1,222	0.80	-155.0	
	3/15/2018	15.21	6.78	--	1,553	--	-139.2	
	6/27/2018	16.31	6.91	--	1,195	0.52	-125	
	3/14/2019	No parameter or samples collected due to low well volume						
	5/23/2019	No parameter or samples collected due to low well volume						
	8/27/2019	20.60	6.73	0.580	1,160	--	13.7	
	12/16/2019	9.50	6.13	0.590	1,150	5.15	12.2	
	2/20/2020	15.40	6.04	0.670	1,340	--	11.1	
	4/29/2020	No parameter or samples collected due to low well volume						
	8/25/2020	25.70	6.25	0.660	1,330	1.32	25.8	
	10/28/2020	15.50	6.22	0.790	1,590	5.49	15.3	
	3/24/2021	No parameter or samples collected due to low well volume						
6/28/2021	No parameters collected due to equipment failure							



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico Ensolum Project No. 07A1988012								
Well Identification	Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)	
MW-6	9/22/2021	18.10	6.98	--	3,980	--	--	
	11/15/2021	16.80	5.83	--	1,200	--	--	
	2/9/2022	9.50	6.27	--	1,150	--	--	
	4/28/2022	No parameter or samples collected due to low well volume						
	7/27/2022	18.20	5.97	0.550	1,110	--	--	
	10/13/2022	17.30	6.18	0.620	1,250	--	--	
	1/31/2023	8.60	6.85	0.650	1,290	--	--	
	5/11/2023	No parameter or samples collected due to low well volume						
	7/18/2023	No parameter or samples collected due to low well volume						
	10/19/2023	24.10	7.24	0.930	1,435.8	2.37	-71.4	
	10/17/2024	23.24	7.96	0.020	26.61	1.32	-138.6	
	4/10/2025	No parameter or samples collected due to low well volume						
11/6/2025	24.04	8.00	0.701	1,068.00	2.068	-55.4		
MW-7	9/16/2015	15.07	6.52	0.581	893	7.15	72.8	
	11/30/2015	15.01	6.69	1.067	1,641	4.99	21.0	
	3/30/2016	16.77	6.91	0.800	1,250	6.03	40.0	
	6/22/2016	15.30	6.93	--	1,090	1.22	53.5	
	9/8/2016	16.29	7.62	0.441	679	7.49	5.6	
	11/29/2016	14.11	7.07	--	1,006	6.35	85.7	
	6/14/2017	13.95	6.82	0.809	1,245	4.88	-78.6	
	9/25/2017	13.87	6.91	--	808	--	--	
	12/5/2017	14.11	6.93	0.615	946	3.11	-82.8	
	3/15/2018	15.26	6.91	--	1,037	1.09	77.1	
	6/27/2018	15.07	6.95	--	887	5.60	42.5	
	3/14/2019	12.20	7.40	0.510	--	--	-5.3	
	5/23/2019	15.50	7.15	0.490	1,550	--	-8.8	
	8/28/2019	18.00	7.08	0.440	880	--	-17.8	
	12/16/2019	8.20	6.41	0.520	1,050	2.85	-39.1	
	2/19/2020	14.70	6.46	0.570	1,120	9.25	-10.6	
	4/29/2020	13.00	6.42	0.530	1,070	2.96	-6.5	
	8/24/2020	19.80	6.51	0.510	1,020	2.17	-6.1	
	10/28/2020	10.90	6.55	0.650	1,290	5.21	-12.4	
	3/24/2021	10.90	6.55	0.650	1,290	5.21	-12.4	
	6/28/2021	No parameters collected due to equipment failure						
	9/22/2021	20.30	7.13	--	2,590	--	--	
	11/15/2021	16.60	6.11	--	1,410	--	--	
	2/8/2022	14.50	6.24	--	1,040	--	--	
	4/28/2022	No parameter or samples collected due to low well volume						
	7/27/2022	16.70	6.47	0.390	790	--	--	
	10/13/2022	15.30	6.62	0.420	840	--	--	
1/31/2023	10.40	6.77	0.450	900	--	--		
5/11/2023	No parameter or samples collected due to low well volume							
7/18/2023	35.77	7.14	0.790	1,218	2.37	54.6		
10/19/2023	24.05	7.46	0.890	1,376.4	6.14	289.7		
1/17/2024	8.02	7.95	0.010	11.98	2.60	212		



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico Ensolum Project No. 07A1988012							
Well Identification	Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)
MW-7	10/17/2024	22.24	8.00	0.00	3.19	5.30	136.3
	4/10/2025	No parameter or samples collected due to low well volume					
	11/6/2025	24.68	8.16	0.625	962	6.377	347.6
MW-8	9/16/2015	14.18	6.65	0.534	821	6.37	73.2
	11/30/2015	13.85	7.20	0.565	869	4.59	-13.8
	3/30/2016	No parameter or samples collected due to low well volume					
	6/22/2016	14.70	7.04	--	970	0.66	-22.6
	9/8/2016	13.99	7.82	0.550	847	7.95	15.0
	11/29/2016	13.71	7.24	--	883	8.81	89.1
	6/14/2017	13.36	7.43	0.549	844	7.71	-71.9
	9/25/2017	12.78	6.73	--	823	--	--
	12/5/2017	12.36	7.09	0.509	783	2.53	-83.5
	3/15/2018	14.52	7.12	--	915	0.00	-135.0
	6/27/2018	14.48	7.14	--	748	5.57	62.2
	3/14/2019	No parameter or samples collected due to low well levels					
	5/23/2019	18.40	7.47	0.470	910	--	-30.3
	8/28/2019	18.40	7.07	0.480	960	--	-15.4
	12/17/2019	6.60	6.80	0.400	800	--	-36.6
	2/19/2020	15.30	6.21	0.440	880	9.57	-18.0
	4/29/2020	15.30	6.46	0.420	850	2.61	-10.1
	8/25/2020	23.00	6.62	0.480	970	2.04	-14
	10/28/2020	13.40	6.59	0.460	910	4.72	-19.8
	3/24/2021	No parameter or samples collected due to low well levels					
	6/28/2021	No parameters collected due to equipment failure					
	9/22/2021	17.10	7.14	--	2,650	--	--
	11/15/2021	13.10	6.24	--	890	--	--
	2/8/2022	14.70	6.53	--	940	--	--
	4/28/2022	No parameter or samples collected due to low well volume					
	7/27/2022	16.70	6.47	0.390	790	--	--
	10/13/2022	15.40	6.71	0.420	840	--	--
	1/31/2023	6.80	7.12	0.430	830	--	--
	5/11/2023	No parameter or samples collected due to low well volume					
	7/18/2023	36.27	7.14	0.740	1,140	2.34	-63.8
	10/19/2023	21.57	7.67	0.560	862.18	5.42	283.9
	1/17/2024	8.04	7.91	0.080	116.87	3.44	192.2
10/17/2024	21.12	8.43	0.500	762.58	3.77	94.4	
4/10/2025	No parameter or samples collected due to low well volume						
11/6/2025	23.72	8.21	0.842	1,295	6.417	347.4	



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS Hilcorp Energy Company - Nell Hall #1 San Juan County, New Mexico Ensolum Project No. 07A1988012							
Well Identification	Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)

Notes:

- °C: degrees Celcius
- DO: dissolved oxygen
- g/L: grams per liter
- uS/cm: microsiemens per centimeter
- mg/L: milligrams per liter
- mV: millivolts
- ORP: oxidation-reduction potential
- TDS: total dissolved solids
- : data not collected



TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico							
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)	
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0	
MW-4	3/8/2004	0.013	0.012	0.064	1.4	--	
	7/19/2004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	
	10/27/2004	0.011	0.008	0.021	0.13	--	
	12/27/2004	< 0.0025	< 0.0025	< 0.0025	< 0.0005	--	
	11/22/2005	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--	
	11/15/2006	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--	
	2/21/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--	
	8/22/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--	
	11/6/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--	
	3/17/2008	< 0.005	< 0.005	< 0.005	< 0.005	--	
	10/22/2008	< 0.005	< 0.005	< 0.005	< 0.005	--	
	9/30/2009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02	
	6/9/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02	
	9/27/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02	
	6/21/2011	< 0.001	< 0.001	< 0.001	< 0.003	1.21	
	9/27/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	12/13/2011	< 0.001	< 0.001	< 0.001	< 0.003	0.201	
	3/7/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.25	
	6/4/2012	< 0.001	< 0.001	< 0.001	< 0.003	1.17	
	9/20/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.25	
	12/28/2012	< 0.001	< 0.001	< 0.001	< 0.003	0.748	
	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.003	1.46	
	9/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	<0.050	
	12/13/2013	< 0.001	< 0.001	< 0.001	< 0.003	0.758	
	6/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	1.83	
	9/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	0.0544	
	12/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	0.456	
	6/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	1.78	
	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.225	
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.58	
	3/30/2016	No samples collected due to low well levels					
	06/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	2.07	
	09/08/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	11/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	1.03		
9/25/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05		
12/05/2017	< 0.001	< 0.001	< 0.001	< 0.003	0.564		
3/15/2018	No samples collected due to low well levels						
6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	1.39		
10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
12/12/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
3/14/2019	No samples collected due to low well levels						
5/23/2019	--	--	--	--	<0.10		
8/27/2019	--	--	--	--	<0.10		
12/16/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
2/19/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		
4/29/2020	No samples collected due to low well levels						
8/25/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10		



TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico						
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0
MW-4	10/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	3/24/2021	No samples collected due to low well levels				
	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	1.9
	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	< 0.02
	11/12/2021	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.02
	2/9/2022	No samples collected due to low well levels				
	4/12/2022	No samples collected due to low well levels				
	7/27/2022	<0.001	<0.001	<0.001	<0.0015	2.7
	10/13/2022	<0.001	<0.001	<0.001	<0.0015	0.34
	1/31/2023	No samples collected due to low well levels				
	5/11/2023	No samples collected due to low well levels				
	7/18/2023	<0.001	<0.001	<0.001	<0.0015	2.7
	10/19/2023	<0.001	<0.001	<0.001	<0.0015	1.1
Plugged and Abandoned in June 2025						
MW-5	3/8/2004	0.0011	< 0.0005	0.001	0.017	--
	7/19/2004	< 0.0005	0.00055	< 0.0005	0.00072	--
	10/27/2004	< 0.0005	< 0.0005	< 0.0005	< 0.001	--
	12/27/2004	< 0.0005	< 0.0005	< 0.0005	< 0.001	--
	5/11/2005	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--
	11/22/2005	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--
	11/15/2006	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--
	2/21/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--
	8/22/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--
	11/6/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--
	3/17/2008	< 0.005	< 0.005	< 0.005	< 0.005	--
	10/22/2008	< 0.005	< 0.005	< 0.005	< 0.005	--
	3/30/2009	< 0.005	< 0.005	< 0.005	< 0.005	--
	9/30/2009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02
	3/31/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02
	6/9/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02
	9/27/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02
	3/16/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.02
	6/21/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.1
	9/27/2011	< 0.001	< 0.001	< 0.001	< 0.003	0.0835
	12/13/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	3/7/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	6/4/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	9/20/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	12/28/2012	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	9/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	0.0723
	12/13/2013	< 0.001	< 0.001	< 0.001	< 0.003	0.076
	3/21/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	6/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
9/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
12/15/2014	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	
6/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	



TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico							
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)	
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0	
MW-5	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.0684	
	3/30/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	
	6/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	09/08/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	11/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	0.133	
	9/25/2017	0.147	< 0.001	0.0264	0.0135	0.0568	
	12/05/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	3/15/2018	< 0.001	< 0.001	< 0.001	< 0.003	0.0795	
	6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	12/12/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	3/14/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	5/24/2019	--	--	--	--	<0.10	
	8/28/2019	--	--	--	--	<0.10	
	12/17/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	2/21/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	4/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	8/25/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	10/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	3/24/2021	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	< 0.02	
	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	< 0.02	
	11/15/2021	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.02	
	2/9/2022	<0.001	<0.001	<0.001	<0.0015	0.032	
	4/12/2022	No samples collected due to low well levels					
	7/27/2022	<0.001	<0.001	<0.001	<0.0015	<0.020	
10/13/2022	<0.001	<0.001	<0.001	<0.0015	<0.020		
1/31/2023	<0.001	<0.001	<0.001	<0.0015	<0.020		
5/11/2023	No samples collected due to low well levels						
7/18/2023	<0.001	<0.001	<0.001	<0.0015	0.069		
10/19/2023	<0.001	<0.001	<0.001	<0.0015	<0.10		
1/17/2024	<0.001	<0.001	<0.001	<0.0015	<0.020		
Plugged and Abandoned in June 2025							
MW-6	3/8/2004	2.5	0.014	1.6	21.031	--	
	7/19/2004	< 0.0005	< 0.0005	0.00098	0.0026	--	
	10/27/2004	0.0004	0.0003	0.0005	0.0021	--	
	12/27/2004	0.045	0.0068	0.014	0.0717	--	
	11/22/2005	0.01	0.0007	0.016	0.15	--	
	11/15/2006	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--	
	2/21/2007	0.54	< 0.001	0.076	0.81	--	
	8/22/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008	--	
	11/6/2007	0.015	< 0.0007	0.047	0.39	--	
	3/18/2008	0.16	< 0.005	< 0.005	0.033	--	
	10/22/2008	< 0.005	< 0.005	< 0.005	< 0.005	--	
	3/30/2009	0.042	< 0.005	< 0.005	0.01	--	
9/30/2009	0.096	0.0047	0.062	0.12	1.06		



TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico							
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)	
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0	
MW-6	4/1/2010	0.48	< 0.001	0.078	0.2	--	
	6/9/2010	0.71	< 0.001	0.42	0.52	11.4	
	9/27/2010	0.30	< 0.001	0.25	0.41	0.676	
	3/16/2011	0.18	< 0.001	0.044	0.072	8.66	
	6/21/2011	0.461	0.00048	0.454	0.677	9.45	
	9/27/2011	0.237	< 0.005	0.197	0.225	19.6	
	12/13/2011	0.298	0.0083	0.154	0.141	11.6	
	3/7/2012	0.0477	< 0.001	0.0073	0.0192	22.5	
	6/4/2012	0.649	< 0.01	0.309	0.314	19.2	
	9/20/2012	0.266	< 0.005	0.065	0.0355	9.53	
	12/28/2012	0.319	< 0.005	0.0764	0.0452	8.06	
	6/12/2013	0.442	< 0.005	0.159	0.209	16.6	
	9/11/2013	0.109	< 0.001	0.0208	0.0123	2.26	
	12/13/2013	0.467	< 0.001	0.101	0.0537	5.9	
	6/18/2014	0.384	< 0.005	0.152	0.177	15.5	
	9/15/2014	0.502	< 0.001	0.101	0.064	7.75	
	12/15/2014	0.333	< 0.001	0.0758	0.0249	5.45	
	6/15/2015	0.354	< 0.005	0.167	0.222	13.1	
	9/16/2015	0.294	< 0.005	0.134	0.0615	11	
	11/30/2015	0.413	< 0.01	0.0642	< 0.03	7.35	
	3/30/2016	No samples collected due to low well levels					
	6/22/2016	0.419	< 0.010	0.0718	0.0435	16.2	
	09/08/2016	0.209	< 0.005	0.0339	< 0.015	6.07	
	11/29/2016	0.257	< 0.005	0.0649	0.0203	6.32	
	06/14/2017	0.309	< 0.005	0.103	0.0916	10.6	
	9/25/2017	0.157	< 0.001	0.0286	0.0145	5.73	
	12/05/2017	0.236	< 0.001	0.0243	0.007	7.58	
	3/15/2018	0.389	< 0.001	0.0544	0.0376	--	
	6/27/2018	0.389	< 0.001	0.0683	0.0427	10.00	
	10/10/2018	0.0125	< 0.001	0.0038	< 0.003	1.68	
	12/12/2018	0.146	< 0.001	0.00285	< 0.003	1.66	
	3/14/2019	No samples collected due to low well levels					
	5/23/2019	0.164	< 0.001	0.0926	0.0377	3.05	
8/27/2019	0.187	< 0.001	0.0479	0.00321	3.54		
12/16/2019	0.222	< 0.001	0.0149	< 0.003	0.344		
2/20/2020	0.121	< 0.001	0.0046	< 0.003	1.65		
4/29/2020	No samples collected due to low well levels						
8/25/2020	0.295	< 0.001	0.0123	< 0.003	2.8		
10/28/2020	0.112	< 0.001	< 0.001	< 0.003	1.55		
3/24/2021	No samples collected due to low well levels						
6/28/2021	0.073	< 0.0025	0.065	< 0.005	12		
9/22/2021	0.0033	< 0.001	0.0054	< 0.002	2.5		
11/12/2021	0.140	< 0.001	0.0047	< 0.0015	0.99		
2/9/2022	0.180	< 0.001	0.0081	< 0.0015	--		
4/12/2022	No samples collected due to low well levels						
7/27/2022	0.0052	< 0.001	0.011	0.0016	13		
10/13/2022	0.020	< 0.001	0.0044	< 0.0015	4.0		
1/31/2023	0.029	< 0.002	< 0.002	< 0.003	0.36		



TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico						
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0
MW-6	5/11/2023	No samples collected due to low well levels				
	7/18/2023	<0.0010	<0.001	<0.001	<0.0015	0.54
	10/19/2023	0.017	<0.002	0.0074	0.0034	2.8
	1/17/2024	No samples collected due to low well levels				
	10/17/2024	0.019	<0.002	0.0094	<0.0030	3.8
	4/10/2025	No samples collected due to low well levels				
	11/6/2025	0.010	<0.001	0.014	<0.0015	1.1
MW-7	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	0.0637
	3/30/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50
	6/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50
	09/08/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	11/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	<0.05
	06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	<0.05
	9/25/2017	< 0.001	< 0.001	< 0.001	< 0.003	<0.05
	12/05/2017	< 0.001	< 0.001	< 0.001	< 0.003	<0.05
	3/15/2018	< 0.001	< 0.001	< 0.001	< 0.003	0.0936
	6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.05
	10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	12/11/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	3/14/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	5/23/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	8/28/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	12/16/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	2/19/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	4/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	8/24/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	10/28/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	3/24/2021	< 0.001	< 0.001	< 0.001	< 0.003	<0.10
	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	< 0.020
	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	<0.020
	11/12/2021	< 0.001	< 0.001	< 0.001	< 0.0015	<0.020
	2/9/2022	<0.001	<0.001	<0.001	<0.0015	<0.020
	4/12/2022	No samples collected due to low well levels				
	7/27/2022	<0.001	<0.001	<0.001	<0.0015	<0.020
	10/13/2022	<0.001	<0.001	<0.001	<0.0015	<0.020
	1/31/2023	<0.001	<0.001	<0.001	<0.0015	<0.020
5/11/2023	No samples collected due to low well levels					
7/18/2023	<0.001	<0.001	<0.001	<0.0015	0.54	
10/19/2023	<0.001	<0.001	<0.001	<0.0015	<0.020	
1/17/2024	<0.001	<0.001	<0.001	<0.0015	<0.020	
10/17/2024	<0.001	<0.001	<0.001	<0.0015	<0.020	
4/11/2025	No samples collected due to low well levels					
11/6/2025	<0.001	<0.001	<0.001	<0.0015	<0.020	
MW-8	9/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	11/30/2015	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05
	3/30/2016	< 0.001	< 0.001	< 0.001	< 0.003	0.412
	6/22/2016	< 0.001	< 0.001	< 0.001	< 0.003	0.0753



TABLE 3 GROUNDWATER ANALYTICAL RESULTS Nell Hall #1 Hilcorp Energy Company San Juan County, New Mexico							
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Dissolved Iron (mg/L)	
NMWQCC Standards		0.005	1.0	0.70	0.62	1.0	
MW-8	09/08/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	11/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	06/14/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	9/25/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	12/5/2017	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	3/15/2018	< 0.001	< 0.001	< 0.001	< 0.003	0.237	
	6/27/2018	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	10/10/2018	< 0.001	< 0.001	< 0.001	< 0.003	< 0.05	
	12/11/2018	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	3/14/2019	No samples collected due to low well levels					
	5/23/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	8/28/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	12/17/2019	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	2/19/2020	< 0.001	< 0.001	< 0.001	< 0.003	0.126	
	4/29/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	8/24/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	10/28/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.10	
	3/24/2021	No samples collected due to low well levels					
	6/28/2021	< 0.0025	< 0.0025	< 0.0025	< 0.005	<0.020	
	9/22/2021	< 0.001	< 0.001	< 0.001	< 0.002	<0.020	
	11/15/2021	< 0.001	< 0.001	< 0.001	< 0.0015	<0.020	
	2/9/2022	<0.001	<0.001	<0.001	<0.0015	<0.020	
	4/12/2022	No samples collected due to low well levels					
	7/27/2022	<0.001	<0.001	<0.001	<0.0015	<0.020	
	10/13/2022	<0.001	<0.001	<0.001	<0.0015	<0.020	
	1/31/2023	<0.001	<0.001	<0.001	<0.0015	<0.020	
	5/11/2023	No samples collected due to low well levels					
	7/18/2023	<0.001	<0.001	<0.001	<0.0015	<0.020	
10/19/2023	<0.001	<0.001	<0.001	<0.0015	<0.020		
1/17/2024	<0.001	<0.001	<0.001	<0.0015	<0.020		
10/17/2024	<0.001	<0.001	<0.001	<0.0015	<0.020		
4/11/2025	No samples collected due to low well levels						
11/6/2025	<0.001	<0.001	<0.001	<0.0015	<0.020		

Notes:

- mg/L: milligrams per liter
- ND: not detected, practical quantitation limit unknown
- NMWQCC: New Mexico Water Quality Control Commission
- : not analyzed
- <0.037: indicates result less than the stated laboratory reporting limit (PQL)

Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code



APPENDIX A

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499
Generated 11/21/2025 5:43:00 PM

JOB DESCRIPTION

Nell Hall #1

JOB NUMBER

885-37375-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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11/21/2025 5:43:00 PM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Nell Hall #1

Laboratory Job ID: 885-37375-1



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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Nell Hall #1

Job ID: 885-37375-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: Nell Hall #1

Job ID: 885-37375-1

Job ID: 885-37375-1

Eurofins Albuquerque

Job Narrative 885-37375-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/11/2025 6:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque



Client Sample Results

Client: Hilcorp Energy
 Project/Site: Nell Hall #1

Job ID: 885-37375-1

Client Sample ID: MW-6

Lab Sample ID: 885-37375-1

Date Collected: 11/06/25 12:30

Matrix: Water

Date Received: 11/11/25 06:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10		1.0	ug/L			11/19/25 22:43	1
Ethylbenzene	14		1.0	ug/L			11/19/25 22:43	1
Toluene	ND		1.0	ug/L			11/19/25 22:43	1
Xylenes, Total	ND		1.5	ug/L			11/19/25 22:43	1
Naphthalene	23		2.0	ug/L			11/19/25 22:43	1
1-Methylnaphthalene	ND		4.0	ug/L			11/19/25 22:43	1
2-Methylnaphthalene	ND		4.0	ug/L			11/19/25 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		11/19/25 22:43	1
Toluene-d8 (Surr)	109		70 - 130		11/19/25 22:43	1
4-Bromofluorobenzene (Surr)	109		70 - 130		11/19/25 22:43	1
Dibromofluoromethane (Surr)	103		70 - 130		11/19/25 22:43	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.1		0.20	mg/L		11/19/25 18:05	11/20/25 22:35	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Nell Hall #1

Job ID: 885-37375-1

Client Sample ID: MW-7

Lab Sample ID: 885-37375-2

Date Collected: 11/06/25 11:20

Matrix: Water

Date Received: 11/11/25 06:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/19/25 23:12	1
Ethylbenzene	ND		1.0	ug/L			11/19/25 23:12	1
Toluene	ND		1.0	ug/L			11/19/25 23:12	1
Xylenes, Total	ND		1.5	ug/L			11/19/25 23:12	1
Naphthalene	ND		2.0	ug/L			11/19/25 23:12	1
1-Methylnaphthalene	ND		4.0	ug/L			11/19/25 23:12	1
2-Methylnaphthalene	ND		4.0	ug/L			11/19/25 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		11/19/25 23:12	1
Toluene-d8 (Surr)	119		70 - 130		11/19/25 23:12	1
4-Bromofluorobenzene (Surr)	107		70 - 130		11/19/25 23:12	1
Dibromofluoromethane (Surr)	106		70 - 130		11/19/25 23:12	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.20	mg/L		11/19/25 18:05	11/20/25 22:37	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Nell Hall #1

Job ID: 885-37375-1

Client Sample ID: MW-8

Lab Sample ID: 885-37375-3

Date Collected: 11/06/25 10:00

Matrix: Water

Date Received: 11/11/25 06:10

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/19/25 23:40	1
Ethylbenzene	ND		1.0	ug/L			11/19/25 23:40	1
Toluene	ND		1.0	ug/L			11/19/25 23:40	1
Xylenes, Total	ND		1.5	ug/L			11/19/25 23:40	1
Naphthalene	ND		2.0	ug/L			11/19/25 23:40	1
1-Methylnaphthalene	ND		4.0	ug/L			11/19/25 23:40	1
2-Methylnaphthalene	ND		4.0	ug/L			11/19/25 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		11/19/25 23:40	1
Toluene-d8 (Surr)	119		70 - 130		11/19/25 23:40	1
4-Bromofluorobenzene (Surr)	106		70 - 130		11/19/25 23:40	1
Dibromofluoromethane (Surr)	105		70 - 130		11/19/25 23:40	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.20	mg/L		11/19/25 18:05	11/20/25 22:39	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: Nell Hall #1

Job ID: 885-37375-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-38725/5
Matrix: Water
Analysis Batch: 38725

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			11/19/25 16:36	1
Ethylbenzene	ND		1.0	ug/L			11/19/25 16:36	1
Toluene	ND		1.0	ug/L			11/19/25 16:36	1
Xylenes, Total	ND		1.5	ug/L			11/19/25 16:36	1
Naphthalene	ND		2.0	ug/L			11/19/25 16:36	1
1-Methylnaphthalene	ND		4.0	ug/L			11/19/25 16:36	1
2-Methylnaphthalene	ND		4.0	ug/L			11/19/25 16:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		11/19/25 16:36	1
Toluene-d8 (Surr)	117		70 - 130		11/19/25 16:36	1
4-Bromofluorobenzene (Surr)	106		70 - 130		11/19/25 16:36	1
Dibromofluoromethane (Surr)	104		70 - 130		11/19/25 16:36	1

Lab Sample ID: LCS 885-38725/3
Matrix: Water
Analysis Batch: 38725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	18.5		ug/L		93	70 - 130
Ethylbenzene	20.0	22.8		ug/L		114	70 - 130
Toluene	20.0	23.5		ug/L		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	121		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LLCS 860-277041/4-A
Matrix: Water
Analysis Batch: 277480

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 277041

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.200	0.218		mg/L		109	50 - 150

Lab Sample ID: MB 860-276173/24-B
Matrix: Water
Analysis Batch: 277480

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 277041

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.20	mg/L		11/19/25 18:05	11/20/25 21:12	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: Nell Hall #1

Job ID: 885-37375-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 860-276173/25-B
Matrix: Water
Analysis Batch: 277480

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 277041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	4.93		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-276173/26-B
Matrix: Water
Analysis Batch: 277480

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 277041

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	5.00	4.94		mg/L		99	85 - 115	0	20

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QC Association Summary

Client: Hilcorp Energy
Project/Site: Nell Hall #1

Job ID: 885-37375-1

GC/MS VOA

Analysis Batch: 38725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37375-1	MW-6	Total/NA	Water	8260B	
885-37375-2	MW-7	Total/NA	Water	8260B	
885-37375-3	MW-8	Total/NA	Water	8260B	
MB 885-38725/5	Method Blank	Total/NA	Water	8260B	
LCS 885-38725/3	Lab Control Sample	Total/NA	Water	8260B	

Metals

Filtration Batch: 276173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-276173/24-B	Method Blank	Dissolved	Water	Filtration	
LCS 860-276173/25-B	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 860-276173/26-B	Lab Control Sample Dup	Dissolved	Water	Filtration	

Prep Batch: 277041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37375-1	MW-6	Dissolved	Water	200.7	
885-37375-2	MW-7	Dissolved	Water	200.7	
885-37375-3	MW-8	Dissolved	Water	200.7	
MB 860-276173/24-B	Method Blank	Dissolved	Water	200.7	276173
LCS 860-276173/25-B	Lab Control Sample	Dissolved	Water	200.7	276173
LCSD 860-276173/26-B	Lab Control Sample Dup	Dissolved	Water	200.7	276173
LLCS 860-277041/4-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 277480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37375-1	MW-6	Dissolved	Water	200.7 Rev 4.4	277041
885-37375-2	MW-7	Dissolved	Water	200.7 Rev 4.4	277041
885-37375-3	MW-8	Dissolved	Water	200.7 Rev 4.4	277041
MB 860-276173/24-B	Method Blank	Dissolved	Water	200.7 Rev 4.4	277041
LCS 860-276173/25-B	Lab Control Sample	Dissolved	Water	200.7 Rev 4.4	277041
LCSD 860-276173/26-B	Lab Control Sample Dup	Dissolved	Water	200.7 Rev 4.4	277041
LLCS 860-277041/4-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	277041

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Lab Chronicle

Client: Hilcorp Energy
 Project/Site: Nell Hall #1

Job ID: 885-37375-1

Client Sample ID: MW-6

Lab Sample ID: 885-37375-1

Date Collected: 11/06/25 12:30

Matrix: Water

Date Received: 11/11/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	38725	ES	EET ALB	11/19/25 22:43
Dissolved	Prep	200.7			277041	MD	EET HOU	11/19/25 18:05
Dissolved	Analysis	200.7 Rev 4.4		1	277480	JDM	EET HOU	11/20/25 22:35

Client Sample ID: MW-7

Lab Sample ID: 885-37375-2

Date Collected: 11/06/25 11:20

Matrix: Water

Date Received: 11/11/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	38725	ES	EET ALB	11/19/25 23:12
Dissolved	Prep	200.7			277041	MD	EET HOU	11/19/25 18:05
Dissolved	Analysis	200.7 Rev 4.4		1	277480	JDM	EET HOU	11/20/25 22:37

Client Sample ID: MW-8

Lab Sample ID: 885-37375-3

Date Collected: 11/06/25 10:00

Matrix: Water

Date Received: 11/11/25 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	38725	ES	EET ALB	11/19/25 23:40
Dissolved	Prep	200.7			277041	MD	EET HOU	11/19/25 18:05
Dissolved	Analysis	200.7 Rev 4.4		1	277480	JDM	EET HOU	11/20/25 22:39

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Hilcorp Energy
 Project/Site: Nell Hall #1

Job ID: 885-37375-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1-Methylnaphthalene
8260B		Water	2-Methylnaphthalene
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Naphthalene
8260B		Water	Toluene
8260B		Water	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-05-26
Florida	NELAP	E871002	06-30-26
Louisiana (All)	NELAP	03054	06-30-26
New Mexico	State	TX00122	06-30-26
Oklahoma	NELAP	1306	12-31-25
Texas	NELAP	T104704215	06-30-26
Texas	TCEQ Water Supply	T104704215	12-30-25
USDA	US Federal Programs	525-23-79-79507	03-20-26



Eurofins Albuquerque

4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: N/A
 Shipping/Receiving: N/A
 Company: Eurofins Environment Testing South Cent
 Address: 4145 Greenbarr Dr
 City: Stafford
 State Zip: TX, 77477
 Phone: 281-240-4200 (Tel)
 Email: N/A
 Project Name: Nell Hall #1
 Site: N/A
 SSO#W#: N/A

Lab PM: Garcia, Michelle
 E-Mail: michelle.garcia@et.eurofins.com
 Carrier Tracking No(s): N/A
 State of Origin: New Mexico
 Job #: 885-37375-1
 Preservation Codes:

Due Date Requested: 11/18/2025
 TAT Requested (days): N/A
 Analysis Requested

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Over-sat)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note
MMW-6 (885-37375-1)	11/6/25	12:30	G	Water		X		1	
MMW-7 (885-37375-2)	11/6/25	11:20	G	Water		X		1	
MMW-8 (885-37375-3)	11/6/25	10:00	G	Water		X		1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assessments being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV Other (specify) _____
 Primary Deliverable Rank: 2

Special Instructions/QC Requirements:
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No. _____

Method of Shipping: **Received**
 Date/Time: Nov 12 2025
 Company: _____

Received by: _____
 Date/Time: Nov 12 2025
 Company: _____

Received by: _____
 Date/Time: Nov 12 2025
 Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-37375-1

Login Number: 37375

List Source: Eurofins Albuquerque

List Number: 1

Creator: Proctor, Nancy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-37375-1

Login Number: 37375
List Number: 2
Creator: Torrez, Lisandra

List Source: Eurofins Houston
List Creation: 11/12/25 10:53 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 558981

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 558981
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
owen.sitler	1) Continue semiannual groundwater monitoring as prescribed	5/22/2026
owen.sitler	2) Submit to OCD the 2026 Annual Groundwater Report no later than April 2, 2027	5/22/2026