



1. Continue O&M & sampling as stated in Discussions and Recommendations in report. 2. Submit next quarterly report by January 15, 2026.

October 13, 2025

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 Third Quarter – Remediation System Operation and Monitoring Report
Hare 15
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: NRM2020945060**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2025 Third Quarter - Remediation System Operation and Monitoring Report* summarizing remediation system performance during the third quarter of 2025 at the Hare 15 natural gas production well (Site, Figure 1) on land managed by the Bureau of Land Management (BLM). The Site is located in Unit M, Section 3, Township 29 North, Range 10 West in San Juan County, New Mexico (Figure 1). The duration of operation and monitoring activities included in this report is for the period from June 26 through September 29, 2025.

This report was prepared following the approval from the New Mexico Oil Conservation Division (NMOCD) regarding the dual-phase extraction (DPE) remediation system described in the *Dual-Phase Extraction (DPE) Pilot Test Report and Final Remediation Work Plan* prepared by Ensolum and submitted to the NMOCD in April 2023. Per the conditions of approval (COAs) issued by the NMOCD on May 19, 2023, this report includes the following information:

- A summary of remediation activities during the quarter;
- The system run time summary;
- Total system flow and vacuum measurements;
- Individual well flow rates, photoionization detector (PID) measurements of volatile organic compounds (VOCs), vacuum measurements, and oxygen/carbon dioxide measurements via hand-held analyzers;
- The petroleum mass removal and fluid product recovery from the remediation system.

As approved in the *Dual-Phase Extraction (DPE) Pilot Test Report and Final Remediation Work Plan*, groundwater sampling is being conducted semi-annually beginning in 2024. As such, this quarterly remediation summary report does not include data from semi-annual groundwater sampling events as the next semi-annual event is scheduled for the fourth quarter of 2025.

REMEDIATION SYSTEM DESCRIPTION

The remediation system at the Site includes a DPE system which uses a rotary lobe positive displacement blower to apply vacuum to 10 remediation wells (MW01, MW06, MW08, MW09, MW10, MW11, MW13, MW14, MW15, and MW16) connected to the blower via subsurface piping. The extracted air, petroleum vapors, and fluids enter a vapor/liquid separator or “knockout” tank.

Air and petroleum vapors are passed through the high vacuum extraction blower and discharged to the atmosphere via an exhaust stack. Separated liquid, which includes phase separated hydrocarbons (PSH) and potentially dissolved phase impacted groundwater, is pumped to an open-top below grade tank for storage and off-site disposal. The system layout is depicted on Figure 2.

THIRD QUARTER 2025 OPERATION AND MAINTENANCE

Field data measurements were collected from the system at least monthly throughout the third quarter of 2025. Regular operations and maintenance (O&M) activities have been performed throughout the third quarter of 2025. Field forms completed during O&M visits are presented in Appendix A.

Since startup on August 13, 2024, all Site DPE wells are in operation in order to recover PSH, draw down the groundwater table, and induce air flow in impacted soil zones. Between June 26, 2025, the DPE system operated for 2,209 hours for a runtime efficiency of 97 percent (%). Appendix B presents photographs of the runtime meter for calculating the third quarter 2025 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percent runtime. Field measurements collected during O&M events are summarized in Table 2.

Vapor Recovery

Per the May 2023 COAs, influent vapor samples are now being collected from the DPE system quarterly following the first year of operation. The quarterly influent vapor sample was collected on August 22, 2025, using a high vacuum air sampling pump on the system inlet, after the manifold assembly, but prior to the liquid knockout tank. The sample was collected into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of VOCs following United States Environmental Protection Agency (EPA) Method 8260B, total petroleum hydrocarbons (TPH) following EPA Method 8015D, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. A summary of laboratory analytical results are summarized in Table 3, with complete laboratory analytical report attached as Appendix C. Graphs 1 and 2 also present oxygen and carbon dioxide levels over time, respectively. Per the May 2023 COAs, influent vapor samples will continue to be collected on a quarterly basis for the remainder of system operation.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the DPE system (Table 4). Based on these estimates, 5,544 pounds (2.77 tons) of vapor phase TPH have been removed by the system to date.

Liquid Recovery

Total liquid recovery volumes are measured using a totalizing flow metering device. During June 2025, it was determined the totalizer was no longer functioning correctly and was not recording accurate volumes. As such, accurate liquid recovery volumes could not be recorded during a portion of the third quarter of 2025. The totalizer was replaced in August of 2025 and accurate fluid recovery measurements were collected throughout the remainder of the quarter. Liquid recovery is summarized in Table 5.

GROUNDWATER MONITORING

Since September 2020, groundwater gauging and sampling activities have been conducted at the Site. Groundwater monitoring is conducted semi-annually, and no monitoring was conducted in the third quarter of 2025. The next semi-annual monitoring event is scheduled for the fourth quarter of 2025.

DISCUSSIONS AND RECOMMENDATIONS

Based on the periodic downtime documented during previous reporting periods and the diminished recovery associated with fouling of the system piping and instrumentation, Hilcorp will implement a chemical injection pilot test in the fourth quarter of 2025. A metering chemical injection pump will be installed and an antiscalant will be injected into the system piping where the individual extraction well legs manifold together. Following a three-month long pilot test, Hilcorp will evaluate whether antiscalant injection has aided in system uptime and performance.

Bi-weekly (every other week) O&M visits and bi-monthly (every other month) sampling events (through August 2025) will be performed by Ensolum and/or Hilcorp personnel to ensure the DPE 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. Semi-annual groundwater sampling events will continue to be conducted in the second and fourth quarters of the year.

Reporting

Updated remediation reports will be prepared and submitted to the NMOCD on a quarterly basis within 15 days following the end of the quarter and will contain the following:

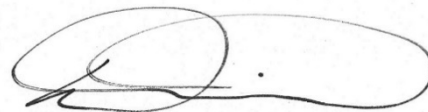
- A summary of remediation and monitoring activities during the period;
- System run-time summary;
- Petroleum hydrocarbon mass removal and fluid recovery from the remediation system;
- DPE volume liquid removal; and
- Groundwater monitoring results, when applicable.

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



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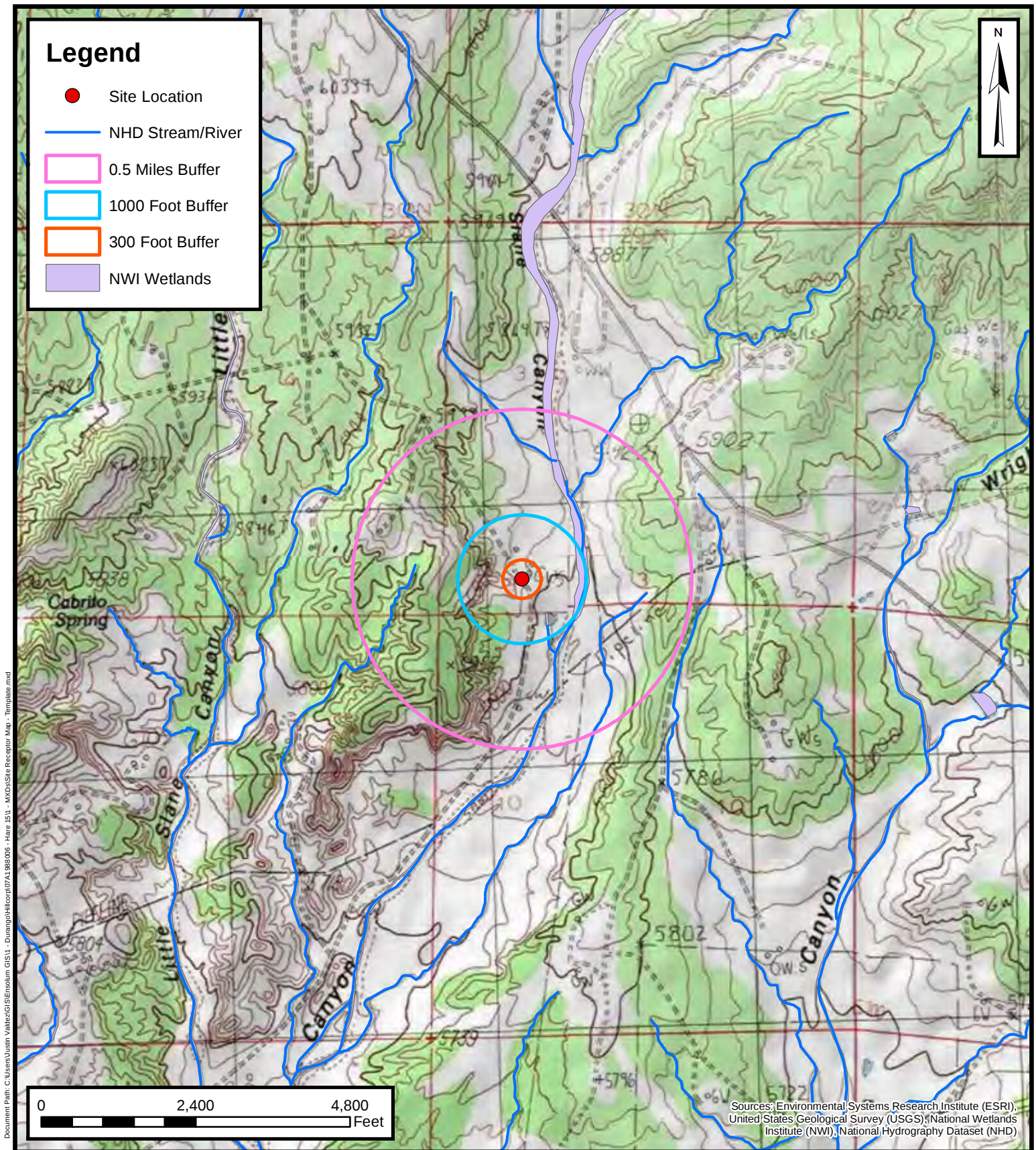
Daniel R. Moir, PG (licensed in WY & TX)
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Attachments:

Figure 1	Site Location Map
Figure 2	Dual Phase Extraction System Layout
Table 1	Dual Phase Extraction System Runtime Calculations
Table 2	Dual Phase Extraction System Field Measurements
Table 3	Dual Phase Extraction System Emissions Analytical Results
Table 4	Dual Phase Extraction System Mass Removal and Emissions
Table 5	Liquid Recovery
Graph 1	O ₂ vs. Time
Graph 2	CO ₂ vs. Time
Appendix A	O&M Field Notes
Appendix B	Project Photographs
Appendix C	DPE Laboratory Analytical Reports



Figures



Site Receptor Map

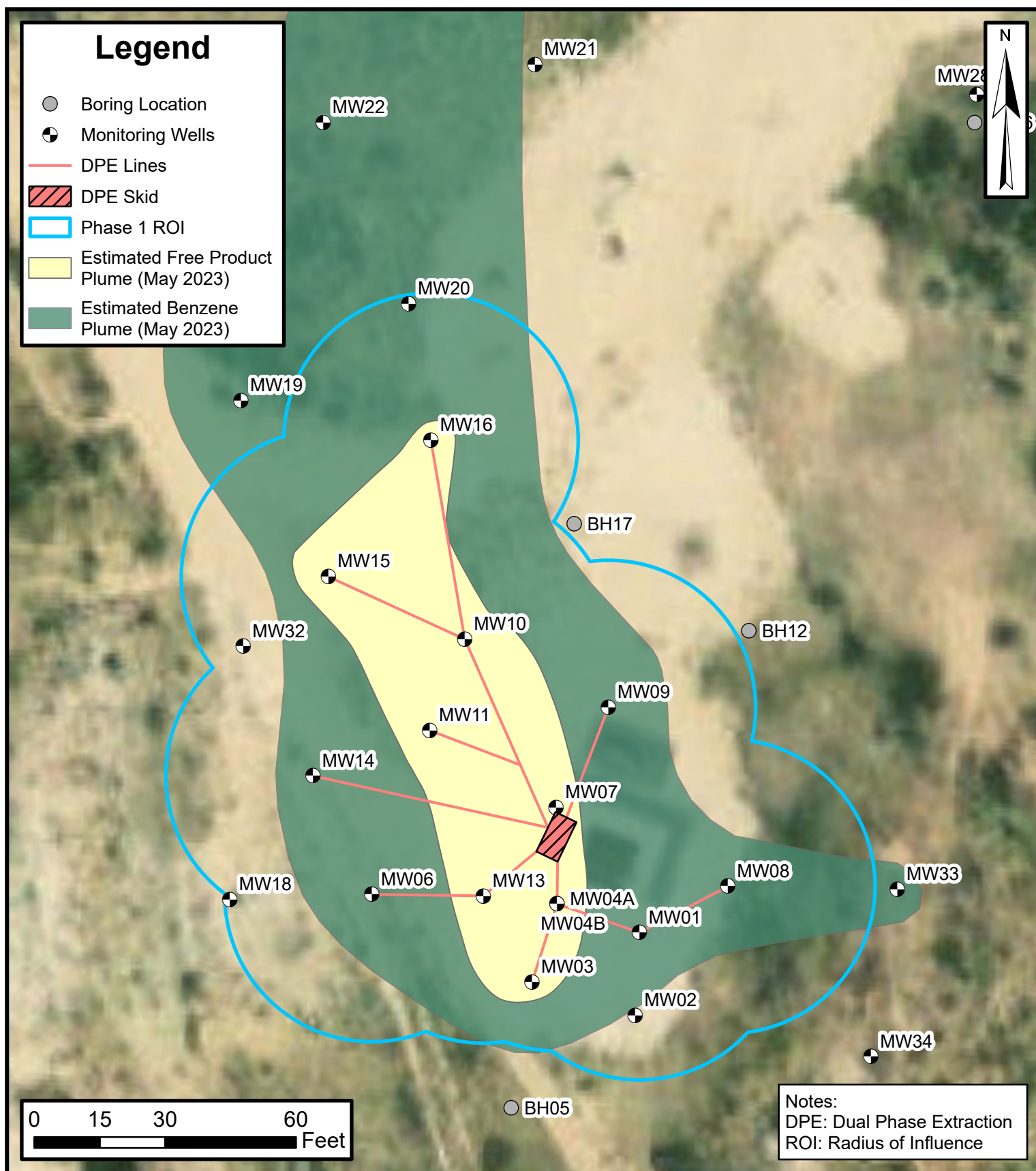
Hare 15
Hilcorp Energy Company
36.749188, -107.877461
San Juan County, NM

PROJECT NUMBER: 07A1988006

FIGURE

1





Dual Phase Extraction System

Hare 15
Hilcorp Energy Company
SW/SW, Sec 3, T29N, R10W
36.749188, -107.877461
San Juan County, New Mexico

FIGURE
2



Tables & Graphs



TABLE 1 DUAL PHASE EXTRACTION SYSTEM RUNTIME Hare 15 Hilcorp Energy Company San Juan County, New Mexico			
Date of Reading	System Hour Runtime	Run Time (%)	Cumulative Run Time (%)
8/13/2024	4	START UP	
6/26/2025	6,649	99%	87%
7/17/2025	7,151	100%	88%
8/22/2025	8,014	100%	89%
8/27/2025	8,133	99%	89%
9/3/2025	8,302	100%	90%
9/29/2025	8,858	89%	90%
3rd Qrt 2025 Runtime%			97%

Notes:

%: percent

Dashed line indicates quarter change

--: not applicable/not collected

NR: Not Recorded

TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS

Hare 15
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
Influent, All Wells	8/13/2024	1,572	0.40	221	127	8.0	3.93	12.7	>5.0
	8/14/2024	1,915	0.40	221	127	8.0	3.93	16.5	3.52
	8/15/2024	1,372	0.55	259	142	9.0	4.42	20.4	0.96
	8/16/2024	1,277	0.50	247	139	8.5	4.17	20.4	0.94
	8/21/2024	1,838	0.50	247	120	11.5	5.65	20.1	0.94
	8/28/2024	2,020	0.55	259	136	10.0	4.91	20.9	0.00
	9/4/2024	495	--	300	157	10.0	4.91	20.4	0.34
	9/11/2024	691	--	300	157	10.0	4.91	20.9	0.34
	9/19/2024	1,004	--	300	149	11.0	5.40	20.2	0.26
	9/25/2024	421	--	300	149	11.0	5.40	18.8	0.26
	10/1/2024	435	--	300	169	8.5	4.17	--	--
	10/16/2024	389	--	325	204	6.0	2.95	19.8	0.22
	10/23/2024	--	--	--	--	--	--	--	--
	11/6/2024	129	--	250	144	8.0	3.93	20.9	0.08
	11/14/2024	--	--	360	202	8.5	4.17	--	--
	11/27/2024	378	--	280	139	11.0	5.40	19.9	--
	12/5/2024	276	--	280	143	10.5	5.16	20.9	0.03
	12/11/2024	184	--	300	153	10.5	5.16	--	--
	12/18/2024	169	--	220	112	10.5	5.16	20.8	0.14
	12/30/2024	281	--	275	129	12.0	5.89	20.9	0.19
	1/8/2025	189	0.40	221	113	10.5	5.16	--	--
	1/25/2025	258	0.35	207	112	9.3	4.54	20.9	0.07
	2/6/2025	67	0.35	207	114	9.0	4.42	20.9	0.05
	2/21/2025	187	0.33	199	107	9.5	4.67	--	--
	3/11/2025	125	0.53	253	146	8.0	3.93	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	292	0.35	207	105	10.5	5.16	--	--
	4/29/2025	658	--	--	--	--	--	--	--
	5/9/2025	--	--	--	--	10.5	5.16	--	--
	5/21/2025	37	0.25	175	91	10.0	4.91	20.9	0.01
	6/10/2025	48	0.30	192	85	13.0	6.39	20.9	0.14
	6/26/2025	77	0.25	175	82	12.0	5.89	20.9	0.09
	7/17/2025	76	0.20	156	73	12.3	6.02	20.9	0.12
	8/22/2025	22	0.20	156	63	14.5	7.12	20.9	0.11
	8/27/2025	20	0.15	135	53	15.0	7.37	20.9	0.08
	9/3/2025	23	0.15	135	53	15.0	7.37	20.8	0.08
	9/29/2025	23	0.10	111	45	14.5	7.12	20.7	0.13
MW01	8/13/2024	736	--	62	38	6.5	3.19	14.6	>5.00
	8/14/2024	1,515	--	60	39	5.0	2.46	18.5	1.78
	8/15/2024	2,298	--	68	44	5.0	2.46	20.4	0.64
	8/16/2024	1,454	--	64	42	5.0	2.46	20.4	0.60
	8/21/2024	1,270	--	76	42	9.0	4.42	20.6	0.36
	8/28/2024	2,601	--	70	43	6.5	3.19	20.1	0.72
	9/4/2024	344	--	45	29	5.0	2.46	20.4	0.20
	9/11/2024	211	--	45	30	4.5	2.21	20.8	0.24
	9/19/2024	201	--	28	18	6.0	2.95	20.2	0.22
	9/25/2024	92	--	50	31	6.0	2.95	19.0	0.18
	10/1/2024	326	--	66	41	6.0	2.95	--	--
	10/16/2024	41	--	54	35	5.0	2.46	19.9	0.16
	10/23/2024	66	--	--	--	7.0	3.44	21.4	0.02
	11/6/2024	6	--	48	29	6.5	3.19	20.9	0.13
	11/14/2024	64	--	70	41	7.5	3.68	20.9	0.08
	11/27/2024	6	--	50	30	7.0	3.44	20.9	0.11
	12/5/2024	59	--	55	35	6.0	2.95	20.8	0.20
	12/11/2024	4	--	75	44	7.5	3.68	20.9	0.04
	12/18/2024	31	--	55	30	9.0	4.42	20.9	0.07
	12/30/2024	39	--	70	41	7.5	3.68	20.9	0.06
	1/8/2025	148	--	46	27	7.3	3.56	20.9	0.05
	1/25/2025	153	--	30	18	7.5	3.68	20.9	0.02
	2/6/2025	98	--	32	19	7.5	3.68	20.9	0.02
	2/21/2025	76	--	40	23	8.0	3.93	--	--
	3/11/2025	49	--	36	21	8.0	3.93	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	63	--	68	--	9.5	4.67	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	66	--	24	13	10.0	4.91	--	--
	5/21/2025	26	--	12	7	7.0	3.44	20.9	0.06
	6/10/2025	22	--	10	6	7.3	3.56	20.9	0.07
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	14	--	--	--	8.0	3.93	20.9	0.08
	8/22/2025	--	--	--	--	14.5	7.12	--	--
	8/27/2025	16	--	--	--	9.0	4.42	20.9	0.00
	9/3/2025	--	--	--	--	15.5	7.61	--	--

TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS

Hare 15
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
MW01	9/29/2025	10	--	14	5	17.5	8.60	20.9	0.00
MW06	8/13/2024	42	--	30	19	6.0	2.95	20.9	0.02
	8/14/2024	325	--	20	13	5.0	2.46	20.0	1.70
	8/15/2024	274	--	22	15	4.0	1.96	20.9	0.88
	8/16/2024	364	--	26	17	5.0	2.46	20.9	0.86
	8/21/2024	368	--	58	29	11.0	5.40	20.9	0.40
	8/28/2024	378	--	55	33	7.0	3.44	20.9	0.22
	9/4/2024	144	--	55	35	6.0	2.95	20.9	0.14
	9/11/2024	56	--	50	31	6.0	2.95	20.9	0.10
	9/19/2024	98	--	50	31	6.0	2.95	20.5	0.14
	9/25/2024	254	--	45	29	5.5	2.70	19.4	0.08
	10/1/2024	409	--	74	46	6.0	2.95	--	--
	10/16/2024	14	--	44	29	5.0	2.46	21.1	0.10
	10/23/2024	26	--	--	--	7.0	3.44	21.4	0.04
	11/6/2024	58	--	50	30	7.0	3.44	20.9	0.11
	11/14/2024	--	--	58	34	7.5	3.68	--	--
	11/27/2024	76	--	60	35	7.5	3.68	20.9	0.19
	12/5/2024	117	--	50	31	6.0	2.95	20.9	0.11
	12/18/2024	48	--	55	27	11.5	5.65	20.8	0.10
	12/11/2024	24	--	60	35	8.0	3.93	20.9	0.10
	12/30/2024	53	--	50	30	7.0	3.44	20.9	0.11
	1/8/2025	43	--	54	32	7.0	3.44	20.7	0.02
	1/25/2025	468	--	54	32	7.0	3.44	20.8	0.02
	2/6/2025	52	--	54	32	7.0	3.44	20.9	0.03
	2/21/2025	43	--	54	30	8.8	4.30	--	--
	3/11/2025	37	--	24	14	7.3	3.56	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	46	--	68	--	9.5	4.67	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	49	--	58	30	10.0	4.91	--	--
	5/21/2025	18	--	42	22	10.0	4.91	20.9	0.05
	6/10/2025	16	--	42	22	10.0	4.91	20.9	0.10
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	--	--	--	--	--	--	--	--
	8/22/2025	--	--	--	--	2.3	1.11	--	--
	8/27/2025	--	--	8	6	0.0	0.00	--	--
	9/3/2025	--	--	8	3	14.0	6.88	--	--
	9/29/2025	--	--	17	--	--	--	--	--
MW08	8/13/2024	16	--	28	18	6.0	2.95	17.9	4.58
	8/14/2024	403	--	30	20	5.0	2.46	19.7	1.62
	8/15/2024	346	--	32	21	5.0	2.46	20.9	0.74
	8/16/2024	436	--	38	25	5.0	2.46	20.9	0.48
	8/21/2024	110	--	38	21	9.0	4.42	20.9	0.42
	8/28/2024	37	--	30	18	7.5	3.68	20.9	0.24
	9/4/2024	35	--	30	18	7.5	3.68	20.4	0.14
	9/11/2024	69	--	30	18	7.5	3.68	20.9	0.12
	9/19/2024	57	--	25	15	7.5	3.68	20.5	0.16
	9/25/2024	28	--	40	25	6.0	2.95	19.5	0.10
	10/1/2024	79	--	14	9	5.0	2.46	--	--
	10/16/2024	7	--	14	9	6.0	2.95	20.0	0.18
	10/23/2024	6	--	--	--	6.5	3.19	21.4	0.08
	11/6/2024	5	--	25	15	7.0	3.44	20.2	0.90
	11/14/2024	3	--	22	13	7.5	3.68	20.9	0.12
	11/27/2024	8	--	25	15	7.5	3.68	20.9	0.70
	12/5/2024	52	--	25	14	8.0	3.93	20.8	0.35
	12/11/2024	27	--	20	16	0.0	0.00	20.9	0.03
	12/18/2024	45	--	30	17	8.5	4.17	20.9	0.05
	12/30/2024	73	--	--	--	7.5	3.68	20.8	0.06
	1/8/2025	66	--	16	9	7.5	3.68	20.9	0.00
	1/25/2025	70	--	16	9	7.5	3.68	20.9	0.00
	2/6/2025	63	--	14	8	8.0	3.93	20.9	0.00
	2/21/2025	58	--	20	12	8.0	3.93	--	--
	3/11/2025	--	--	10	8	0.0	0.00	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	44	--	32	--	8.5	--	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	41	--	18	10	9.5	4.67	--	--
	5/21/2025	16	--	10	7	4.5	2.21	20.9	0.01
	6/10/2025	10	--	10	5	9.0	4.42	20.9	0.15
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	10	--	--	--	9.3	4.54	20.9	0.15
	8/22/2025	--	--	72	30	14.0	6.88	--	--
	8/27/2025	13	--	70	32	12.5	6.14	20.9	0.11

TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS

Hare 15
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
MW08	9/3/2025	--	--	60	27	13.0	6.39	--	--
	9/29/2025	9	--	58		13.0	6.39	20.9	0.07
MW09	8/13/2024	59	--	32	21	5.5	2.70	16.5	>5.00
	8/14/2024	373	--	34	23	4.5	2.21	19.4	3.06
	8/15/2024	283	--	74	50	4.0	1.96	20.4	1.58
	8/16/2024	619	--	50	34	4.0	1.96	20.6	1.16
	8/21/2024	162	--	58	33	8.0	3.93	20.9	0.48
	8/28/2024	85	--	50	31	6.0	2.95	20.9	0.40
	9/4/2024	87	--	60	38	5.5	2.70	20.4	0.24
	9/11/2024	50	--	40	25	6.0	2.95	20.9	0.24
	9/19/2024	53	--	60	38	6.0	2.95	20.2	0.26
	9/25/2024	52	--	60	40	4.5	2.21	19.3	0.18
	10/1/2024	57	--	100	65	5.0	2.46	--	--
	10/16/2024	15	--	30	20	5.0	2.46	20.0	0.24
	10/23/2024	24	--	--	--	6.0	2.95	21.9	0.08
	11/6/2024	6	--	60	37	6.5	3.19	20.9	0.16
	11/14/2024	11	--	100	59	7.5	3.68	20.9	0.20
	11/27/2024	12	--	75	46	6.5	3.19	20.9	0.13
	12/5/2024	90	--	60	35	8.0	3.93	20.9	0.27
	12/11/2024	124	--	75	44	7.5	3.68	20.9	0.04
	12/18/2024	115	--	75	42	8.5	4.17	20.9	0.15
	12/30/2024	289	--	80	47	7.5	3.68	20.9	0.19
	1/8/2025	62	--	50	31	6.0	2.95	19.2	0.06
	1/25/2025	76	--	10	6	7.0	3.44	20.9	0.06
	2/6/2025	--	--	0	0	0.0	0.00	--	--
	2/21/2025	--	--	0	0	0.0	0.00	--	--
	3/11/2025	42	--	10	6	7.0	3.44	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	39	--	96	49	10.5	5.16	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	34	--	80	42	10.0	4.91	--	--
	5/21/2025	16	--	50	27	9.5	4.67	20.9	0.07
	6/10/2025	21	--	10	5	9.8	4.79	20.9	0.15
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	8	--	26	13	10.5	5.16	20.9	0.09
	8/22/2025	--	--	10	4	14.3	7.00	--	--
	8/27/2025	19	--	5	3	5.5	2.70	20.9	0.00
	9/3/2025	--	--	5	2	12.5	6.14	--	--
	9/29/2025	8	--	28	9	17.5	8.60	20.9	0.02
MW10	8/13/2024	1,334	--	56	36	5.5	2.70	17.7	3.38
	8/14/2024	1,803	--	44	29	4.5	2.21	12.0	3.46
	8/15/2024	2,053	--	62	42	4.0	1.96	16.4	1.78
	8/16/2024	1,978	--	58	38	5.0	2.46	18.0	1.66
	8/21/2024	2,851	--	70	38	9.0	4.42	18.9	1.50
	8/28/2024	1,302	--	65	43	4.5	2.21	20.9	0.32
	9/4/2024	1,112	--	70	46	5.0	2.46	20.8	0.38
	9/11/2024	704	--	70	45	5.5	2.70	20.8	0.40
	9/19/2024	1,201	--	70	44	6.0	2.95	19.9	0.38
	9/25/2024	556	--	65	42	5.0	2.46	17.0	0.64
	10/1/2024	834	--	60	38	5.5	2.70	--	--
	10/16/2024	410	--	60	39	5.0	2.46	19.8	0.36
	10/23/2024	307	--	--	--	5.0	2.46	20.9	0.16
	11/6/2024	288	--	75	48	5.5	2.70	20.9	0.22
	11/14/2024	--	--	74	45	6.5	3.19	--	--
	11/27/2024	335	--	65	42	5.0	2.46	20.8	0.21
	12/5/2024	506	--	70	49	3.5	1.72	--	0.39
	12/11/2024	484	--	80	53	4.5	2.21	220.9	0.59
	12/18/2024	409	--	75	50	4.5	2.21	20.1	0.45
	12/30/2024	279	--	65	44	4.0	1.96	20.1	0.44
	1/8/2025	611	--	60	43	2.5	1.23	20.3	0.21
	1/25/2025	478	--	62	44	3.0	1.47	20.7	0.15
	2/6/2025	457	--	64	46	2.8	1.35	20.9	0.10
	2/21/2025	372	--	64	46	2.5	1.23	--	--
	3/11/2025	326	--	56	40	2.5	1.23	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	234	--	76	42	9.0	4.42	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	252	--	80	44	9.0	4.42	--	--
	5/21/2025	128	--	74	47	5.8	2.82	20.9	0.16
	6/10/2025	164	--	74	46	6.0	2.95	20.9	0.11
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	--	--	80	47	7.5	3.68	--	--
	8/22/2025	--	--	76	32	14.0	6.88	--	--

TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS

Hare 15
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
MW10	8/27/2025	15	--	76	43	8.3	4.05	20.9	0.04
	9/3/2025	--	--	24	11	12.3	6.02	--	--
	9/29/2025	8	--	76	28	16.0	7.86	20.9	0.02
MW11	8/13/2024	1,751	--	44	26	7.0	3.44	10.3	>5.00
	8/14/2024	1,940	--	40	26	5.0	2.46	15.1	3.80
	8/15/2024	1,852	--	74	48	5.0	2.46	18.2	1.64
	8/16/2024	2,190	--	68	44	5.0	2.46	18.8	1.46
	8/21/2024	2,381	--	76	36	12.0	5.89	19.3	0.94
	8/28/2024	2,964	--	80	47	7.5	3.68	20.6	0.50
	9/4/2024	977	--	55	32	7.5	3.68	20.6	0.31
	9/11/2024	423	--	80	47	7.5	3.68	20.9	0.26
	9/19/2024	1,999	--	60	36	7.0	3.44	20.5	0.28
	9/25/2024	461	--	70	44	6.0	2.95	17.3	0.46
	10/1/2024	592	--	100	63	6.0	2.95	--	--
	10/16/2024	229	--	58	37	5.5	2.70	19.8	0.28
	10/23/2024	179	--	--	--	7.5	3.68	20.9	0.18
	11/6/2024	170	--	50	30	7.0	3.44	20.9	0.19
	11/14/2024	--	--	56	32	8.0	3.93	--	--
	11/27/2024	142	--	60	35	7.5	3.68	20.8	0.19
	12/5/2024	386	--	80	52	5.0	2.46	20.5	0.32
	12/11/2024	130	--	80	44	9.0	4.42	20.9	0.41
	12/18/2024	172	--	80	40	11.0	5.40	20.7	0.34
	12/30/2024	152	--	50	29	8.0	3.93	20.9	0.22
	1/8/2025	394	--	48	28	7.5	3.68	20.2	0.13
	1/25/2025	482	--	40	24	7.5	3.68	20.9	0.11
	2/6/2025	457	--	52	29	8.5	4.17	20.9	0.07
	2/21/2025	189	--	50	30	7.3	3.56	--	--
	3/11/2025	104	--	40	25	6.5	3.19	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	110	--	58	32	9.0	4.42	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	114	--	72	38	10.0	4.91	--	--
	5/21/2025	76	--	58	30	10.5	5.16	20.9	0.08
	6/10/2025	68	--	58	30	10.3	5.03	20.9	0.09
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	28	--	64	30	12.0	5.89	20.9	0.06
	8/22/2025	--	--	--	--	14.3	7.00	--	--
	8/27/2025	31	--	--	--	10.5	5.16	20.9	0.06
	9/3/2025	--	--	--	--	13.3	6.51	--	--
	9/29/2025	26	--	25	13	10.5	5.16	20.9	0.08
MW13	8/13/2024	290	--	44	24	9.0	4.42	18.9	2.28
	8/14/2024	963	--	10	6	6.0	2.95	20.9	0.14
	8/15/2024	662	--	14	10	4.0	1.96	20.9	0.10
	8/16/2024	451	--	14	10	4.0	1.96	20.9	0.06
	8/21/2024	2,845	--	72	38	10.0	4.91	20.6	0.48
	8/28/2024	993	--	60	35	8.0	3.93	20.9	0.00
	9/4/2024	122	--	60	39	5.0	2.46	20.9	0.02
	9/11/2024	63	--	--	--	4.0	1.96	20.9	0.04
	9/19/2024	113	--	--	--	7.5	3.68	20.5	0.04
	9/25/2024	464	--	--	--	7.5	3.68	17.4	0.26
	10/1/2024	552	--	52	30	8.0	3.93	--	--
	10/16/2024	9	--	58	37	5.5	2.70	20.0	0.02
	10/23/2024	153	--	--	--	9.0	4.42	21.4	0.06
	11/6/2024	80	--	60	33	9.0	4.42	20.8	0.11
	11/14/2024	--	--	90	--	10.0	4.91	--	--
	11/27/2024	94	--	80	43	9.5	4.67	20.9	0.17
	12/5/2024	148	--	60	36	7.0	3.44	20.7	0.17
	12/11/2024	14	--	65	34	10.0	4.91	20.4	0.13
	12/18/2024	39	--	60	31	10.5	5.16	20.9	0.13
	12/30/2024	38	--	60	32	9.5	4.67	20.9	0.19
	1/8/2025	236	--	52	28	9.5	4.67	20.9	0.04
	1/25/2025	262	--	62	33	9.5	4.67	20.9	0.05
	2/6/2025	132	--	42	22	10.0	4.91	20.9	0.04
	2/21/2025	123	--	50	26	10.0	4.91	--	--
	3/11/2025	--	--	48	27	8.3	4.05	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	49	--	72	38	10.0	4.91	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	47	--	60	31	10.0	4.91	--	--
	5/21/2025	--	--	56	26	12.0	5.89	--	--
	6/10/2025	--	--	48	23	12.0	5.89	--	--
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	11	--	18	12	5.5	2.70	20.9	0.06

TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS

Hare 15
Hilcorp Energy Company
San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
MW13	8/22/2025	--	--	--	--	14.3	7.00	--	--
	8/27/2025	13	--	--	--	12.3	6.02	20.9	0.01
	9/3/2025	--	--	--	--	15.0	7.37	--	--
	9/29/2025	7	--	10	3	18.0	8.84	20.9	0.00
MW14	8/13/2024	379	--	42	25	7.0	3.44	14.8	>5.00
	8/14/2024	1,074	--	32	21	5.0	2.46	18.3	4.18
	8/15/2024	759	--	50	34	4.0	1.96	19.9	1.94
	8/16/2024	726	--	52	34	5.0	2.46	19.9	2.02
	8/21/2024	688	--	58	27	12.0	5.89	20.6	1.26
	8/28/2024	633	--	50	30	7.0	3.44	20.9	0.65
	9/4/2024	210	--	45	28	6.5	3.19	20.9	0.40
	9/11/2024	150	--	45	28	6.5	3.19	20.9	0.32
	9/19/2024	161	--	60	35	7.5	3.68	20.9	0.05
	9/25/2024	203	--	60	38	6.0	2.95	19.5	0.20
	10/1/2024	143	--	60	36	7.0	3.44	--	--
	10/16/2024	72	--	48	31	5.0	2.46	19.9	0.23
	10/23/2024	81	--	--	--	6.5	3.19	21.1	0.16
	11/6/2024	51	--	50	30	7.0	3.44	20.9	0.14
	11/14/2024	--	--	60	35	7.5	3.68	--	--
	11/27/2024	78	--	75	44	7.5	3.68	20.9	0.10
	12/5/2024	108	--	70	46	5.0	2.46	20.9	0.26
	12/11/2024	21	--	65	37	8.0	3.93	20.9	0.27
	12/18/2024	64	--	70	40	8.0	3.93	20.9	0.26
	12/30/2024	64	--	50	30	7.0	3.44	20.9	0.20
	1/8/2025	233	--	40	24	7.5	3.68	20.9	0.12
	1/25/2025	262	--	100	59	7.3	3.56	20.9	0.09
	2/6/2025	144	--	52	30	8.0	3.93	20.8	0.05
	2/21/2025	84	--	48	27	8.5	4.17	--	--
	3/11/2025	112	--	36	20	8.5	4.17	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	73	--	74	35	12.0	5.89	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	68	--	80	39	11.5	5.65	--	--
	5/21/2025	54	--	56	29	10.0	4.91	20.9	0.09
	6/10/2025	75	--	50	26	10.0	4.91	20.9	0.12
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	24	--	60	42	3.0	1.47	20.9	0.02
	8/22/2025	--	--	--	--	17.0	8.35	--	--
	8/27/2025	19	--	--	--	3.3	1.60	20.9	0.02
	9/3/2025	--	--	--	--	16.3	8.00	--	--
	9/29/2025	29	--	64	24	15.8	7.74	20.7	0.10
MW15	8/13/2024	379	--	70	42	7.0	3.44	12.0	>5.00
	8/14/2024	1,932	--	52	33	5.5	2.70	14.6	>5.00
	8/15/2024	1,677	--	58	36	6.0	2.95	16.9	4.26
	8/16/2024	1,262	--	44	29	5.0	2.46	17.7	3.82
	8/21/2024	1,555	--	70	35	11.0	5.40	18.9	2.52
	8/28/2024	1,865	--	55	33	7.0	3.44	20.9	0.76
	9/4/2024	975	--	55	33	7.0	3.44	20.7	0.72
	9/11/2024	555	--	60	35	7.5	3.68	20.8	0.54
	9/19/2024	602	--	70	41	7.5	3.68	19.9	0.50
	9/25/2024	393	--	60	38	6.0	2.95	18.2	0.62
	10/1/2024	386	--	70	43	6.5	3.19	--	--
	10/16/2024	220	--	62	41	5.0	2.46	19.9	0.39
	10/23/2024	205	--	--	--	7.0	3.44	20.9	0.22
	11/6/2024	214	--	70	41	7.5	3.68	20.9	0.25
	11/14/2024	--	--	72	41	8.0	3.93	--	--
	11/27/2024	442	--	60	35	7.5	3.68	20.4	0.31
	12/5/2024	539	--	70	46	5.0	2.46	20.1	0.49
	12/11/2024	395	--	75	41	9.0	4.42	20.9	0.39
	12/18/2024	371	--	65	36	9.0	4.42	20.9	0.46
	12/30/2024	299	--	70	41	7.5	3.68	20.6	0.35
	1/8/2025	628	--	62	36	7.5	3.68	20.3	0.23
	1/25/2025	701	--	58	34	7.5	3.68	20.7	0.21
	2/6/2025	218	--	50	29	7.8	3.81	20.9	0.20
	2/21/2025	338	--	52	29	9.0	4.42	--	--
	3/11/2025	305	--	44	26	7.3	3.56	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	218	--	68	--	10.0	--	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	234	--	64	33	10.5	5.16	--	--
	5/21/2025	151	--	54	28	10.5	5.16	20.9	0.22
	6/10/2025	137	--	44	23	10.3	5.03	20.9	0.18
	6/26/2025	--	--	--	--	--	--	--	--

TABLE 2
DUAL PHASE EXTRACTION SYSTEM FIELD MEASUREMENTS
 Hare 15
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾	Vacuum (IHG)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
MW15	7/17/2025	88	--	56	27	11.5	5.65	20.9	0.14
	8/22/2025	--	--	--	--	14.5	7.12	--	--
	8/27/2025	72	--	--	--	12.0	5.89	20.9	0.12
	9/3/2025	--	--	--	--	13.5	6.63	--	--
	9/29/2025	81	--	70	29	14.0	6.88	20.3	0.23
MW16	8/13/2024	1,796	--	14	8	7.0	3.44	13.5	>5.00
	8/14/2024	480	--	12	8	5.5	2.70	20.9	0.02
	8/15/2024	501	--	18	12	5.0	2.46	20.9	0.00
	8/16/2024	47	--	26	17	5.0	2.46	20.9	0.02
	8/21/2024	404	--	25	12	11.0	5.40	20.9	0.02
	8/28/2024	4,787	--	45	27	7.0	3.44	20.9	0.76
	9/4/2024	1,810	--	30	18	7.0	3.44	20.8	0.51
	9/11/2024	1,335	--	30	18	7.5	3.68	20.7	0.42
	9/19/2024	1,421	--	NM	NM	7.0	3.44	20.2	0.32
	9/25/2024	188	--	30	19	6.0	2.95	19.9	0.04
	10/1/2024	112	--	58	36	6.0	2.95	--	--
	10/16/2024	68	--	14	9	5.5	2.70	19.9	0.02
	10/23/2024	30	--	--	--	6.0	2.95	20.2	0.08
	11/6/2024	279	--	50	29	7.5	3.68	20.9	0.11
	11/14/2024	--	--	48	28	8.0	3.93	--	--
	11/27/2024	422	--	55	32	7.5	3.68	20.5	0.25
	12/5/2024	751	--	20	12	7.5	3.68	20.9	0.32
	12/11/2024	217	--	15	11	1.0	0.49	20.9	0.28
	12/18/2024	273	--	75	41	9.0	4.42	20.9	0.21
	12/30/2024	241	--	--	--	8.0	3.93	20.9	--
	1/8/2025	91	--	14	8	7.8	3.81	20.9	0.00
	1/25/2025	83	--	16	9	7.8	3.81	20.9	0.00
	2/6/2025	125	--	24	14	8.0	3.93	20.9	0.00
	2/21/2025	94	--	16	8	9.8	4.79	--	--
	3/11/2025	150	--	10	6	7.5	3.68	--	--
	3/31/2025	System Off - Blower Broken							
	4/11/2025	110	--	58	--	10.0	--	--	--
	4/29/2025	--	--	--	--	--	--	--	--
	5/9/2025	9	--	24	13	9.5	4.67	--	--
	5/21/2025	--	--	0	0	0.0	0.00	--	--
	6/10/2025	--	--	0	0	0.0	0.00	--	--
	6/26/2025	--	--	--	--	--	--	--	--
	7/17/2025	--	--	--	--	--	--	--	--
	8/22/2025	--	--	--	--	12.0	5.89	--	--
	8/27/2025	--	--	--	--	12.0	5.89	--	--
	9/3/2025	--	--	--	--	12.0	5.89	--	--
	9/29/2025	--	--	32	11	17.0	8.35	--	--

Notes:

(1) Individual Well Flow Rates in scfm estimated based on rotometer readings from 1/2/24 to 1/5/24

IHG: inches of mercury

PID: photoionization detector

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured

TABLE 3
DUAL PHASE EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
Hare 15
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 (%)
8/13/2024	1,572	310	240	36	530	45,000	12.01	7.68
8/14/2024	1,915	180	250	30	390	28,000	16.73	3.02
8/21/2024	1,838	54	280	37	480	18,000	20.46	0.95
8/28/2024	2,020	20	160	28	380	12,000	21.20	0.64
9/4/2024	495	14	100	14	190	6,600	21.57	0.33
9/19/2024	1,004	69	360	<50	590	3,700	21.78	0.28
10/1/2024	135	6.1	31	<5.0	56	64	21.47	0.40
10/16/2024	389	2.3	10	0.68	11	18	21.65	0.23
11/15/2024	--	1.3	1.9	<0.50	<0.75	440	19.33	0.19
11/27/2024	378	4.4	24	<5.0	78	2,100	22.01	0.16
12/5/2024	276	1.1	1.8	<0.50	0.92	440	21.80	0.16
2/6/2025	67	0.63	6.2	0.59	13	530	21.96	0.18
4/11/2025	292	1.2	3.3	0.67	25	960	21.78	0.38
4/29/2025	658	0.78	4.6	0.75	20	810	21.41	0.22
6/10/2025	48	0.91	10	0.90	14	500	21.97	0.16
8/22/2025	22	<0.10	0.50	<0.10	1.7	57	21.90	0.15

Notes:

GRO: gasoline range organics

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

--: not sampled

Grey: Result below laboratory reporting limit

TABLE 4
DUAL PHASE EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS
Hare 15
Hilcorp Energy Company
San Juan County, New Mexico

Laboratory Analysis						
Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
8/13/2024	1,572	310	240	36	530	45,000
8/14/2024	1,915	180	250	30	390	28,000
8/21/2024	1,838	54	280	37	480	18,000
8/28/2024	2,020	20	160	28	380	12,000
9/4/2024	495	14	100	14	190	6,600
9/19/2024	1,004	69	360	<50	590	3,700
10/1/2024	135	6.1	31	<5.0	56	64
10/16/2024	389	2.3	10	0.68	11	18
11/15/2024	--	1.3	1.9	<0.50	<0.75	440
11/27/2024	378	4.4	24.0	<5.0	78	2,100
12/5/2024	276	1.1	1.8	<0.50	0.92	440
2/6/2025	67	0.6	6.2	<0.59	13.00	530
4/11/2025	292	1.2	3.3	0.67	25	960
4/29/2025	658	0.78	4.6	0.75	20	810
6/10/2025	48	0.91	10	0.90	14	500
8/22/2025	22	<0.10	1	<0.10	2	57
Average	741	42	93	13	174	7,451

Vapor Extraction Summary								
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)
8/13/2024	127	0	0	0.1472	0.1140	0.0171	0.2517	21.37
8/14/2024	127	150,114	150,114	0.0855	0.1187	0.0142	0.1852	13.30
8/21/2024	120	1,346,034	1,195,920	0.0242	0.1257	0.0166	0.2154	8.08
8/28/2024	136	2,681,010	1,334,976	0.0102	0.0814	0.0142	0.1933	6.10
9/4/2024	157	4,251,324	1,570,314	0.0082	0.0587	0.0082	0.1116	3.88
9/19/2024	149	7,457,208	3,205,884	0.0385	0.2006	0.0279	0.3288	2.06
10/1/2024	169	9,000,516	1,543,308	0.0039	0.0196	0.0032	0.0354	0.04
10/16/2024	204	13,408,140	4,407,624	0.0018	0.0075	0.0005	0.0084	0.01
11/15/2024 ⁽¹⁾	202	21,629,136	8,220,996	0.0010	0.0014	0.0004	0.0006	0.33
11/27/2024	139	23,828,394	2,199,258	0.0023	0.0125	0.0026	0.0406	1.09
12/5/2024	143	25,460,310	1,631,916	0.0006	0.0010	0.0003	0.0005	0.24
2/6/2025	114	35,297,598	9,837,288	0.0003	0.0026	0.0003	0.0055	0.23
4/11/2025	105	41,310,948	6,013,350	0.0005	0.0013	0.0003	0.0098	0.38
4/29/2025 ⁽²⁾	105	43,815,828	2,504,880	0.0003	0.0018	0.0003	0.0079	0.32
6/10/2025	85	48,686,838	4,871,010	0.0003	0.0032	0.0003	0.0045	0.16
8/22/2025	63	55,284,450	6,597,612	0.0000	0.0001	0.0000	0.0004	0.01
Average				0.0203	0.047	0.0066	0.087	3.60

Mass Recovery								
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
8/13/2024	4	0.0	0.0	0.0	0.0	0.0	0.0	0.00
8/14/2024	24	20	1.7	2.3	0.3	3.6	262.0	0.13
8/21/2024	190	166	4.0	20.9	2.8	35.8	1341.9	0.67
8/28/2024	354	164	1.7	13.3	2.3	31.6	998.6	0.50
9/4/2024	520	167	1.4	9.8	1.4	18.6	646.0	0.32
9/19/2024	879	359	13.8	71.9	10.0	117.9	739.4	0.37
10/1/2024	1,031	152	0.6	3.0	0.5	5.4	6.2	0.00
10/16/2024	1,391	360	0.6	2.7	0.2	3.0	4.9	0.00
11/15/2024	2,070	678	0.7	1.0	0.3	0.4	225.5	0.11
11/27/2024	2,333	264	0.6	3.3	0.7	10.7	287.9	0.14
12/5/2024	2,523	190	0.1	0.2	0.1	0.1	44.8	0.02
2/6/2025	3,962	1,438	0.4	3.8	0.4	8.0	325.0	0.16
4/11/2025	4,916	955	0.4	1.2	0.3	9.4	359.8	0.18
4/29/2025	5,314	398	0.1	0.7	0.1	3.1	126.5	0.06
6/10/2025	6,269	955	0.3	3.0	0.3	4.3	151.8	0.08
8/22/2025	8,014	1,745	0.0	0.2	0.0	0.7	23.4	0.01
Total Mass Recovery to Date			26	137	19	253	5,544	2.77

Notes:

cf: cubic feet

cfm: cubic feet per minute

µg/L: micrograms per liter

lb/hr: pounds per hour

--: not sampled

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

Grey: Laboratory reporting limit used to estimate mass removal

(1): Flow rate and hours from 11/14/24 applied to analytical data from 11/15/24

(2): Flow rate based on 4/11/25 data

TABLE 5 LIQUID RECOVERY Hare 15 Hilcorp Energy Company San Juan County, New Mexico									
Date/Time	Hour Meter Reading	Flow Meter Reading (gal)	Gallons Recovered this Period	Cumulative Volume Recovered (gal)	Time Period (hr:min:sec)	Time Period (min)	Recovery Rate		Notes
							(gpm)	(gal/day)	
8/12/2024	System Startup								
8/20/2024	Totalizer Installed								
8/21/2024	189.7	--	--	--	--	--	--	--	
8/28/2024	352.6	4,680	4,680	4,680	168:45:00	10,125	0.46	666	
9/4/2024	520.3	9,057	4,378	9,057	168:25:00	10,105	0.43	624	
9/11/2024	687.4	13,093	4,035	13,093	153:30:00	9,210	0.44	631	
9/19/2024	878.9	17,197	4,105	17,197	192:00:00	11,520	0.36	513	
9/25/2024	970.3	20,511	3,313	20,511	157:58:00	9,478	0.35	503	
10/1/2024	1,031.1	22,652	2,142	22,652	130:02:00	7,802	0.27	395	
10/16/2024	1,391	23,665	1,013	23,665	360:00:00	21,600	0.05	68	
10/23/2024	NR	NR	NR	NR	168:00:00	10,080	NR	NR	
11/6/2024	1,880	32,212	8,546	32,212	336:00:00	20,160	0.42	610	
11/14/2024 ⁽¹⁾	2,070	35,998	3,786	35,998	--	--	--	--	
11/27/2024 ⁽¹⁾	2,333	38,388	6,176	38,388	--	--	--	--	
12/5/2024 ⁽¹⁾	2,523	38,388	0	38,388	--	--	--	--	
12/11/2024 ⁽¹⁾	2,605	38,398	10	38,398	--	--	--	--	
12/18/2024 ⁽¹⁾	2,774	38,398	0	38,398	--	--	--	--	
12/30/2024 ⁽¹⁾	3,050	38,398	0	38,398	--	--	--	--	
1/8/2025 ⁽¹⁾	3,263	38,388	-10	38,388	--	--	--	--	
1/25/2025 ⁽¹⁾	3,673	38,390	3	38,390	--	--	--	--	
2/6/2025 ⁽¹⁾	3,962	38,390	0	38,390	--	--	--	--	
2/21/2025 ⁽¹⁾	4,321	38,390	0	38,390	--	--	--	--	
2/28/2025 ⁽²⁾	4,489	141	0	38,390	--	--	--	--	Totalizer Replaced
3/11/2025	4,751	9,994,755	--	--	--	--	--	--	Totalizer Running Backward
3/31/2025	System Off								
4/11/2025	4,916	9,980,774	--	--	--	--	--	--	Totalizer Running Backward
5/9/2025	5,502	9,984,396	3,622	42,013	672:00:00	40,320	0.09	129	
5/21/2025	5,792	9,984,996	600	42,613	288:00:00	17,280	0.03	50	
6/10/2025	6,269	9,984,996	0	42,613	480:00:00	28,800	0.00	0	Totalizer Not Functioning
6/26/2025	6,649	9,984,996	0	42,613	384:00:00	23,040	0.00	0	Totalizer Not Functioning
7/17/2025	7,151	9,984,996	0	42,613	504:00:00	30,240	0.00	0	Totalizer Not Functioning
8/22/2025	8,014	423	0	42,613	864:00:00	51,840	0.00	0	Totalizer Replaced
8/27/2025	8,133	597	174	42,787	120:00:00	7,200	0.02	35	
9/3/2025	8,302	607	11	42,797	168:00:00	10,080	0.00	2	
9/29/2025	8,858	967	360	43,157	624:00:00	37,440	0.01	14	

Notes:

*: totalizing meter installed on 8/16/2024

bbl: barrel

in: inch

ft: feet

min: minute

gal: gallon

sec: second

gal/day: gallon per day

Dashed line indicated quarter change

gpm: gallon per minute

--: not applicable

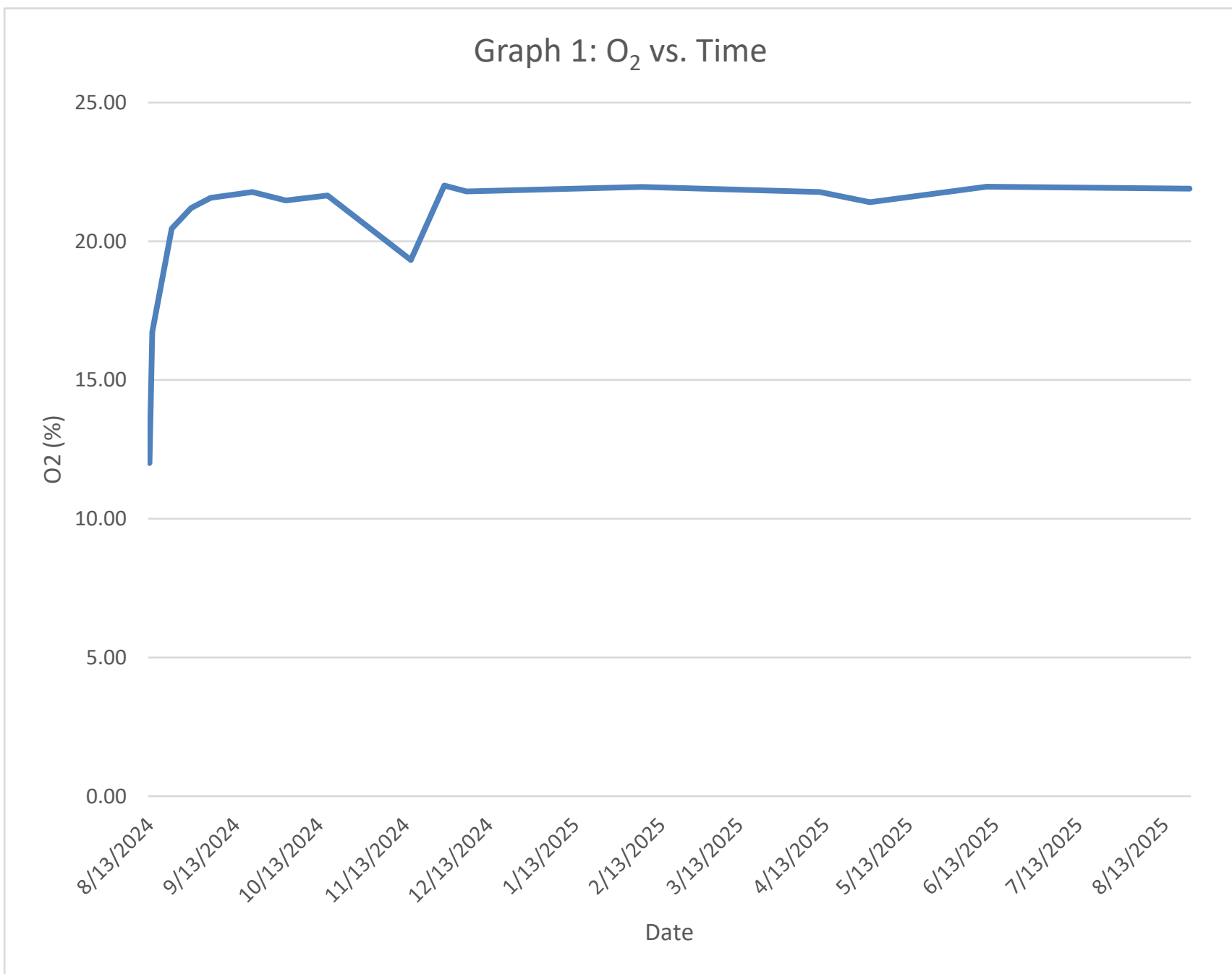
hr: hour

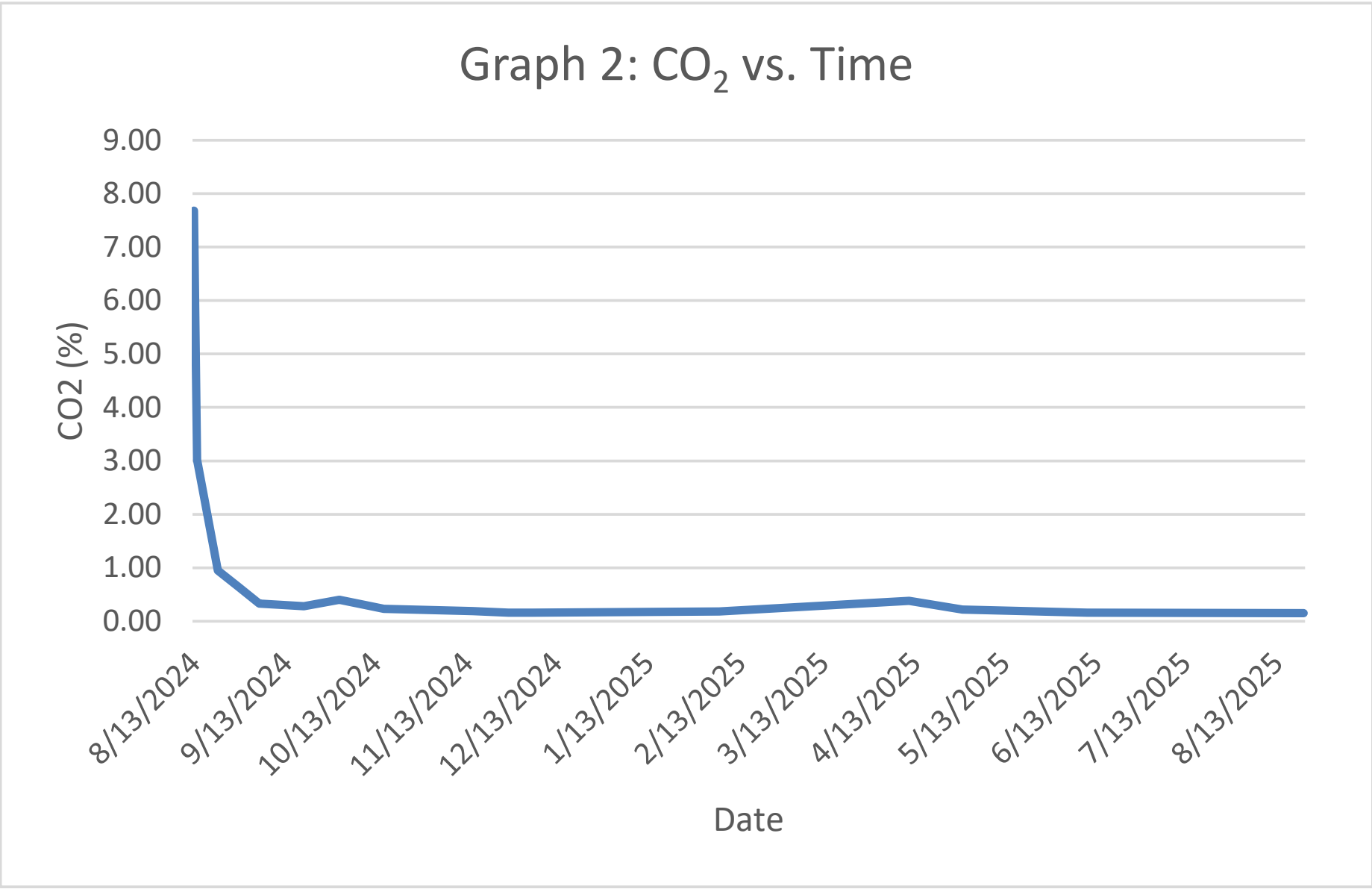
NR: Not recorded

(1) Totalizer not functioning

(2) Totalizer replaced

Total Quantity of Liquid Removed:	43,157 Gal
	1,028 bbl

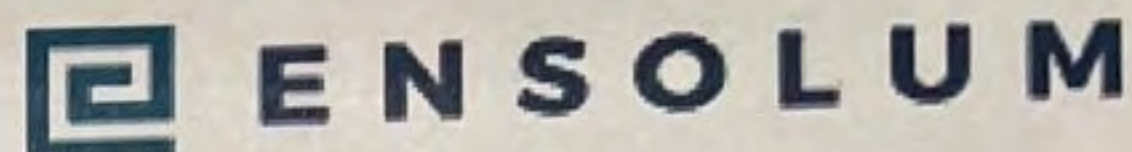






APPENDIX A

O&M Field Notes

HARE 15 DPE SYSTEM
O&M FORMDATE: 7-17
TIME ONSITE: _____O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____DPE ALARMS: KO TANK HIGH LEVEL

BI-MONTHLY MAINTENANCE, MUST BE PERFORMED/CHECKED TWICE PER MONTH

DPE SYSTEM	READING	TIME	NOTES:
Blower Hours (photo)	7150.9	1012	
Transfer Pump Hours (photo)	768.9		
Pre-Filter Vacuum (InHg)	12.25		
Post-Filter Vacuum (InHg)	11.75		
Differential Pressure (IWC)	0.20		
Exhaust Temperature	230		
Transfer Pump Pressure (PSI)	0		
Transfer Pump Totalizer (Gal, photo)	9984996.32		

Check filter for moisture	Condition:
Is replacement filter needed? <u>no</u>	Condition:
Remove and Clean Float Assembly	Condition:
Clean Wye Strainer	Condition:
Muffler Drain Plug Check, Check Scale	Condition:
Add Chemical Pellets (once per month)	Date performed: <u>7-17</u>

SVE SYSTEM SAMPLING

SAMPLE ID:	SAMPLE TIME:	ppm
PID (ppm) <u>76.0</u>	OXYGEN (%) <u>20.9</u>	CARBON DIOXIDE (%) <u>1200</u>
Analytes: Sample bimonthly through 8/12/25 and then quarterly for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)		

OPERATING WELLS

Change in Well Operation: _____

MONTHLY O&M MEASUREMENT

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01	8.0		13.7	20.9	800
MW06	0				
MW08	4.25		10.0	20.9	1760
MW09	10.5		8.3	20.9	900
MW10	7.5				
MW11	12.0		27.7	20.9	580
MW13	5.5		10.6	20.9	580
MW14	3.0		24.7	20.9	220
MW15	11.5		88.3	20.9	1360
MW16	0				

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	FLOW (CFM)
MW01	11.25	opaque
MW06	8.75	opaque
MW08	8.5	opaque
MW09	13.25	28
MW10	12.0	80
MW11	12.25	64
MW13	13.75	18
MW14	14.5	60
MW15	13.0	56
MW16	10.25	opaque

COMMENTS/MAINTENANCE ISSUES

MW-06 sight tube needs to be replaced, scale preventing flow
MW-07 brass vacuum fitting won't penetrate well

HARE 15 DPE SYSTEM
O&M FORM

DATE: 8-22
TIME ONSITE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE:

DPE ALARMS: KO TANK HIGH LEVEL

BI-MONTHLY MAINTENANCE, MUST BE PERFORMED/CHECKED TWICE PER MONTH

DPE SYSTEM	READING	TIME	NOTES:
Blower Hours (photo)	8014.2	1239	
Transfer Pump Hours (photo)	769.6		
Pre-Filter Vacuum (InHg)	14.5		
Post-Filter Vacuum (InHg)	13.25		
Differential Pressure (IWC)	.20		
Exhaust Temperature	285		
Transfer Pump Pressure (PSI)	0		
Transfer Pump Totalizer (Gal, photo)	422.90		

Check filter for moisture	Condition:
Is replacement filter needed?	Condition:
Remove and Clean Float Assembly	Condition:
Clean Wye Strainer	Condition:
Muffler Drain Plug Check, Check Scale	Condition:
Add Chemical Pellets (once per month)	Date performed:

SVE SYSTEM SAMPLING

SAMPLE ID:	SVE-1	SAMPLE TIME:	1300
PID (ppm)	21.6	OXYGEN (%)	20.9
		CARBON DIOXIDE (%)	1080
Analytes:	Sample bimonthly through 8/12/25 and then quarterly for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)		

OPERATING WELLS

Change in Well Operation:

MONTHLY O&M MEASUREMENT

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01					
MW06					
MW08					
MW09					
MW10					
MW11					
MW13					
MW14					
MW15					
MW16					

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (IHg)	FLOW (CFM)
MW01	14.5	opaque
MW06	2.25	opaque
MW08	14.0	72
MW09	14.25	10
MW10	14.0	76
MW11	14.25	opaque
MW13	14.25	opaque
MW14	17.0	opaque
MW15	14.5	opaque
MW16	13.0	opaque

COMMENTS/MAINTENANCE ISSUES

HARE 15 DPE SYSTEM
O&M FORM

DATE: 8-27
TIME ONSITE: _____

O&M PERSONNEL: D Sinclair
TIME OFFSITE: _____

DPE ALARMS: KO TANK HIGH LEVEL

BI-MONTHLY MAINTENANCE, MUST BE PERFORMED/CHECKED TWICE PER MONTH

DPE SYSTEM	READING	TIME	NOTES:
Blower Hours (photo)	8133.3	1198	
Transfer Pump Hours (photo)	769.7		
Pre-Filter Vacuum (InHg)	15.0		
Post-Filter Vacuum (InHg)	13.5		
Differential Pressure (IWC)	0.15		
Exhaust Temperature	287.5		
Transfer Pump Pressure (PSI)	0		
Transfer Pump Totalizer (Gal, photo)	546.58		

Check filter for moisture	Condition:
Is replacement filter needed?	Condition:
Remove and Clean Float Assembly	Condition:
Clean Wye Strainer	Condition:
Muffler Drain Plug Check, Check Scale	Condition:
Add Chemical Pellets (once per month)	Date performed:

SVE SYSTEM SAMPLING

SAMPLE ID:	SAMPLE TIME:		
PID (ppm)	20.3	OXYGEN (%) 20.9	CARBON DIOXIDE (%) 890
Analytes:	Sample bimonthly through 8/12/25 and then quarterly for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)		

OPERATING WELLS

Change in Well Operation:	
---------------------------	--

MONTHLY O&M MEASUREMENT

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IWC)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01	4.0		15.7	20.9	890
MW06	0		-	-	-
MW08	12.5		12.5	20.9	1100
MW09	5.5		18.8	20.9	1000
MW10	8.25		15.4	20.9	420
MW11	10.5		31.2	20.9	600
MW13	12.25		13.4	20.9	800
MW14	3.25		19.1	20.9	160
MW15	12.0		72.4	20.9	1180
MW16	0		-	-	-

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (IHg)	FLOW (CFM)
MW01	14.0	opaque
MW06	14.25	8
MW08	12.75	70
MW09	11.75	5
MW10	13.0	76
MW11	13.75	opaque
MW13	14.75	opaque
MW14	16.25	opaque
MW15	13.25	opaque
MW16	12.0	opaque

COMMENTS/MAINTENANCE ISSUES

MW06 no vacuum at wellhead

HARE 15 DPE SYSTEM
O&M FORM

DATE: 9-3
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

DPE ALARMS: KO TANK HIGH LEVEL

BI-MONTHLY MAINTENANCE, MUST BE PERFORMED/CHECKED TWICE PER MONTH

DPE SYSTEM	READING	TIME	NOTES:
Blower Hours (photo)	8301.5	1216	
Transfer Pump Hours (photo)	769.8		
Pre-Filter Vacuum (InHg)	15.0		
Post-Filter Vacuum (InHg)	13.75		
Differential Pressure (IWC)	0.15		
Exhaust Temperature	250		
Transfer Pump Pressure (PSI)	0		
Transfer Pump Totalizer (Gal, photo)	607.12		

Check filter for moisture	Condition:
Is replacement filter needed?	Condition:
Remove and Clean Float Assembly	Condition:
Clean Wye Strainer	Condition:
Muffler Drain Plug Check, Check Scale	Condition:
Add Chemical Pellets (once per month)	Date performed:

SVE SYSTEM SAMPLING

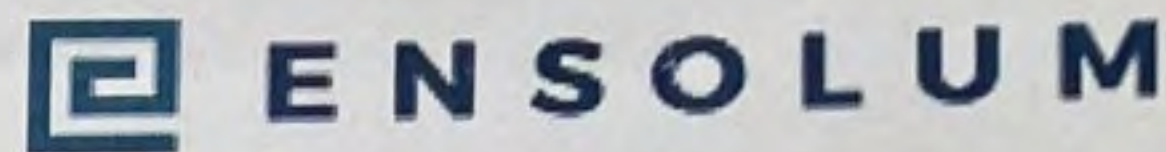
SAMPLE ID:	SAMPLE TIME:		
PID (ppm) 23.1	OXYGEN (%) 20.8	CARBON DIOXIDE (%) 760	
Analytes: Sample bimonthly through 8/12/25 and then quarterly for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)			

OPERATING WELLS	
Change in Well Operation:	

MONTHLY O&M MEASUREMENT

WELLHEAD MEASUREMENTS					
WELL ID	VACUUM (IWC) ^{InHg}	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01					
MW06					
MW08					
MW09					
MW10					
MW11					
MW13					
MW14					
MW15					
MW16					

MANIFOLD MEASUREMENTS			COMMENTS/MAINTENANCE ISSUES
WELL ID	VACUUM (IHg)	FLOW (CFM)	
MW01	15.5	opaque	
MW06	14.0	8	
MW08	13.0	60	
MW09	12.5	5	
MW10	12.25	24	
MW11	13.25	opaque	
MW13	15.0	opaque	
MW14	16.25	opaque	
MW15	13.5	opaque	
MW16	12.0	opaque	

HARE 15 DPE SYSTEM
O&M FORMDATE: 9-29
TIME ONSITE: _____O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____DPE ALARMS: ☐ KO TANK HIGH LEVEL

BI-MONTHLY MAINTENANCE, MUST BE PERFORMED/CHECKED TWICE PER MONTH

DPE SYSTEM	READING	TIME
Blower Hours (photo)	8857.7	1359
Transfer Pump Hours (photo)	834.3	
Pre-Filter Vacuum (InHg)	14.5	
Post-Filter Vacuum (InHg)	13.75	
Differential Pressure (IWC)	0.1	
Exhaust Temperature	240	
Transfer Pump Pressure (PSI)	0	
Transfer Pump Totalizer (Gal, photo)	967.14	

NOTES:

System off on arrival,
reset power

Check filter for moisture	Condition:
Is replacement filter needed?	Condition:
Remove and Clean Float Assembly	Condition:
Clean Wye Strainer	Condition:
Muffler Drain Plug Check, Check Scale	Condition:
Add Chemical Pellets (once per month)	Date performed:

SVE SYSTEM SAMPLING

SAMPLE ID:

PID (ppm)

22.5

SAMPLE TIME:

OXYGEN (%) 20.7

CARBON DIOXIDE (%)

1300

Analytes:

Sample bimonthly through 8/12/25 and then quarterly for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS

Change in Well Operation:

MONTHLY O&M MEASUREMENT

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (InHg)	DIFF PRESSURE (IWC)	PID HEADSPACE (PPM)	OXYGEN (%)	CARBON DIOXIDE (%)
MW01	9.5		9.7	20.9	40
MW06	0				
MW08	13.0		8.8	20.9	
MW09	181.8*		8.3	20.9	680
MW10	8.5		7.9	20.9	180
MW11	10.5		25.8	20.9	200
MW13	12.5		6.5	20.9	820
MW14	4.0		29.4	20.9	140
MW15	13.0		81.1	20.7	1020
MW16	8.0		∞	20.3	2260

MANIFOLD MEASUREMENTS

WELL ID	VACUUM (InHg)	FLOW (CFM)
MW01	17.5	14
MW06	0-10.0	16.75
MW08	13.0	58
MW09	17.5	28
MW10	16.0	26
MW11	10.5	25
MW13	18.0	10
MW14	15.75	64
MW15	14.0	70
MW16	17.0	32

COMMENTS/MAINTENANCE ISSUES

*IWC, gauge broken
∞: too much water in line
to draw air from port



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
Hare 15
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 Runtime meter taken on June 26, 2025 at 11:05 AM Hours = 6,649.3	
Photograph 2 Runtime meter taken on September 29, 2025 at 1:59 PM Hours = 8,857.7	

PROJECT PHOTOGRAPHS
Hare 15
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 3 Runtime meter taken on June 26, 2025 at 11:25 AM Gallons = 9,984,996.32	 DIRECTION 276 deg(T) 36.74928°N 107.87751°W ACCURACY 4 m DATUM WGS84 2025-06-26 11:25:47-06:00
Photograph 4 Runtime meter taken on September 29, 2025 at 2:02 PM Gallons = 961.14	 DIRECTION 255 deg(T) 36.74930°N 107.87750°W ACCURACY 5 m DATUM WGS84 2025-09-29 14:02:04-06:00



APPENDIX C

DPE 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 9/23/2025 4:27:50 PM

JOB DESCRIPTION

Hare 15

JOB NUMBER

885-31805-1

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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9/23/2025 4:27:50 PM

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

Client: Hilcorp Energy
Project/Site: Hare 15

Laboratory Job ID: 885-31805-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

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: Hare 15

Job ID: 885-31805-1

Job ID: 885-31805-1

Eurofins Albuquerque

Job Narrative 885-31805-1

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 8/26/2025 7:40 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: Hare 15

Job ID: 885-31805-1

Client Sample ID: SVE-1

Lab Sample ID: 885-31805-1

Date Collected: 08/22/25 13:00

Matrix: Air

Date Received: 08/26/25 07:40

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		0.10	ug/L			09/05/25 15:19	1
1,1,1-Trichloroethane	ND		0.10	ug/L			09/05/25 15:19	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			09/05/25 15:19	1
1,1,2-Trichloroethane	ND		0.10	ug/L			09/05/25 15:19	1
1,1-Dichloroethane	ND		0.10	ug/L			09/05/25 15:19	1
1,1-Dichloroethene	ND		0.10	ug/L			09/05/25 15:19	1
1,1-Dichloropropene	ND		0.10	ug/L			09/05/25 15:19	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			09/05/25 15:19	1
1,2,3-Trichloropropane	ND		0.20	ug/L			09/05/25 15:19	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			09/05/25 15:19	1
1,2,4-Trimethylbenzene	0.12		0.10	ug/L			09/05/25 15:19	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			09/05/25 15:19	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			09/05/25 15:19	1
1,2-Dichlorobenzene	ND		0.10	ug/L			09/05/25 15:19	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			09/05/25 15:19	1
1,2-Dichloropropane	ND		0.10	ug/L			09/05/25 15:19	1
1,3,5-Trimethylbenzene	0.17		0.10	ug/L			09/05/25 15:19	1
1,3-Dichlorobenzene	ND		0.10	ug/L			09/05/25 15:19	1
1,3-Dichloropropane	ND		0.10	ug/L			09/05/25 15:19	1
1,4-Dichlorobenzene	ND		0.10	ug/L			09/05/25 15:19	1
1-Methylnaphthalene	ND		0.40	ug/L			09/05/25 15:19	1
2,2-Dichloropropane	ND		0.20	ug/L			09/05/25 15:19	1
2-Butanone	ND		1.0	ug/L			09/05/25 15:19	1
2-Chlorotoluene	ND		0.10	ug/L			09/05/25 15:19	1
2-Hexanone	ND		1.0	ug/L			09/05/25 15:19	1
2-Methylnaphthalene	ND		0.40	ug/L			09/05/25 15:19	1
4-Chlorotoluene	ND		0.10	ug/L			09/05/25 15:19	1
4-Isopropyltoluene	ND		0.10	ug/L			09/05/25 15:19	1
4-Methyl-2-pentanone	ND		1.0	ug/L			09/05/25 15:19	1
Acetone	ND		1.0	ug/L			09/05/25 15:19	1
Benzene	ND		0.10	ug/L			09/05/25 15:19	1
Bromobenzene	ND		0.10	ug/L			09/05/25 15:19	1
Bromodichloromethane	ND		0.10	ug/L			09/05/25 15:19	1
Dibromochloromethane	ND		0.10	ug/L			09/05/25 15:19	1
Bromoform	ND		0.10	ug/L			09/05/25 15:19	1
Bromomethane	ND		0.30	ug/L			09/05/25 15:19	1
Carbon disulfide	ND		1.0	ug/L			09/05/25 15:19	1
Carbon tetrachloride	ND		0.10	ug/L			09/05/25 15:19	1
Chlorobenzene	ND		0.10	ug/L			09/05/25 15:19	1
Chloroethane	ND		0.20	ug/L			09/05/25 15:19	1
Chloroform	ND		0.10	ug/L			09/05/25 15:19	1
Chloromethane	ND		0.30	ug/L			09/05/25 15:19	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			09/05/25 15:19	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			09/05/25 15:19	1
Dibromomethane	ND		0.10	ug/L			09/05/25 15:19	1
Dichlorodifluoromethane	ND		0.10	ug/L			09/05/25 15:19	1
Ethylbenzene	ND		0.10	ug/L			09/05/25 15:19	1
Hexachlorobutadiene	ND		0.10	ug/L			09/05/25 15:19	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

Client Sample ID: SVE-1

Lab Sample ID: 885-31805-1

Date Collected: 08/22/25 13:00

Matrix: Air

Date Received: 08/26/25 07:40

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		0.10	ug/L			09/05/25 15:19	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			09/05/25 15:19	1
Methylene Chloride	ND		0.30	ug/L			09/05/25 15:19	1
n-Butylbenzene	ND		0.30	ug/L			09/05/25 15:19	1
N-Propylbenzene	ND		0.10	ug/L			09/05/25 15:19	1
Naphthalene	ND		0.20	ug/L			09/05/25 15:19	1
sec-Butylbenzene	ND		0.10	ug/L			09/05/25 15:19	1
Styrene	ND		0.10	ug/L			09/05/25 15:19	1
tert-Butylbenzene	ND		0.10	ug/L			09/05/25 15:19	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			09/05/25 15:19	1
Toluene	0.50		0.10	ug/L			09/05/25 15:19	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			09/05/25 15:19	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			09/05/25 15:19	1
Trichloroethene (TCE)	ND		0.10	ug/L			09/05/25 15:19	1
Trichlorofluoromethane	ND		0.10	ug/L			09/05/25 15:19	1
Vinyl chloride	ND		0.10	ug/L			09/05/25 15:19	1
Xylenes, Total	1.7		0.15	ug/L			09/05/25 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 130		09/05/25 15:19	1
Toluene-d8 (Surr)	114		70 - 130		09/05/25 15:19	1
4-Bromofluorobenzene (Surr)	97		70 - 130		09/05/25 15:19	1
Dibromofluoromethane (Surr)	97		70 - 130		09/05/25 15:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	57		25	ug/L			09/02/25 14:15	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		15 - 150		09/02/25 14:15	5

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

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

Lab Sample ID: MB 885-33981/4

Matrix: Air

Analysis Batch: 33981

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			09/05/25 14:52	1
1,1,1-Trichloroethane	ND		0.10	ug/L			09/05/25 14:52	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			09/05/25 14:52	1
1,1,2-Trichloroethane	ND		0.10	ug/L			09/05/25 14:52	1
1,1-Dichloroethane	ND		0.10	ug/L			09/05/25 14:52	1
1,1-Dichloroethene	ND		0.10	ug/L			09/05/25 14:52	1
1,1-Dichloropropene	ND		0.10	ug/L			09/05/25 14:52	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			09/05/25 14:52	1
1,2,3-Trichloropropane	ND		0.20	ug/L			09/05/25 14:52	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			09/05/25 14:52	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			09/05/25 14:52	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			09/05/25 14:52	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			09/05/25 14:52	1
1,2-Dichlorobenzene	ND		0.10	ug/L			09/05/25 14:52	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			09/05/25 14:52	1
1,2-Dichloropropane	ND		0.10	ug/L			09/05/25 14:52	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			09/05/25 14:52	1
1,3-Dichlorobenzene	ND		0.10	ug/L			09/05/25 14:52	1
1,3-Dichloropropane	ND		0.10	ug/L			09/05/25 14:52	1
1,4-Dichlorobenzene	ND		0.10	ug/L			09/05/25 14:52	1
1-Methylnaphthalene	ND		0.40	ug/L			09/05/25 14:52	1
2,2-Dichloropropane	ND		0.20	ug/L			09/05/25 14:52	1
2-Butanone	ND		1.0	ug/L			09/05/25 14:52	1
2-Chlorotoluene	ND		0.10	ug/L			09/05/25 14:52	1
2-Hexanone	ND		1.0	ug/L			09/05/25 14:52	1
2-Methylnaphthalene	ND		0.40	ug/L			09/05/25 14:52	1
4-Chlorotoluene	ND		0.10	ug/L			09/05/25 14:52	1
4-Isopropyltoluene	ND		0.10	ug/L			09/05/25 14:52	1
4-Methyl-2-pentanone	ND		1.0	ug/L			09/05/25 14:52	1
Acetone	ND		1.0	ug/L			09/05/25 14:52	1
Benzene	ND		0.10	ug/L			09/05/25 14:52	1
Bromobenzene	ND		0.10	ug/L			09/05/25 14:52	1
Bromodichloromethane	ND		0.10	ug/L			09/05/25 14:52	1
Dibromochloromethane	ND		0.10	ug/L			09/05/25 14:52	1
Bromoform	ND		0.10	ug/L			09/05/25 14:52	1
Bromomethane	ND		0.30	ug/L			09/05/25 14:52	1
Carbon disulfide	ND		1.0	ug/L			09/05/25 14:52	1
Carbon tetrachloride	ND		0.10	ug/L			09/05/25 14:52	1
Chlorobenzene	ND		0.10	ug/L			09/05/25 14:52	1
Chloroethane	ND		0.20	ug/L			09/05/25 14:52	1
Chloroform	ND		0.10	ug/L			09/05/25 14:52	1
Chloromethane	ND		0.30	ug/L			09/05/25 14:52	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			09/05/25 14:52	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			09/05/25 14:52	1
Dibromomethane	ND		0.10	ug/L			09/05/25 14:52	1
Dichlorodifluoromethane	ND		0.10	ug/L			09/05/25 14:52	1
Ethylbenzene	ND		0.10	ug/L			09/05/25 14:52	1
Hexachlorobutadiene	ND		0.10	ug/L			09/05/25 14:52	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

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

Lab Sample ID: MB 885-33981/4

Matrix: Air

Analysis Batch: 33981

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Isopropylbenzene	ND		0.10	ug/L			09/05/25 14:52	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			09/05/25 14:52	1
Methylene Chloride	ND		0.30	ug/L			09/05/25 14:52	1
n-Butylbenzene	ND		0.30	ug/L			09/05/25 14:52	1
N-Propylbenzene	ND		0.10	ug/L			09/05/25 14:52	1
Naphthalene	ND		0.20	ug/L			09/05/25 14:52	1
sec-Butylbenzene	ND		0.10	ug/L			09/05/25 14:52	1
Styrene	ND		0.10	ug/L			09/05/25 14:52	1
tert-Butylbenzene	ND		0.10	ug/L			09/05/25 14:52	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			09/05/25 14:52	1
Toluene	ND		0.10	ug/L			09/05/25 14:52	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			09/05/25 14:52	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			09/05/25 14:52	1
Trichloroethene (TCE)	ND		0.10	ug/L			09/05/25 14:52	1
Trichlorofluoromethane	ND		0.10	ug/L			09/05/25 14:52	1
Vinyl chloride	ND		0.10	ug/L			09/05/25 14:52	1
Xylenes, Total	ND		0.15	ug/L			09/05/25 14:52	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		09/05/25 14:52	1
Toluene-d8 (Surr)	113		70 - 130		09/05/25 14:52	1
4-Bromofluorobenzene (Surr)	96		70 - 130		09/05/25 14:52	1
Dibromofluoromethane (Surr)	98		70 - 130		09/05/25 14:52	1

Lab Sample ID: LCS 885-33981/3

Matrix: Air

Analysis Batch: 33981

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	1.98		ug/L		99	70 - 130
Benzene	2.00	1.99		ug/L		100	70 - 130
Chlorobenzene	2.00	2.53		ug/L		126	70 - 130
Toluene	2.00	2.51		ug/L		125	70 - 130
Trichloroethene (TCE)	2.00	2.00		ug/L		100	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
Toluene-d8 (Surr)	112		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

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

Lab Sample ID: MB 885-33685/6					Client Sample ID: Method Blank				
Matrix: Air					Prep Type: Total/NA				
Analysis Batch: 33685									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			09/02/25 11:40	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		15 - 150				09/02/25 11:40	1	

Lab Sample ID: LCS 885-33685/4					Client Sample ID: Lab Control Sample						
Matrix: Air					Prep Type: Total/NA						
Analysis Batch: 33685											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			50.0	53.2		ug/L		106	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	209		15 - 150								

QC Association Summary

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

GC/MS VOA

Analysis Batch: 33981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31805-1	SVE-1	Total/NA	Air	8260B	
MB 885-33981/4	Method Blank	Total/NA	Air	8260B	
LCS 885-33981/3	Lab Control Sample	Total/NA	Air	8260B	

GC VOA

Analysis Batch: 33685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31805-1	SVE-1	Total/NA	Air	8015D	
MB 885-33685/6	Method Blank	Total/NA	Air	8015D	
LCS 885-33685/4	Lab Control Sample	Total/NA	Air	8015D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

Client Sample ID: SVE-1
Date Collected: 08/22/25 13:00
Date Received: 08/26/25 07:40

Lab Sample ID: 885-31805-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33981	RA	EET ALB	09/05/25 15:19
Total/NA	Analysis	8015D		5	33685	AT	EET ALB	09/02/25 14:15

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

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Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Hare 15

Job ID: 885-31805-1

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: Hare 15

Job ID: 885-31805-1

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: Hare 15

Job ID: 885-31805-1

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

September 11, 2025

Eurofins TestAmerica - Albuquerque

4901 Hawkins St NE Ste D

Albuquerque, NM 87109-4372

Work Order: B25090213

Quote ID: B15626

Project Name: Hare 15 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 9/3/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25090213-001	SVE-1 (885-31805-1)	08/22/25 13:00	09/03/25	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: Hare 15 88501698
Lab ID: B25090213-001
Client Sample ID: SVE-1 (885-31805-1)

Report Date: 09/11/25
Collection Date: 08/22/25 13:00
Date Received: 09/03/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	21.90	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Nitrogen	77.95	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Carbon Dioxide	0.15	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-13	09/05/25 11:04 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	09/05/25 11:04 / jrj

CALCULATED PROPERTIES

Gross BTU per cu ft @ Std Cond. (HHV)	ND		1		GPA 2261-13	09/05/25 11:04 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND		1		GPA 2261-13	09/05/25 11:04 / jrj
Pseudo-critical Pressure, psia	546		1		GPA 2261-13	09/05/25 11:04 / jrj
Pseudo-critical Temperature, deg R	239		1		GPA 2261-13	09/05/25 11:04 / jrj
Specific Gravity @ 60/60F	0.999		0.001		D3588-17	09/05/25 11:04 / jrj
Air, %	100.07		0.01		GPA 2261-13	09/05/25 11:04 / jrj
- The analysis was not corrected for air.						

COMMENTS

-						09/05/25 11:04 / jrj
- 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 Definitions: RL - Analyte Reporting Limit
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: B25090213

Report Date: 09/11/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13									Batch: R448752	
Lab ID: B25090213-001ADUP	12	Sample Duplicate				Run: GC7890_250905A			09/05/25 11:54	
Oxygen		21.9	Mol %	0.01				0.2	20	
Nitrogen		78.0	Mol %	0.01				0.1	20	
Carbon Dioxide		0.15	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		<0.01	Mol %	0.01					20	
Lab ID: LCS090525	11	Laboratory Control Sample				Run: GC7890_250905A			09/05/25 13:41	
Oxygen		0.59	Mol %	0.01	120	70	130			
Nitrogen		5.69	Mol %	0.01	97	70	130			
Carbon Dioxide		0.99	Mol %	0.01	99	70	130			
Methane		76.8	Mol %	0.01	101	70	130			
Ethane		5.99	Mol %	0.01	99	70	130			
Propane		5.03	Mol %	0.01	101	70	130			
Isobutane		1.80	Mol %	0.01	90	70	130			
n-Butane		1.98	Mol %	0.01	99	70	130			
Isopentane		0.48	Mol %	0.01	96	70	130			
n-Pentane		0.47	Mol %	0.01	94	70	130			
Hexanes plus		0.17	Mol %	0.01	82	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque

B25090213

Login completed by: Danielle N. Harris

Date Received: 9/3/2025

Reviewed by: gmccartney

Received by: SW

Reviewed Date: 9/4/2025

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:	21.8°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:

A due date of 09/03/25 is requested but was received on 09/03/25. Proceed with a due date of 09/12/25 per email with Michelle Garcia on 09/03/25. DNH 09/03/25



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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

Environment Testing

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-31805-1

Login Number: 31805

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.	False	Thermal preservation not required.
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 514696

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514696
	Action Type: [REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvez	1. Continue O&M & sampling as stated in Discussions and Recommendations in report. 2. Submit next quarterly report by January 15, 2026.	10/20/2025