REVIEWED By Nelson Velez at 11:00 am, Sep 07, 2022

Continue with O & M schedule.
 Submit next quarterly report by October 31, 2022.



July 11, 2022

New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Resources Department 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Second Quarter 2022 – Solar SVE System Update Bell Federal GC B#1 San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: NCS1729355513 Ensolum Project No. 07A1988001

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Second Quarter* 2022 – 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 2022 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 9 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 2022 ACTIVITIES

During the second quarter of 2022, Ensolum, LLC (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.

Hilcorp Energy Company Bell Federal GC B#1 July 11, 2022

During the second quarter of 2022, operating SVE wells were rotated so vacuum on the vadose zone within two wells at a time to induce air flow in the impacted zones at the Site. Between April 4 and June 16, 2022, approximately 951 total hours of available 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 989.6 hours, equating to a second quarter 2022 runtime efficiency of 104.1 percent (%). For solar SVE systems, runtime efficiency can be greater than 100% when the solar panels charge the system's batteries during daylight hours and continue to run the SVE blower for a longer duration of time than the nominal daylight hours available at the Site due to excess energy stored in the batteries. Table 1 presents the SVE system runtime compared to nominal available daylight hours per month. Appendix B presents photographs of the runtime meter taken during the first and last field visits of the quarter.

A second quarter 2022 emissions sample was collected on June 16, 2022 from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Prior to collection, the emission sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The emission sample was collected directly into two 1-Liter Tedlar[®] bags and submitted to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, volatile organic compounds (VOCs) following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. Table 2 presents a summary of analytical data collected during this sampling event and historical sampling events, with the full laboratory analytical report included in Appendix C.

Air 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, 38,774 pounds (19 tons) of TVPH have been removed by the system to date.

RECOMMENDATIONS

Bi-weekly operation and maintenance (O&M) visits will continue to be performed by Ensolum and/or Hilcorp personnel to verify that 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 until asymptotic conditions are observed. At that time, an evaluation of residual petroluem 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.

Sincerely, Ensolum, LLC

Stuart Hyde, LG Senior Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Hilcorp Energy Company Bell Federal GC B#1 July 11, 2022

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ENSOLUM

Attachments:

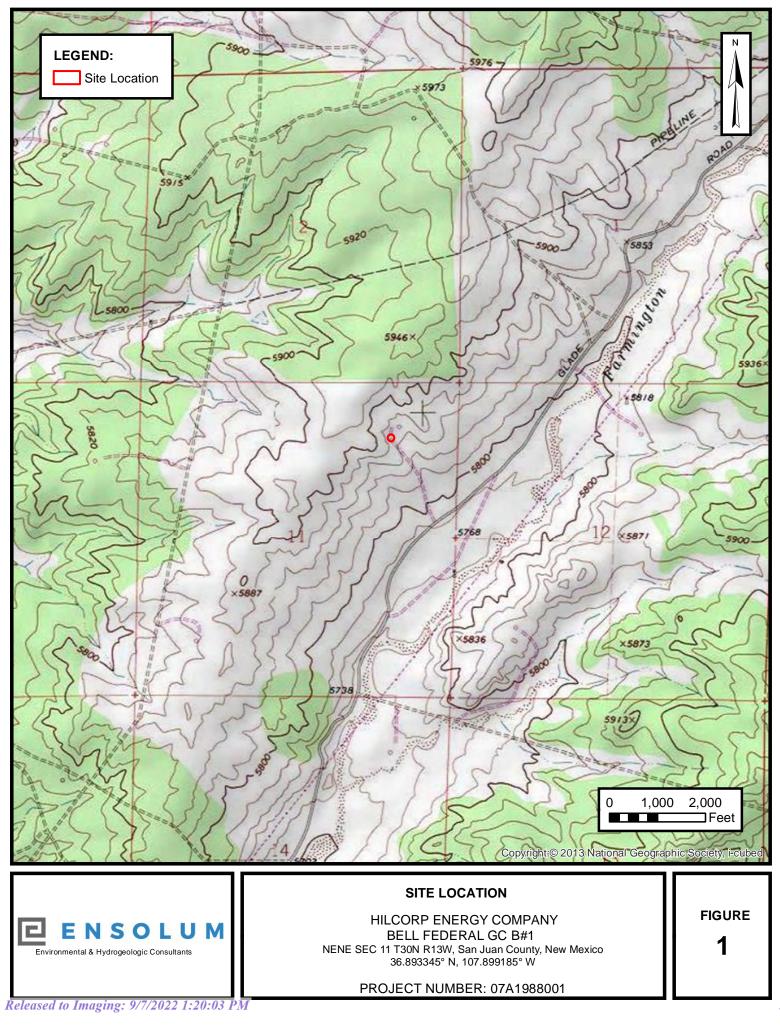
Figure 1	Site Location
Figure 2	SVE System Configuration
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Emissions Analytical Results
Table 3	Soil Vapor Extraction System Mass Removal and Emissions
Appendix A	Field Notes
Appendix B	Project Photographs
Appendix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

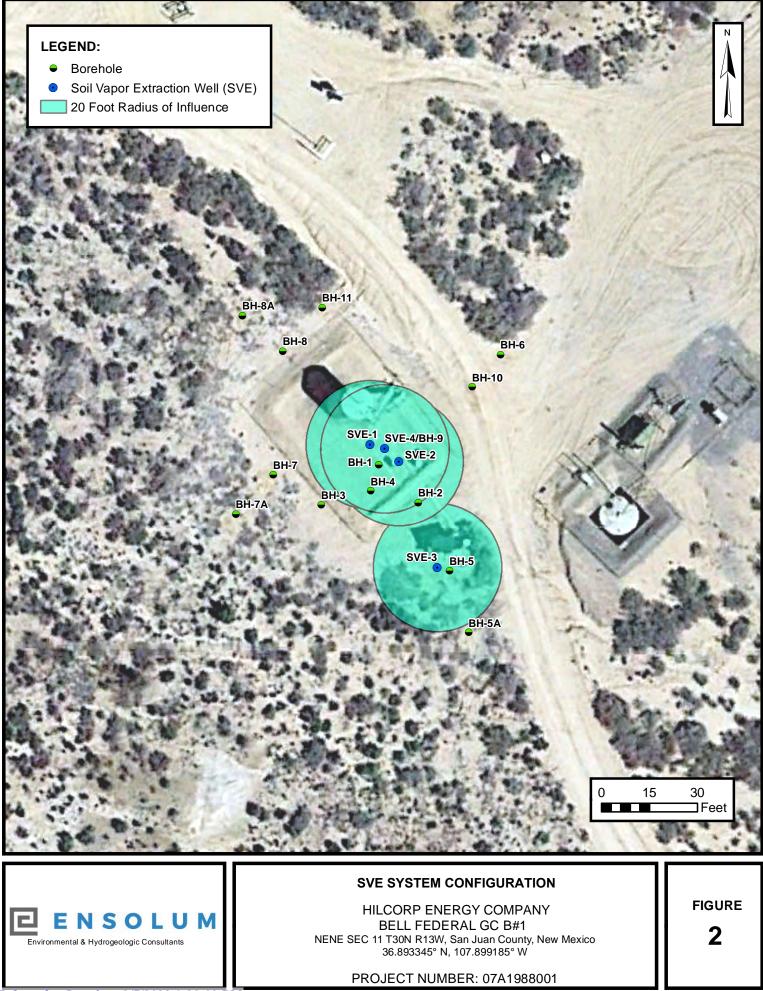
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FIGURES

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TABLES

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TABLE 1

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

Ensolum Project No. 07A1988001

Date	Total Operational Hours	Delta Hours
4/4/2022	14,744.2	
6/16/2022	15,733.8	989.6

Time Period	April 4 to April 30, 2022	May 1 to May 31, 2022	June 1 to June 16, 2022
Days	27	31	16
Avg. Nominal Daylight Hours	12	13	14
Available Runtime Hours	324	403	224

Quarterly Available Daylight Runtime Hours 951 **Quarterly Runtime Hours Quarterly % Runtime**

989.6 104.1%

Month	Days	Nominal Daylight Hours	Total Month Hours
January	31	10	310
February	28	10	280
March	31	11	341
April	30	12	360
Мау	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 Hilcorp Energy Company - Bell Federal GC B#1 San Juan County, New Mexico

Ensolum Project No. 07A1988001

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	16.3%	3.32%
3/16/2021	1,096	53	120	<0.50	82	26,000	16.8%	3.01%
6/16/2022	708	24	69	<5.0	38	13,000	21.0%	0.82%

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

<0.037: indicates result less than the stated laboratory reporting limit (RL)

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TABLE 3 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS Hilcorp Energy Company - Bell Federal GC B#1 San Juan County, New Mexico Ensolum Project No. 07A1988001 Flow and 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
3/16/2021	1,096	53	120	0.50	82	26,000
6/16/2022	708	24	69	5.00	38	13,000
Average	1,324	144	333	14	252	24,202

			Vap	or Extraction Summ	nary			
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
3/16/2021	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
			Average	0.018	0.040	0.0016	0.029	3.0

			Flov	v and Laboratory Ana	llysis			
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
	Total Ma	ss Recovery to Date	327	718	30	523	38,774	19

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

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APPENDIX A

Field Notes

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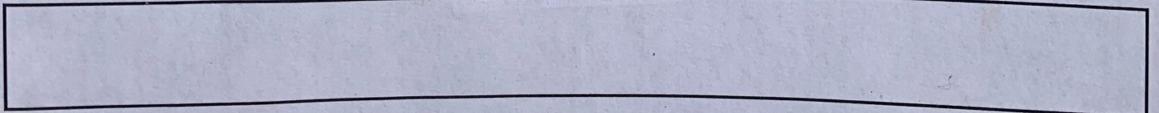
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		SYSTEM - MONTHLY O&M	(t	
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SVE ALARMS.		KO TANK HIGH LEVEL	_	
				MER SETTINGS
			Month	Timer Setting
SVE SYSTEM	READING	TIME	January	8 AM to 7 PM
Blower Hours (take photo)	14744,2	030	February	8 AM to 7 PM
Pre K/O Vacuum (IWC)	14		March	8 AM to 8 PM
Thermal Anemometer Flow (fpm)	4342		April	8 AM to 9 PM
Thermal Anemometer Temp (May	7 AM to 9 PM
Inlet PID	1651		June	6 AM to 9 PM
Exhaust PID	1920		July	6 AM to 9 PM
Solar Panel Angle			August	7 AM to 9 PM
K/O Tank Drum Level	6"		September	8 AM to 9 PM
K/O Liquid Drained (gallons)	~		October	8 AM to 8 PM
Timer Setting	8AM to Sim		November	9 AM to 8 PM
Heat Trace (on/off)			December	8 AM to 6 PM
	SVE SVST	TEM - QUARTERLY SAMPLI	NC	
SAMPLE ID:	5VE 5131	SAMPLE TIME:		
	TVPH (8015), VOCs (8260), Fixe		•	
OPERATING WELLS	SVE 1,2,3	eu Gas (CO/CO2/O2)		
	= = (]=, "			
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SVE02				
SVE03				
SVE04				
PRODUCT RECOVERY				1
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SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S				
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Thermal Anemometer Temp (C)	30 05		April	8 AM to 9 PM
Inlet PID	30.05		May	7 AM to 9 PM
Exhaust PID	737		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
		T T	December	8 AM to 6 PM
	SVE SY	STEM - QUARTERLY SAMPL	INC	
SAMPLE ID: Analytes: T OPERATING WELLS	VPH (8015), VOCs (8260), 2,3	SAMPLE TIME:		
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	FLOW (OPLO	
SVE01	DFF	TID TILADSPACE (PPIVI)	FLOW (CFM)	ADJUSTMENTS
SVE01	83.8	1		
SVE03	1334			
SVE04	DFF			
	W L L		and the second	
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LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	ECOVERED VOLUM	COMMENTS
SVE-1				

DIDI		all states and the second st	the second s
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COMMENTS/OTHER MAINTENANCE:



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SVE SYSTEM Biower Hours (take photo) Pre K/O Vacuum (IWC) Thermal Anemometer Flow (fpm) Thermal Anemometer Flow (fpm) Thermal Anemometer Temp (C) Inhet PID Exhaust PID Solar Panel Angle K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE01 SVE02 SVE03 SVE04 UCT RECOVERY LOCATION SVE-1 SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S	944 944 775 2.5 in 84M N 9 PM # SVE SYS 7PH (8015), VOCs (8260), Fixe SV E - 02, 03	TIME [[]]] []]] []]]] []]] []]] []]] []]] []]] []]]]] []]]] []]]] []]]]]]] []]]]]] []]]]]]] []]]]]]]]]]] []]]]]]]]]]]]]]]]]]]	TIMER Month January February March April May June July August September October November December	Timer Setting 8 AM to 7 PM 8 AM to 7 PM 8 AM to 8 PM 8 AM to 9 PM 7 AM to 9 PM 6 AM to 9 PM 6 AM to 9 PM 7 AM to 9 PM 8 AM to 9 PM 8 AM to 9 PM 9 AM to 9 PM 8 AM to 9 PM 9 AM to 9 PM 9 AM to 9 PM 9 AM to 8 PM 9 AM to 8 PM
Blower Hours (take photo) Pre K/O Vacuum (IWC) Thermal Anemometer Flow (fpm) Thermal Anemometer Flow (fpm) Thermal Anemometer Flow (fpm) Inlet PID Exhaust PID Solar Panel Angle K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE02 SVE03 SVE04 UCT RECOVERY LOCATION SVE-1 SVE-1 SVE-4 SVE-13S	944 944 775 2.5 in 84M N 9 PM # SVE SYS 7PH (8015), VOCs (8260), Fixe SV E - 02, 03	[] 2] [] 2] [] 2] [] 1 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2]	Month January February March April May June July August September October November December	Timer Setting 8 AM to 7 PM 8 AM to 7 PM 8 AM to 8 PM 8 AM to 9 PM 7 AM to 9 PM 6 AM to 9 PM 6 AM to 9 PM 7 AM to 9 PM 8 AM to 9 PM 8 AM to 9 PM 9 AM to 9 PM 8 AM to 9 PM 9 AM to 9 PM 9 AM to 9 PM 9 AM to 8 PM 9 AM to 8 PM
Blower Hours (take photo) Pre K/O Vacuum (IWC) Thermal Anemometer Flow (fpm) Thermal Anemometer Flow (fpm) Thermal Anemometer Temp (C) Inlet PID Exhaust PID Solar Panel Angle K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) KOPERATING WELLS SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 SVE-1 SVE-4 SVE-13S	944 944 775 2.5 in 84M N 9 PM # SVE SYS 7PH (8015), VOCs (8260), Fixe SV E - 02, 03	[] 2] [] 2] [] 2] [] 1 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2] [] 2]	January February March April May June July August September October November December ING	8 AM to 7 PM 8 AM to 7 PM 8 AM to 8 PM 7 AM to 9 PM 6 AM to 9 PM 6 AM to 9 PM 7 AM to 9 PM 8 AM to 9 PM 8 AM to 8 PM 9 AM to 8 PM
Blower Hours (take photo) Pre K/O Vacuum (IWC) Thermal Anemometer Flow (fpm) Thermal Anemometer Flow (fpm) Thermal Anemometer Flow (fpm) Inlet PID Exhaust PID Solar Panel Angle K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE02 SVE03 SVE04 UCT RECOVERY LOCATION SVE-1 SVE-1 SVE-4 SVE-13S	944 944 2.5 in. 84M N 9 PM # SVE SYS SVE SYS SVE - 02, 03	TEM - QUARTERLY SAMPL SAMPLE TIME: ed Gas (CO/CO2/O2)	March April April May June June July August September October November December	8 AM to 8 PM 8 AM to 9 PM 7 AM to 9 PM 6 AM to 9 PM 6 AM to 9 PM 7 AM to 9 PM 8 AM to 9 PM 8 AM to 8 PM 9 AM to 8 PM
Thermal Anemometer Flow (fpm) Thermal Anemometer Temp (C) Infet PID Exhaust PID Solar Panel Angle K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SAMPLE ID: SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 SVE-1 SVE-2RS SVE-4 SVE-13S EDEM	944 775 2.5 in. 84m 10 9 pm # SVE SYS PH (8015), VOCs (8260), Fixe SVE - 02, 03	TEM - QUARTERLY SAMPL SAMPLE TIME: ed Gas (CO/CO2/O2)	April May June July August September October November December	8 AM to 9 PM 7 AM to 9 PM 6 AM to 9 PM 6 AM to 9 PM 7 AM to 9 PM 8 AM to 9 PM 8 AM to 8 PM 9 AM to 8 PM
Thermal Anemometer Temp (C) Inlet PID Exhaust PID Solar Panel Angle K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SAMPLE ID: SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE02 SVE03 SVE04 JCT RECOVERY LOCATION SVE-1 SVE-1 SVE-2RS SVE-4 SVE-13S EDEE SUE	2.5 in. 8 Am to 9 PM # SVE SVS 7PH (8015), VOCs (8260), Fixe 5 V E - 02, 03	SAMPLE TIME: ed Gas (CO/CO2/O2)	May June July August September October November December	7 AM to 9 PM 6 AM to 9 PM 6 AM to 9 PM 7 AM to 9 PM 8 AM to 9 PM 8 AM to 8 PM 9 AM to 8 PM
Inlet PID Exhaust PID Solar Panel Angle K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE02 SVE03 SVE04 SVE03 SVE04	2.5 in. 8 Am to 9 PM # SVE SVS 7PH (8015), VOCs (8260), Fixe 5 V E - 02, 03	SAMPLE TIME: ed Gas (CO/CO2/O2)	June July August September October November December	6 AM to 9 PM 6 AM to 9 PM 7 AM to 9 PM 8 AM to 9 PM 8 AM to 8 PM 9 AM to 8 PM
Exhaust PID Solar Panel Angle K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE01 SVE02 SVE03 SVE04 SVE03 SVE04 SVE	2.5 in. 8 Am to 9 PM # SVE SVS 7PH (8015), VOCs (8260), Fixe 5 V E - 02, 03	SAMPLE TIME: ed Gas (CO/CO2/O2)	July August September October November December ING	7 AM to 9 PM 8 AM to 9 PM 8 AM to 8 PM 9 AM to 8 PM
Solar Panel Angle K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS SVE01 SVE01 SVE01 SVE02 SVE03 SVE04 ICT RECOVERY LOCATION SVE-1 SVE-1 SVE-2RS SVE-4 SVE-13S	2.5 in. 8 Am to 9 PM # SVE SYS 7PH (8015), VOCs (8260), Fixe 5 V E - 02, 03	SAMPLE TIME: ed Gas (CO/CO2/O2)	September October November December	8 AM to 9 PM 8 AM to 8 PM 9 AM to 8 PM
K/O Tank Drum Level K/O Liquid Drained (gallons) Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS Mange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 JCT RECOVERY LOCATION SVE-1 SVE-1 SVE-2RS SVE-4 SVE-11S SVE-11S SVE-13S	SVE SYS SVE SYS (PH (8015), VOCs (8260), Fixe SVE - 02, 03	SAMPLE TIME: ed Gas (CO/CO2/O2)	October November December	8 AM to 8 PM 9 AM to 8 PM
Timer Setting Heat Trace (on/off) SAMPLE ID: Analytes: TV. OPERATING WELLS system hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 JCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S	SVE SYS SVE SYS (PH (8015), VOCs (8260), Fixe SVE - 02, 03	SAMPLE TIME: ed Gas (CO/CO2/O2)	November December	9 AM to 8 PM
Heat Trace (on/off) SAMPLE ID: Analytes: TV OPERATING WELLS swear hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 JCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S	SVE SYS 7PH (8015), VOCs (8260), Fixe 5 V E - 02, 03	SAMPLE TIME: ed Gas (CO/CO2/O2)	December	
SAMPLE ID: Analytes: TV OPERATING WELLS S hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE03 SVE04 ICT RECOVERY LOCATION SVE-1 SVE-2RS SVE-2RS SVE-4 SVE-11S SVE-13S	/PH (8015), VOCs (8260), Fixe 5 ✓ E - ○ 2 , ○3	SAMPLE TIME: ed Gas (CO/CO2/O2)		
Analytes: TV OPERATING WELLS S hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 JCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-4 SVE-4 SVE-13S	/PH (8015), VOCs (8260), Fixe 5 ✓ E - ○ 2 , ○3	SAMPLE TIME: ed Gas (CO/CO2/O2)		
Analytes: TV OPERATING WELLS S hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 OCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-4 SVE-4 SVE-13S	/PH (8015), VOCs (8260), Fixe 5 ✓ E - ○ 2 , ○3	SAMPLE TIME: ed Gas (CO/CO2/O2)		
Analytes: TV OPERATING WELLS S hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 OCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-4 SVE-4 SVE-13S	SVE-02,03		ADJUSTMENTS	
hange in Well Operation:	~	PID HEADSPACE (PPM)	ADJUSTMENTS	
LOCATION SVE01 SVE02 SVE03 SVE04 OCT RECOVERY LOCATION SVE-1 SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
LOCATION SVE01 SVE02 SVE03 SVE04 OCT RECOVERY LOCATION SVE-1 SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01 SVE02 SVE03 SVE04 OCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
SVE01 SVE02 SVE03 SVE04 ICT RECOVERY LOCATION SVE-1 SVE-2RS SVE-1 SVE-1 SVE-1 SVE-1 SVE-13S				
SVE03 SVE04 ICT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-4 SVE-11S SVE-13S				
SVE04 JCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-4 SVE-11S SVE-13S				
ICT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-4 SVE-11S SVE-13S				
LOCATION SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S				
LOCATION SVE-1 SVE-2RS SVE-4 SVE-11S SVE-13S				
SVE-2RS SVE-4 SVE-11S SVE-13S	DEPTH TO PRODUCT	DEPTH TO WATER	RECOVERED VOLUME	COMMENTS
SVE-4 SVE-11S SVE-13S				
SVE-11S SVE-13S				
SVE-13S				
341-143				
ENTS/OTHER MAINTENANCE:				
ange time setting	to 7AM to 9PM	SVE03 - DT	P DTW Bai	1~7602 PSH
		17.1		

BELL FEDERAL GC B1 SVE SYSTEM BIWEEKLY O&M FORM

DATE: <u>5-16-22</u> TIME ONSITE: <u>5-16-22</u> TIME OFFSITE: <u>5:nclait</u> TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M

SVE ALARMS:

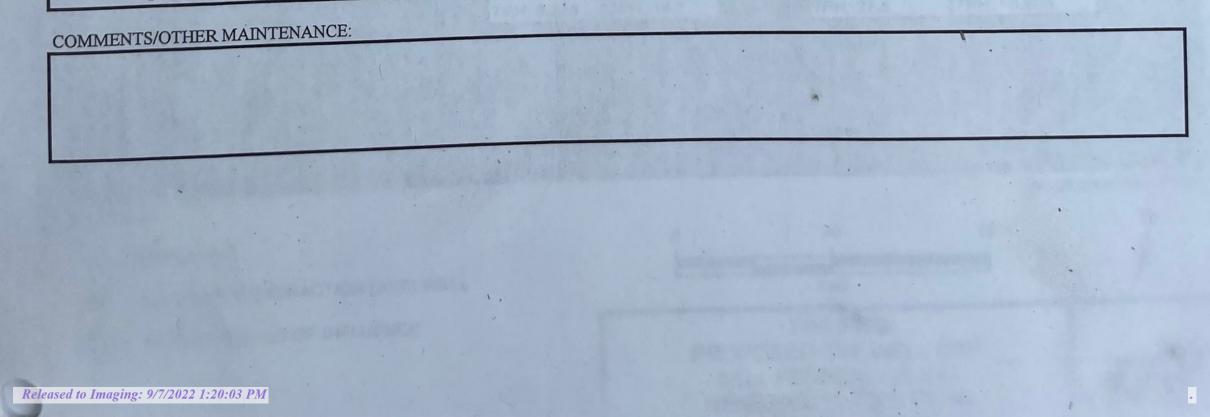
KO TANK HIGH LEVEL

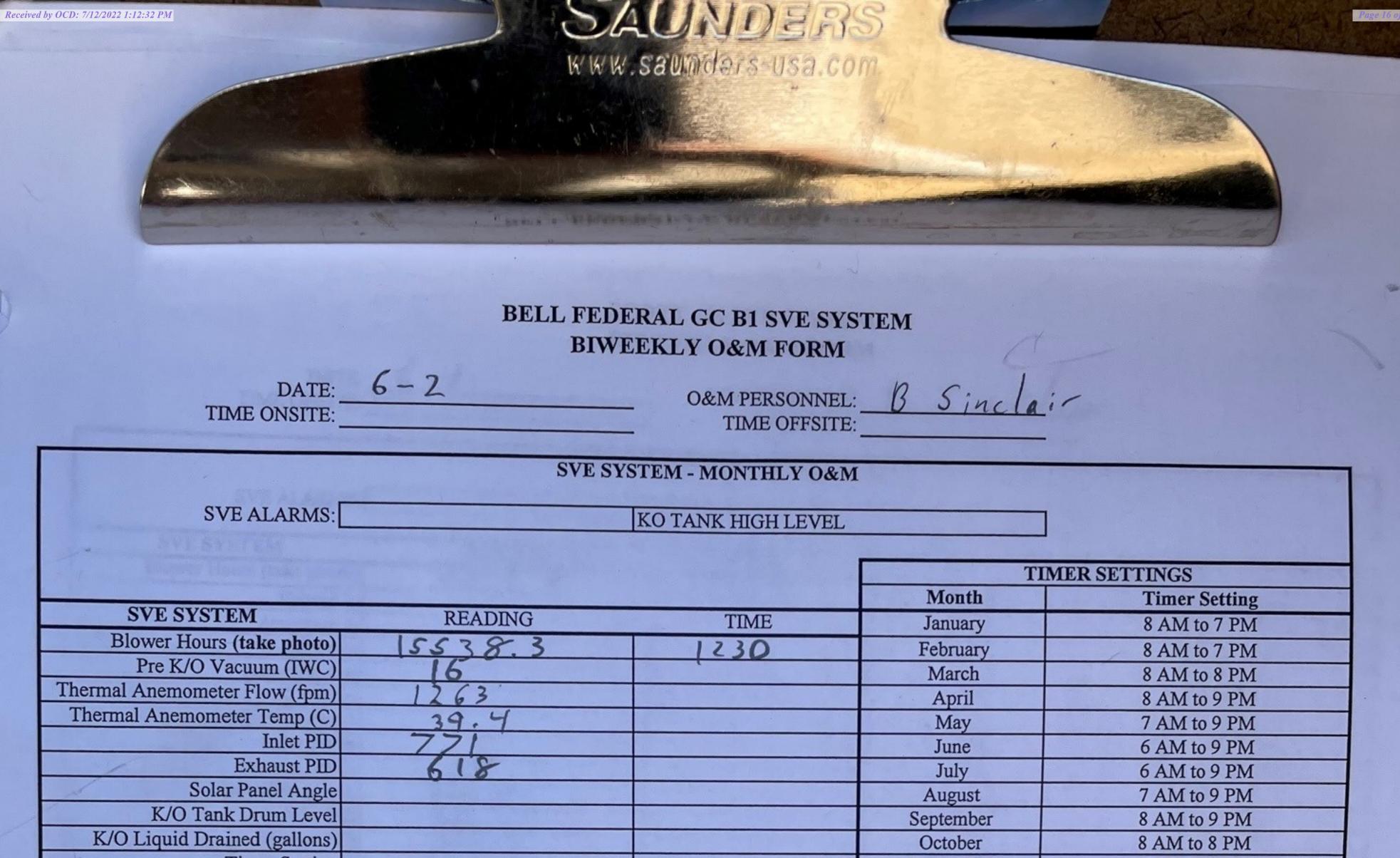
			TIN	IER SETTINGS
			Month	Timer Setting
SVE SYSTEM	READING	TIME	January	8 AM to 7 PM
Blower Hours (take photo)	153011	12:32	February	8 AM to 7 PM
Pre K/O Vacuum (IWC)	15		March	8 AM to 8 PM
Thermal Anemometer Flow (fpm)	96 73		April	8 AM to 9 PM
Thermal Anemometer Temp (C)	UA 15		May	7 AM to 9 PM
Inlet PID	815		June	6 AM to 9 PM
Exhaust PID	794		July	6 AM to 9 PM
Solar Panel Angle			August	7 AM to 9 PM
K/O Tank Drum Level			September	8 AM to 9 PM
K/O Liquid Drained (gallons)			October	8 AM to 8 PM
Timer Setting			November	9 AM to 8 PM
			December	8 AM to 6 PM
Heat Trace (on/off)			2000000	

SVE SYSTEM - QUARTERLY SAMPLING	
SAMPLE ID: SAMPLE TIME:	
Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	
OPERATING WELLS SVEOZISVEO3	

Change in Well Operation:		1		
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
SVE01	At the second second	(2.2		
SVE02		1379		
SVE03	A CONTRACTOR OF THE OWNER	130		
SVE04	allowing the second second second			-

PRODUCT RECOVERY		DEPTH TO WATER	ECOVERED VOLUM	COMMENTS
LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	ECOVERED VOLUM	COMMINITY
SVE-1		the state of the s		
SVE-2RS				
SVE-4		The second se	N N N N N N N N N N N N N N N N N N N	A CONTRACT OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER
SVE-11S			N	
SVE-13S		the second s		
SVE-14S				





Timer Setting		November	9 AM to 8 PM
Heat Trace (on/off)		December	8 AM to 6 PM

A second and the Man and a second	SVE SYSTEM - QUARTERLY SAMPLING	
SAMPLE ID:	SAMPLE TIME:	
Analytes:	TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	in a grant of mande mains of management of the
OPERATING WELLS	SVEDZ, SVED3	and the line was a summary and a summary and a summer and

Change in Well Operation:	And the second sec			
A Common Well Common and			FLOW (OF) O	
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
SVE01				
SVE02		73.0		and the second se
SVE03		1174		
SVE04	P			

PRODUCT RECOVERY				
LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	ECOVERED VOLUM	COMMENTS
SVE-1				
SVE-2RS				
SVE-4				
SVE-11S	and the second sec			
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE:





DATE: TIME ONSITE:	6-16-22 1215	WEEKLY O&M FORM O&M PERSONNEL TIME OFFSITE	D. Burns	
TIME ONSTITE.	612	-		
	SVE	SYSTEM - MONTHLY O&M		
		1		
SVE ALARMS:		KO TANK HIGH LEVEL		
			TIME	R SETTINGS
			Month	Timer Setting
SVE SYSTEM	READING	TIME	January	8 AM to 7 PM
Blower Hours (take photo)	15733.8	1230	February	8 AM to 7 PM
Pre K/O Vacuum (IWC)	16		March	8 AM to 8 PM
Thermal Anemometer Flow (fpm)	1240		April	8 AM to 9 PM
Thermal Anemometer Temp (C)	95 °F		May	7 AM to 9 PM
Inlet PID	708		June	6 AM to 9 PM
Exhaust PID	624		July	6 AM to 9 PM
Solar Panel Angle K/O Tank Drum Level	50 NONE-DRY		August	7 AM to 9 PM 8 AM to 9 PM
K/O Liquid Drained (gallons)	NUNE-DIQ		September October	8 AM to 8 PM
Timer Setting	JLAN- OPM		November	9 AM to 8 PM
	BAN- GPM OFF		December	8 AM to 6 PM
Heat Trace (on/off)				
SAMPLE ID:	SVE SYS Influent 06-16-7 FVPH (8015), VOCs (8260), Fixe	d Gas (CO/CO2/O2)		570ppm
SAMPLE ID: Analytes:	SVE SYS	d Gas (CO/CO2/O2)		s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation:	SVE SYS Influent 06-16-7 FVPH (8015), VOCs (8260), Fixe	d Gas (CO/CO2/O2)		s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation:	SVE SYS Influent 06-16-7 FVPH (8015), VOCs (8260), Fixe	d Gas (CO/CO2/O2)		s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2	2SAMPLE TIME: d Gas (CO/CO2/O2) ≰ 3	13:10 PID	s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2	2SAMPLE TIME: d Gas (CO/CO2/O2) ≰ 3	13:10 PID	s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE01 SVE02 SVE03	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2	2SAMPLE TIME: d Gas (CO/CO2/O2) ≰ 3	13:10 PID	s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2	2SAMPLE TIME: d Gas (CO/CO2/O2) ≰ 3	13:10 PID	s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE03 SVE04 CT RECOVERY	SVE SYS Influent 06-16-7 EVPH (8015), VOCs (8260), Fixe SVE 2 VACUUM (IWC)	22 SAMPLE TIME: d Gas (CO/CO2/O2) ↓ 3 PID HEADSPACE (PPM)	13:10 PID ADJUSTMENTS	
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2	2 SAMPLE TIME: d Gas (CO/CO2/O2) 3 PID HEADSPACE (PPM) DEPTH TO WATER	13:10 PID	s-570ppm
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 Ø1	SVE SYS Influent 06-16-7 EVPH (8015), VOCs (8260), Fixe SVE 2 VACUUM (IWC)	2 SAMPLE TIME: d Gas (CO/CO2/O2) 4 3 PID HEADSPACE (PPM) DEPTH TO WATER 40.12	13:10 PID ADJUSTMENTS	
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 SVE-	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2 VACUUM (IWC) DEPTH TO PRODUCT	DEPTH TO WATER 4 0 · 12 3 · 0 2	ADJUSTMENTS	COMMENTS
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 SVE-	SVE SYS Influent 06-16-7 EVPH (8015), VOCs (8260), Fixe SVE 2 VACUUM (IWC)	2 SAMPLE TIME: d Gas (CO/CO2/O2) ↓ ↓ 3 PID HEADSPACE (PPM)	13:10 PID ADJUSTMENTS	
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 CCT RECOVERY LOCATION SVE-1	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2 VACUUM (IWC) DEPTH TO PRODUCT	DEPTH TO WATER 4 0 · 12 3 · 0 2	ADJUSTMENTS	COMMENTS
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 SVE-	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2 VACUUM (IWC) DEPTH TO PRODUCT	2 SAMPLE TIME: d Gas (CO/CO2/O2) ↓ ↓ 3 PID HEADSPACE (PPM)	ADJUSTMENTS	COMMENTS
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 DI SVE-1 DI SVE-1 SVE-	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2 VACUUM (IWC) DEPTH TO PRODUCT	2 SAMPLE TIME: d Gas (CO/CO2/O2) ↓ ↓ 3 PID HEADSPACE (PPM)	ADJUSTMENTS	COMMENTS
SAMPLE ID: Analytes: OPERATING WELLS hange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 CT RECOVERY LOCATION SVE-1 O1 SVE-1 O1 SVE-1 O1 SVE-1 O1 SVE-1 O1 SVE-1 S	SVE SYS Influent 06-16-7 IVPH (8015). VOCs (8260). Fixe SVE 2 VACUUM (IWC) DEPTH TO PRODUCT	2 SAMPLE TIME: d Gas (CO/CO2/O2) 4 # 3 PID HEADSPACE (PPM) DEPTH TO WATER 40.12 33.02 47.81 46.29 46.29	ADJUSTMENTS ADJUSTMENTS RECOVERED VOLUME 2 gal	COMMENTS

Released to Imaging: 9/7/2022 1:20:03 PM

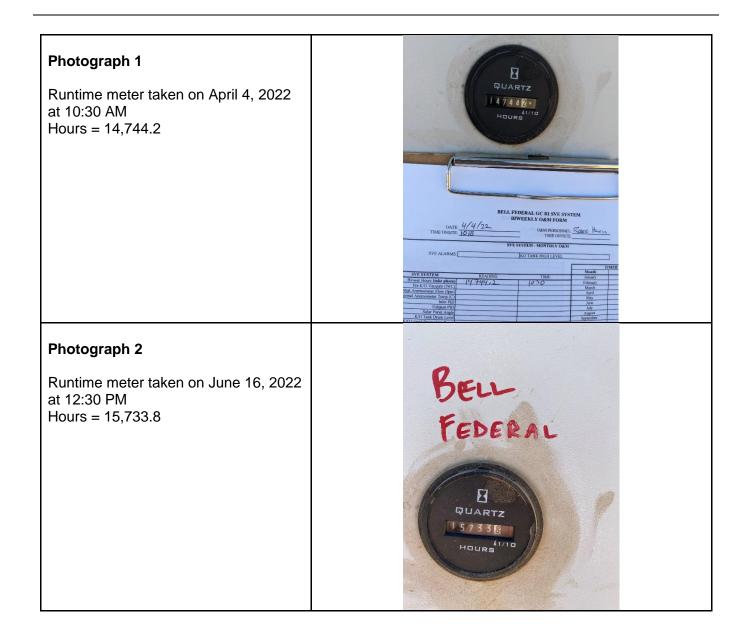


APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS Bell Federal GC B#1

San Juan County, New Mexico Hilcorp Energy Company





APPENDIX C

Laboratory Analytical Reports



July 05, 2022

Stuart Hyde HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX

RE: Bell Federal GC B1

OrderNo.: 2206941

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/17/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2206941

CLIENT: HILCORP ENERGY Project: Bell Federal GC B1 Lab ID: 2206941-001	Matrix: AIR		Collection Dat	e: 6/1	luent 06-16-22 6/2022 1:10:00 PM 7/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	13000	250	µg/L	50	6/20/2022 1:19:23 PM	G8888
Surr: BFB	214	15-380	~9/- %Rec	50	6/20/2022 1:19:23 PM	G8888
EPA METHOD 8260B: VOLATILES					Analyst	: CCM
Benzene	24	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890
Toluene	69	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Ethylbenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Methyl tert-butyl ether (MTBE)	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,2,4-Trimethylbenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,3.5-Trimethylbenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,2-Dichloroethane (EDC)	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,2-Dibromoethane (EDB)	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Naphthalene	ND	10	μg/L	50	6/21/2022 2:42:00 PM	R8890
1-Methylnaphthalene	ND	20	μg/L	50	6/21/2022 2:42:00 PM	R8890
2-Methylnaphthalene	ND	20	μg/L	50	6/21/2022 2:42:00 PM	R8890
Acetone	ND	20 50	μg/L	50	6/21/2022 2:42:00 PM	R8890
Bromobenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Bromodichloromethane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890
Bromoform	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Bromomethane	ND	10	μg/L	50	6/21/2022 2:42:00 PM	R8890
2-Butanone	ND	50	μg/L	50	6/21/2022 2:42:00 PM	R8890
Carbon disulfide	ND	50	μg/L	50	6/21/2022 2:42:00 PM	R8890
Carbon tetrachloride	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Chlorobenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Chloroethane	ND	10	μg/L	50	6/21/2022 2:42:00 PM	R8890
Chloroform	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Chloromethane	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
2-Chlorotoluene	ND	5.0	μg/L	50		R8890
4-Chlorotoluene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
cis-1,2-DCE	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
cis-1,3-Dichloropropene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,2-Dibromo-3-chloropropane	ND	10	μg/L	50	6/21/2022 2:42:00 PM	R8890
Dibromochloromethane	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Dibromomethane	ND	10	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,2-Dichlorobenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,3-Dichlorobenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,4-Dichlorobenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
Dichlorodifluoromethane	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,1-Dichloroethane	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890
1,1-Dichloroethene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 2

.

CLIENT: HILCORP ENERGY

2206941-001

Bell Federal GC B1

Project:

Lab ID:

Analytical Report

Matrix: AIR

Lab Order 2206941 Date Reported: 7/5/2022

Client Sample ID: Influent 06-16-22 Collection Date: 6/16/2022 1:10:00 PM Received Date: 6/17/2022 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	CCM
1,2-Dichloropropane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
1,3-Dichloropropane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
2,2-Dichloropropane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
1,1-Dichloropropene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
Hexachlorobutadiene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
2-Hexanone	ND	50	µg/L	50	6/21/2022 2:42:00 PM	R88901
Isopropylbenzene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
4-Isopropyltoluene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
4-Methyl-2-pentanone	ND	50	µg/L	50	6/21/2022 2:42:00 PM	R88901
Methylene chloride	ND	15	µg/L	50	6/21/2022 2:42:00 PM	R88901
n-Butylbenzene	ND	15	µg/L	50	6/21/2022 2:42:00 PM	R88901
n-Propylbenzene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
sec-Butylbenzene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
Styrene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
tert-Butylbenzene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
Tetrachloroethene (PCE)	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ⁻
trans-1,2-DCE	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
trans-1,3-Dichloropropene	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R88901
1,2,3-Trichlorobenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R88901
1,2,4-Trichlorobenzene	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890 ²
1,1,1-Trichloroethane	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R88901
1,1,2-Trichloroethane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
Trichloroethene (TCE)	ND	5.0	μg/L	50	6/21/2022 2:42:00 PM	R8890 ²
Trichlorofluoromethane	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
1,2,3-Trichloropropane	ND	10	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
Vinyl chloride	ND	5.0	µg/L	50	6/21/2022 2:42:00 PM	R8890 ²
Xylenes, Total	38	7.5	μg/L	50	6/21/2022 2:42:00 PM	R8890 ²
Surr: Dibromofluoromethane	91.9	70-130	%Rec	50	6/21/2022 2:42:00 PM	R8890 ²
Surr: 1,2-Dichloroethane-d4	77.3	70-130	%Rec	50	6/21/2022 2:42:00 PM	R88901
Surr: Toluene-d8	104	70-130	%Rec	50	6/21/2022 2:42:00 PM	R88901
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	50	6/21/2022 2:42:00 PM	R88901

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL
 - Reporting Limit

Page 2 of 2

Qualifiers:

Received by OCD: 7/12/2022 1:12:32 PM Trust our Peo www.energyla



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ANALYTICAL SUMMARY REPORT

June 30, 2022

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

Work Order: G22060372

Project Name: 2206941

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 6/21/2022 for analysis.

Lab ID	Client Sample ID	Collect Date Red	ceive Date	Matrix	Test
G22060372-001	2206941-001B; Influent 06-16-22	06/16/22 13:10	06/21/22	Gas	Air Correction Calculations Analysis Corrections 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., 400 W. Boxelder Rd., Gillette, WY 82718, 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.

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

Report Approved By:

Received by OCD: 7/ ENERGY LABORATORIES		Page 25 of 32 Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711
CLIENT:	Hall Environmental	
Project:	2206941	Report Date: 06/30/22
Work Order:	G22060372	CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

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LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Project: Client Sample ID: Location: Lab ID: Analyses	Hall Environmental 2206941 2206941-001B; Influent 06-16-22 G22060372-001	Result Units	Report Date:06/30/22Collection Date:06/16/22 13:10Date Received:06/21/22Sampled By:Not ProvidedQualifier MethodAnalysis Date / By
GAS CHROMATOG	RAPHIC ANALYSIS REPORT		
Oxygen		21.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Nitrogen		77.99 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Carbon Dioxide		0.82 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Hydrogen Sulfide		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Methane		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Ethane		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Propane		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Isobutane		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
n-Butane		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Isopentane		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
n-Pentane		<0.01 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
Hexanes plus		0.19 Mol %	GPA 2261- 06/27/22 13:14 / eli-b
GPM @ STD COND	0/1000 CU.FT., MOISTURE FREE GAS		
Propane		< 0.001 gpm	GPA 2261- 06/27/22 13:14 / eli-b
Isobutane		< 0.001 gpm	GPA 2261- 06/27/22 13:14 / eli-b
n-Butane		< 0.001 gpm	GPA 2261- 06/27/22 13:14 / eli-b
Isopentane		< 0.001 gpm	GPA 2261- 06/27/22 13:14 / eli-b
n-Pentane		< 0.001 gpm	GPA 2261- 06/27/22 13:14 / eli-b
Hexanes plus		0.080 gpm	GPA 2261- 06/27/22 13:14 / eli-b
GPM Total		0.080 gpm	GPA 2261- 06/27/22 13:14 / eli-b
GPM Pentanes plus		0.080 gpm	GPA 2261- 06/27/22 13:14 / eli-b
CALCULATED PRO	DPERTIES		
Gross BTU per cu ft @	2 Std Cond. (HHV	9	GPA 2261- 06/27/22 13:14 / eli-b
Net BTU per cu ft @ s	td cond. (LHV)	8	GPA 2261- 06/27/22 13:14 / eli-b
Pseudo-critical Pressu		547	GPA 2261- 06/27/22 13:14 / eli-b
Pseudo-critical Tempe	rature, deg R	242	GPA 2261- 06/27/22 13:14 / eli-b
PHYSICAL PROPE	RTIES-CALCULATED		
Specific Gravity @ 60/	60F	1.00	D3588-81 06/27/22 13:14 / eli-b
COMMENTS			

06/27/22 13:14 / eli-b

- 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.



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QA/QC Summary Report

Prepared by Billings, MT Branch

			Prepare	d by Billings, M	I Diano					
Client:	Hall Environmental			Work Order:	G2206	60372	Repor	t Date:	06/30/22	
Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95								Batch:	R383813
Lab ID:	B22062144-001ADUP	Sample Dupli	cate			Run: GCN	GA-B_220627A		06/27	/22 09:47
Oxygen		21.1	Mol %	0.01				0.1	20	
Nitrogen		78.2	Mol %	0.01				0	20	
Carbon Die	oxide	0.74	Mol %	0.01				1.4	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	
sobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
sopentane	9	<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes p	lus	<0.01	Mol %	0.01					20	
.ab ID:	B22062161-002ADUP	Sample Dupli	cate			Run: GCN	GA-B_220627A		06/27	7/22 11:3
Dxygen		21.2	Mol %	0.01				0.1	20	
Vitrogen		77.5	Mol %	0.01				0	20	
Carbon Die	oxide	0.39	Mol %	0.01				0.0	20	
-Iydrogen 3	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	
sobutane		0.01	Mol %	0.01				67	20	R
n-Butane		0.02	Mol %	0.01				40	20	R
sopentane	9	0.04	Mol %	0.01				22	20	R
n-Pentane		0.05	Mol %	0.01				18	20	
Hexanes p	lus	0.75	Mol %	0.01				5.5	20	
_ab ID:	LCS062722	Laboratory Co	ontrol Samp	le		Run: GCN	GA-B_220627A		06/27	7/22 14:44
Oxygen		0.59	Mol %	0.01	118	70	130			
Nitrogen		6.07	Mol %	0.01	101	70	130			
Carbon Die	oxide	1.00	Mol %	0.01	101	70	130			
Methane		74.3	Mol %	0.01	99	70	130			
Ethane		6.09	Mol %	0.01	101	70	130			
Propane		5.08	Mol %	0.01	103	70	130			
sobutane		2.01	Mol %	0.01	100	70	130			
n-Butane		2.01	Mol %	0.01	100	70	130			
sopentane	9	1.02	Mol %	0.01	102	70	130			
n-Pentane		1.01	Mol %	0.01	101	70	130			
Hexanes p	lus	0.78	Mol %	0.01	98	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

R - Relative Percent Difference (RPD) exceeds advisory limit

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Work Order Receipt Checklist

Hall Environmental

G22060372

Login completed by:	Jill S. Jeffress		Date I	Received: 6/21/2022		
Reviewed by:	Received by: jsj					
Reviewed Date:	6/23/2022		Carr	ier name: FedEx		
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present		
Custody seals intact on all s	hipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present		
Custody seals intact on all s	ample bottles?	Yes	No 🗌	Not Present		
Chain of custody present?		Yes 🗹	No 🗌			
Chain of custody signed wh	en relinquished and received?	Yes 🗹	No 🗌			
Chain of custody agrees wit	h sample labels?	Yes 🗹	No 🗌			
Samples in proper contained	r/bottle?	Yes 🗹	No 🗌			
Sample containers intact?		Yes 🗹	No 🗌			
Sufficient sample volume fo	r indicated test?	Yes 🗹	No 🗌			
All samples received within (Exclude analyses that are of such as pH, DO, Res Cl, St	considered field parameters	Yes 🗹	No 🗌			
Temp Blank received in all s	shipping container(s)/cooler(s)?	Yes	No 🗌	Not Applicable		
Container/Temp Blank temp	erature:	°C				
Containers requiring zero he bubble that is <6mm (1/4").	eadspace have no headspace or	Yes	No 🗌	No VOA vials submitted		
Water - pH acceptable upor	n 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.

Contact and Corrective Action Comments:

None

ANALYSIS	HALL
LABORATORY	ENVIRONMENTAL

Website: www.hallenvironmental.com

SUB CONTRATOR: Energy Labs-Gillette COMPANY: Energy	Energy Laboratories	es	PHONE:	(866) 686-7175 FAX:	
ADDRESS: 400 W Boxelder Rd			ACCOUNT #:	EMAIL:	
CITY, STATE, ZIP. Gillette, WY 82718					
ITEM SAMPLE CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	ANALYTICAL COMMENTS	OMMENTS
1 2206941-001B Influent 06-16-22	TEDLAR	Air 6	/16/2022 1:10:00 PM	TEDLAR Air 6/16/2022 1:10:00 PM 1 Natural Gas 02. CO2	

622040372

Inc

Time

7:46 AM

6

1 Pate

□ HARDCOPY (extra cost)

REPORT TRANSMITTAL DESIRED

EMAIL

ONLINE

FOR LAB USE ONLY

đ

Attempt to Cool ?

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you

Relinquished By: Relinquished By: Relinquished By:

Date: 6/17/2022 Date: Date:

Time:

Received By

Date

Time:

TAT:

Standard 🗭

RUSH

Next BD

2nd BD

3rd BD

Comments

Temp of samples

ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labo 4901 Hawki Albuquerque, NM o 3975 FAX: 505-345 w.hallenvironmenta	ns NE 87109 Sar -4107	Pa	ige 30
Client Name: Hilcorp Energy	Work Order Num	ber: 2206941		RcptNo: 1	
Received By: Juan Rojas	6/17/2022 7:00:00	АМ	Hunnen g		
Completed By: Cheyenne Cason	6/17/2022 7:43:34	AM	Cland		
Reviewed By: JN-6/17/22			0,000		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In		_			
3. Was an attempt made to cool the sample	s?	Yes 🗌	No	NA 🗹	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes	No 🗌	NA 🔽	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🖌	No 🗌		
8. Was preservative added to bottles?		Yes	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <	/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received bro	ken?	Yes	No 🗸	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	bottles checked for pH: (<2.or >12 unless noted	43
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	•)
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No 🗌	Checked by: CMC 6/17/2	r
Special Handling (if applicable)					
15. Was client notified of all discrepancies wit	h this order?	Yes 🗌	No 🗌	NA 🔽	
Person Notified:	Date:	[
By Whom:	Via:	eMail 🗌 P	hone 🗌 Fax	In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 NA Good Y	es		-,		

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Page 1 of 1

Received by OCD: 7/12/2022 1	12:32 PM								Page 31 of 32
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request]
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HALL ENVIRONMENTA ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV) 0928		\triangle			\backslash			E ensolum. com E ensolum. com nn C ensolum. com
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HALL ANAL www.hall 4901 Hawkins NE - Tel. 505-345-3975	8081 Pesticides/8082 PCB's								S: C C C
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Client: Hilcorp Evergy Mailing Address:	email or Fax#: QA/QC Package: Standard Accreditation: DEDD (Type) Date Time	6-6-22					\mathbb{N}	ia	2 4
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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

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

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CONDITIONS

Action 124694

CONDIT	IONS
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	124694
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created	Condition	Condition
By		Date
nvelez	1. Continue with O & M schedule. 2. Submit next quarterly report by October 31, 2022.	9/7/2022