



1. Continue O&M & sampling as stated 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: Third Quarter 2025 – SVE System Update

Sullivan GC D #1E
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: NCS1518952648

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Third Quarter 2025 – SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the Sullivan GC D #1E natural gas production well (Site), located in Unit F of Section 26, Township 29 North, Range 11 West in San Juan County, New Mexico (Figure 1). Specifically, this report summarizes Site activities performed in July, August, and September of 2025 to the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

The original SVE system was installed at the Site in April 2016 by XTO Energy, the previous Site owner, in response to a release originating from a broken fiberglass line used to transfer natural gas condensate. The original SVE system was purchased from Geotech Environmental Equipment, Inc. (Geotech) and operated successfully until the summer of 2018. Due to a broken SVE blower motor, the Site's SVE system did not operate between 2018 and March of 2022; however, a rental SVE system was brought onto the Site and began operation on December 2, 2021. The blower motor from the original Geotech system was replaced on March 21, 2022, and the Geotech SVE system was put back into service.

The current Geotech SVE system is configured with vacuum applied to wells PR-1, MW-01, MW-02, MW-05, and MW-06 (shown on Figure 2). The SVE system consists of a 3 horsepower Rotron Model EN656 regenerative blower capable of producing 212 standard cubic feet per minute (scfm) of flow and 73 inches of water column (IWC) vacuum. The layout of the SVE system and piping is shown on Figure 2.

THIRD QUARTER 2025 ACTIVITIES

During the third quarter of 2025, Ensolum and Hilcorp personnel performed bi-weekly operation and maintenance (O&M) visits to verify the system was operating as designed and to perform any required maintenance. Field notes taken during O&M visits are presented in Appendix A. During the third quarter of 2025, all SVE wells (PR-1, MW-01, MW-02, MW-05, and MW-06) were operated in order to induce air flow through impacted soil within the source area. Between June 24 and September 22, 2025, the SVE system operated for 2,161 hours, with a runtime efficiency of 100 percent (%). Appendix B presents

photographs of the runtime meter for calculating the runtime efficiency. Table 1 presents the SVE system operational hours and percent runtime based on the field notes collected during the quarter.

A third quarter 2025 vapor sample was collected on August 12, 2025, from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Prior to collection, the vapor sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing (Formerly Hall Environmental Analysis Laboratory), located in Albuquerque, New Mexico, for analysis of total volatile petroleum hydrocarbons (TVPH, also referred to as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, volatile organic compounds (VOCs) following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processor Association (GPA) Method 2261. Table 2 presents a summary of analytical data collected during this sampling event and previous sampling events, with the full laboratory analytical report included in Appendix C.

Vapor sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 3). Based on these estimates, 94,340 pounds (47 tons) of TVPH have been removed by the system to date.

RECOMMENDATIONS

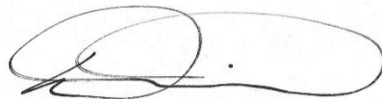
Bi-weekly O&M visits will continue to be performed by Ensolum and/or Hilcorp personnel to verify the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report.

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



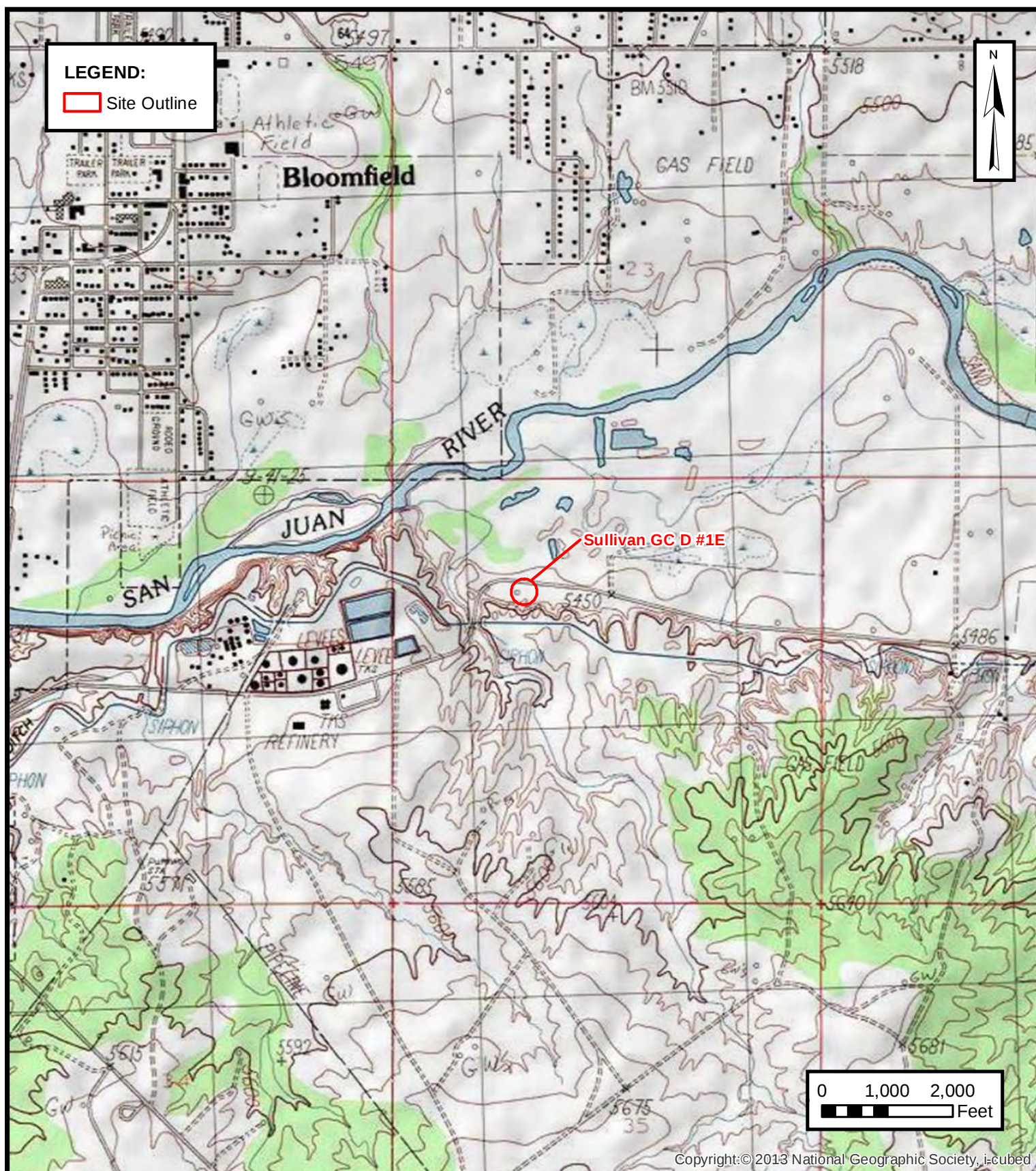
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist
(303) 887-2946
dmoir@ensolum.com

Attachments:

Figure 1	Site Location
Figure 2	SVE System Layout
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Emission Analytical Results
Table 3	Soil Vapor Extraction System Mass Removal and Emissions
Appendix A	Field Notes
Appendix B	Project Photographs
Appendix C	Laboratory Analytical Reports



Figures



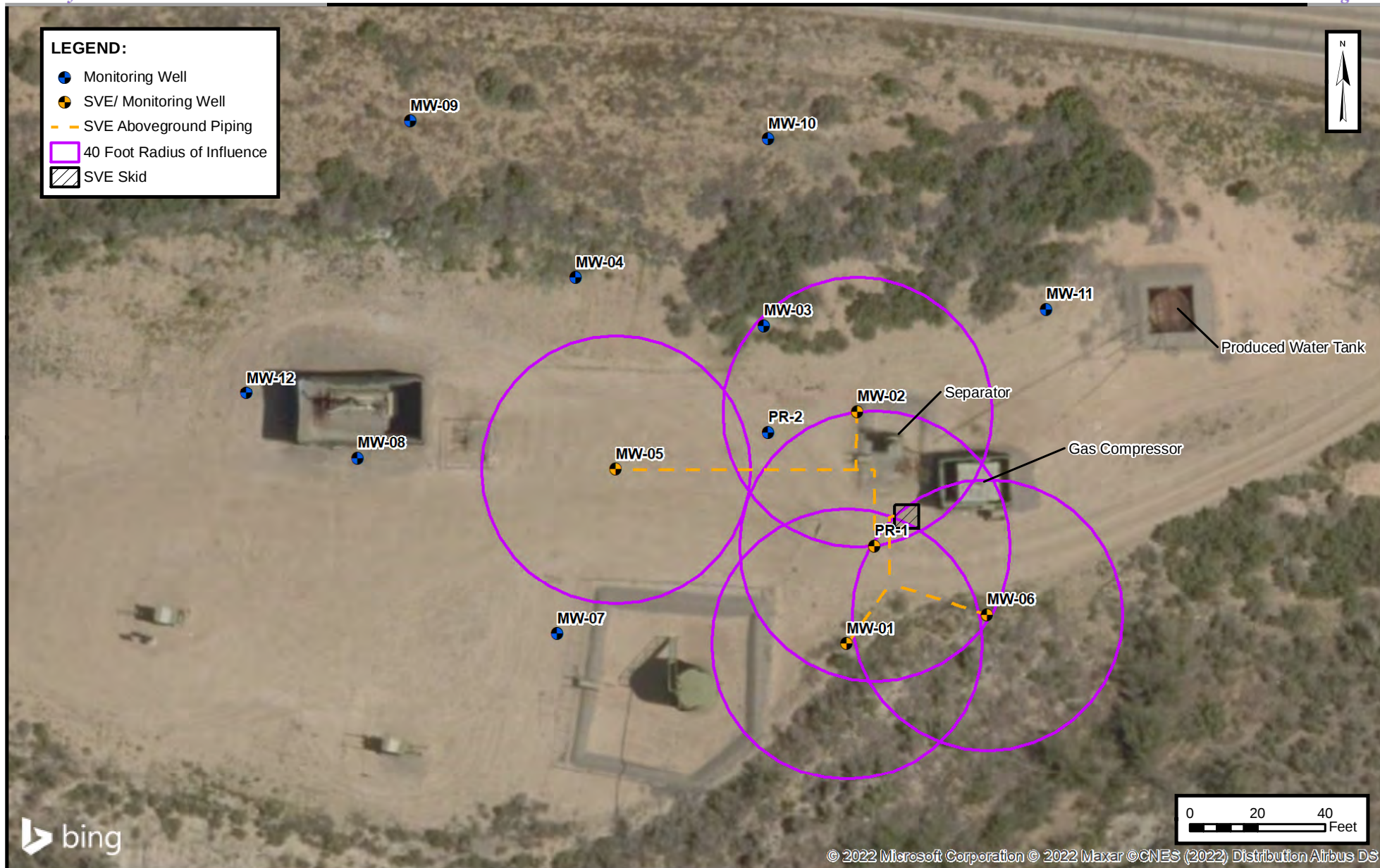
SITE LOCATION

HILLCORP ENERGY COMPANY
SULLIVAN GC D #1E
San Juan County, New Mexico
36.885855° N, 107.899525° W

PROJECT NUMBER: 07A1988029

FIGURE

1



SVE SYSTEM LAYOUT

HILCORP ENERGY COMPANY
SULLIVAN GC D #1E
San Juan County, New Mexico
36.885855° N, 107.899525° W

PROJECT NUMBER:07A1988029

FIGURE

2



Tables



TABLE 1
SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS
Sullivan GC D#1E
Hilcorp Energy Company
San Juan County, New Mexico

Permanent Geotech SVE Skid Runtime Operation

Date	Total Operational Hours	Delta Hours	Days	% Runtime
6/24/2025	3,957	--	--	--
9/22/2025	6,118	2,161	90	100%



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
 Sullivan GC D#1E
 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 (%)
4/18/2016	--	840	1,900	87	840	140,000	--	--
4/20/2016	2,375	840	1,900	87	840	140,000	--	--
4/29/2017	3,520	280	1,000	64	630	65,000	--	--
8/11/2016	4,215	92	700	90	910	23,000	--	--
1/24/2018	2,837	46	140	<5.0	410	21,000	--	--
6/29/2018	3,000	63	210	<5.0	410	27,000	--	--
12/2/2021	741	15	<5.0	<5.0	99	33,000	--	--
3/16/2022	982	<0.10	<0.10	<0.10	1.1	64	19.40	1.23
6/17/2022	327	<0.10	<0.10	<0.10	0.25	10	21.54	0.29
9/22/2022	266	<0.10	<0.10	<0.10	<0.15	<5.0	20.57	1.00
12/10/2022	68	0.75	4.9	0.49	9.0	490	21.02	0.65
3/13/2023	69	0.81	4.4	0.30	5.7	300	21.15	0.51
6/23/2023	139	5.9	12	3.0	6.7	840	21.01	0.55
8/18/2023	76	2.4	2.9	<1.0	1.8	340	20.83	0.68
11/21/2023	186	2.8	18	1.7	18	480	20.94	0.51
3/4/2024	212	4.0	29.0	2.7	31	580	21.41	0.51
6/14/2024	142	4.4	4.1	<1.0	2.1	340	20.44	0.72
9/16/2024	55	5.8	24	1.3	13	510	21.32	0.48
11/18/2024	87	9.6	60	5.0	53	1,100	17.79	0.89
2/8/2025	29	6.1	6.3	<1.0	3.7	460	18.43	1.43
5/19/2025	68	15	53	3.1	34	1,500	20.62	0.94
8/12/2025	64	12	15	<1.0	4.6	1,000	20.86	0.81

Notes:

GRO: gasoline range hydrocarbons

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

--: not sampled

<: gray indicates result less than the stated laboratory reporting limit (RL)



TABLE 3
SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS

Sullivan GC Dr#1E
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)
4/18/2016	--	840	1,900	87	840	140,000
4/20/2016	2,375	840	1,900	87	840	140,000
4/29/2017	3,520	280	1,000	64	630	65,000
8/11/2016	4,215	92	700	90	910	23,000
1/24/2018	2,837	46	140	5.0	410	21,000
6/29/2018	3,000	63	210	5.0	410	27,000
12/2/2021						
12/2/2021	741	15	5.0	5.0	99	33,000
3/16/2022	982	0.10	0.10	0.10	1.1	64
3/21/2022						
6/17/2022	327	0.10	0.10	0.10	0.25	10
9/22/2022	266	0.10	0.10	0.10	0.15	5.0
12/10/2022	68	0.75	4.9	0.49	9.0	490
3/13/2023	69	0.81	4.4	0.30	5.7	300
6/23/2023	139	5.9	12	3.0	6.7	840
8/18/2023	76	2.4	2.9	1.0	1.8	340
11/21/2023	186	2.8	18	1.7	18	480
3/4/2024	212	4.0	29.0	2.7	31	580
6/14/2024	142	4.4	4.1	1.0	2.1	340
9/16/2024	55	5.8	24	1.3	13	510
11/18/2024	87	9.6	60	5.0	53	1,100
2/8/2025	29	6.1	6.3	1.0	3.7	460
5/19/2025	68	15	53	3.1	34	1,500
8/12/2025	64	12	15	1.0	5	1,000
Average	927	102	277	17	197	20,774

Vapor Extraction Summary

Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
4/18/2016	90	0	0	0.28	0.64	0.029	0.28	47
4/20/2016	109	313,920	313,920	0.34	0.77	0.035	0.34	57
4/29/2017	90	1,480,320	1,166,400	0.19	0.49	0.025	0.25	35
8/11/2016	70	6,923,520	5,443,200	0.049	0.22	0.020	0.20	12
1/24/2018	60	--	--	0.015	0.094	0.011	0.15	4.9
6/29/2018	41	53,246,160	46,322,640	0.0084	0.027	0.001	0.063	3.7
12/2/2021								
12/2/2021	49	53,246,160	0	0	0	0	0	0
3/16/2022	49	60,581,754	7,335,594	0.0014	0.00047	0.00047	0.0092	3.0
3/21/2022								
6/17/2022	80	70,724,634	10,142,880	0.000030	0.000030	0.000030	0.0002	0.011
9/22/2022	68	80,221,650	9,497,016	0.000025	0.000025	0.000025	0.000051	0.0019
12/10/2022	80	89,341,170	9,119,520	0.00013	0.00075	0.000088	0.0014	0.074
3/13/2023	75	99,328,020	9,986,850	0.00022	0.0013	0.00011	0.0021	0.11
6/23/2023	76	110,408,820	11,080,800	0.00095	0.0023	0.00047	0.0018	0.16
8/18/2023	80	116,845,620	6,436,800	0.00124	0.0022	0.00060	0.0013	0.18
11/21/2023	75	127,065,120	10,219,500	0.00073	0.0029	0.00038	0.0028	0.12
3/4/2024	110	143,512,320	16,447,200	0.00140	0.0097	0.00091	0.0101	0.22
6/14/2024	110	157,953,120	14,440,800	0.00173	0.0068	0.00076	0.0068	0.19
9/16/2024	105	172,046,220	14,093,100	0.00200	0.0055	0.00045	0.0030	0.17
11/18/2024	105	181,590,720	9,544,500	0.00302	0.0165	0.00124	0.0130	0.32
2/8/2025	110	186,169,800	4,579,080	0.00323	0.0136	0.00123	0.0117	0.32
5/19/2025	115	202,704,270	16,534,470	0.00454	0.0128	0.00088	0.0081	0.42
8/12/2025	110	216,139,230	13,434,960	0.00555	0.0140	0.00084	0.0079	0.51
Average				0.041	0.106	0.006	0.062	7.48

Mass Recovery

Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
4/18/2016	0	0	0.0	0.0	0.0	0.0	0.0	0.0
4/20/2016	48	48	16	37	1.7	16	2,740	1.4
4/29/2017	264	216	41	105	5.5	53	7,452	3.7
8/11/2016	1,560	1,296	63	288	26	261	14,929	7.5
1/24/2018	--	--	--	--	--	--	--	--
6/29/2018	16,848	15,288	128	410	12	961	56,264	28
12/2/2021								
12/2/2021	968	0	0.0	0.0	0.0	0.0	0.0	0.0
3/16/2022	3,463	2,495	3.5	1.2	1.2	23	7,559	3.8
3/21/2022								
3/21/2022	0	0	0.0	0.0	0.0	0.0	0.0	0.0
6/17/2022	2,113	2,113	0.063	0.063	0.063	0.43	23	0.012
9/22/2022	4,441	2,328	0.059	0.059	0.059	0.12	4.4	0.0022
12/10/2022	6,341	1,900	0.24	1.4	0.17	2.6	141	0.070
3/13/2023	8,560	2,219	0.49	2.9	0.25	4.6	246	0.12
6/23/2023	10,990	2,430	2.3	5.7	1.1	4.3	394	0.20
8/18/2023	12,331	1,341	1.7	3.0	0.80	1.7	237	0.12
11/21/2023	14,602	2,271	1.7	6.7	0.86	6.3	261	0.13
3/4/2024	17,094	2,492	3.5	24.1	2.26	25.1	543	0.27
6/14/2024	19,282	2,188	3.8	14.9	1.67	14.9	414	0.21
9/16/2024	21,519	2,237	4.5	12.3	1.01	6.6	373	0.19
11/18/2024	23,034	1,515	4.6	25.0	1.87	19.6	479	0.24
2/8/2025 ⁽¹⁾	23,728	694	2.2	9.5	0.86	8.1	223	0.11
5/19/2025	26,124	2,396	10.9	30.6	2.11	19.4	1,010	0.51
8/12/2025	28,160	2,036	11.3	28.5	1.72	16.2	1,047	0.52
Total Mass Recovery to Date			299	1,007	61	1,445	94,340	47

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

gray: laboratory reporting limit used for calculating emissions

(1) Runtime hours estimated due to hour meter failure identified on 12/2/2024; Replacement meter readings began on 1/20/2025



APPENDIX A

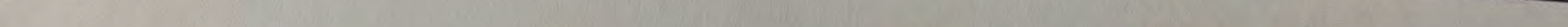
Field Notes

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

HOUSEKEEPING		Check
Inline Filter Clean		
Clean tank level alarm on skimmer		

SAMPLE ID:		SAMPLE TIME:	
Analytes:		TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	
OPERATING WELLS			

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	2.92		43.4	
MW-02	3.15		35.7	
MW-05	3.22		66.3	
MW-06	3.17		59.8	
PR-2	3.40		61.4	

[illegible]

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

HOUSEKEEPING		Check
Inline Filter Clean		
Clean tank level alarm on skimmer		

TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)

VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
2.90		45.8	
3.18		32.2	
3.22		74.5	
3.16		54.3	
3.41		55.4	

Replace Sock? (Y/N) ☐

COMMENTS/OTHER MAINTENANCE:

DATE: 8-12
TIME ONSITE: _____

O&M PERSONNEL: B - 120415
TIME OFFSITE:

SVE ALARMS: (check if applicable)		HIGH/LOW VACUUM
		KO TANK HIGH LEVEL
		HIGH EXHAUST TEMPERATURE

Product Skimmer
 Hours (take photo) _____
 Volume in bbl _____
 Volume removed _____
 Volume removed to date _____

SVS SYSTEM	READING	TIME
Blower Hours (take photo)	5130.8	1105
Pre K/O Vacuum (IWC)	6	
Post K/O Vacuum (IWC)	12	
Total Flow (cfm)	110	
Zone 1/ Leg A Flow (cfm)		
Inlet PID (ppm)	63.9	
Exhaust Post GAC PID (ppm)	31.7	
Liquid in K/O Sight Tube (Y/N)		
K/O Liquid Drained (gallons)		

HOUSEKEEPING		Check
Inline Filter Clean		
Clean tank level alarm on skimmer		

SAMPLE ID: 5VE-1
Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)

SAMPLE TIME: 1190

OPERATING WELLS

ZONES

Change in Well Operation:

Zone 1/ Leg A

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	2.95		48.8	
MW-02	3.14		41.6	
MW-05	3.23		80.2	
MW-06	3.18		49.5	
PR-2	3.48		52.6	

Product Recovery

Well

[illegible]

COMMENTS/OTHER MAINTENANCE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

HOUSEKEEPING		Check
Inline Filter Clean		
Clean tank level alarm on skimmer		

SAMPLE ID:	SAMPLE TIME:
Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	
TING WELLS	

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	2.91		51.8	
MW-02	3.12		38.3	
MW-05	3.22		28.5	
MW-06	3.20		50.6	
PR-2	3.45		45.5	

[illegible]

DATE: 9-4
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE ALARMS: (check if applicable)		HIGH/LOW VACUUM
		KO TANK HIGH LEVEL
		HIGH EXHAUST TEMPERATURE

Product Skimmer _____
 Hours (take photo) _____
 Volume in bbl _____
 Volume removed _____
 Volume removed to date _____

Blower Hours (take photo)
Pre K/O Vacuum (IWC)
Post K/O Vacuum (IWC)
Total Flow (cfm)
Zone 1/ Leg A Flow (cfm)
Inlet PID (ppm)
Exhaust Post GAC PID (ppm)
Liquid in K/O Sight Tube (Y/N)
K/O Liquid Drained (gallons)

READING	TIME
5637.0	13/2
6	
12	
110	
59.7	
34.3	

Inline Filter Clean	
Clean tank level alarm on skimmer	

SAMPLE ID:

Analytes:	TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)
------------------	---

SAMPLE TIME:

OPERATING WELLS

Change in Well Operation:

Zone 1/ Leg A

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	2.93		47.2	
MW-02	3.15		36.5	
MW-05	3.23		31.3	
MW-06	3.24		58.2	
PR-2	3.41		50.9	

[illegible]

COMMENTS/OTHER MAINTENANCE:

DATE: 9-22
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE ALARMS: (check if applicable)		HIGH/LOW VACUUM
		KO TANK HIGH LEVEL
		HIGH EXHAUST TEMPERATURE

Product Skimmer
 Hours (take photo) _____
 Volume in bbl _____
 Volume removed _____
 Volume removed to date _____

TIME

Blower Hours (take photo)
Pre K/O Vacuum (IWC)
Post K/O Vacuum (IWC)
Total Flow (cfm)
Zone 1/ Leg A Flow (cfm)
Inlet PID (ppm)
Exhaust Post GAC PID (ppm)
Liquid in K/O Sight Tube (Y/N)
K/O Liquid Drained (gallons)

$$\begin{array}{r} 6118.2 \\ 6 \\ 12 \\ 110 \\ 61.2 \\ 35.1 \end{array}$$

1422

Inline Filter Clean	
Clean tank level alarm on skimmer	

SAMPLE TIME:

ANALYTES:	TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)
-----------	---

OPERATING WELLS

Change in Well Operation:

Zone 1/ Leg A

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	2.92		50.1	
MW-02	3.11		39.7	
MW-05	3.27		65.8	
MW-06	3.22		71.9	
PR-2	3.38		55.8	

Well

[illegible]

COMMENTS/OTHER MAINTENANCE:



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
Sullivan GC D #1E
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 Runtime meter taken on June 24, 2025 at 1:27 PM Hours = 3,957.1	 DIRECTION 9 deg(T) 36.70015°N 107.96436°W ACCURACY 4 m DATUM WGS84 2025-06-24 13:27:01-06:00
Photograph 2 Runtime meter taken on September 22, 2025 at 2:22 PM Hours = 6,118.2	 DIRECTION 15 deg(T) 36.70018°N 107.96439°W ACCURACY 5 m DATUM WGS84 2025-09-22 14:22:46-06:00



APPENDIX C

Laboratory Analytical Reports



Environment Testing

1

2

3

4

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6

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12

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 8/25/2025 2:23:09 PM

JOB DESCRIPTION

Sullivan GC D 1E

JOB NUMBER

885-31120-1

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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8/25/2025 2:23:09 PM

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

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Laboratory Job ID: 885-31120-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

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: Sullivan GC D 1E

Job ID: 885-31120-1

Job ID: 885-31120-1

Eurofins Albuquerque

Job Narrative 885-31120-1

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 8/15/2025 7:15 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.

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Client Sample Results

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

Client Sample ID: SVE-1

Lab Sample ID: 885-31120-1

Date Collected: 08/12/25 11:00

Matrix: Air

Date Received: 08/15/25 07:15

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		1.0	ug/L			08/20/25 17:25	10
1,1,1-Trichloroethane	ND		1.0	ug/L			08/20/25 17:25	10
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			08/20/25 17:25	10
1,1,2-Trichloroethane	ND		1.0	ug/L			08/20/25 17:25	10
1,1-Dichloroethane	ND		1.0	ug/L			08/20/25 17:25	10
1,1-Dichloroethene	ND		1.0	ug/L			08/20/25 17:25	10
1,1-Dichloropropene	ND		1.0	ug/L			08/20/25 17:25	10
1,2,3-Trichlorobenzene	ND		1.0	ug/L			08/20/25 17:25	10
1,2,3-Trichloropropane	ND		2.0	ug/L			08/20/25 17:25	10
1,2,4-Trichlorobenzene	ND		1.0	ug/L			08/20/25 17:25	10
1,2,4-Trimethylbenzene	ND		1.0	ug/L			08/20/25 17:25	10
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			08/20/25 17:25	10
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			08/20/25 17:25	10
1,2-Dichlorobenzene	ND		1.0	ug/L			08/20/25 17:25	10
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			08/20/25 17:25	10
1,2-Dichloropropane	ND		1.0	ug/L			08/20/25 17:25	10
1,3,5-Trimethylbenzene	ND		1.0	ug/L			08/20/25 17:25	10
1,3-Dichlorobenzene	ND		1.0	ug/L			08/20/25 17:25	10
1,3-Dichloropropane	ND		1.0	ug/L			08/20/25 17:25	10
1,4-Dichlorobenzene	ND		1.0	ug/L			08/20/25 17:25	10
1-Methylnaphthalene	ND		4.0	ug/L			08/20/25 17:25	10
2,2-Dichloropropane	ND		2.0	ug/L			08/20/25 17:25	10
2-Butanone	ND		10	ug/L			08/20/25 17:25	10
2-Chlorotoluene	ND		1.0	ug/L			08/20/25 17:25	10
2-Hexanone	ND		10	ug/L			08/20/25 17:25	10
2-Methylnaphthalene	ND		4.0	ug/L			08/20/25 17:25	10
4-Chlorotoluene	ND		1.0	ug/L			08/20/25 17:25	10
4-Isopropyltoluene	ND		1.0	ug/L			08/20/25 17:25	10
4-Methyl-2-pentanone	ND		10	ug/L			08/20/25 17:25	10
Acetone	ND		10	ug/L			08/20/25 17:25	10
Benzene	12		1.0	ug/L			08/20/25 17:25	10
Bromobenzene	ND		1.0	ug/L			08/20/25 17:25	10
Bromodichloromethane	ND		1.0	ug/L			08/20/25 17:25	10
Dibromochloromethane	ND		1.0	ug/L			08/20/25 17:25	10
Bromoform	ND		1.0	ug/L			08/20/25 17:25	10
Bromomethane	ND		3.0	ug/L			08/20/25 17:25	10
Carbon disulfide	ND		10	ug/L			08/20/25 17:25	10
Carbon tetrachloride	ND		1.0	ug/L			08/20/25 17:25	10
Chlorobenzene	ND		1.0	ug/L			08/20/25 17:25	10
Chloroethane	ND		2.0	ug/L			08/20/25 17:25	10
Chloroform	ND		1.0	ug/L			08/20/25 17:25	10
Chloromethane	ND		3.0	ug/L			08/20/25 17:25	10
cis-1,2-Dichloroethene	ND		1.0	ug/L			08/20/25 17:25	10
cis-1,3-Dichloropropene	ND		1.0	ug/L			08/20/25 17:25	10
Dibromomethane	ND		1.0	ug/L			08/20/25 17:25	10
Dichlorodifluoromethane	ND		1.0	ug/L			08/20/25 17:25	10
Ethylbenzene	ND		1.0	ug/L			08/20/25 17:25	10
Hexachlorobutadiene	ND		1.0	ug/L			08/20/25 17:25	10

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

Client Sample ID: SVE-1

Lab Sample ID: 885-31120-1

Date Collected: 08/12/25 11:00

Matrix: Air

Date Received: 08/15/25 07:15

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		1.0	ug/L			08/20/25 17:25	10
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			08/20/25 17:25	10
Methylene Chloride	ND		3.0	ug/L			08/20/25 17:25	10
n-Butylbenzene	ND		3.0	ug/L			08/20/25 17:25	10
N-Propylbenzene	ND		1.0	ug/L			08/20/25 17:25	10
Naphthalene	ND		2.0	ug/L			08/20/25 17:25	10
sec-Butylbenzene	ND		1.0	ug/L			08/20/25 17:25	10
Styrene	ND		1.0	ug/L			08/20/25 17:25	10
tert-Butylbenzene	ND		1.0	ug/L			08/20/25 17:25	10
Tetrachloroethene (PCE)	ND		1.0	ug/L			08/20/25 17:25	10
Toluene	15		1.0	ug/L			08/20/25 17:25	10
trans-1,2-Dichloroethene	ND		1.0	ug/L			08/20/25 17:25	10
trans-1,3-Dichloropropene	ND		1.0	ug/L			08/20/25 17:25	10
Trichloroethene (TCE)	ND		1.0	ug/L			08/20/25 17:25	10
Trichlorofluoromethane	ND		1.0	ug/L			08/20/25 17:25	10
Vinyl chloride	ND		1.0	ug/L			08/20/25 17:25	10
Xylenes, Total	4.6		1.5	ug/L			08/20/25 17:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		08/20/25 17:25	10
Toluene-d8 (Surr)	95		70 - 130		08/20/25 17:25	10
4-Bromofluorobenzene (Surr)	91		70 - 130		08/20/25 17:25	10
Dibromofluoromethane (Surr)	78		70 - 130		08/20/25 17:25	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1000		25	ug/L			08/21/25 13:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		15 - 150		08/21/25 13:50	5

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QC Sample Results

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

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

Lab Sample ID: MB 885-32817/6

Matrix: Air

Analysis Batch: 32817

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			08/20/25 15:20	1
1,1,1-Trichloroethane	ND		0.10	ug/L			08/20/25 15:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			08/20/25 15:20	1
1,1,2-Trichloroethane	ND		0.10	ug/L			08/20/25 15:20	1
1,1-Dichloroethane	ND		0.10	ug/L			08/20/25 15:20	1
1,1-Dichloroethene	ND		0.10	ug/L			08/20/25 15:20	1
1,1-Dichloropropene	ND		0.10	ug/L			08/20/25 15:20	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2,3-Trichloropropane	ND		0.20	ug/L			08/20/25 15:20	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			08/20/25 15:20	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dichloropropane	ND		0.10	ug/L			08/20/25 15:20	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,3-Dichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,3-Dichloropropane	ND		0.10	ug/L			08/20/25 15:20	1
1,4-Dichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1-Methylnaphthalene	ND		0.40	ug/L			08/20/25 15:20	1
2,2-Dichloropropane	ND		0.20	ug/L			08/20/25 15:20	1
2-Butanone	ND		1.0	ug/L			08/20/25 15:20	1
2-Chlorotoluene	ND		0.10	ug/L			08/20/25 15:20	1
2-Hexanone	ND		1.0	ug/L			08/20/25 15:20	1
2-Methylnaphthalene	ND		0.40	ug/L			08/20/25 15:20	1
4-Chlorotoluene	ND		0.10	ug/L			08/20/25 15:20	1
4-Isopropyltoluene	ND		0.10	ug/L			08/20/25 15:20	1
4-Methyl-2-pentanone	ND		1.0	ug/L			08/20/25 15:20	1
Acetone	ND		1.0	ug/L			08/20/25 15:20	1
Benzene	ND		0.10	ug/L			08/20/25 15:20	1
Bromobenzene	ND		0.10	ug/L			08/20/25 15:20	1
Bromodichloromethane	ND		0.10	ug/L			08/20/25 15:20	1
Dibromochloromethane	ND		0.10	ug/L			08/20/25 15:20	1
Bromoform	ND		0.10	ug/L			08/20/25 15:20	1
Bromomethane	ND		0.30	ug/L			08/20/25 15:20	1
Carbon disulfide	ND		1.0	ug/L			08/20/25 15:20	1
Carbon tetrachloride	ND		0.10	ug/L			08/20/25 15:20	1
Chlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
Chloroethane	ND		0.20	ug/L			08/20/25 15:20	1
Chloroform	ND		0.10	ug/L			08/20/25 15:20	1
Chloromethane	ND		0.30	ug/L			08/20/25 15:20	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			08/20/25 15:20	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			08/20/25 15:20	1
Dibromomethane	ND		0.10	ug/L			08/20/25 15:20	1
Dichlorodifluoromethane	ND		0.10	ug/L			08/20/25 15:20	1
Ethylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Hexachlorobutadiene	ND		0.10	ug/L			08/20/25 15:20	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

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

Lab Sample ID: MB 885-32817/6

Matrix: Air

Analysis Batch: 32817

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			08/20/25 15:20	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			08/20/25 15:20	1
Methylene Chloride	ND		0.30	ug/L			08/20/25 15:20	1
n-Butylbenzene	ND		0.30	ug/L			08/20/25 15:20	1
N-Propylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Naphthalene	ND		0.20	ug/L			08/20/25 15:20	1
sec-Butylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Styrene	ND		0.10	ug/L			08/20/25 15:20	1
tert-Butylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			08/20/25 15:20	1
Toluene	ND		0.10	ug/L			08/20/25 15:20	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			08/20/25 15:20	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			08/20/25 15:20	1
Trichloroethene (TCE)	ND		0.10	ug/L			08/20/25 15:20	1
Trichlorofluoromethane	ND		0.10	ug/L			08/20/25 15:20	1
Vinyl chloride	ND		0.10	ug/L			08/20/25 15:20	1
Xylenes, Total	ND		0.15	ug/L			08/20/25 15:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		08/20/25 15:20	1
Toluene-d8 (Surr)	86		70 - 130		08/20/25 15:20	1
4-Bromofluorobenzene (Surr)	85		70 - 130		08/20/25 15:20	1
Dibromofluoromethane (Surr)	87		70 - 130		08/20/25 15:20	1

Lab Sample ID: LCS 885-32817/5

Matrix: Air

Analysis Batch: 32817

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	20.0	18.7		ug/L		93	70 - 130
Benzene	20.0	21.1		ug/L		106	70 - 130
Chlorobenzene	20.0	21.9		ug/L		109	70 - 130
Toluene	20.0	21.8		ug/L		109	70 - 130
Trichloroethene (TCE)	20.0	19.8		ug/L		99	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	81		70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

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

Lab Sample ID: MB 885-32918/5					Client Sample ID: Method Blank				
Matrix: Air					Prep Type: Total/NA				
Analysis Batch: 32918									
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			08/21/25 11:56	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		15 - 150				08/21/25 11:56	1	

Lab Sample ID: LCS 885-32918/3					Client Sample ID: Lab Control Sample				
Matrix: Air					Prep Type: Total/NA				
Analysis Batch: 32918									
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]			50.0	46.0		ug/L		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	201		15 - 150						

QC Association Summary

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

GC/MS VOA

Analysis Batch: 32817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31120-1	SVE-1	Total/NA	Air	8260B	
MB 885-32817/6	Method Blank	Total/NA	Air	8260B	
LCS 885-32817/5	Lab Control Sample	Total/NA	Air	8260B	

GC VOA

Analysis Batch: 32918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31120-1	SVE-1	Total/NA	Air	8015D	
MB 885-32918/5	Method Blank	Total/NA	Air	8015D	
LCS 885-32918/3	Lab Control Sample	Total/NA	Air	8015D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Sullivan GC D 1E

Job ID: 885-31120-1

Client Sample ID: SVE-1

Date Collected: 08/12/25 11:00

Date Received: 08/15/25 07:15

Lab Sample ID: 885-31120-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	32817	RA	EET ALB	08/20/25 17:25
Total/NA	Analysis	8015D		5	32918	AT	EET ALB	08/21/25 13:50

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: Sullivan GC D 1E

Job ID: 885-31120-1

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: Sullivan GC D 1E

Job ID: 885-31120-1

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: Sullivan GC D 1E

Job ID: 885-31120-1

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

August 22, 2025

Eurofins TestAmerica - Albuquerque

4901 Hawkins St NE Ste D

Albuquerque, NM 87109-4372

Work Order: B25081761

Quote ID: B15626

Project Name: Sullivan GC D 1E 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 8/19/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25081761-001	SVE-1 (885-31120-1)	08/12/25 11:00	08/19/25	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: Sullivan GC D 1E 88501698
Lab ID: B25081761-001
Client Sample ID: SVE-1 (885-31120-1)

Report Date: 08/22/25
Collection Date: 08/12/25 11:00
Date Received: 08/19/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	20.86	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Nitrogen	76.90	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Carbon Dioxide	0.81	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Methane	1.13	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Ethane	0.17	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Propane	0.06	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Isobutane	0.02	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
n-Butane	0.02	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Isopentane	0.01	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Hexanes plus	0.02	Mol %		0.01		GPA 2261-13	08/21/25 13:49 / jrj
Propane	0.017	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj
Isobutane	0.007	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj
n-Butane	0.006	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj
Isopentane	0.004	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj
Hexanes plus	0.008	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj
GPM Total	0.041	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj
GPM Pentanes plus	0.012	gpm		0.001		GPA 2261-13	08/21/25 13:49 / jrj

CALCULATED PROPERTIES

Gross BTU per cu ft @ Std Cond. (HHV)	19		1		GPA 2261-13	08/21/25 13:49 / jrj
Net BTU per cu ft @ std cond. (LHV)	17		1		GPA 2261-13	08/21/25 13:49 / jrj
Pseudo-critical Pressure, psia	549		1		GPA 2261-13	08/21/25 13:49 / jrj
Pseudo-critical Temperature, deg R	243		1		GPA 2261-13	08/21/25 13:49 / jrj
Specific Gravity @ 60/60F	0.998		0.001		D3588-17	08/21/25 13:49 / jrj
Air, %	95.33		0.01		GPA 2261-13	08/21/25 13:49 / jrj

- The analysis was not corrected for air.

COMMENTS

-						08/21/25 13:49 / 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: B25081761

Report Date: 08/22/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13									Batch: R447948	
Lab ID: B25081762-001ADUP	12	Sample Duplicate				Run: GC7890_250821A			08/21/25 15:28	
Oxygen		22.0	Mol %	0.01				2.5	20	
Nitrogen		78.0	Mol %	0.01				0.7	20	
Carbon Dioxide		0.08	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: LCS082125	11	Laboratory Control Sample				Run: GC7890_250821A			08/21/25 17:50	
Oxygen		0.61	Mol %	0.01	124	70	130			
Nitrogen		6.24	Mol %	0.01	106	70	130			
Carbon Dioxide		0.97	Mol %	0.01	97	70	130			
Methane		76.2	Mol %	0.01	100	70	130			
Ethane		6.02	Mol %	0.01	99	70	130			
Propane		5.07	Mol %	0.01	102	70	130			
Isobutane		1.76	Mol %	0.01	88	70	130			
n-Butane		1.88	Mol %	0.01	94	70	130			
Isopentane		0.50	Mol %	0.01	100	70	130			
n-Pentane		0.51	Mol %	0.01	102	70	130			
Hexanes plus		0.21	Mol %	0.01	102	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

B25081761

Login completed by: Crystal M. Jones

Date Received: 8/19/2025

Reviewed by: dharris

Received by: SW

Reviewed Date: 8/20/2025

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:	22.8°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:

The temperature of the sample(s) in shipping container 1 was 22.8°C and shipping container 2 was 21.6°C. CMJ
08/19/25



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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

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

Environment Testing

Ver: 10/10/2024

ICOC No:
885-6172

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

[illegible]

Tel. 505-345-3975 Fax 505-345-4107

[illegible][illegible]

Remarks:	
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If necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-31120-1

Login Number: 31120

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 514693

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514693
	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 January 15, 2026.	10/20/2025