



January 13, 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: Fourth Quarter 2025 – SVE System Update

Howell M#1
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: NRM2022755502

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Fourth Quarter 2025 – SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the Howell M#1 natural gas production well (Site), located in Unit N of Section 30, Township 30 North, Range 8 West, San Juan County, New Mexico (Figure 1). The SVE system was put into operation on June 6, 2023, to remediate subsurface soil impacts resulting from historical impacts discovered at the Site. This report summarizes Site activities performed in October, November, and December of 2025.

SVE SYSTEM SPECIFICATIONS

The SVE system at the Site consists of a 3-phase, 3.5 horsepower Atlantic Blower AB-500 regenerative blower capable of producing 230 cubic feet per minute (cfm) flow and 88 inches of water column (IWC) vacuum. The system is powered by a permanent power drop and is intended to run 24 hours per day. Six SVE wells, SVE01 through SVE06, are currently installed at the Site and are shown on Figure 2.

FOURTH QUARTER 2025 ACTIVITIES

The SVE system began operation on June 6, 2023. Based on the New Mexico Oil Conservation Division (NMOCD) Conditions of Approval (COAs), dated November 7, 2022, field data measurements were collected bi-weekly from the system during the fourth quarter of 2025 and included the following parameters: flow, vacuum, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from each SVE well and the total system influent, and oxygen/carbon dioxide measurements via hand-held analyzers from each SVE well. Field notes taken during operations and maintenance (O&M) visits are presented in Appendix A.

Between startup and November 28, 2025, vacuum extraction was performed on all Site SVE wells in order to induce flow in impacted soil zones. Based on diminishing photoionization detector (PID) readings at extraction well SVE01, the valve for the well was closed on November 28, 2025, to focus extraction on the five remaining SVE wells. Between September 23, 2025 and December 30, 2025, the SVE system operated for 2,331 hours for a runtime efficiency of 99.1 percent (%). Appendix B presents photographs of the runtime meter for calculating the fourth

quarter 2025 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percentage runtime.

Based on the November 2022 COAs, vapor samples are required to be collected quarterly following the first year of operation. A vapor sample was collected on November 12, 2025. Prior to collection, the vapor sample was field screened with a PID for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, VOCs following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261.

A summary of field measurements and analytical data collected at the Site are presented in Tables 2 and 3, respectively. The full laboratory analytical report is attached as Appendix C. Oxygen and Carbon dioxide levels over time are presented in Graphs 1 and 2, respectively.

Vapor sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 46,493 pounds (23.2 tons) of TVPH have been removed by the system to date. Vapor samples will continue to be collected on a quarterly basis for the remainder of system operation.

DISCUSSION AND RECOMMENDATIONS

The SVE system continues to effectively remove hydrocarbon mass from the subsurface in the current configuration. Bi-weekly visits and quarterly sampling events will continue to be performed by Ensolum and/or Hilcorp personnel to ensure the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report.

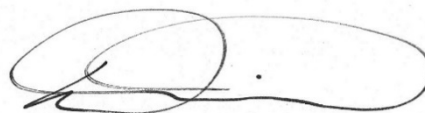
We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this report, please contact the undersigned.

Sincerely,

Ensolum, LLC



Stuart Hyde, LG (licensed in WY, WA & TX)
Senior Managing Geologist
(970) 903-1607
shyde@ensolum.com



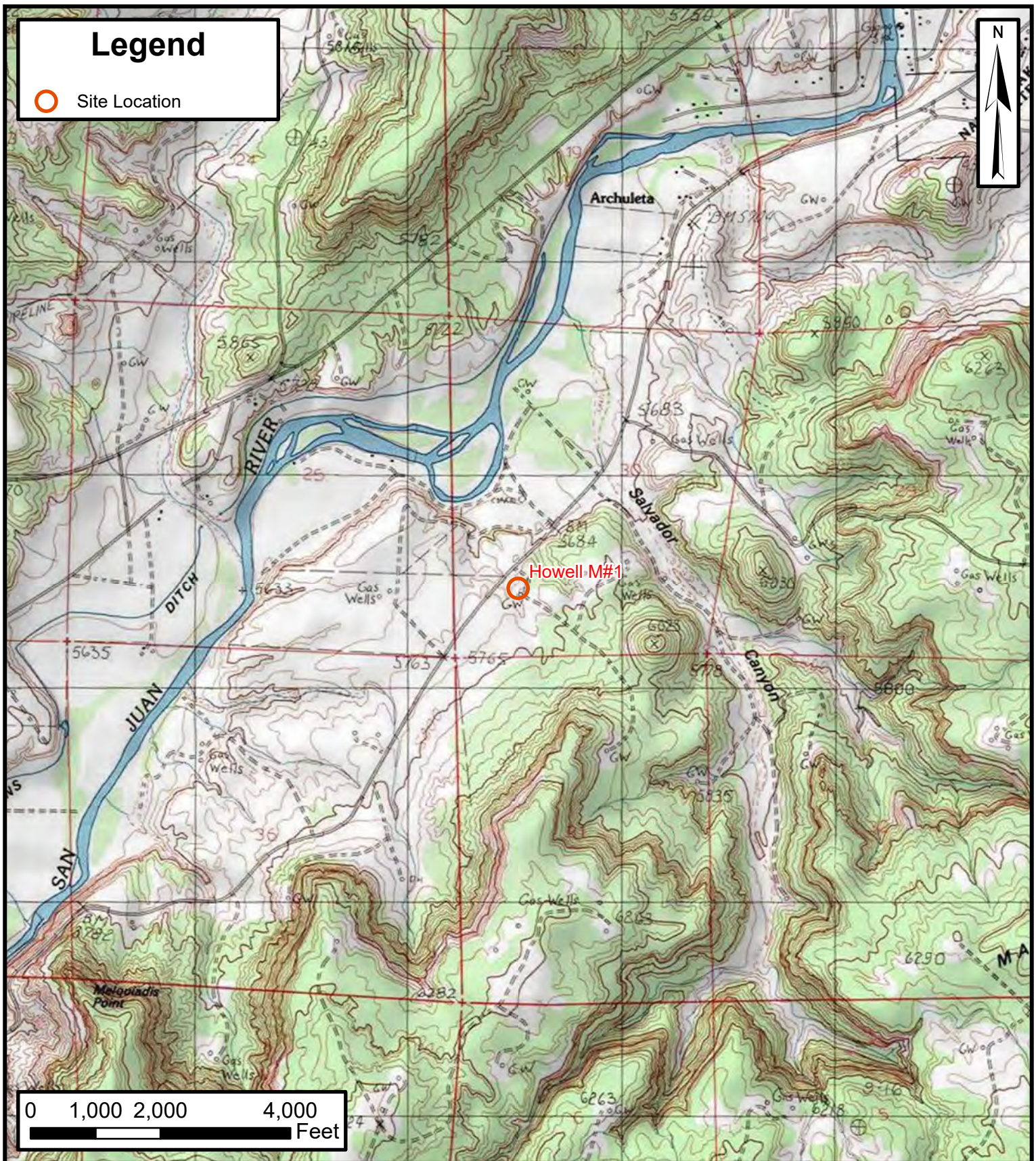
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist
(303) 887-2946
dmoir@ensolum.com

Attachments:

Figure 1	Site Location Map
Figure 2	Radius of Influence and Effect
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Field Measurements
Table 3	Soil Vapor Extraction System Air Analytical Results
Table 4	Soil Vapor Extraction System Mass Removal and Emissions
Graph 1	Oxygen vs Time
Graph 2	Carbon Dioxide vs Time
Appendix A	Field Notes
Appendix B	Project Photographs
Appendix C	Laboratory Analytical Reports



Figures



Site Location Map

Howell M#1

Hilcorp Energy Company

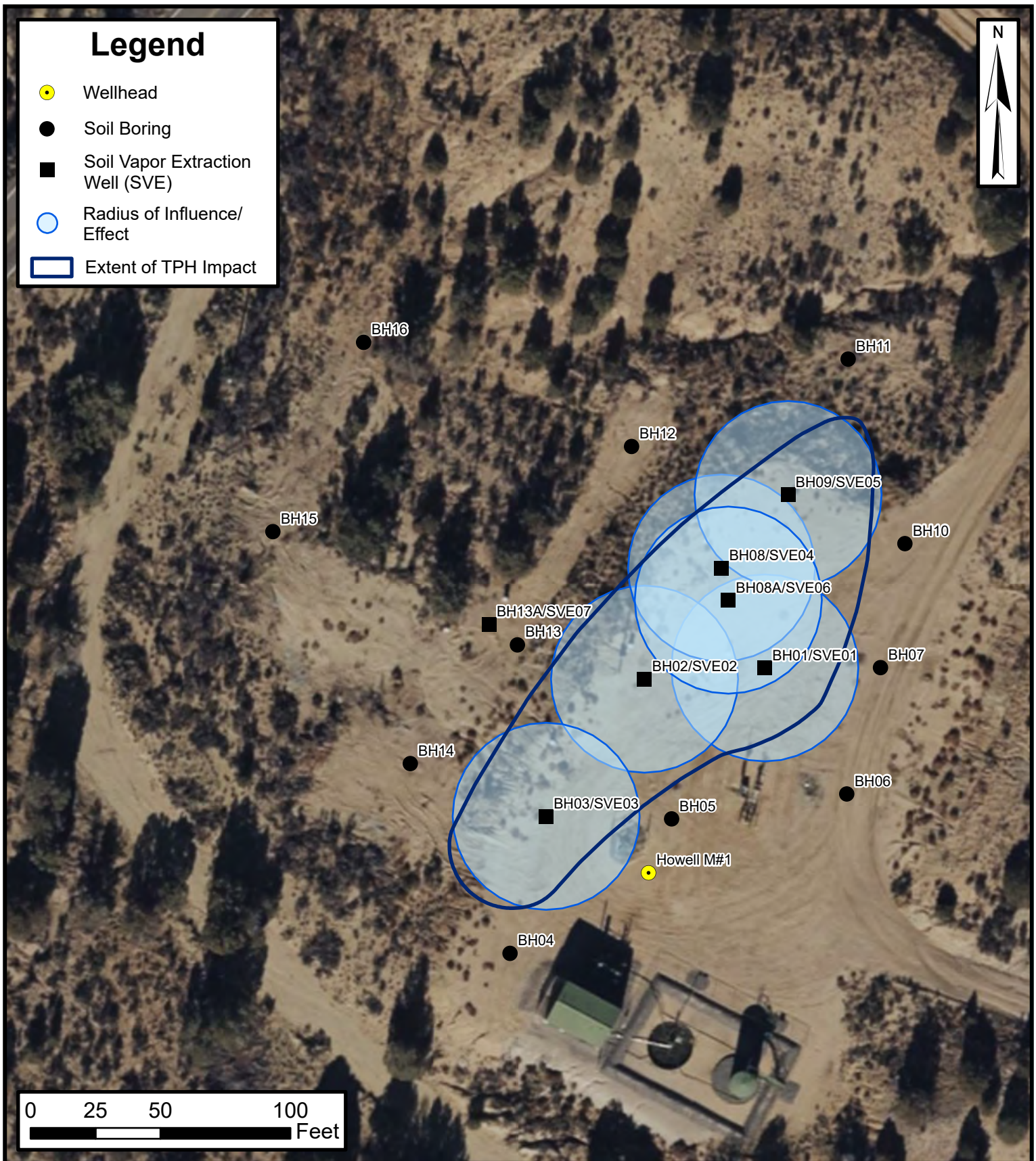
36.777808, -107.717657

San Juan County, New Mexico

FIGURE

1

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



RADIUS OF INFLUENCE AND EFFECT HOWELL M #1

Howell M#1
Hilcorp Energy Company
36.777808, -107.717657
San Juan County, New Mexico

FIGURE
2



Tables & Graphs



TABLE 1
SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

Howell M#1
Hilcorp Energy Company
San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Percent Runtime	Cumulative Percent Runtime
9/29/2023	2,687.4	Startup			
9/23/2025	19,695.6	318.5	15	88.5%	97.7%
10/16/2025	20,227.3	531.7	23	96.3%	97.7%
10/29/2025	20,541.0	313.7	13	100.5%	97.8%
11/12/2025	20,879.8	338.8	14	100.8%	97.8%
11/28/2025	21,257.5	377.7	16	98.4%	97.8%
12/16/2025	21,690.6	433.1	18	100.3%	97.9%
12/30/2025	22,026.5	335.9	14	100.0%	97.9%
				4th Qtr Runtime:	99.1%



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 Howell M#1
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾⁽³⁾	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
Influent, All Wells	6/6/2023	1,910	--	--	60	28	1.0	--	--
	6/7/2023	1,953	--	--	60	28	1.0	--	--
	6/13/2023	1,878	--	--	55	28	1.0	--	--
	6/22/2023	1,625	--	--	60	28	1.0	--	--
	6/29/2023	1,877	--	--	60	28	1.0	--	--
	7/13/2023	2,280	--	--	60	28	1.0	--	--
	7/27/2023	1,942	--	--	70	37	1.3	--	--
	8/9/2023	1,553	--	--	62	28	1.0	--	--
	8/24/2023	1,858	--	--	60	38	1.4	--	--
	9/8/2023	1,652	--	--	60	28	1.0	--	--
	9/21/2023	1,274	--	--	60	28	1.0	--	--
	10/30/2023	1,574	3.80	170	124	29	1.0	--	--
	11/2/2023	--	4.00	175	128	28	1.0	--	--
	12/1/2023	935	3.92	173	126	30	1.1	--	--
	12/19/2023	1,021	4.00	175	127	30	1.1	--	--
	1/9/2024	759	3.85	172	124	31	1.1	--	--
	1/23/2024	687	3.40	161	117	30	1.1	--	--
	1/29/2024	423	3.80	170	124	30	1.1	--	--
	2/6/2024	374	3.80	170	123	32	1.2	20.9	0.26
	2/22/2024	923	3.80	170	124	30	1.1	--	--
	3/6/2024	857	3.80	170	124	30	1.1	--	--
	3/25/2024	802	3.80	170	124	31	1.1	--	--
	4/8/2024	1,016	3.80	170	124	30	1.1	--	--
	4/17/2024	345	3.90	173	126	30	1.1	--	--
	5/14/2024	755	3.60	166	121	30	1.1	--	--
	5/23/2024	456	3.60	166	121	30	1.1	--	--
	6/4/2024	535	3.60	166	121	30	1.1	--	--
	6/27/2024	1,243	3.60	166	121	30	1.1	--	--
	7/10/2024	585	3.50	164	119	30	1.1	--	--
	7/26/2024	418	3.60	166	121	29	1.0	--	--
	8/8/2024	402	3.50	164	119	30	1.1	--	--
	8/21/2024	400	3.60	166	121	30	1.1	--	--
	9/6/2024	388	3.70	168	122	30	1.1	--	--
	9/19/2024	408	3.70	168	122	30	1.1	--	--
	10/14/2024	385	3.60	166	121	30	1.1	--	--
	10/29/2024	360	3.60	166	121	29	1.0	--	--
	11/6/2024	391	3.60	166	121	30	1.1	--	--
	11/19/2024	442	3.70	168	122	30	1.1	--	--
	12/3/2024	393	3.80	170	124	30	1.1	--	--
	12/17/2024	423	3.80	170	124	30	1.1	--	--
	1/8/2025	586	3.70	168	122	32	1.2	--	--
	1/22/2025	673	3.70	168	122	32	1.2	--	--
	2/11/2025	651	4.00	175	127	30	1.1	--	--
	2/27/2025	696	4.00	175	126	32	1.2	--	--
	3/17/2025	393	3.90	173	125	32	1.2	--	--
	3/30/2025	589	3.80	170	123	32	1.2	--	--
	4/15/2025	402	4.00	175	127	30	1.1	--	--
	4/30/2025	432	3.90	173	125	31	1.1	--	--
	5/14/2025	333	4.00	175	126	32	1.2	--	--
	5/28/2025	485	4.00	175	126	32	1.2	--	--
	6/11/2025	432	3.80	170	124	31	1.1	--	--
	6/25/2025	413	3.80	170	123	32	1.2	--	--
	7/16/2025	696	3.80	170	123	32	1.2	--	--
	7/29/2025	1,048	3.80	170	124	31	1.1	--	--
	8/12/2025	794	4.20	179	132	26	0.9	--	--
	8/21/2025	152	4.20	179	132	26	0.9	--	--
	9/8/2025	324	4.00	175	127	30	1.1	--	--
	9/23/2025	268	3.90	173	125	31	1.1	--	--
	10/16/2025	310	3.90	173	128.2	22	0.8	--	--
	10/29/2025	292	3.80	170	127.9	18	0.6	--	--
	11/12/2025	1,307	3.90	173	125.5	30	1.1	--	--
	11/28/2025	329	3.80	170	123.3	32	1.2	--	--
	12/16/2025	204	4.00	175	126.5	32	1.2	--	--
	12/30/2025	178	3.90	173	124.9	32	1.2	--	--
SVE01	6/6/2023	2,152	--	--	10.0	--	--	--	--
	6/7/2023	2,650	--	--	10.0	7.8	0.3	0.50	0.05
	6/13/2023	2,315	--	--	9.2	10	0.4	15.3	>5.0
	6/22/2023	1,953	--	--	10.0	9.6	0.3	19.6	3.99
	6/29/2023	1,935	--	--	10.0	9.9	0.4	21.4	1.52
	7/13/2023	1,515	--	--	10.0	--	--	21.9	0.64
	7/27/2023	2,265	--	--	11.7	9.6	0.3	21.1	1.48



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 Howell M#1
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ^{(1)/(2)/(3)}	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE01	8/9/2023	1,384	--	--	10.3	10.1	0.4	21.9	0.92
	8/24/2023	541	--	--	10.00	10.3	0.4	22.4	0.02
	9/8/2023	1,333	--	--	10.0	--	--	20.9	0.56
	9/21/2023	1,015	--	--	10.0	9.3	0.3	20.9	0.64
	10/30/2023	589	--	--	21.3	29	--	20.9	0.06
	11/2/2023	--	--	--	--	28	1.0	--	--
	12/1/2023	416	0.00	0	0.0	30	1.1	20.9	0.01
	12/19/2023	186	0.19	38	27.7	30	1.1	19.5	0.12
	1/9/2024	486	0.02	12	9.0	31	1.1	20.9	0.11
	1/23/2024	244	0.05	20	14.2	30	1.1	20.9	0.02
	1/29/2024	509	0.04	17	13.3	12	0.4	20.9	0.38
	2/6/2024	529	0.00	0	0.0	12	0.4	20.9	0.08
	2/22/2024	306	0.00	0	0.0	12	0.4	20.9	0.04
	3/6/2024	314	0.01	9	6.7	12	0.4	20.9	0.04
	3/25/2024	632	0.01	9	6.7	12	0.5	20.8	0.10
	4/8/2024	603	0.01	9	6.7	12	0.4	20.9	0.04
	4/17/2024	257	0.01	9	6.7	12	0.4	20.8	0.03
	5/14/2024	336	0.00	0	0.0	11	0.4	20.7	0.06
	5/23/2024	155	0.00	0	0.0	11	0.4	20.6	0.02
	6/4/2024	271	0.00	0	0.0	11	0.4	20.9	0.05
	6/27/2024	173	0.00	0	0.0	11	0.4	20.9	0.03
	7/10/2024	259	0.00	0	0.0	11	0.4	20.9	0.04
	7/26/2024	310	0.00	0	0.0	11	0.4	20.9	0.04
	8/8/2024	101	0.00	0	0.0	11	0.4	20.9	0.05
	8/21/2024	233	0.00	0	0.0	11	0.4	20.9	0.06
	9/6/2024	219	0.02	12	9.4	11	0.4	20.9	0.09
	9/19/2024	153	0.01	9	6.7	11	0.4	20.9	0.06
	10/14/2024	183	0.01	9	6.7	11	0.4	20.9	0.11
	10/29/2024	234	0.01	9	6.7	12	0.4	20.9	0.17
	11/6/2024	201	0.01	9	6.7	12	0.4	20.9	0.15
	11/19/2024	197	0.01	9	6.7	12	0.4	20.9	0.06
	12/3/2024	163	0.01	9	6.7	12	0.4	20.9	0.05
	12/17/2024	174	0.01	9	6.7	12	0.4	20.9	0.06
	1/8/2025	180	0.01	9	6.7	12	0.4	20.9	0.03
	1/22/2025	197	0.01	9	6.7	13	0.5	20.9	0.01
	2/11/2025	188	0.01	9	6.7	12	0.4	20.9	0.02
	2/27/2025	242	0.01	9	6.6	13	0.5	--	--
	3/17/2025	210	0.01	9	6.6	13	0.5	--	--
	3/30/2025	211	0.01	9	6.7	12	0.4	20.9	0.20
	4/15/2025	77	0.01	9	6.7	12	0.5	20.9	0.3
	4/30/2025	193	0.01	9	6.7	13	0.5	20.9	0.2
	5/14/2025	139	0.01	9	6.7	13	0.5	19.9	0.05
	5/28/2025	165	0.01	9	6.7	13	0.5	20.1	0.06
	6/11/2025	196	0.01	9	6.7	12	0.4	20.9	0.05
	6/25/2025	183	0.01	9	6.7	12	0.4	20.9	0.06
	7/16/2025	101	0.01	9	6.7	12	0.4	20.7	0.11
	7/29/2025	355	0.01	9	6.7	11	0.4	20.9	0.18
	8/12/2025	152	0.00	0	0.0	11	0.4	20.9	0.15
	8/21/2025	17	0.01	9	6.7	11	0.4	20.9	0.04
	9/8/2025	58	0.00	0	0.0	12	0.4	20.8	0.08
	9/23/2025	77	0.01	9	6.7	12	0.4	20.7	0.08
	10/16/2025	75	0.00	0	0.0	12	0.4	20.8	0.04
	10/29/2025	62	0.00	0	0.0	11	0.4	20.9	0.03
	11/12/2025	214	0.01	9	6.7	12	0.4	20.9	0.12
	11/28/2025	Well Taken Offline							
SVE02	6/6/2023	2,201	--	--	10.0	--	--	--	--
	6/7/2023	2,216	--	--	10.0	8.3	0.3	3.30	0.05
	6/13/2023	2,243	--	--	9.2	9.4	0.3	20.9	2.22
	6/22/2023	1,820	--	--	10.0	8.8	0.3	21.7	0.90
	6/29/2023	2,395	--	--	10.0	8.8	0.3	21.7	0.84
	7/13/2023	264	--	--	10.0	--	--	22.5	0.02
	7/27/2023	2,205	--	--	11.7	9.1	0.3	22.9	0.54
	8/9/2023	1,520	--	--	10.3	9.3	0.3	22.4	0.42
	8/24/2023	146	--	--	10.0	9.5	0.3	22.4	0.04
	9/8/2023	1,086	--	--	10.0	--	--	20.9	0.14
	9/21/2023	1,189	--	--	10.0	8.8	0.3	20.9	0.24
	10/30/2023	404	--	--	20.7	29	1.0	20.9	0.09
	11/2/2023	--	--	--	21.3	28	1.0	--	--



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 Howell M#1
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 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ^{(1)/(2)/(3)}	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE02	12/1/2023	1,302	0.23	42	30.5	30	1.1	20.9	0.15
	12/19/2023	293	0.36	52	38.1	30	1.1	19.5	0.08
	1/9/2024	540	0.21	40	29.1	31	1.1	20.9	0.04
	1/23/2024	696	0.25	44	33.4	11	0.4	20.9	0.08
	1/29/2024	1,010	0.12	30	23.1	12	0.4	20.9	0.22
	2/6/2024	341	0.19	38	29.1	12	0.4	20.9	0.03
	2/22/2024	748	0.19	38	29.1	11	0.4	20.9	0.09
	3/6/2024	244	0.20	39	29.9	11	0.4	20.9	0.02
	3/25/2024	638	0.23	42	32.0	12	0.4	20.9	0.06
	4/8/2024	417	0.24	43	32.7	12	0.4	20.9	0.04
	4/17/2024	82	0.23	42	32.0	11	0.4	20.9	0.01
	5/14/2024	337	0.19	38	29.1	11	0.4	20.9	0.03
	5/22/2024	189	0.18	37	28.3	11	0.4	20.8	0.05
	6/4/2024	517	0.18	37	28.4	11	0.4	20.9	0.08
	6/27/2024	243	0.18	37	28.3	11	0.4	20.8	0.07
	7/10/2024	452	0.18	37	28.4	11	0.4	20.8	0.08
	7/26/2024	525	0.21	40	30.6	10	0.4	20.9	0.07
	8/8/2024	259	0.21	40	30.7	10	0.4	20.9	0.05
	8/21/2024	432	0.22	41	31.4	10	0.4	20.9	0.08
	9/6/2024	413	0.21	40	30.6	10	0.4	20.9	0.08
	9/19/2024	208	0.21	40	30.6	10	0.4	20.9	0.06
	10/14/2024	368	0.21	40	30.6	10	0.4	20.9	0.15
	10/29/2024	324	0.21	40	30.6	11	0.4	20.9	0.11
	11/6/2024	333	0.21	40	30.6	11	0.4	20.9	0.13
	11/19/2024	321	0.22	41	31.3	11	0.4	20.9	0.11
	12/3/2024	395	0.22	41	31.3	11	0.4	20.9	0.07
	12/17/2024	403	0.26	45	34.0	11	0.4	20.9	0.09
	1/8/2025	390	0.25	44	33.3	12	0.4	20.9	0.06
	1/22/2025	385	0.24	43	32.6	12	0.4	20.9	0.06
	2/11/2025	398	0.25	44	33.3	12	0.4	20.9	0.05
	2/27/2025	248	0.22	41	31.2	12	0.4	--	--
	3/17/2025	588	0.21	40	30.5	12	0.4	--	--
	3/30/2025	160	0.22	41	31.2	12	0.4	20.9	0.20
	4/15/2025	237	0.27	45	34.6	12	0.4	20.9	0.3
	4/30/2025	127	0.22	41	31.2	12	0.4	20.9	0.1
	5/14/2025	174	0.22	41	31.3	12	0.4	20.9	0.05
	5/28/2025	151	0.22	41	31.3	12	0.4	20.9	0.05
	6/11/2025	390	0.21	40	30.6	11	0.4	20.9	0.15
	6/25/2025	237	0.22	41	31.3	11	0.4	20.9	0.09
	7/16/2025	284	0.21	40	30.6	11	0.4	20.9	0.12
	7/29/2025	512	0.22	41	31.3	11	0.4	20.9	0.12
	8/12/2025	258	0.23	42	32.0	11	0.4	20.9	0.06
	8/21/2025	58	0.22	41	31.4	10	0.4	20.9	0.04
	9/8/2025	285	0.22	41	31.3	11	0.4	20.9	0.09
	9/23/2025	334	0.23	42	32.0	11	0.4	20.7	0.13
	10/16/2025	322	0.22	41	31.3	11	0.4	20.9	0.08
	10/29/2025	252	0.21	40	30.6	11	0.4	20.9	0.11
	11/12/2025	202	0.24	43	32.7	11	0.4	20.9	0.10
	11/28/2025	216	--	--	--	12	0.4	20.9	0.08
	12/16/2025	136	0.27	45	34.6	12	0.4	20.9	0.08
	12/30/2025	119	0.27	45	34.6	12	0.4	20.9	0.08
SVE03	6/6/2023	1,694	--	--	10.0	--	--	--	--
	6/7/2023	1,895	--	--	10.0	7.20	0.3	1.00	0.05
	6/13/2023	1,804	--	--	9.2	9.00	0.3	17.2	4.34
	6/22/2023	1,530	--	--	10.0	8.50	0.3	20.5	2.36
	6/29/2023	1,782	--	--	10.0	8.40	0.3	20.9	1.92
	7/13/2023	2,025	--	--	10.0	--	--	20.9	1.34
	7/27/2023	1,795	--	--	11.7	8.90	0.3	21.7	1.28
	8/9/2023	1,402	--	--	10.3	9.30	0.3	21.9	0.96
	8/24/2023	1,785	--	--	10.0	9.20	0.3	21.2	0.88
	9/8/2023	1,527	--	--	10.0	--	--	20.9	0.77
	9/21/2023	1,467	--	--	10.0	8.80	0.3	20.9	0.70
	10/30/2023	1,200	--	--	20.7	29	1.0	20.9	0.44
	11/2/2023	--	--	--	21.3	28	1.0	--	--
	12/1/2023	803	0.07	23	16.8	30	1.1	20.9	0.28
	12/19/2023	334	0.27	45	33.0	30	1.1	19.3	0.24
	1/9/2024	766	0.12	30	22.0	31	1.1	20.9	0.15
	1/23/2024	767	0.10	28	21.1	11	0.4	20.9	0.15
	1/29/2024	577	0.11	29	22.1	12	0.4	20.9	0.38
	2/6/2024	729	0.08	25	18.9	11	0.4	20.9	0.12



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 Howell M#1
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾⁽³⁾	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE03	2/22/2024	984	0.09	26	20.0	11	0.4	20.9	0.20
	3/6/2024	821	0.09	26	20.0	11	0.4	20.9	0.17
	3/25/2024	1,009	0.12	30	23.1	11	0.4	20.6	0.20
	4/8/2024	849	0.12	30	23.1	11	0.4	20.9	0.15
	4/17/2024	693	0.11	29	22.2	11	0.4	20.7	0.11
	5/14/2024	822	0.09	26	20.1	11	0.4	20.6	0.18
	5/23/2024	697	0.09	26	20.1	10	0.4	20.7	0.10
	6/4/2024	746	0.08	25	18.9	10	0.4	20.8	0.15
	6/27/2024	704	0.09	26	20.1	10	0.4	20.7	0.10
	7/10/2024	801	0.08	25	18.9	10	0.4	20.9	0.14
	7/26/2024	787	0.12	30	23.2	10	0.4	20.9	0.13
	8/8/2024	579	0.11	29	22.2	10	0.4	20.9	0.12
	8/21/2024	465	0.08	25	18.9	10	0.4	20.9	0.10
	9/6/2024	442	0.10	28	21.2	10	0.4	20.9	0.14
	9/19/2024	616	0.08	25	18.9	10	0.4	20.9	0.16
	10/14/2024	349	0.08	25	18.9	10	0.4	20.7	0.19
	10/29/2024	503	0.22	41	31.3	11	0.4	20.9	0.17
	11/6/2024	456	0.19	38	29.2	10	0.4	20.9	0.18
	11/19/2024	613	0.18	37	28.4	11	0.4	20.9	0.12
	12/3/2024	568	0.19	38	29.1	11	0.4	20.9	0.10
	12/17/2024	594	0.18	37	28.3	11	0.4	20.9	0.11
	1/8/2025	596	0.18	37	28.3	11	0.4	20.9	0.12
	1/22/2025	615	0.17	36	27.5	11	0.4	20.9	0.17
	2/11/2025	654	0.17	36	27.5	11	0.4	20.9	0.11
	2/27/2025	644	0.11	29	22.1	11	0.4	--	--
	3/17/2025	588	0.15	34	25.8	12	0.4	--	--
	3/30/2025	613	0.17	36	27.5	12	0.4	20.9	0.30
	4/15/2025	359	0.17	36	27.5	11	0.4	20.9	0.2
	4/30/2025	532	0.16	35	26.7	11	0.4	20.9	0.2
	5/14/2025	339	0.08	25	18.9	11	0.4	20.8	0.14
	5/28/2025	472	0.11	29	22.1	11	0.4	20.9	0.13
	6/11/2025	511	0.12	30	23.2	11	0.4	20.9	0.30
	6/25/2025	494	0.10	28	21.1	11	0.4	20.9	0.21
	7/16/2025	357	0.10	28	21.1	11	0.4	20.5	0.18
	7/29/2025	708	0.11	29	22.2	11	0.4	20.9	0.26
	8/12/2025	416	0.13	32	24.1	10	0.4	20.9	0.10
	8/21/2025	255	0.11	29	22.2	10	0.4	20.9	0.19
	9/8/2025	552	0.15	34	25.9	11	0.4	20.7	0.25
	9/23/2025	782	0.14	33	25.0	11	0.4	20.4	0.45
	10/16/2025	647	0.15	34	25.9	11	0.4	20.9	0.22
	10/29/2025	533	0.14	33	25.0	10	0.4	20.6	0.18
	11/12/2025	187	0.11	29	22.1	11	0.4	20.9	0.23
	11/28/2025	354	--	--	--	11	0.4	20.9	0.23
	12/16/2025	318	0.13	32	24.1	11	0.4	20.9	0.22
	12/30/2025	289	0.14	33	25.0	11	0.4	20.9	0.20
SVE04	6/6/2023	1,859	--	--	10.0	--	--	--	--
	6/7/2023	2,260	--	--	10.0	8.60	0.3	7.40	0.05
	6/13/2023	1,944	--	--	9.20	9.00	0.3	20.9	2.26
	6/22/2023	1,650	--	--	10.0	8.90	0.3	21.9	0.94
	6/29/2023	609	--	--	10.0	8.30	0.3	23.2	0.12
	7/13/2023	2,375	--	--	10.0	--	--	21.9	0.68
	7/27/2023	1,844	--	--	11.7	8.80	0.3	22.8	0.56
	8/9/2023	1,340	--	--	10.3	9.20	0.3	22.4	0.42
	8/24/2023	325	--	--	10.0	9.30	0.3	22.4	0.08
	9/8/2023	791	--	--	10.0	--	--	21.1	0.20
	9/21/2023	192	--	--	10.0	9.20	0.3	21.1	0.00
	10/30/2023	675	--	--	20.7	29	1.0	20.9	0.12
	11/2/2023	--	--	--	21.3	28	1.0	--	--
	12/1/2023	803	0.51	62	45.4	30	1.1	20.9	0.12
	12/19/2023	249	0.63	69	50.5	30	1.1	19.5	0.14
	1/9/2024	716	0.18	37	26.9	31	1.1	20.9	0.08
	1/23/2024	721	0.53	64	48.6	11	0.4	20.9	0.08
	1/29/2024	943	0.66	71	54.0	13	0.5	20.9	0.24
	2/6/2024	644	0.51	62	47.6	11	0.4	20.9	0.06
	2/22/2024	902	0.09	26	20.0	11	0.4	20.9	0.11
	3/6/2024	637	0.52	63	48.2	11	0.4	20.9	0.07
	3/25/2024	810	0.54	64	49.0	11	0.4	20.9	0.09
	4/8/2024	865	0.53	64	48.6	11	0.4	20.9	0.09
	4/17/2024	716	0.53	64	48.7	11	0.4	20.7	0.10
	5/14/2024	757	0.46	59	45.4	10	0.4	20.8	0.12



TABLE 2
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 Howell M#1
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ^{(1)/(2)/(3)}	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE04	5/23/2024	751	0.48	61	46.3	10	0.4	20.3	0.12
	6/4/2024	574	0.48	61	46.4	10	0.4	20.9	0.12
	6/27/2024	622	0.40	55	42.3	10	0.4	20.8	0.11
	7/10/2024	586	0.42	57	43.4	10	0.4	20.8	0.12
	7/26/2024	550	0.46	59	45.4	10	0.4	20.9	0.12
	8/8/2024	322	0.47	60	45.9	10	0.4	20.9	0.09
	8/21/2024	457	0.45	59	44.9	10	0.4	20.9	0.09
	9/6/2024	293	0.44	58	44.4	10	0.4	20.9	0.10
	9/19/2024	647	0.42	57	43.4	10	0.4	20.9	0.16
	10/14/2024	510	0.43	57	43.9	10	0.4	20.9	0.17
	10/29/2024	438	0.39	55	41.7	11	0.4	20.9	0.13
	11/6/2024	482	0.41	56	42.8	11	0.4	20.9	0.15
	11/19/2024	537	0.43	57	43.8	11	0.4	20.9	0.09
	12/3/2024	389	0.39	55	41.7	11	0.4	20.9	0.09
	12/17/2024	442	0.41	56	42.8	11	0.4	20.9	0.04
	1/8/2025	481	0.43	57	43.8	11	0.4	20.9	0.05
	1/22/2025	520	0.39	55	41.7	11	0.4	20.9	0.08
	2/11/2025	504	0.40	55	42.2	11	0.4	20.9	0.04
	2/27/2025	652	0.53	64	48.6	11	0.4	--	--
	3/17/2025	296	0.38	54	41.1	11	0.4	--	--
	3/30/2025	508	0.41	56	42.7	11	0.4	20.9	0.20
	4/15/2025	362	0.38	54	41.2	11	0.4	20.9	0.2
	4/30/2025	418	0.40	55	42.2	11	0.4	20.9	0.2
	5/14/2025	252	0.46	59	45.3	11	0.4	20.9	0.09
	5/28/2025	384	0.43	57	43.8	11	0.4	20.9	0.08
	6/11/2025	303	0.44	58	44.3	11	0.4	20.9	0.12
	6/25/2025	342	0.41	56	42.8	11	0.4	20.9	0.10
	7/16/2025	342	0.44	58	44.4	10	0.4	20.7	0.17
	7/29/2025	269	0.43	57	43.9	10	0.4	20.9	0.08
	8/12/2025	296	0.42	57	43.4	10	0.4	20.9	0.10
	8/21/2025	147	0.41	56	42.9	10	0.3	20.9	0.11
	9/8/2025	228	0.39	55	41.8	10	0.4	20.9	0.06
	9/23/2025	179	0.40	55	42.3	10	0.4	20.7	0.10
	10/16/2025	211	0.38	54	41.2	10	0.4	20.7	0.12
	10/29/2025	200	0.37	53	40.7	10	0.4	20.8	0.08
	11/12/2025	329	0.35	52	39.5	11	0.4	20.9	0.16
	11/28/2025	246	--	--	--	11	0.4	20.9	0.16
	12/16/2025	134	0.61	68	52.1	11	0.4	20.9	0.07
	12/30/2025	100	0.63	69	53.0	11	0.4	20.9	0.10
SVE05	6/6/2023	1,922	--	--	10.0	--	--	--	--
	6/7/2023	2,110	--	--	10.0	10.0	0.4	16.8	0.05
	6/13/2023	1,265	--	--	9.20	10.2	0.4	22.4	1.96
	6/22/2023	950	--	--	10.0	9.70	0.4	22.8	0.90
	6/29/2023	1,043	--	--	10.0	9.40	0.3	22.8	0.72
	7/13/2023	1,205	--	--	10.0	--	--	22.5	0.58
	7/27/2023	875	--	--	11.7	9.80	0.4	23.4	0.42
	8/9/2023	795	--	--	10.3	10.0	0.4	22.5	0.38
	8/24/2023	475	--	--	10.0	10.5	0.4	22.5	0.28
	9/8/2023	398	--	--	10.0	--	--	20.9	0.28
	9/21/2023	219	--	--	10.0	10.2	0.4	21.2	0.06
	10/30/2023	404	--	--	20.7	29	1.0	20.9	0.14
	11/2/2023	--	--	--	21.3	28	1.0	--	--
	12/1/2023	387	0.14	33	23.8	30	1.1	20.9	0.09
	12/19/2023	327	0.23	42	30.5	30	1.1	19.5	0.08
	1/9/2024	361	0.18	37	26.9	31	1.1	20.9	0.05
	1/23/2024	355	0.16	35	26.7	12	0.4	20.9	0.10
	1/29/2024	471	0.18	37	28.2	12	0.4	20.9	0.24
	2/6/2024	300	0.13	32	24.0	12	0.4	20.9	0.07
	2/22/2024	362	0.16	35	26.7	12	0.4	20.9	0.10
	3/6/2024	381	0.18	37	28.3	12	0.4	20.9	0.07
	3/25/2024	598	0.15	34	25.8	12	0.4	20.9	0.09
	4/8/2024	631	0.14	33	24.9	12	0.4	20.9	0.09
	4/17/2024	344	0.15	34	25.8	12	0.4	20.8	0.10
	5/14/2024	321	0.12	30	23.1	12	0.4	20.9	0.08
	5/23/2024	369	0.12	30	23.1	12	0.4	20.8	0.06
	6/4/2024	392	0.13	32	24.0	12	0.4	20.9	0.09
	6/27/2024	419	0.10	28	21.1	11	0.4	20.8	0.07
	7/10/2024	406	0.13	32	24.0	12	0.4	20.9	0.08
	7/26/2024	295	0.14	33	25.0	11	0.4	20.9	0.08
	8/8/2024	186	0.13	32	24.1	11	0.4	20.9	0.08



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 Howell M#1
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 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾⁽³⁾	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE05	8/21/2024	202	0.14	33	25.0	11	0.4	20.9	0.07
	9/6/2024	182	0.15	34	25.8	11	0.4	20.9	0.12
	9/19/2024	296	0.13	32	24.0	12	0.4	20.9	0.13
	10/14/2024	210	0.13	32	24.0	12	0.4	20.9	0.11
	10/29/2024	292	0.13	32	24.0	12	0.4	20.9	0.13
	11/6/2024	290	0.12	30	23.1	12	0.4	20.9	0.12
	11/19/2024	298	0.18	37	28.2	12	0.4	20.9	0.09
	12/3/2024	324	0.11	29	22.1	12	0.4	20.9	0.07
	12/17/2024	326	0.15	34	25.8	12	0.4	20.9	0.07
	1/8/2025	323	0.14	33	24.9	12	0.4	20.9	0.07
	1/22/2025	298	0.17	36	27.4	12	0.4	20.9	0.08
	2/11/2025	309	0.15	34	25.8	12	0.4	20.9	0.07
	2/27/2025	335	0.08	25	18.8	13	0.5	--	--
	3/17/2025	207	0.14	33	24.9	13	0.5	--	--
	3/30/2025	312	0.11	29	22.1	12	0.4	20.9	0.30
	4/15/2025	97	0.15	34	25.7	13	0.5	20.9	0.3
	4/30/2025	233	0.13	32	24.0	12	0.4	20.9	0.3
	5/14/2025	136	0.17	36	27.4	13	0.5	20.9	0.10
	5/28/2025	184	0.16	35	26.6	13	0.5	20.9	0.08
	6/11/2025	184	0.16	35	26.6	12	0.4	20.9	0.11
	6/25/2025	177	0.15	34	25.8	12	0.4	20.9	0.09
	7/16/2025	167	0.17	36	27.5	12	0.4	20.9	0.15
	7/29/2025	176	0.16	35	26.7	12	0.4	20.9	0.08
	8/12/2025	184	0.16	35	26.7	11	0.4	20.9	0.08
	8/21/2025	13	0.15	34	25.9	11	0.4	20.9	0.08
	9/8/2025	76	0.15	34	25.8	12	0.4	20.8	0.10
	9/23/2025	89	0.14	33	24.9	12	0.4	20.7	0.11
	10/16/2025	91	0.19	38	29.1	11	0.4	20.9	0.04
	10/29/2025	69	0.12	30	23.1	11	0.4	20.9	0.06
	11/12/2025	191	0.09	26	20.0	12	0.5	20.9	0.16
	11/28/2025	208	--	--	--	12	0.4	20.9	0.15
	12/16/2025	95	0.23	42	31.9	13	0.5	20.9	0.11
	12/30/2025	107	0.22	41	31.2	13	0.5	20.9	0.13
SVE06	6/6/2023	1,713	--	--	10.0	--	--	--	--
	6/7/2023	1,701	--	--	10.0	9.20	0.3	0.80	0.05
	6/13/2023	1,262	--	--	9.20	10.4	0.4	12.1	>5.0
	6/22/2023	1,715	--	--	10.0	9.90	0.4	19.1	2.40
	6/29/2023	1,829	--	--	10.0	9.30	0.3	17.9	3.48
	7/13/2023	2,560	--	--	10.0	--	--	21.1	0.72
	7/27/2023	2,142	--	--	11.7	9.80	0.4	19.9	2.26
	8/9/2023	1,775	--	--	10.3	10.4	0.4	21.9	0.66
	8/24/2023	3,131	--	--	10.0	10.2	0.4	20.9	1.48
	9/8/2023	2,396	--	--	10.0	--	--	20.9	1.43
	9/21/2023	2,470	--	--	10.0	9.90	0.4	20.5	1.26
	10/30/2023	83	--	--	20.7	29	1.0	20.9	0.04
	11/2/2023	--	--	--	21.3	28	1.0	--	--
	12/1/2023	1,567	0.02	12	9.0	30	1.1	20.9	0.08
	12/19/2023	970	0.17	36	27.5	12	0.4	19.5	0.08
	1/9/2024	1,390	0.02	12	9.0	30	1.1	20.9	0.10
	1/23/2024	864	0.04	17	13.3	12	0.4	20.9	0.02
	1/29/2024	2,533	0.08	25	18.8	12	0.4	20.9	0.78
	2/6/2024	798	0.00	0	0.0	13	0.5	20.9	0.04
	2/22/2024	1,128	0.00	0	0.0	12	0.4	20.9	0.07
	3/6/2024	483	0.04	17	13.3	12	0.4	20.9	0.05
	3/25/2024	1,082	0.01	9	6.7	13	0.5	20.9	0.09
	4/8/2024	1,188	0.01	9	6.7	13	0.5	20.9	0.12
	4/17/2024	644	0.01	9	6.7	12	0.4	20.9	0.10
	5/14/2024	606	0.00	0	0.0	12	0.4	20.8	0.08
	5/23/2024	581	0.00	0	0.0	11	0.4	20.5	0.09
	6/4/2024	499	0.00	0	0.0	11	0.4	20.9	0.09
	6/27/2024	397	0.00	0	0.0	11	0.4	20.9	0.08
	7/10/2024	528	0.00	0	0.0	11	0.4	20.9	0.08
	7/26/2024	408	0.00	0	0.0	11	0.4	20.9	0.08
	8/8/2024	240	0.00	0	0.0	11	0.4	20.9	0.05
	8/21/2024	194	0.00	0	0.0	11	0.4	20.9	0.06
	9/6/2024	295	0.00	0	0.0	11	0.4	20.9	0.06
	9/19/2024	731	0.04	17	13.3	11	0.4	20.7	0.19
	10/14/2024	245	0.03	15	11.6	11	0.4	20.9	0.09
	10/29/2024	364	0.02	12	9.4	12	0.4	20.9	0.09
	11/6/2024	357	0.03	15	11.6	11	0.4	20.9	0.09
	11/19/2024	388	0.02	12	9.4	13	0.5	20.9	0.08



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 Howell M#1
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾⁽³⁾	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE06	12/3/2024	367	0.02	12	9.4	12	0.4	20.9	0.10
	12/17/2024	392	0.02	12	9.4	12	0.4	20.9	0.08
	1/8/2025	601	0.01	9	6.7	12	0.5	20.9	0.06
	1/22/2025	730	0.02	12	9.4	13	0.5	20.9	0.06
	2/11/2025	745	0.01	9	6.6	13	0.5	20.9	0.06
	2/27/2025	677	0.02	12	9.4	13	0.5	--	--
	3/17/2025	254	0.02	12	9.4	13	0.5	--	--
	3/30/2025	242	0.00	0	0.0	13	0.5	20.9	0.20
	4/15/2025	377	0.01	9	6.7	12	0.4	20.7	0.2
	4/30/2025	267	0.01	9	6.6	13	0.5	20.9	0.2
	5/14/2025	90	0.01	9	6.7	13	0.5	20.8	0.03
	5/28/2025	179	0.01	9	6.6	13	0.5	20.9	0.02
	6/11/2025	130	0.01	9	6.7	12	0.4	20.9	0.02
	6/25/2025	164	0.01	9	6.7	12	0.4	20.9	0.02
	7/16/2025	376	0.01	9	6.7	12	0.4	20.9	0.16
	7/29/2025	323	0.01	9	6.7	11	0.4	20.9	0.08
	8/12/2025	412	0.01	9	6.7	11	0.4	20.9	0.15
	8/21/2025	165	0.01	9	6.7	11	0.4	20.9	0.07
	9/8/2025	374	0.01	9	6.7	11	0.4	20.9	0.06
	9/23/2025	79	0.01	9	6.7	12	0.4	20.7	0.02
	10/16/2025	181	0.01	9	6.7	11	0.4	20.9	0.02
	10/29/2025	213	0.00	0	0.0	11	0.4	20.9	0.04
	11/12/2025	868	0.01	9	6.7	12	0.4	20.9	0.18
	11/28/2025	532	--	--	--	12	0.4	20.9	0.13
	12/16/2025	184	0.00	0	0.0	13	0.5	20.9	0.12
	12/30/2025	151	0.00	0	0.0	13	0.5	20.9	0.12

Notes:

(1): flow rates in scfm estimated based on total flow for total system rotometer field measurements collected between 6/6/2023 and 9/21/2023

(2): flow rates in scfm after 9/21/2023 are calculated based on total system pitot tube differential pressure measurements

(3): flow rates in scfm after 9/21/2023 based on an assumed temperature of 70°F

IWC: inches of water column

PID: photoionization detector

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured



TABLE 3
SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
 Howell M#1
 Hilcorp Energy Company
 San Juan County, New Mexico

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)
6/6/2023	1,910	330	1,100	48	540	100,000	3.83%	10.23%
6/7/2023	1,953	190	730	31	320	93,000	8.07%	8.12%
6/13/2023	1,878	87	430	31	360	39,000	19.30%	2.47%
6/22/2023	1,625	42	200	12	120	26,000	20.33%	1.31%
6/29/2023	1,877	46	270	19	210	25,000	20.70%	0.98%
7/13/2023	2,280	51	360	28	320	25,000	21.38%	0.49%
7/27/2023	1,942	49	340	27	310	24,000	20.97%	0.72%
8/9/2023	1,553	34	230	16	180	17,000	21.35%	0.60%
8/24/2023	1,858	32	230	19	220	16,000	21.40%	0.55%
9/8/2023	1,652	23	250	25	290	18,000	21.48%	0.46%
9/21/2023	1,274	25	240	22	260	18,000	21.48%	0.48%
12/1/2023	935	13	160	11	120	9,400	21.43%	0.42%
1/9/2024	759	5.8	72	4.7	47	5,400	21.74%	0.31%
3/6/2024	857	<5.0	69	5.8	66	4,900 H	19.89%	0.25%
5/14/2024	755	2.1	84	8.2	93	6,000	21.60%	0.24%
7/26/2024	418	<2.0	59	5.7	66	4,800	19.27%	0.29%
9/6/2024	388	<5.0	34	<5.0	36	2,800	22.07%	0.21%
11/19/2024	442	<5.0	37	<5.0	43	2,600	21.89%	0.29%
2/11/2025	651	<5.0	26	<5.0	25	2,300	21.90%	0.24%
5/14/2025	402	<5.0	11	<5.0	13	2,300	21.79%	0.19%
8/12/2025	794	<5.0	10	<5.0	11	740	22.09%	0.14%
11/12/2025	1,307	3.5	34	2.5	37	1,700	21.85%	0.25%

Notes:

GRO: gasoline range organics

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

Gray: less than laboratory reporting limit

H: sample analyzed outside of hold time



TABLE 4
SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS

Howell #1
Hilcorp Energy Company
San Juan County, New Mexico

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
6/6/2023	1,910	330	1,100	48	540	100,000
6/7/2023	1,953	190	730	31	320	93,000
6/13/2023	1,878	87	430	31	360	39,000
6/22/2023	1,625	42	200	12	120	26,000
6/29/2023	1,877	46	270	19	210	25,000
7/13/2023	2,280	51	360	28	320	25,000
7/27/2023	1,942	49	340	27	310	24,000
8/9/2023	1,553	34	230	16	180	17,000
8/24/2023	1,858	32	230	19	220	16,000
9/8/2023	1,652	23	250	25	290	18,000
9/21/2023	1,274	25	240	22	260	18,000
12/1/2023	935	13	160	11	120	9,400
1/9/2024	759	5.8	72	4.7	47	5,400
3/6/2024 ⁽¹⁾	857	5.0	69	5.8	66	4,900
5/14/2024	755	2.1	84	8.2	93	6,000
7/26/2024	418	2.0	59	5.7	66	4,800
9/6/2024	388	5.0	34	5.0	36	2,800
11/19/2024	442	5.0	37	5.0	43	2,600
2/11/2025	651	5.0	26	5.0	25	2,300
5/14/2025	402	5.0	11	5.0	13	2,300
8/12/2025	794	5.0	10	5.0	11	740
11/12/2025	1,307	3.5	34	2.5	37	1,700
Average	1,250	44	226	15	168	20,179

Date	Flow Rate (scfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
6/6/2023	--							
6/7/2023	60	100,440	100,440	0.058	0.21	0.0089	0.096	22
6/13/2023	55	564,420	463,980	0.030	0.12	0.0067	0.073	14
6/23/2023	60	1,427,340	862,920	0.014	0.068	0.0046	0.052	7.0
6/29/2023	60	1,950,420	523,080	0.0099	0.053	0.0035	0.037	5.7
7/13/2023	60	3,166,860	1,216,440	0.011	0.071	0.0053	0.059	5.6
7/27/2023	70	4,566,300	1,399,440	0.012	0.085	0.0067	0.077	6.0
8/9/2023	62	5,735,124	1,168,824	0.010	0.070	0.0053	0.060	5.1
8/24/2023	60	7,034,364	1,299,240	0.0075	0.052	0.0040	0.046	3.8
9/8/2023	60	8,323,164	1,288,800	0.0062	0.054	0.0049	0.057	3.8
9/21/2023	60	9,455,364	1,132,200	0.0054	0.055	0.0053	0.062	4.0
12/1/2023	126	19,141,992	9,686,628	0.0066	0.070	0.0057	0.066	4.8
1/9/2024	124	25,704,072	6,562,080	0.0044	0.054	0.0037	0.039	3.5
3/6/2024	124	35,805,360	10,101,288	0.0025	0.033	0.0024	0.026	2.4
5/14/2024	121	47,793,072	11,987,712	0.0016	0.035	0.0032	0.036	2.5
7/26/2024	121	59,961,558	12,168,486	0.0009	0.032	0.0031	0.036	2.4
9/6/2024	122	67,214,946	7,253,388	0.0016	0.021	0.0024	0.023	1.7
11/19/2024	122	79,997,130	12,782,184	0.0023	0.016	0.0023	0.018	1.2
2/11/2025	127	95,197,506	15,200,376	0.0023	0.015	0.0023	0.016	1.1
5/14/2025	126	111,409,170	16,211,664	0.0024	0.009	0.0024	0.009	1.1
8/12/2025	132	128,383,314	16,974,144	0.0024	0.005	0.0024	0.006	0.7
11/12/2025	126	144,522,363	16,139,049	0.0020	0.011	0.0018	0.012	0.6
Average				0.009	0.054	0.0041	0.043	4.7

Date	Total Operational Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
6/6/2023	292							
6/7/2023	319	28	1.6	5.7	0.25	2.7	604	0.30
6/13/2023	460	141	4.2	18	0.94	10	1,996	1.00
6/23/2023	700	240	3.3	16	1.1	12	1,675	0.84
6/29/2023	845	145	1.4	7.7	0.51	5.4	831	0.42
7/13/2023	1,183	338	3.7	24	1.8	20.1	1,896	0.95
7/27/2023	1,516	333	4.1	28	2.2	26	1,985	0.99
8/9/2023	1,830	314	3.2	22	1.7	19	1,590	0.79
8/24/2023	2,191	361	2.7	19	1.4	16	1,359	0.68
9/8/2023	2,549	358	2.2	19	1.8	20	1,366	0.68
9/21/2023	2,864	315	1.7	17	1.7	19	1,270	0.64
12/1/2023	4,145	1,281	8.5	89	7.4	85	6,106	3.05
1/9/2024	5,027	882	3.9	48	3.2	34	3,051	1.53
3/6/2024	6,385	1,358	3.4	44	3.3	36	3,243	1.62
5/14/2024	8,036	1,651	2.7	58	5.3	60	4,123	2.06
7/26/2024	9,712	1,676	1.6	54	5.3	60	4,096	2.05
9/6/2024	10,703	991	1.6	21	2.4	23	1,711	0.86
11/19/2024	12,449	1,746	4.0	28	4.0	31	2,151	1.08
2/11/2025	14,444	1,995	4.6	29	4.6	32	2,276	1.14
5/14/2025	16,588	2,144	5.1	19	5.1	19	2,333	1.17
8/12/2025	18,732	2,143	5.2	11	5.2	12	1,572	0.79
11/28/2025	20,875	2,143	4.4	23	3.9	25	1,259	0.63
Total Mass Recovery to Date			73	601	63	569	46,493	23.2

Notes:

(1) TVPH analyzed outside of hold time

cf: cubic feet

scfm: cubic feet per minute

µg/L: micrograms per liter

lb/hr: pounds per hour

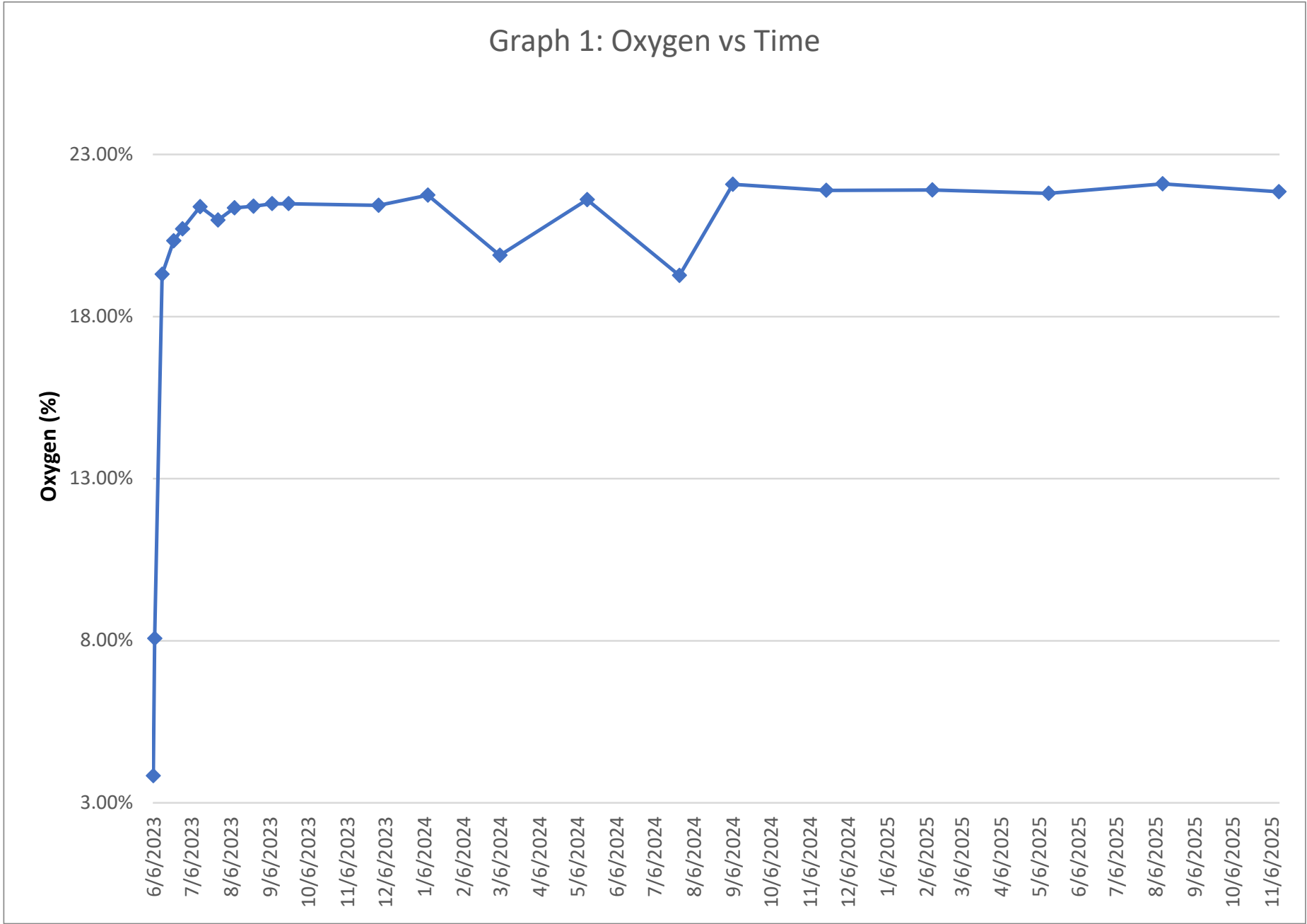
PID: photoionization detector

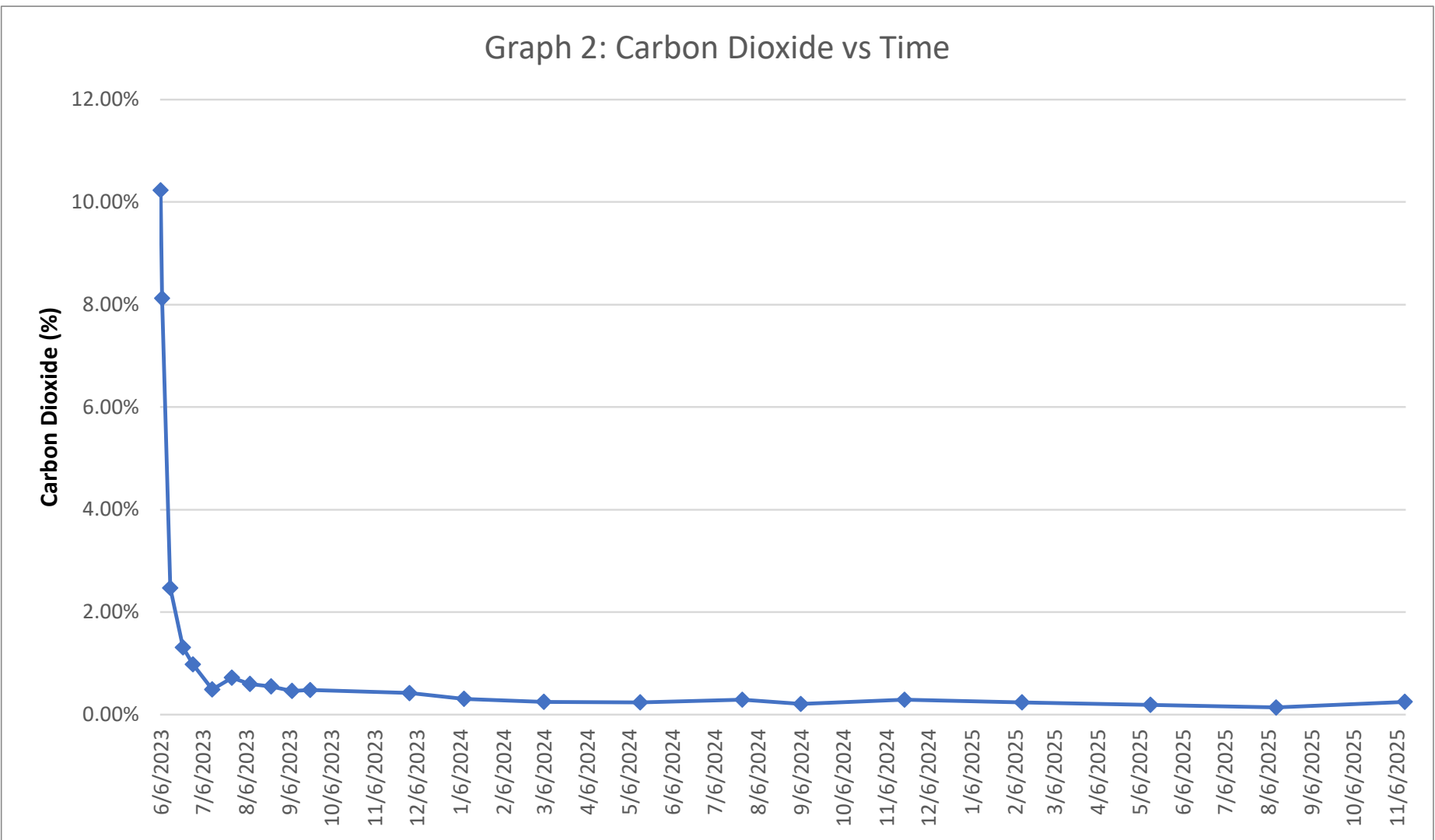
ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

--: not measured

gray: laboratory reporting limit used for calculating emissions

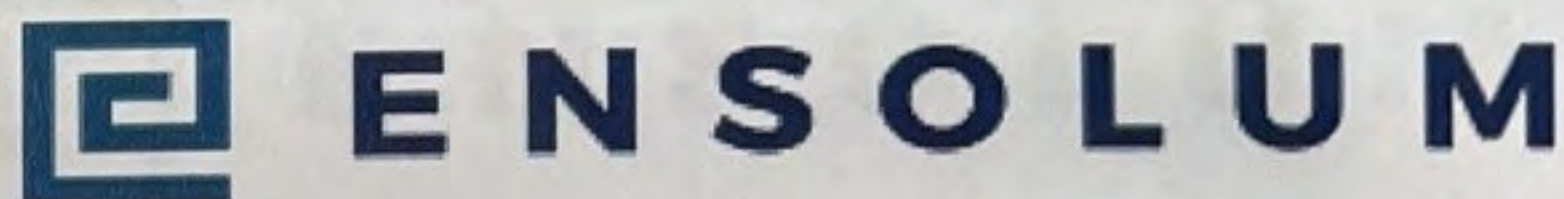






APPENDIX A

Field Notes

HOWELL M#1 SVE SYSTEM
O&M FORMDATE: 10-16
TIME ONSITE: _____O&M PERSONNEL: _____
TIME OFFSITE: _____B Sinclair

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	<u>20227.3</u>	<u>1726</u>
Inlet Vacuum (IWC)	<u>2.2</u>	
Differential Pressure	<u>3.9</u>	
Inlet PID	<u>310.1</u>	
Exhaust PID	<u>366.3</u>	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM SAMPLING

SAMPLE ID: _____

SAMPLE TIME: _____

Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS _____

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	<u>11.51</u>	<u>0</u>	<u>74.9</u>	<u>20.8</u>	<u>420</u>
SVE02	<u>10.87</u>	<u>0.22</u>	<u>321.7</u>	<u>20.9</u>	<u>800</u>
SVE03	<u>10.48</u>	<u>0.15</u>	<u>647.3</u>	<u>20.9</u>	<u>2240</u>
SVE04	<u>10.33</u>	<u>0.38</u>	<u>210.6</u>	<u>20.7</u>	<u>1160</u>
SVE05	<u>11.38</u>	<u>0.14</u>	<u>91.4</u>	<u>20.9</u>	<u>440</u>
SVE06	<u>11.22</u>	<u>0.01</u>	<u>181.4</u>	<u>20.9</u>	<u>180</u>

COMMENTS/OTHER MAINTENANCE: _____

**ENSOLUM****HOWELL M#1 SVE SYSTEM
O&M FORM**DATE: 10-29
TIME ONSITE: _____O&M PERSONNEL: _____
TIME OFFSITE: _____B Sinclair**SVE SYSTEM - MONTHLY O&M**

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	20541.0	1341
Inlet Vacuum (IWC)	18	
Differential Pressure	3.8	
Inlet PID	292.3	
Exhaust PID	383.7	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)	27	

SVE SYSTEM SAMPLING

SAMPLE ID: _____

SAMPLE TIME: _____

Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS _____

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	11.41	0	62.3	20.9	780
SVE02	10.72	0.21	251.6	20.9	1140
SVE03	10.33	0.14	532.8	20.6	1760
SVE04	10.24	0.37	199.5	20.8	800
SVE05	11.27	0.12	68.9	20.9	560
SVE06	11.18	0	213.3	20.9	380

COMMENTS/OTHER MAINTENANCE: _____



HOWELL M#1 SVE SYSTEM
O&M FORM

DATE: 11-12
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____
KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	20879.8	1501
Inlet Vacuum (IWC)	30	
Differential Pressure	3.9	
Inlet PID	1307	
Exhaust PID	278.6	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)	35	

SVE SYSTEM SAMPLING

SAMPLE ID:	SVE-1	SAMPLE TIME:	1515
Analytes:	Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)		
OPERATING WELLS			

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01	12.16	0.01	213.6	20.9	1240
SVE02	11.97	0.24	201.9	20.9	1040
SVE03	11.14	0.11	186.6	20.9	2300
SVE04	10.85	0.35	329.1	20.9	1620
SVE05	12.47	0.09	191.4	20.9	1600
SVE06	12.07	0.01	868.4	20.9	1840

COMMENTS/OTHER MAINTENANCE:

HOWELL M#1 SVE SYSTEM
O&M FORM

DATE: 11-28
TIME ONSITE:

O&M PERSONNEL:
TIME OFFSITE:

B Sinclair

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	21257.5	1108
Inlet Vacuum (IWC)	32	
Differential Pressure	3.8	
Inlet PID	328.7	
Exhaust PID	271.2	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)	40	

SVE SYSTEM SAMPLING

SAMPLE ID:

SAMPLE TIME:

Analytes:

Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS

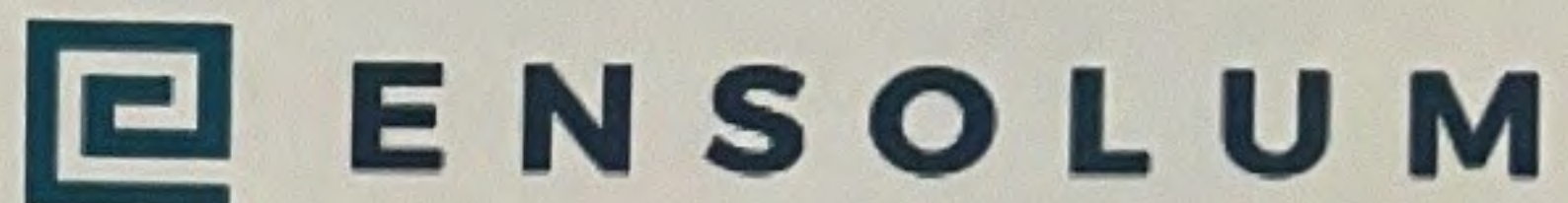
Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01					
SVE02	11.53		215.7	20.9	780
SVE03	11.01		354.3	20.9	2340
SVE04	10.99		246.1	20.9	1560
SVE05	12.27		208.2	20.9	1520
SVE06	12.37		332.9	20.9	1320

COMMENTS/OTHER MAINTENANCE:

Need to replace tubing to gauge differential pressure
shut SVE01

HOWELL M#1 SVE SYSTEM
O&M FORMDATE: 12-16
TIME ONSITE: _____O&M PERSONNEL: _____
TIME OFFSITE: _____P Sinclair

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____
KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	21670.6	11:55
Inlet Vacuum (IWC)	32	
Differential Pressure	7.0	
Inlet PID	203.8	
Exhaust PID	321.6	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)	80	

SVE SYSTEM SAMPLING

SAMPLE ID: _____

SAMPLE TIME: _____

Analytes: _____

Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS _____

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01					
SVE02	11.83	0.27	136.2	20.9	800
SVE03	11.32	0.13	318.3	20.9	2160
SVE04	11.23	0.61	134.2	20.9	720
SVE05	12.61	0.23	94.6	20.9	1100
SVE06	12.79	0	184.4	20.9	1220

COMMENTS/OTHER MAINTENANCE: _____

**ENSOLUM****HOWELL M#1 SVE SYSTEM
O&M FORM**DATE: 12-30
TIME ONSITE: _____O&M PERSONNEL: _____
TIME OFFSITE: _____B Sinclair**SVE SYSTEM - MONTHLY O&M**

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	22026.5	1200
Inlet Vacuum (IWC)	32	
Differential Pressure	3.9	
Inlet PID	178.4	
Exhaust PID	272.1	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)	40	

SVE SYSTEM SAMPLING

SAMPLE ID: _____ SAMPLE TIME: _____

Analytes: Sample Bi-Monthly (every other month) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS _____

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
SVE01					
SVE02	11.78	0.27	119.2	20.9	840
SVE03	11.42	0.14	288.9	20.9	2000
SVE04	11.26	0.63	100.3	20.9	960
SVE05	12.77	0.22	106.7	20.9	1340
SVE06	12.93	0	151.1	20.9	1160

COMMENTS/OTHER MAINTENANCE: _____



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
Howell M#1
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 Runtime meter taken on September 23, 2025 at 3:01 PM Hours = 19,695.6	 DIRECTION 76 deg(T) 36.77780°N 107.71764°W ACCURACY 4 m DATUM WGS84 2025-09-23 15:01:07-06:00
Photograph 2 Runtime meter taken on December 30, 2025 at 12:00 PM Hours = 22,026.5	 DIRECTION 32 deg(T) 36.77776°N 107.71759°W ACCURACY 4 m DATUM WGS84 2025-12-30 12:00:36-07:00



APPENDIX C

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 11/24/2025 5:27:56 PM

JOB DESCRIPTION

Howell M1

JOB NUMBER

885-37693-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 1/20/2026 3:52:27 PM

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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11/24/2025 5:27:56 PM

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

Client: Hilcorp Energy
Project/Site: Howell M1

Laboratory Job ID: 885-37693-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

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: Howell M1

Job ID: 885-37693-1

Job ID: 885-37693-1

Eurofins Albuquerque

Job Narrative 885-37693-1

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 sample was received on 11/14/2025 6:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

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

Gasoline Range Organics

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: Howell M1

Job ID: 885-37693-1

Client Sample ID: SVE-1

Lab Sample ID: 885-37693-1

Date Collected: 11/12/25 15:15

Matrix: Air

Date Received: 11/14/25 06:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.5	ug/L			11/21/25 15:37	25
1,1,1-Trichloroethane	ND		2.5	ug/L			11/21/25 15:37	25
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			11/21/25 15:37	25
1,1,2-Trichloroethane	ND		2.5	ug/L			11/21/25 15:37	25
1,1-Dichloroethane	ND		2.5	ug/L			11/21/25 15:37	25
1,1-Dichloroethene	ND		2.5	ug/L			11/21/25 15:37	25
1,1-Dichloropropene	ND		2.5	ug/L			11/21/25 15:37	25
1,2,3-Trichlorobenzene	ND		2.5	ug/L			11/21/25 15:37	25
1,2,3-Trichloropropane	ND		5.0	ug/L			11/21/25 15:37	25
1,2,4-Trichlorobenzene	ND		2.5	ug/L			11/21/25 15:37	25
1,2,4-Trimethylbenzene	ND		2.5	ug/L			11/21/25 15:37	25
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			11/21/25 15:37	25
1,2-Dibromoethane (EDB)	ND		2.5	ug/L			11/21/25 15:37	25
1,2-Dichlorobenzene	ND		2.5	ug/L			11/21/25 15:37	25
1,2-Dichloroethane (EDC)	ND		2.5	ug/L			11/21/25 15:37	25
1,2-Dichloropropane	ND		2.5	ug/L			11/21/25 15:37	25
1,3,5-Trimethylbenzene	ND		2.5	ug/L			11/21/25 15:37	25
1,3-Dichlorobenzene	ND		2.5	ug/L			11/21/25 15:37	25
1,3-Dichloropropane	ND		2.5	ug/L			11/21/25 15:37	25
1,4-Dichlorobenzene	ND		2.5	ug/L			11/21/25 15:37	25
1-Methylnaphthalene	ND		10	ug/L			11/21/25 15:37	25
2,2-Dichloropropane	ND		5.0	ug/L			11/21/25 15:37	25
2-Butanone	ND		25	ug/L			11/21/25 15:37	25
2-Chlorotoluene	ND		2.5	ug/L			11/21/25 15:37	25
2-Hexanone	ND		25	ug/L			11/21/25 15:37	25
2-Methylnaphthalene	ND		10	ug/L			11/21/25 15:37	25
4-Chlorotoluene	ND		2.5	ug/L			11/21/25 15:37	25
4-Isopropyltoluene	ND		2.5	ug/L			11/21/25 15:37	25
4-Methyl-2-pentanone	ND		25	ug/L			11/21/25 15:37	25
Acetone	ND		25	ug/L			11/21/25 15:37	25
Benzene	3.5		2.5	ug/L			11/21/25 15:37	25
Bromobenzene	ND		2.5	ug/L			11/21/25 15:37	25
Bromodichloromethane	ND		2.5	ug/L			11/21/25 15:37	25
Dibromochloromethane	ND		2.5	ug/L			11/21/25 15:37	25
Bromoform	ND		2.5	ug/L			11/21/25 15:37	25
Bromomethane	ND		7.5	ug/L			11/21/25 15:37	25
Carbon disulfide	ND		25	ug/L			11/21/25 15:37	25
Carbon tetrachloride	ND		2.5	ug/L			11/21/25 15:37	25
Chlorobenzene	ND		2.5	ug/L			11/21/25 15:37	25
Chloroethane	ND		5.0	ug/L			11/21/25 15:37	25
Chloroform	ND		2.5	ug/L			11/21/25 15:37	25
Chloromethane	ND		7.5	ug/L			11/21/25 15:37	25
cis-1,2-Dichloroethene	ND		2.5	ug/L			11/21/25 15:37	25
cis-1,3-Dichloropropene	ND		2.5	ug/L			11/21/25 15:37	25
Dibromomethane	ND		2.5	ug/L			11/21/25 15:37	25
Dichlorodifluoromethane	ND		2.5	ug/L			11/21/25 15:37	25
Ethylbenzene	2.5		2.5	ug/L			11/21/25 15:37	25
Hexachlorobutadiene	ND		2.5	ug/L			11/21/25 15:37	25

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

Client Sample ID: SVE-1

Lab Sample ID: 885-37693-1

Date Collected: 11/12/25 15:15

Matrix: Air

Date Received: 11/14/25 06:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.5	ug/L			11/21/25 15:37	25
Methyl-tert-butyl Ether (MTBE)	ND		2.5	ug/L			11/21/25 15:37	25
Methylene Chloride	ND		6.3	ug/L			11/21/25 15:37	25
n-Butylbenzene	ND		7.5	ug/L			11/21/25 15:37	25
N-Propylbenzene	ND		2.5	ug/L			11/21/25 15:37	25
Naphthalene	ND		5.0	ug/L			11/21/25 15:37	25
sec-Butylbenzene	ND		2.5	ug/L			11/21/25 15:37	25
Styrene	ND		2.5	ug/L			11/21/25 15:37	25
tert-Butylbenzene	ND		2.5	ug/L			11/21/25 15:37	25
Tetrachloroethene (PCE)	ND		2.5	ug/L			11/21/25 15:37	25
Toluene	34		2.5	ug/L			11/21/25 15:37	25
trans-1,2-Dichloroethene	ND		2.5	ug/L			11/21/25 15:37	25
trans-1,3-Dichloropropene	ND		2.5	ug/L			11/21/25 15:37	25
Trichloroethene (TCE)	ND		2.5	ug/L			11/21/25 15:37	25
Trichlorofluoromethane	ND		2.5	ug/L			11/21/25 15:37	25
Vinyl chloride	ND		2.5	ug/L			11/21/25 15:37	25
Xylenes, Total	37		3.8	ug/L			11/21/25 15:37	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		11/21/25 15:37	25
Toluene-d8 (Surr)	109		70 - 130		11/21/25 15:37	25
4-Bromofluorobenzene (Surr)	101		70 - 130		11/21/25 15:37	25
Dibromofluoromethane (Surr)	96		70 - 130		11/21/25 15:37	25

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1700		250	ug/L			11/18/25 13:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		15 - 150		11/18/25 13:42	50

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

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

Lab Sample ID: MB 885-38879/5

Matrix: Air

Analysis Batch: 38879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			11/21/25 13:33	1
1,1,1-Trichloroethane	ND		0.10	ug/L			11/21/25 13:33	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			11/21/25 13:33	1
1,1,2-Trichloroethane	ND		0.10	ug/L			11/21/25 13:33	1
1,1-Dichloroethane	ND		0.10	ug/L			11/21/25 13:33	1
1,1-Dichloroethene	ND		0.10	ug/L			11/21/25 13:33	1
1,1-Dichloropropene	ND		0.10	ug/L			11/21/25 13:33	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			11/21/25 13:33	1
1,2,3-Trichloropropane	ND		0.20	ug/L			11/21/25 13:33	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			11/21/25 13:33	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			11/21/25 13:33	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			11/21/25 13:33	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			11/21/25 13:33	1
1,2-Dichlorobenzene	ND		0.10	ug/L			11/21/25 13:33	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			11/21/25 13:33	1
1,2-Dichloropropane	ND		0.10	ug/L			11/21/25 13:33	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			11/21/25 13:33	1
1,3-Dichlorobenzene	ND		0.10	ug/L			11/21/25 13:33	1
1,3-Dichloropropane	ND		0.10	ug/L			11/21/25 13:33	1
1,4-Dichlorobenzene	ND		0.10	ug/L			11/21/25 13:33	1
1-Methylnaphthalene	ND		0.40	ug/L			11/21/25 13:33	1
2,2-Dichloropropane	ND		0.20	ug/L			11/21/25 13:33	1
2-Butanone	ND		1.0	ug/L			11/21/25 13:33	1
2-Chlorotoluene	ND		0.10	ug/L			11/21/25 13:33	1
2-Hexanone	ND		1.0	ug/L			11/21/25 13:33	1
2-Methylnaphthalene	ND		0.40	ug/L			11/21/25 13:33	1
4-Chlorotoluene	ND		0.10	ug/L			11/21/25 13:33	1
4-Isopropyltoluene	ND		0.10	ug/L			11/21/25 13:33	1
4-Methyl-2-pentanone	ND		1.0	ug/L			11/21/25 13:33	1
Acetone	ND		1.0	ug/L			11/21/25 13:33	1
Benzene	ND		0.10	ug/L			11/21/25 13:33	1
Bromobenzene	ND		0.10	ug/L			11/21/25 13:33	1
Bromodichloromethane	ND		0.10	ug/L			11/21/25 13:33	1
Dibromochloromethane	ND		0.10	ug/L			11/21/25 13:33	1
Bromoform	ND		0.10	ug/L			11/21/25 13:33	1
Bromomethane	ND		0.30	ug/L			11/21/25 13:33	1
Carbon disulfide	ND		1.0	ug/L			11/21/25 13:33	1
Carbon tetrachloride	ND		0.10	ug/L			11/21/25 13:33	1
Chlorobenzene	ND		0.10	ug/L			11/21/25 13:33	1
Chloroethane	ND		0.20	ug/L			11/21/25 13:33	1
Chloroform	ND		0.10	ug/L			11/21/25 13:33	1
Chloromethane	ND		0.30	ug/L			11/21/25 13:33	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			11/21/25 13:33	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			11/21/25 13:33	1
Dibromomethane	ND		0.10	ug/L			11/21/25 13:33	1
Dichlorodifluoromethane	ND		0.10	ug/L			11/21/25 13:33	1
Ethylbenzene	ND		0.10	ug/L			11/21/25 13:33	1
Hexachlorobutadiene	ND		0.10	ug/L			11/21/25 13:33	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

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

Lab Sample ID: MB 885-38879/5

Matrix: Air

Analysis Batch: 38879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.10	ug/L			11/21/25 13:33	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			11/21/25 13:33	1
Methylene Chloride	ND		0.25	ug/L			11/21/25 13:33	1
n-Butylbenzene	ND		0.30	ug/L			11/21/25 13:33	1
N-Propylbenzene	ND		0.10	ug/L			11/21/25 13:33	1
Naphthalene	ND		0.20	ug/L			11/21/25 13:33	1
sec-Butylbenzene	ND		0.10	ug/L			11/21/25 13:33	1
Styrene	ND		0.10	ug/L			11/21/25 13:33	1
tert-Butylbenzene	ND		0.10	ug/L			11/21/25 13:33	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			11/21/25 13:33	1
Toluene	ND		0.10	ug/L			11/21/25 13:33	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			11/21/25 13:33	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			11/21/25 13:33	1
Trichloroethene (TCE)	ND		0.10	ug/L			11/21/25 13:33	1
Trichlorofluoromethane	ND		0.10	ug/L			11/21/25 13:33	1
Vinyl chloride	ND		0.10	ug/L			11/21/25 13:33	1
Xylenes, Total	ND		0.15	ug/L			11/21/25 13:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		11/21/25 13:33	1
Toluene-d8 (Surr)	98		70 - 130		11/21/25 13:33	1
4-Bromofluorobenzene (Surr)	104		70 - 130		11/21/25 13:33	1
Dibromofluoromethane (Surr)	99		70 - 130		11/21/25 13:33	1

Lab Sample ID: LCS 885-38879/4

Matrix: Air

Analysis Batch: 38879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	2.00	1.87		ug/L		94	70 - 130
Benzene	2.00	2.05		ug/L		102	70 - 130
Chlorobenzene	2.00	2.12		ug/L		106	70 - 130
Toluene	2.00	2.04		ug/L		102	70 - 130
Trichloroethene (TCE)	2.00	1.89		ug/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-38639/4					Client Sample ID: Method Blank				
Matrix: Air					Prep Type: Total/NA				
Analysis Batch: 38639									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			11/18/25 11:53	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	110		15 - 150				11/18/25 11:53	1	

Lab Sample ID: LCS 885-38639/3					Client Sample ID: Lab Control Sample				
Matrix: Air					Prep Type: Total/NA				
Analysis Batch: 38639									
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]			50.0	51.5		ug/L		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	213		15 - 150						

QC Association Summary

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

GC/MS VOA

Analysis Batch: 38879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37693-1	SVE-1	Total/NA	Air	8260B	
MB 885-38879/5	Method Blank	Total/NA	Air	8260B	
LCS 885-38879/4	Lab Control Sample	Total/NA	Air	8260B	

GC VOA

Analysis Batch: 38639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-37693-1	SVE-1	Total/NA	Air	8015D	
MB 885-38639/4	Method Blank	Total/NA	Air	8015D	
LCS 885-38639/3	Lab Control Sample	Total/NA	Air	8015D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

Client Sample ID: SVE-1
Date Collected: 11/12/25 15:15
Date Received: 11/14/25 06:10

Lab Sample ID: 885-37693-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		25	38879	CM	EET ALB	11/21/25 15:37
Total/NA	Analysis	8015D		50	38639	AT	EET ALB	11/18/25 13:42

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

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
8015D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
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		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

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
8015D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Howell M1

Job ID: 885-37693-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
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		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Eurofins Albuquerque



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ANALYTICAL SUMMARY REPORT

November 21, 2025

Eurofins TestAmerica - Albuquerque

4901 Hawkins St NE Ste D

Albuquerque, NM 87109-4372

Work Order: B25111409

Quote ID: B15626

Project Name: Howell M1 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 11/18/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25111409-001	SVE-1 (885-37693-1)	11/12/25 15:15	11/18/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond./1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque
Project: Howell M1 88501698
Lab ID: B25111409-001
Client Sample ID: SVE-1 (885-37693-1)

Report Date: 11/21/25
Collection Date: 11/12/25 15:15
Date Received: 11/18/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.85	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Nitrogen	77.88	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Carbon Dioxide	0.25	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Methane	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Ethane	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Propane	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Hexanes plus	0.02	Mol %		0.01		GPA 2261-13	11/19/25 14:16 / aln
Propane	< 0.001	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln
Hexanes plus	0.008	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln
GPM Total	0.008	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln
GPM Pentanes plus	0.008	gpm		0.001		GPA 2261-13	11/19/25 14:16 / aln

CALCULATED PROPERTIES

Gross BTU per cu ft @ Std Cond. (HHV)	1		1		GPA 2261-13	11/19/25 14:16 / aln
Net BTU per cu ft @ std cond. (LHV)	1		1		GPA 2261-13	11/19/25 14:16 / aln
Pseudo-critical Pressure, psia	546		1		GPA 2261-13	11/19/25 14:16 / aln
Pseudo-critical Temperature, deg R	240		1		GPA 2261-13	11/19/25 14:16 / aln
Specific Gravity @ 60/60F	0.999		0.001		D3588-17	11/19/25 14:16 / aln
Air, %	99.81		0.01		GPA 2261-13	11/19/25 14:16 / aln

- The analysis was not corrected for air.

COMMENTS

-					-	11/19/25 14:16 / aln
- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior. - GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions. - To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825. - Standard conditions: 60 F & 14.73 psi on a dry basis.						

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25111409

Report Date: 11/21/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13									Batch: R454039	
Lab ID: B25111409-001ADUP	12 Sample Duplicate					Run: GC7890_251119A			11/19/25 15:05	
Oxygen		21.6	Mol %	0.01				0.9	20	
Nitrogen		78.1	Mol %	0.01				0.3	20	
Carbon Dioxide		0.25	Mol %	0.01				0.0	20	
Hydrogen Sulfide		<0.01	Mol %	0.01					20	
Methane		<0.01	Mol %	0.01					20	
Ethane		<0.01	Mol %	0.01					20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane		<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes plus		0.02	Mol %	0.01				0.0	20	
Lab ID: LCS111925	11 Laboratory Control Sample					Run: GC7890_251119A			11/19/25 17:43	
Oxygen		0.58	Mol %	0.01	118	70	130			
Nitrogen		6.01	Mol %	0.01	102	70	130			
Carbon Dioxide		0.99	Mol %	0.01	99	70	130			
Methane		76.3	Mol %	0.01	100	70	130			
Ethane		6.12	Mol %	0.01	101	70	130			
Propane		5.07	Mol %	0.01	102	70	130			
Isobutane		1.69	Mol %	0.01	85	70	130			
n-Butane		2.02	Mol %	0.01	101	70	130			
Isopentane		0.50	Mol %	0.01	100	70	130			
n-Pentane		0.51	Mol %	0.01	102	70	130			
Hexanes plus		0.20	Mol %	0.01	97	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Euofins TestAmerica - Albuquerque

B25111409

Login completed by: Danielle N. Lindberg

Date Received: 11/18/2025

Reviewed by: gmccartney

Received by: LSC

Reviewed Date: 11/19/2025

Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	13.7°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None



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Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Eurofins Albuquerque

4901 Hawkins NE

Albuquerque, NM 87109

Phone: 505-345-3975 Fax:

110116: 303-343-3913 fax: 303-343-4101

Chain of Custody Record

 eurofins

Environment Testing

Client Information (Sub Contract Lab)				Lab PM: Garcia, Michelle		Carrier Tracking No(s): 885-7446.1																															
Client Contact: Shipping/Receiving				E-Mail: michelle.garcia@eurofinsus.com		State of Origin: New Mexico																															
Company: Energy Laboratories, Inc.				Phone: N/A		Page: Page 1 of 1																															
Address: 1120 South 27th Street,				Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-37693-1																															
City: Billings				Due Date Requested: 11/21/2025		Preservation Codes:																															
State, Zip: MT, 59101				TAT Requested (days): N/A		Analysis Requested																															
Phone: 406-252-6325(Tel)				PO #: N/A		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Sub - Subcontract - Fixed Gases</th> <th>Total Number of Containers</th> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		Field Filtered Sample (Yes or No)	Sub - Subcontract - Fixed Gases	Total Number of Containers	☒	☒	☒																								
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Sample Identification - Client ID (Lab ID) SVE-1 (885-37693-1)				Other: N/A																																	

Possible Hazard Identification
 Unconfirmed

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

Empty Kit Relinquished by: **[Signature]** Date: **11/17/25** Time: **0935** Company: **[Blank]**

Relinquished by: **[Signature]** Date/Time: **[Blank]** Company: **[Blank]**

Relinquished by: **[Blank]** Date/Time: **[Blank]** Company: **[Blank]**

Relinquished by: **[Blank]** Date/Time: **[Blank]** Company: **[Blank]**

Custody Seals Intact: **Δ Yes Δ No** Custody Seal No.: **[Blank]**

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

Special Instructions/QC Requirements:

Method of Shipment: **[Blank]** Date/Time: **[Blank]** Company: **[Blank]**

Received by: **[Blank]** Date/Time: **[Blank]** Company: **[Blank]**

Received by: **[Blank]** Date/Time: **[Blank]** Company: **[Blank]**

Received by: **[Blank]** Date/Time: **[Blank]** Company: **[Blank]**

Cooler Temperature(s) °C and Other Remarks: **[Blank]**

Ver: 10/10/2024

ICOC No:
885-7446

Containers

<u>Count</u>	<u>Container Type</u>	<u>Preservative</u>
1	Tedlar Bag 1L	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB - Subcontract - Fixed Gases	Fixed Gases

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-37693-1

Login Number: 37693

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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 542739

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 542739
	Action Type: [REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvez	1. Continue O&M & sampling as stated in report. 2. Submit next quarterly report by April 15, 2026.	1/26/2026