



ENSOLUM

1. Continue O&M schedule as stated in report.
2. Submit next quarterly report by October 15, 2024.

July 11, 2024

New Mexico Oil Conservation Division

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

Re: Second Quarter 2024 – Solar SVE System Update

Bell Federal GC B#1
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: NCS1729355513

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Second Quarter 2024 – Solar SVE System Update* report summarizing the solar soil vapor extraction (SVE) system performance at the Bell Federal GC B#1 natural gas production well (Site), located in Section 11, Township 30 North, Range 13 West in San Juan County, New Mexico (Figure 1). The SVE system has operated since January 16, 2018, to remediate subsurface soil impacts originating from a release of approximately 58 barrels (bbls) of natural gas condensate caused by an act of vandalism. This report summarizes Site activities performed in April, May, and June of 2024 to the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

Currently, a solar SVE system is operating at the Site, which consists of a 1/3-horsepower blower capable of producing 22 cubic feet per minute (cfm) flow at a vacuum of 29 inches of water column (IWC); three solar panels, with a total of 915 watts of maximum power output; and charged by four 12-volt deep cycle batteries that subsequently power the SVE blower. The system operation is controlled by a timer adjusted throughout the year based on available nominal daylight hours (generally nine hours per day during the winter and 14 hours per day during the summer). Four SVE wells (SVE01 through SVE04) are currently present at the Site as depicted on Figure 2.

SECOND QUARTER 2024 ACTIVITIES

During the second quarter of 2024, 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. During Site visits, the system timer and the angle of the solar panels were adjusted to account for seasonal variations and maximize system efficiency. Field notes collected during O&M visits are presented in Appendix A.

During the second quarter of 2024, SVE wells SVE02, SVE03, and SVE04 were operated to induce air flow in the impacted zones at the Site. Between March 26, 2024, and June 30, 2024, approximately 1,238 total hours of nominal daylight were available for the solar SVE system to operate. Available nominal daylight hours are based on estimates by the National Oceanic and Atmospheric Administration's (NOAA's) National Weather Service (NWS) for the Site location. Between these dates,

the actual runtime for the system was 1,058.4 hours, equating to a second quarter 2024 runtime efficiency of 85.5 percent (%). Table 1 presents the SVE system runtime compared to nominal available daylight hours per month. No alarms aside from the routine daily “OFF” alarms, which notify personnel that the system has shut down due to lack of available battery power at the end of each day, were noted during that time period and the system was on upon arrival for each O&M visit. Therefore, the drop in estimated runtime can likely be attributed to cloudy weather leading to a lower number of hours of nominal daylight than what is presented above and not a drop in system performance. Appendix B presents photographs of the runtime meter for calculating the first quarter runtime efficiency.

A second quarter 2024 vapor sample was collected on June 10, 2024, 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 analyzed by Hall Environmental Analysis Laboratory for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) via United States Environmental Protection Agency (EPA) Method 8015D and volatile organic compounds (VOCs) following EPA Method 8260B, as well as fixed gas analysis of oxygen and carbon dioxide following American Society for Testing and Materials (ASTM) Method D-1946. Table 2 presents a summary of analytical data collected during this sampling event and historical sampling events, with the full laboratory analytical report included as 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, 49,388 pounds (25 tons) of TVPH have been removed by the system to date. Approximately 0.75 gallons of phase-separated hydrocarbons were removed from monitoring well MW-3 during the O&M and sampling period described above.

DISCUSSION AND RECOMMENDATIONS

During the second quarter of 2024, it was noted that the total system influent PID reading is consistently lower than the PID readings from both SVE03 and SVE04. Hilcorp personnel checked for leaks and verified the dilution air valve was properly closed, and it was determined that no ambient air was being introduced into the process stream. The current system configuration does not allow for individual well flow readings to be collected. Sample ports will be added to the individual well legs in the third quarter of 2024 in order to collect individual well flow readings using either a thermal anemometer or a pitot tube to determine whether the majority of the total system flow is coming from SVE02, the location with the lowest PID reading. Adjustments will be made to the system in order to maximize mass removal rates once individual well flow rates have been obtained.

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. Hilcorp will continue operating the SVE system until asymptotic conditions are observed. At that time, an evaluation of residual petroleum hydrocarbons will be assessed and further recommendations for remedial actions, if any, will be provided to NMOCD.

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.

Hilcorp Energy Company
Second Quarter 2024 – Solar SVE System Update
Bell Federal GC B#1



Sincerely,

Ensolum, LLC

A handwritten signature in black ink, appearing to read "Stuart Hyde".

Stuart Hyde, LG (licensed in WA & TX)
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(970) 903-1607
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A handwritten signature in black ink, appearing to read "Daniel R. Moir".

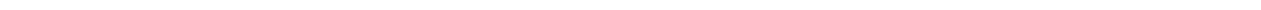
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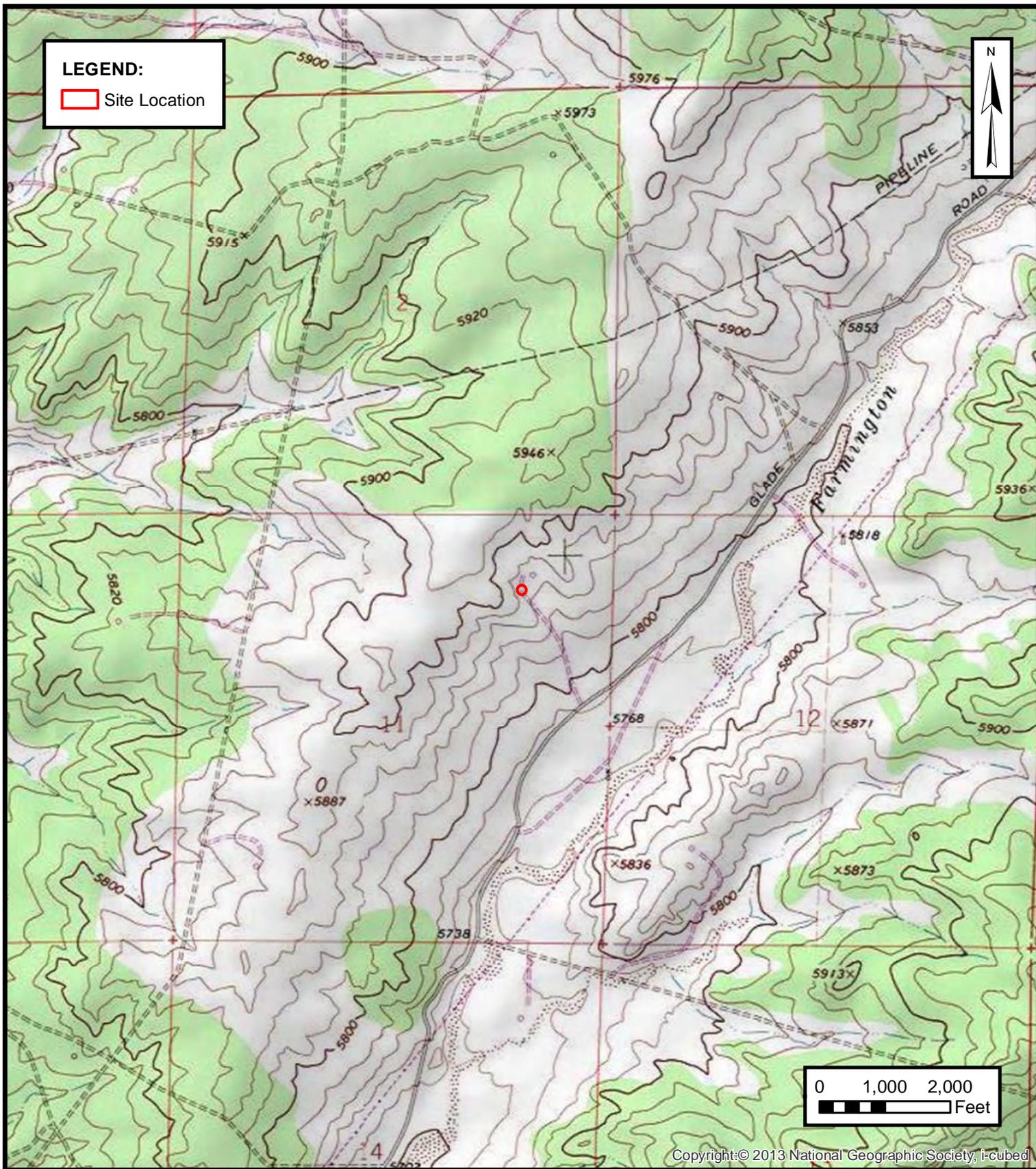
Attachments:

- | | |
|------------|---|
| Figure 1 | Site Location |
| Figure 2 | SVE System Configuration |
| Table 1 | Soil Vapor Extraction System Runtime Calculations |
| Table 2 | Soil Vapor Extraction System Emissions 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





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ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

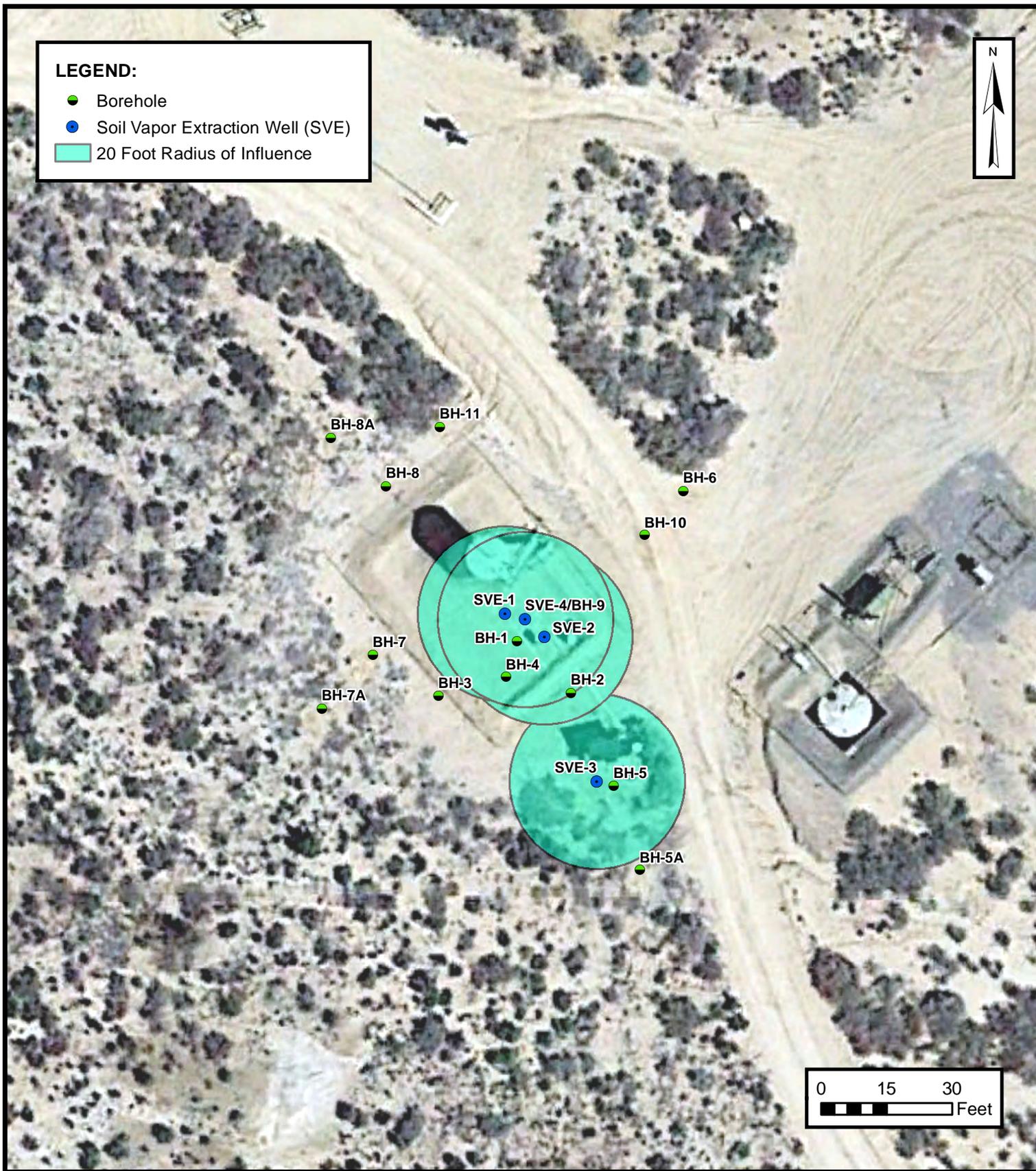
SITE LOCATION

HILCORP ENERGY COMPANY
BELL FEDERAL GC B#1
San Juan County, New Mexico
36.832426° N, 108.167760° W

PROJECT NUMBER: 07A1988001

FIGURE

1



SVE SYSTEM CONFIGURATION

HILCORP ENERGY COMPANY
BELL FEDERAL GC B#1
San Juan County, New Mexico
36.832426° N, 108.167760° W

PROJECT NUMBER: 07A1988001

FIGURE
2



Tables





TABLE 1
SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS
 Bell Federal GC B#1
 Hilcorp Energy Company
 San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours
3/26/2024	23,868.8	---
6/30/2024	24,927.2	1,058.4

Time Period	March 26 to March 31, 2024	April 1 to April 30, 2024	May 1 to May 31, 2024	June 1 to June 30, 2024
Days	5	30	31	30
Avg. Nominal Daylight Hours	11	12	13	14
Available Runtime Hours	55	360	403	420

Quarterly Available Daylight Runtime Hours 1,238
Quarterly Runtime Hours 1,058.4
Quarterly % Runtime 85.5%

Month	Days	Nominal Daylight Hours	Total Month Hours
January	31	10	310
February	28	10	280
March	31	11	341
April	30	12	360
May	31	13	403
June	30	14	420
July	31	14	434
August	31	13	403
September	30	12	360
October	31	11	341
November	30	10	300
December	31	9	279



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS
 Bell Federal GC B#1
 Hilcorp Energy Company
 San Juan County, New Mexico

Date	Inlet PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)
1/24/2018	1,435	280	200	<5.0	38.0	30,000	--	--
8/17/2018	1,873	160	380	21.0	320	18,000	--	--
3/22/2019	1,607	490	920	24.0	480	NA	--	--
6/18/2019	1,026	72.0	270	27.0	290	NA	--	--
9/25/2019	1,762	220	480	21.0	440	35,000	--	--
12/16/2019	1,902	130	840	21.0	220	22,000	--	--
3/10/2020	1,171	120	380	19.0	330	31,000	--	--
6/25/2020	978.0	180	430	25.0	480	45,000	--	--
9/16/2020	1,766	186	433	18.0	497	32,100	18.2%	3.29%
12/8/2020	1,741	114	292	10.6	324	16,000	17.3%	4.45%
3/23/2021	1,252	45	86.3	2.3	95.4	7,930	20.2%	<0.500%
6/10/2021	165.8	8.5	20	<0.50	20.0	5,700	17.3%	2.21%
9/8/2021	NM	130	240	5.9	150	33,000	--	--
12/15/2021	1,374	95	160	11.0	220	24,098	16.32%	3.32%
3/16/2022	1,096	53	120	<0.50	82	26,000	16.80%	3.01%
6/16/2022	708	24	69	<5.0	38	13,000	21.01%	0.82%
9/8/2022	545	50.2	129	4.99	612	10,500	17.70%	2.80%
12/7/2022	675	52	74	<5.00	35	13,000	16.98%	3.68%
3/9/2023	1,285	54	120	<2.5	54	15,000	16.88%	4.03%
6/23/2023	1,109	27	55	<2.5	38	13,000	17.03%	3.63%
8/24/2023	1,290	25	60	<5.0	38	9,600	16.74%	3.62%
11/20/2023	739.8	35	83	<2.5	40	9,500	18.18%	2.89%
3/7/2024	486.8	18	44	<5.0	21	4,800	17.63%	2.28%
6/10/2024	412.4	22	53	<2.5	37	5,900	19.22%	2.20%

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
 Bell Federal GC B#1
 Hilcorp Energy Company
 San Juan County, New Mexico

Laboratory Analysis						
Date	Inlet PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
1/24/2018	1,435	280	200	5.0	38	30,000
8/17/2018	1,873	160	380	21	320	18,000
3/22/2019	1,607	490	920	24	480	--
6/18/2019	1,026	72	270	27	290	--
9/25/2019	1,762	220	480	21	440	35,000
12/16/2019	1,902	130	840	21	220	22,000
3/10/2020	1,171	120	380	19	330	31,000
6/25/2020	978	180	430	25	480	45,000
9/16/2020	1,766	186	433	18	497	32,100
12/8/2020	1,741	114	292	11	324	16,000
3/23/2021	1,252	45	86	2	95	7,930
6/10/2021	166	9	20	0.50	20	5,700
9/8/2021	--	130	240	6	150	33,000
12/15/2021	1,374	95	160	11	220	24,098
3/16/2022	1,096	53	120	0.50	82	26,000
6/16/2022	708	24	69	5.0	38	13,000
9/8/2022	545	50	129	4.99	612	10,500
12/7/2022	675	52	74	5.0	35	13,000
3/9/2023	1,285	54	120	2.5	54	15,000
6/23/2023	1,109	27	55	2.5	38	13,000
8/24/2023	1,290	25	60	5.0	38	9,600
11/20/2023	740	35	83	2.5	40	9,500
3/7/2024	487	18	44	5.0	21	4,800
6/10/2024	412	22	53	2.5	37	5,900
Average	1,148	108	247	10	204	19,097

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)
1/24/2018	40	164,400	164,400	0.042	0.030	0.001	0.0057	4.5
8/17/2018	33	5,240,130	5,075,730	0.027	0.036	0.0016	0.022	3.0
3/22/2019	32	9,176,130	3,936,000	0.039	0.078	0.0027	0.048	--
6/18/2019	32	11,096,130	1,920,000	0.034	0.071	0.0031	0.046	--
9/25/2019	33	13,610,730	2,514,600	0.018	0.046	0.0030	0.045	3.3
12/16/2019	32	15,513,450	1,902,720	0.021	0.079	0.0025	0.039	3.4
3/10/2020	29	17,246,490	1,733,040	0.014	0.066	0.0022	0.030	2.9
6/25/2020	29	19,123,950	1,877,460	0.016	0.044	0.0024	0.044	4.1
9/16/2020	31	20,825,850	1,701,900	0.021	0.050	0.0025	0.057	4.5
12/8/2020	30	22,049,850	1,224,000	0.017	0.041	0.0016	0.046	2.7
3/23/2021	30	23,122,650	1,072,800	0.0089	0.021	0.00073	0.024	1.3
6/10/2021	33	23,514,690	392,040	0.0033	0.0066	0.00017	0.0071	0.84
9/8/2021	33	23,831,490	316,800	0.0085	0.0160	0.00039	0.010	2.4
12/15/2021	33	26,136,210	2,304,720	0.014	0.025	0.0010	0.023	3.5
3/16/2022	33	27,701,202	1,564,992	0.0091	0.017	0.00071	0.019	3.1
6/16/2022	25	29,520,102	1,818,900	0.0036	0.009	0.00026	0.0056	1.8
9/8/2022	31	31,835,244	2,315,142	0.0043	0.011	0.00058	0.038	1.4
12/7/2022	29	34,162,320	2,327,076	0.0055	0.011	0.00054	0.035	1.3
3/9/2023	29	36,239,184	2,076,864	0.0057	0.011	0.00041	0.0048	1.5
6/23/2023	29	38,718,336	2,479,152	0.0044	0.0095	0.00027	0.0050	1.5
8/24/2023	29	40,107,552	1,389,216	0.0028	0.0062	0.0004	0.0041	1.2
11/20/2023	28	41,872,560	1,765,098	0.0031	0.0075	0.0004	0.0041	1.0
3/7/2024	27	43,380,942	1,508,382	0.0027	0.0064	0.0004	0.0031	0.72
6/10/2024	27	44,988,306	1,607,364	0.0020	0.0049	0.0004	0.0029	0.54
Average				0.014	0.029	0.001	0.024	2.3

Mass Recovery								
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
1/24/2018	69	69	2.9	2.0	0.051	0.39	307	0.15
8/17/2018	2,632	2,564	70	92	4.1	57	7,593	3.8
3/22/2019	4,682	2,050	80	159	5.5	98	--	--
6/18/2019	5,682	1,000	33.6	71	3.1	46	--	--
9/25/2019	6,952	1,270	23	59	3.8	57	4,154	2.1
12/16/2019	7,943	991	21	78	2.5	39	3,380	1.7
3/10/2020	8,939	996	14	66	2.2	30	2,863	1.4
6/25/2020	10,018	1,079	18	47	2.6	47	4,447	2.2
9/16/2020	10,933	915	19	46	2.3	52	4,090	2.0
12/8/2020	11,613	680	11.4	28	1.1	31	1,835	0.92
3/23/2021	12,209	596	5.3	12.6	0.43	14.0	800	0.40
6/10/2021	12,407	198	0.66	1.30	0.035	1.41	167	0.083
9/8/2021	12,567	160	1.4	2.6	0.06	1.7	382	0.19
12/15/2021	13,731	1,164	16	29	1.2	27	4,101	2.1
3/16/2022	14,521	790	7.2	14	0.561	14.7	2,444	1.2
6/16/2022	15,734	1,213	4.4	11	0.31	6.8	2,211	1.1
9/8/2022	16,979	1,245	5.4	14	0.72	46.9	1,696	0.8
12/7/2022	18,316	1,337	7.4	15	0.72	46.9	1,704	0.9
3/9/2023	19,510	1,194	6.9	13	0.49	5.8	1,812	0.9
6/23/2023	20,935	1,425	6.3	14	0.39	7.1	2,164	1.1
8/24/2023	21,733	798	2.3	5.0	0.32	3.3	979	0.49
11/20/2023	22,784	1,051	3.3	7.9	0.41	4.3	1,051	0.53
3/7/2024	23,715	931	2.5	6.0	0.35	2.9	672	0.34
6/10/2024	24,707	992	2.0	4.9	0.38	2.9	536	0.27
Total Mass Recovery to Date			362	797	33	643	49,388	25

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



APPENDIX A
Field Notes

BELL FEDERAL GC B1 SVE SYSTEM
BIWEEKLY O&M FORM

DATE: 4-11
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM			TIMER SETTINGS	
	READING	TIME	Month	Timer Setting
Blower Hours (take photo)	24036.5	1315	January	8 AM to 7 PM
Pre K/O Vacuum (IWC)	14		February	8 AM to 7 PM
Thermal Anemometer Velocity (fpm)	1073		March	8 AM to 8 PM
Thermal Anemometer Temp (C)	28.5		April	8 AM to 9 PM
Inlet PID	565.9		May	7 AM to 9 PM
Exhaust PID	749.1		June	6 AM to 9 PM
Solar Panel Angle			July	6 AM to 9 PM
K/O Tank Drum Level			August	7 AM to 9 PM
K/O Liquid Drained (gallons)			September	8 AM to 9 PM
Timer Setting			October	8 AM to 8 PM
Heat Trace (on/off)			November	9 AM to 8 PM
			December	8 AM to 6 PM

SVE SYSTEM - QUARTERLY SAMPLING

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

OPERATING WELLS

Change in Well Operation: _____

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01				
SVE02				
SVE03	14.37		852.5	
SVE04	14.97		1670	

PRODUCT RECOVERY

LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	RECOVERED VOLUME	COMMENTS
SVE-1				
SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE: _____

Empty box for additional comments or maintenance notes.

BELL FEDERAL GC B1 SVE SYSTEM BIWEEKLY O&M FORM

DATE: 4-18
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM			TIMER SETTINGS	
	READING	TIME	Month	Timer Setting
Blower Hours (take photo)	24112.1	1127	January	8 AM to 7 PM
Pre K/O Vacuum (IWC)	13		February	8 AM to 7 PM
Thermal Anemometer Velocity (fpm)	985		March	8 AM to 8 PM
Thermal Anemometer Temp (C)	29.5		April	8 AM to 9 PM
Inlet PID	722.6		May	7 AM to 9 PM
Exhaust PID	901.3		June	6 AM to 9 PM
Solar Panel Angle			July	6 AM to 9 PM
K/O Tank Drum Level			August	7 AM to 9 PM
K/O Liquid Drained (gallons)			September	8 AM to 9 PM
Timer Setting			October	8 AM to 8 PM
Heat Trace (on/off)			November	9 AM to 8 PM
			December	8 AM to 6 PM

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID: _____ SAMPLE TIME: _____

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

OPERATING WELLS

Change in Well Operation: _____

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01				
SVE02	14.05		415.5	
SVE03	14.4		986.1	
SVE04	1496		1259	

PRODUCT RECOVERY

LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	RECOVERED VOLUME	COMMENTS
SVE-1				
SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE:

Bailed 1/2 g of product from MW-3



BELL FEDERAL GC BI SVE SYSTEM
BIWEEKLY O&M FORM

DATE: 5-16
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM			TIMER SETTINGS	
	READING	TIME	Month	Timer Setting
Blower Hours (take photo)	24414.6	1211	January	8 AM to 7 PM
Pre K/O Vacuum (IWC)	13		February	8 AM to 7 PM
Thermal Anemometer Velocity (fpm)	1441		March	8 AM to 8 PM
Thermal Anemometer Temp (C)	27.05		April	8 AM to 9 PM
Inlet PID	670.1		May	7 AM to 9 PM
Exhaust PID	549.4		June	6 AM to 9 PM
Solar Panel Angle			July	6 AM to 9 PM
K/O Tank Drum Level			August	7 AM to 9 PM
K/O Liquid Drained (gallons)			September	8 AM to 9 PM
Timer Setting			October	8 AM to 8 PM
Heat Trace (on/off)			November	9 AM to 8 PM
			December	8 AM to 6 PM

SVE SYSTEM - QUARTERLY SAMPLING

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

OPERATING WELLS

Change in Well Operation: _____

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01				
SVE02	13.94		174.1	
SVE03	13.98		760.4	
SVE04	14.88		1684	

PRODUCT RECOVERY

LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	RECOVERED VOLUME	COMMENTS
SVE-1				
SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE:

Empty rectangular box for comments or other maintenance notes.

**BELL FEDERAL GC B1 SVE SYSTEM
BIWEEKLY O&M FORM**

DATE: 5-28
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: KO TANK HIGH LEVEL

SVE SYSTEM			TIMER SETTINGS	
			Month	Timer Setting
Blower Hours (take photo)	READING	TIME	January	8 AM to 7 PM
Pre K/O Vacuum (IWC)	24.551.5	1139	February	8 AM to 7 PM
Thermal Anemometer Velocity (fpm)	10.53		March	8 AM to 8 PM
Thermal Anemometer Temp (C)	40.35		April	8 AM to 9 PM
Inlet PID	1092		May	7 AM to 9 PM
Exhaust PID	1482		June	6 AM to 9 PM
Solar Panel Angle			July	6 AM to 9 PM
K/O Tank Drum Level			August	7 AM to 9 PM
K/O Liquid Drained (gallons)			September	8 AM to 9 PM
Timer Setting			October	8 AM to 8 PM
Heat Trace (on/off)			November	9 AM to 8 PM
			December	8 AM to 6 PM

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID: _____ SAMPLE TIME: _____

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

OPERATING WELLS

Change in Well Operation: _____

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01				
SVE02	13.67		668.4	
SVE03	14.03		1378	
SVE04	14.58		1794	

PRODUCT RECOVERY

LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	RECOVERED VOLUME	COMMENTS
SVE-1				
SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE:

Bailed 1/4, free product from MW-3

BELL FEDERAL GC B1 SVE SYSTEM BIWEEKLY O&M FORM

DATE: 6-10
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM			TIMER SETTINGS	
	READING	TIME	Month	Timer Setting
Blower Hours (take photo)	24706.8	1324	January	8 AM to 7 PM
Pre K/O Vacuum (IWC)	13		February	8 AM to 7 PM
Thermal Anemometer Velocity (fpm)	1271		March	8 AM to 8 PM
Thermal Anemometer Temp (C)	36.55		April	8 AM to 9 PM
Inlet PID	412.4		May	7 AM to 9 PM
Exhaust PID	508.1		June	6 AM to 9 PM
Solar Panel Angle			July	6 AM to 9 PM
K/O Tank Drum Level			August	7 AM to 9 PM
K/O Liquid Drained (gallons)			September	8 AM to 9 PM
Timer Setting			October	8 AM to 8 PM
Heat Trace (on/off)			November	9 AM to 8 PM
			December	8 AM to 6 PM

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID: SVE-1 SAMPLE TIME: 1420
 Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)
 OPERATING WELLS: _____

Change in Well Operation: _____

LOCATION	VACUUM (IWC)	VELOCITY (fpm)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01	13.58		629.1	
SVE02	13.92	739.2	739.2	
SVE03	14.38		166.3	
SVE04				

PRODUCT RECOVERY LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	RECOVERED VOLUME	COMMENTS
SVE-1				
SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE: _____

BELL FEDERAL GC B1 SVE SYSTEM BIWEEKLY O&M FORM

DATE: 6-30
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL

SVE SYSTEM			TIMER SETTINGS	
			Month	Timer Setting
Blower Hours (take photo)	24927.2	1329	January	8 AM to 7 PM
Pre K/O Vacuum (IWC)	15		February	8 AM to 7 PM
Thermal Anemometer Flow (fpm)	1181		March	8 AM to 8 PM
Thermal Anemometer Temp (C)	39.65		April	8 AM to 9 PM
Inlet PID	638.4		May	7 AM to 9 PM
Exhaust PID	879.6		June	6 AM to 9 PM
Solar Panel Angle			July	6 AM to 9 PM
K/O Tank Drum Level			August	7 AM to 9 PM
K/O Liquid Drained (gallons)			September	8 AM to 9 PM
Timer Setting			October	8 AM to 8 PM
Heat Trace (on/off)			November	9 AM to 8 PM
			December	8 AM to 6 PM

SVE SYSTEM - QUARTERLY SAMPLING

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

Change in Well Operation: _____

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE01			
SVE02	13.65	631.9	
SVE03	14.02	1062	
SVE04	14.47	1684	

PRODUCT RECOVERY

LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	RECOVERED VOLUM	COMMENTS
SVE-1				
SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE:



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS
Bell Federal GC B#1
San Juan County, New Mexico
Hilcorp Energy Company

<p>Photograph 1</p> <p>Runtime meter taken on March 26, 2024 at 12:34 PM Hours = 23,868.8</p>		
<p>Photograph 2</p> <p>Runtime meter taken on June 30, 2024 at 1:29 PM Hours = 24,927.2</p>		



APPENDIX C

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/21/2024 1:58:24 PM

JOB DESCRIPTION

Bell Fed GC B1

JOB NUMBER

885-5955-1

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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Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: Bell Fed GC B1

Laboratory Job ID: 885-5955-1

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Definitions/Glossary

Client: Hilcorp Energy
 Project/Site: Bell Fed GC B1

Job ID: 885-5955-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Bell Fed GC B1

Job ID: 885-5955-1

Job ID: 885-5955-1

Eurofins Albuquerque

Job Narrative 885-5955-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 6/11/2024 6:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.4°C.

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.

Gasoline Range Organics

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

GC/MS VOA

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: Bell Fed GC B1

Job ID: 885-5955-1

Client Sample ID: SVE-1

Lab Sample ID: 885-5955-1

Date Collected: 06/10/24 14:20

Matrix: Air

Date Received: 06/11/24 06:35

Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	5900		130	ug/L			06/13/24 17:34	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		52 - 172				06/13/24 17:34	25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.5	ug/L			06/13/24 17:34	25
1,1,1-Trichloroethane	ND		2.5	ug/L			06/13/24 17:34	25
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L			06/13/24 17:34	25
1,1,2-Trichloroethane	ND		2.5	ug/L			06/13/24 17:34	25
1,1-Dichloroethane	ND		2.5	ug/L			06/13/24 17:34	25
1,1-Dichloroethene	ND		2.5	ug/L			06/13/24 17:34	25
1,1-Dichloropropene	ND		2.5	ug/L			06/13/24 17:34	25
1,2,3-Trichlorobenzene	ND		2.5	ug/L			06/13/24 17:34	25
1,2,3-Trichloropropane	ND		5.0	ug/L			06/13/24 17:34	25
1,2,4-Trichlorobenzene	ND		2.5	ug/L			06/13/24 17:34	25
1,2,4-Trimethylbenzene	ND		2.5	ug/L			06/13/24 17:34	25
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			06/13/24 17:34	25
1,2-Dibromoethane (EDB)	ND		2.5	ug/L			06/13/24 17:34	25
1,2-Dichlorobenzene	ND		2.5	ug/L			06/13/24 17:34	25
1,2-Dichloroethane (EDC)	ND		2.5	ug/L			06/13/24 17:34	25
1,2-Dichloropropane	ND		2.5	ug/L			06/13/24 17:34	25
1,3,5-Trimethylbenzene	2.9		2.5	ug/L			06/13/24 17:34	25
1,3-Dichlorobenzene	ND		2.5	ug/L			06/13/24 17:34	25
1,3-Dichloropropane	ND		2.5	ug/L			06/13/24 17:34	25
1,4-Dichlorobenzene	ND		2.5	ug/L			06/13/24 17:34	25
1-Methylnaphthalene	ND		10	ug/L			06/13/24 17:34	25
2,2-Dichloropropane	ND		5.0	ug/L			06/13/24 17:34	25
2-Butanone	ND		25	ug/L			06/13/24 17:34	25
2-Chlorotoluene	ND		2.5	ug/L			06/13/24 17:34	25
2-Hexanone	ND		25	ug/L			06/13/24 17:34	25
2-Methylnaphthalene	ND		10	ug/L			06/13/24 17:34	25
4-Chlorotoluene	ND		2.5	ug/L			06/13/24 17:34	25
4-Isopropyltoluene	ND		2.5	ug/L			06/13/24 17:34	25
4-Methyl-2-pentanone	ND		25	ug/L			06/13/24 17:34	25
Acetone	ND		25	ug/L			06/13/24 17:34	25
Benzene	22		2.5	ug/L			06/13/24 17:34	25
Bromobenzene	ND		2.5	ug/L			06/13/24 17:34	25
Bromodichloromethane	ND		2.5	ug/L			06/13/24 17:34	25
Dibromochloromethane	ND		2.5	ug/L			06/13/24 17:34	25
Bromoform	ND		2.5	ug/L			06/13/24 17:34	25
Bromomethane	ND		7.5	ug/L			06/13/24 17:34	25
Carbon disulfide	ND		25	ug/L			06/13/24 17:34	25
Carbon tetrachloride	ND		2.5	ug/L			06/13/24 17:34	25
Chlorobenzene	ND		2.5	ug/L			06/13/24 17:34	25
Chloroethane	ND		5.0	ug/L			06/13/24 17:34	25
Chloroform	ND		2.5	ug/L			06/13/24 17:34	25

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
 Project/Site: Bell Fed GC B1

Job ID: 885-5955-1

Client Sample ID: SVE-1

Lab Sample ID: 885-5955-1

Date Collected: 06/10/24 14:20

Matrix: Air

Date Received: 06/11/24 06:35

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		7.5	ug/L			06/13/24 17:34	25
cis-1,2-Dichloroethene	ND		2.5	ug/L			06/13/24 17:34	25
cis-1,3-Dichloropropene	ND		2.5	ug/L			06/13/24 17:34	25
Dibromomethane	ND		2.5	ug/L			06/13/24 17:34	25
Dichlorodifluoromethane	ND		2.5	ug/L			06/13/24 17:34	25
Ethylbenzene	ND		2.5	ug/L			06/13/24 17:34	25
Hexachlorobutadiene	ND		2.5	ug/L			06/13/24 17:34	25
Isopropylbenzene	ND		2.5	ug/L			06/13/24 17:34	25
Methyl-tert-butyl Ether (MTBE)	ND		2.5	ug/L			06/13/24 17:34	25
Methylene Chloride	ND		7.5	ug/L			06/13/24 17:34	25
n-Butylbenzene	ND		7.5	ug/L			06/13/24 17:34	25
N-Propylbenzene	ND		2.5	ug/L			06/13/24 17:34	25
Naphthalene	ND		5.0	ug/L			06/13/24 17:34	25
sec-Butylbenzene	ND		2.5	ug/L			06/13/24 17:34	25
Styrene	ND		2.5	ug/L			06/13/24 17:34	25
tert-Butylbenzene	ND		2.5	ug/L			06/13/24 17:34	25
Tetrachloroethene (PCE)	ND		2.5	ug/L			06/13/24 17:34	25
Toluene	53		2.5	ug/L			06/13/24 17:34	25
trans-1,2-Dichloroethene	ND		2.5	ug/L			06/13/24 17:34	25
trans-1,3-Dichloropropene	ND		2.5	ug/L			06/13/24 17:34	25
Trichloroethene (TCE)	ND		2.5	ug/L			06/13/24 17:34	25
Trichlorofluoromethane	ND		2.5	ug/L			06/13/24 17:34	25
Vinyl chloride	ND		2.5	ug/L			06/13/24 17:34	25
Xylenes, Total	37		3.8	ug/L			06/13/24 17:34	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 130		06/13/24 17:34	25
Toluene-d8 (Surr)	104		70 - 130		06/13/24 17:34	25
4-Bromofluorobenzene (Surr)	118		70 - 130		06/13/24 17:34	25
Dibromofluoromethane (Surr)	83		70 - 130		06/13/24 17:34	25

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Bell Fed GC B1

Job ID: 885-5955-1

Method: 8015M/D - Nonhalogenated Organics using GC/MS -Modified (Gasoline Range Organics)

Lab Sample ID: MB 885-6752/3
 Matrix: Air
 Analysis Batch: 6752

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			06/13/24 13:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		52 - 172				06/13/24 13:26	1

Lab Sample ID: LCS 885-6752/2
 Matrix: Air
 Analysis Batch: 6752

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	500	519		ug/L		104	
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	108		52 - 172				

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

Lab Sample ID: MB 885-6750/3
 Matrix: Air
 Analysis Batch: 6750

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			06/13/24 13:26	1
1,1,1-Trichloroethane	ND		0.10	ug/L			06/13/24 13:26	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			06/13/24 13:26	1
1,1,2-Trichloroethane	ND		0.10	ug/L			06/13/24 13:26	1
1,1-Dichloroethane	ND		0.10	ug/L			06/13/24 13:26	1
1,1-Dichloroethene	ND		0.10	ug/L			06/13/24 13:26	1
1,1-Dichloropropene	ND		0.10	ug/L			06/13/24 13:26	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			06/13/24 13:26	1
1,2,3-Trichloropropane	ND		0.20	ug/L			06/13/24 13:26	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			06/13/24 13:26	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			06/13/24 13:26	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			06/13/24 13:26	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			06/13/24 13:26	1
1,2-Dichlorobenzene	ND		0.10	ug/L			06/13/24 13:26	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			06/13/24 13:26	1
1,2-Dichloropropane	ND		0.10	ug/L			06/13/24 13:26	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			06/13/24 13:26	1
1,3-Dichlorobenzene	ND		0.10	ug/L			06/13/24 13:26	1
1,3-Dichloropropane	ND		0.10	ug/L			06/13/24 13:26	1
1,4-Dichlorobenzene	ND		0.10	ug/L			06/13/24 13:26	1
1-Methylnaphthalene	ND		0.40	ug/L			06/13/24 13:26	1
2,2-Dichloropropane	ND		0.20	ug/L			06/13/24 13:26	1
2-Butanone	ND		1.0	ug/L			06/13/24 13:26	1
2-Chlorotoluene	ND		0.10	ug/L			06/13/24 13:26	1
2-Hexanone	ND		1.0	ug/L			06/13/24 13:26	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Bell Fed GC B1

Job ID: 885-5955-1

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

Lab Sample ID: MB 885-6750/3

Matrix: Air

Analysis Batch: 6750

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2-Methylnaphthalene	ND		0.40	ug/L			06/13/24 13:26	1
4-Chlorotoluene	ND		0.10	ug/L			06/13/24 13:26	1
4-Isopropyltoluene	ND		0.10	ug/L			06/13/24 13:26	1
4-Methyl-2-pentanone	ND		1.0	ug/L			06/13/24 13:26	1
Acetone	ND		1.0	ug/L			06/13/24 13:26	1
Benzene	ND		0.10	ug/L			06/13/24 13:26	1
Bromobenzene	ND		0.10	ug/L			06/13/24 13:26	1
Bromodichloromethane	ND		0.10	ug/L			06/13/24 13:26	1
Dibromochloromethane	ND		0.10	ug/L			06/13/24 13:26	1
Bromoform	ND		0.10	ug/L			06/13/24 13:26	1
Bromomethane	ND		0.30	ug/L			06/13/24 13:26	1
Carbon disulfide	ND		1.0	ug/L			06/13/24 13:26	1
Carbon tetrachloride	ND		0.10	ug/L			06/13/24 13:26	1
Chlorobenzene	ND		0.10	ug/L			06/13/24 13:26	1
Chloroethane	ND		0.20	ug/L			06/13/24 13:26	1
Chloroform	ND		0.10	ug/L			06/13/24 13:26	1
Chloromethane	ND		0.30	ug/L			06/13/24 13:26	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			06/13/24 13:26	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			06/13/24 13:26	1
Dibromomethane	ND		0.10	ug/L			06/13/24 13:26	1
Dichlorodifluoromethane	ND		0.10	ug/L			06/13/24 13:26	1
Ethylbenzene	ND		0.10	ug/L			06/13/24 13:26	1
Hexachlorobutadiene	ND		0.10	ug/L			06/13/24 13:26	1
Isopropylbenzene	ND		0.10	ug/L			06/13/24 13:26	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			06/13/24 13:26	1
Methylene Chloride	ND		0.30	ug/L			06/13/24 13:26	1
n-Butylbenzene	ND		0.30	ug/L			06/13/24 13:26	1
N-Propylbenzene	ND		0.10	ug/L			06/13/24 13:26	1
Naphthalene	ND		0.20	ug/L			06/13/24 13:26	1
sec-Butylbenzene	ND		0.10	ug/L			06/13/24 13:26	1
Styrene	ND		0.10	ug/L			06/13/24 13:26	1
tert-Butylbenzene	ND		0.10	ug/L			06/13/24 13:26	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			06/13/24 13:26	1
Toluene	ND		0.10	ug/L			06/13/24 13:26	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			06/13/24 13:26	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			06/13/24 13:26	1
Trichloroethene (TCE)	ND		0.10	ug/L			06/13/24 13:26	1
Trichlorofluoromethane	ND		0.10	ug/L			06/13/24 13:26	1
Vinyl chloride	ND		0.10	ug/L			06/13/24 13:26	1
Xylenes, Total	ND		0.15	ug/L			06/13/24 13:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		06/13/24 13:26	1
Toluene-d8 (Surr)	89		70 - 130		06/13/24 13:26	1
4-Bromofluorobenzene (Surr)	108		70 - 130		06/13/24 13:26	1
Dibromofluoromethane (Surr)	92		70 - 130		06/13/24 13:26	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
 Project/Site: Bell Fed GC B1

Job ID: 885-5955-1

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

Lab Sample ID: LCS 885-6750/2
 Matrix: Air
 Analysis Batch: 6750

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	20.1	20.3		ug/L		101	
Benzene	20.1	21.0		ug/L		105	
Chlorobenzene	20.1	20.1		ug/L		100	
Toluene	20.2	19.8		ug/L		98	
Trichloroethene (TCE)	20.2	19.2		ug/L		95	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130

QC Association Summary

Client: Hilcorp Energy
Project/Site: Bell Fed GC B1

Job ID: 885-5955-1

GC/MS VOA

Analysis Batch: 6750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5955-1	SVE-1	Total/NA	Air	8260B	
MB 885-6750/3	Method Blank	Total/NA	Air	8260B	
LCS 885-6750/2	Lab Control Sample	Total/NA	Air	8260B	

Analysis Batch: 6752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5955-1	SVE-1	Total/NA	Air	8015M/D	
MB 885-6752/3	Method Blank	Total/NA	Air	8015M/D	
LCS 885-6752/2	Lab Control Sample	Total/NA	Air	8015M/D	



Lab Chronicle

Client: Hilcorp Energy
Project/Site: Bell Fed GC B1

Job ID: 885-5955-1

Client Sample ID: SVE-1
Date Collected: 06/10/24 14:20
Date Received: 06/11/24 06:35

Lab Sample ID: 885-5955-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		25	6752	CM	EET ALB	06/13/24 17:34
Total/NA	Analysis	8260B		25	6750	CM	EET ALB	06/13/24 17:34

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: Bell Fed GC B1

Job ID: 885-5955-1

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	02-26-25

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
8015M/D		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: Bell Fed GC B1

Job ID: 885-5955-1

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.			
<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
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	02-26-25

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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
8015M/D		Air	Gasoline Range Organics [C6 - C10]



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ANALYTICAL SUMMARY REPORT

June 21, 2024

Hall Environmental
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: B24061110 Quote ID: B15626

Project Name: Bell Fed GC B1, 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 6/12/2024 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B24061110-001	SVE-1 (885-5955-1)	06/10/24 14:20	06/12/24	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: Hall Environmental
Project: Bell Fed GC B1, 88501698
Lab ID: B24061110-001
Client Sample ID: SVE-1 (885-5955-1)

Report Date: 06/21/24
Collection Date: 06/10/24 14:20
Date Received: 06/12/24
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	19.22	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Nitrogen	78.48	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Carbon Dioxide	2.20	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Hexanes plus	0.10	Mol %		0.01		GPA 2261-95	06/13/24 12:17 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj
Hexanes plus	0.042	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj
GPM Total	0.042	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj
GPM Pentanes plus	0.042	gpm		0.001		GPA 2261-95	06/13/24 12:17 / jrj

CALCULATED PROPERTIES

Gross BTU per cu ft @ Std Cond. (HHV)	5			1		GPA 2261-95	06/13/24 12:17 / jrj
Net BTU per cu ft @ std cond. (LHV)	4			1		GPA 2261-95	06/13/24 12:17 / jrj
Pseudo-critical Pressure, psia	551			1		GPA 2261-95	06/13/24 12:17 / jrj
Pseudo-critical Temperature, deg R	245			1		GPA 2261-95	06/13/24 12:17 / jrj
Specific Gravity @ 60/60F	1.01			0.001		D3588-81	06/13/24 12:17 / jrj
Air, %	87.80			0.01		GPA 2261-95	06/13/24 12:17 / jrj
- The analysis was not corrected for air.							

COMMENTS

-
- 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

Client: Hall Environmental

Work Order: B24061110

Report Date: 06/21/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-95								Batch: R422775		
Lab ID: B24061110-001ADUP	12 Sample Duplicate				Run: GCNGA-B_240613A			06/13/24 01:06		
Oxygen		19.3	Mol %	0.01				0.2	20	
Nitrogen		78.5	Mol %	0.01				0	20	
Carbon Dioxide		2.15	Mol %	0.01				2.3	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		0.11	Mol %	0.01				9.5	20	
Lab ID: LCS061324								06/13/24 02:54		
	11 Laboratory Control Sample				Run: GCNGA-B_240613A					
Oxygen		0.62	Mol %	0.01	124	70	130			
Nitrogen		6.03	Mol %	0.01	100	70	130			
Carbon Dioxide		1.00	Mol %	0.01	101	70	130			
Methane		75.1	Mol %	0.01	100	70	130			
Ethane		6.05	Mol %	0.01	101	70	130			
Propane		4.97	Mol %	0.01	101	70	130			
Isobutane		1.46	Mol %	0.01	73	70	130			
n-Butane		2.01	Mol %	0.01	100	70	130			
Isopentane		0.99	Mol %	0.01	99	70	130			
n-Pentane		1.01	Mol %	0.01	101	70	130			
Hexanes plus		0.80	Mol %	0.01	100	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Hall Environmental

B24061110

Login completed by: Danielle N. Harris

Date Received: 6/12/2024

Reviewed by: tjones

Received by: KOF

Reviewed Date: 6/17/2024

Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	19.8°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Standard Reporting Procedures:

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

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

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

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

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

Contact and Corrective Action Comments:

None



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

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler: Freeman, Andy		Carrier Tracking No(s):		COC No: 885-911.1	
Client Contact: Shipping/Receiving		E-Mail: andy.freeman@eurofins.com		State of Origin: New Mexico		Page: 1 of 1	
Company: Energy Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-5955-1		Preservation Codes:	
Address: 1120 South 27th Street,		Due Date Requested: 6/21/2024		Analysis Requested			
City: Billings		TAT Requested (days):					
State, Zip: MT, 59101		PO #:					
Phone: 406-252-6325(Tel)		WO #:					
Email:		Project #: 88501698					
Site: Bell Fed GC B1		SSOW#:		Other:			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
SVE-1 (885-5955-1)		6/10/24		14:20 Mountain		Air	
						Matrix (W=water, S=solid, O=soil, T=tissue, A=air)	
						Preservation Code:	
						Field Filtered Sample (Yes or No)	
						Perform MS/MSD (Yes or No)	
						SUB (Fixed Gases)/ Fixed Gases	
						X	
						Total Number of containers	
						1	
						Special Instructions/Note:	
						B240611D	

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

Possible Hazard Identification
Unconfirmed

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 6/11/24 15:28 Company: _____

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

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

Custody Seal Intact: Yes No Custody Seal No.: _____

Received by: Kate Finneman Date/Time: 6/12/24 09:30 Company: _____

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

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

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

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

Special Instructions/QC Requirements:

Method of Shipment: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

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

Ver: 04/02/2024



Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinsclair@hilcorp.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:

Bell Fed GC B1

Project #:

Project Manager:

Mitch Killough

Sampler: Brandon Sinsclair

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CP): 16.4-0=16.4 (°C)

Container Type and #

2 Tedlar

Preservative Type

HEAL No.

Date

6-10-1920

Matrix

air SVE-1

Sample Name

Date

6/10/24

Time

1630

Relinquished by:

Mr. Smith

Date

6/10/24

Time

1740

Relinquished by:

Christa Wade

Received by:

Christa Wade

Date

4/10/24

Time

1630

Received by:

Christa Wade

Date

6/10/24

Time

6:35



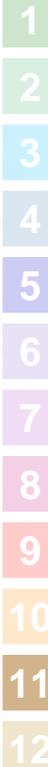
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	<input checked="" type="checkbox"/>
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<input checked="" type="checkbox"/>
	<u>8015 Turb</u>
	<u>Fixed gas O₂ & CO₂</u>

Remarks:

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: 885-5955-1

Login Number: 5955

List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 363130

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 363130
	Action Type: [REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Continue O&M schedule as stated in report. 2. Submit next quarterly report by October 15, 2024.	8/2/2024