By Nelson Velez at 11:02 am, Feb 28, 2023

- 1. Continue with O & M schedule.

January 13, 2023

New Mexico Oil Conservation Division

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

Re: Fourth Quarter 2022 - 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 Fourth 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 October, November, and December 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 12volt 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.

FOURTH QUARTER 2022 ACTIVITIES

During the fourth guarter of 2022, 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 Fourth Quarter 2022 - Solar SVE System Update Bell Federal GC B#1



During the fourth 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 September 21 and December 7, 2022, approximately 824 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 1,129.7 hours, equating to a fourth quarter 2022 runtime efficiency of 137.1 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 for calculating the fourth quarter runtime efficiency.

A fourth quarter 2022 emissions sample was collected on December 7, 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 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)) by 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 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, 42,174pounds (21 tons) of TVPH have been removed by the system to date.

RECOMMENDATIONS

Bi-weekly O&M visits will continue to be performed by Ensolum and/or Hilcorp personnel to verify the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report. Hilcorp will continue operating the SVE system 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 Fourth Quarter 2022 – Solar SVE System Update Bell Federal GC B#1



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

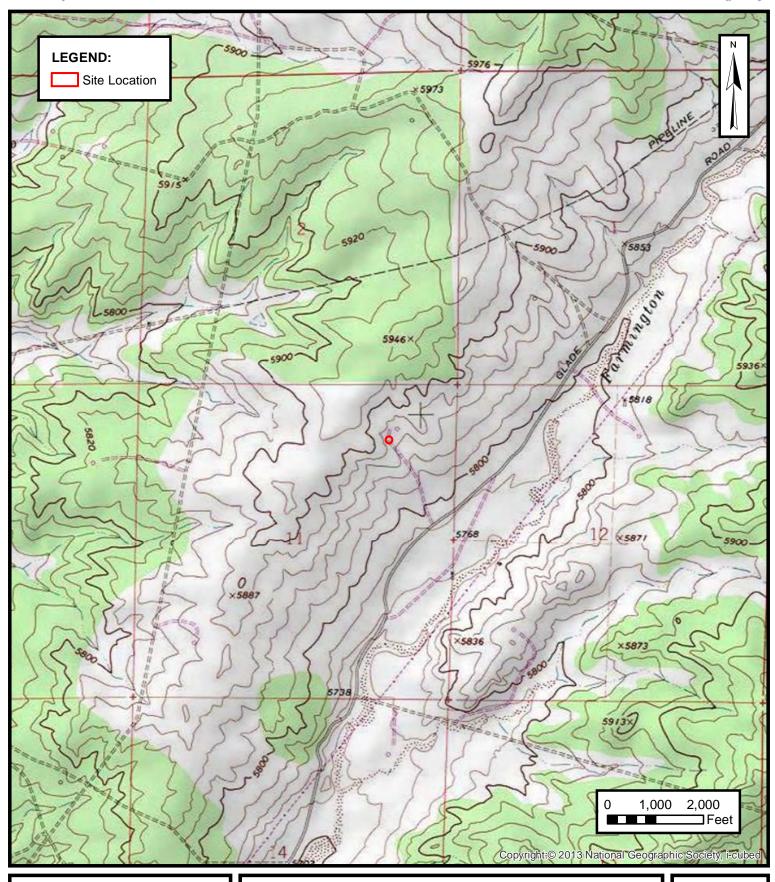
Appendix A Field Notes

Appendix B Project Photographs

Appendix C Laboratory Analytical Reports



FIGURES





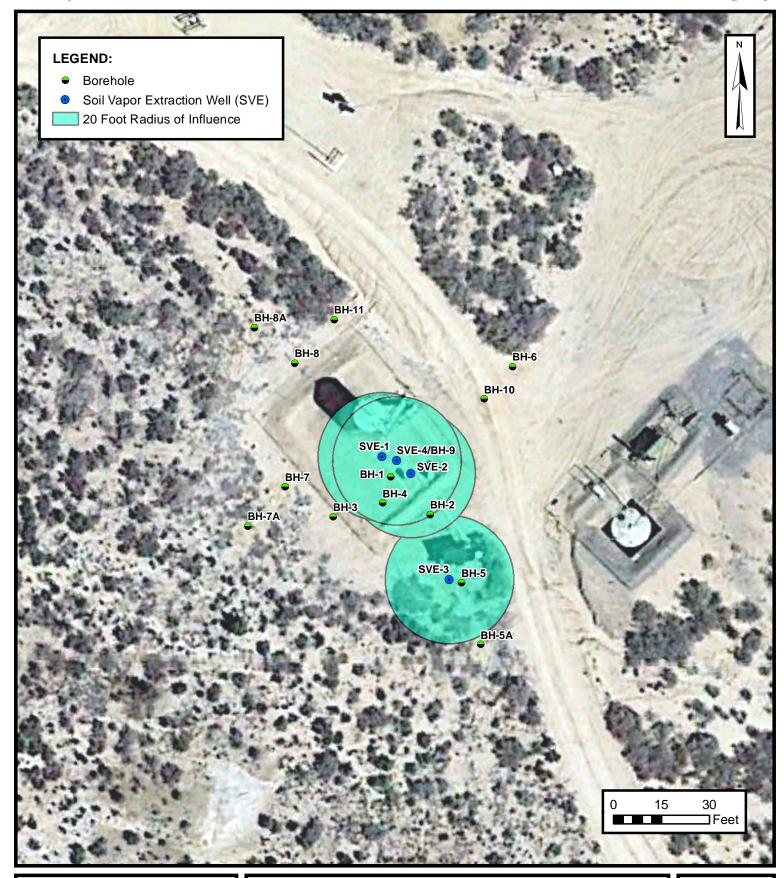
SITE LOCATION

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

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

Ensolum Project No. 07A1988001

Date	Total Operational Hours	Delta Hours	
9/21/2022	17,186.4		
12/7/2022	18,316.1	1,129.7	

Time Period	September 21 to September 30, 2022	October 1 to October 31, 2022	November 1 to November 30, 2022	December 1 to December 7, 2022
Days	10	31	30	7
Avg. Nominal Daylight Hours	12	11	10	9
Available Runtime Hours	120	341	300	63

Quarterly Available Daylight Runtime Hours Quarterly Runtime Hours Quarterly % Runtime

341

300

279

824

1,129.7

137.1%

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

10

9

31

30

31

Ensolum 1 of 1

October

November

December



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%
3/16/2022	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%
9/8/2022	545	50.2	129	4.99	612	10,500	17.7%	2.80%
12/7/2022	675	52	74	<5.00	35	13,000	17.0%	3.68%

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)

Ensolum 1 of 1



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
3/16/2022	1,096	53	120	0.50	82	26,000
6/16/2022	708	24	69	5.00	38	13,000
9/8/2022	545	50	129	4.99	612	10,500
12/7/2022	675	52	74	5.00	35	13,000
Average	1,240	134	307	13	260	22,646

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
•	•		Average	0.017	0.037	0.0015	0.030	2.7

Flow and Laboratory Analysis

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
	Total Ma	ss Recovery to Date	339	747	31	617	42,174	21

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

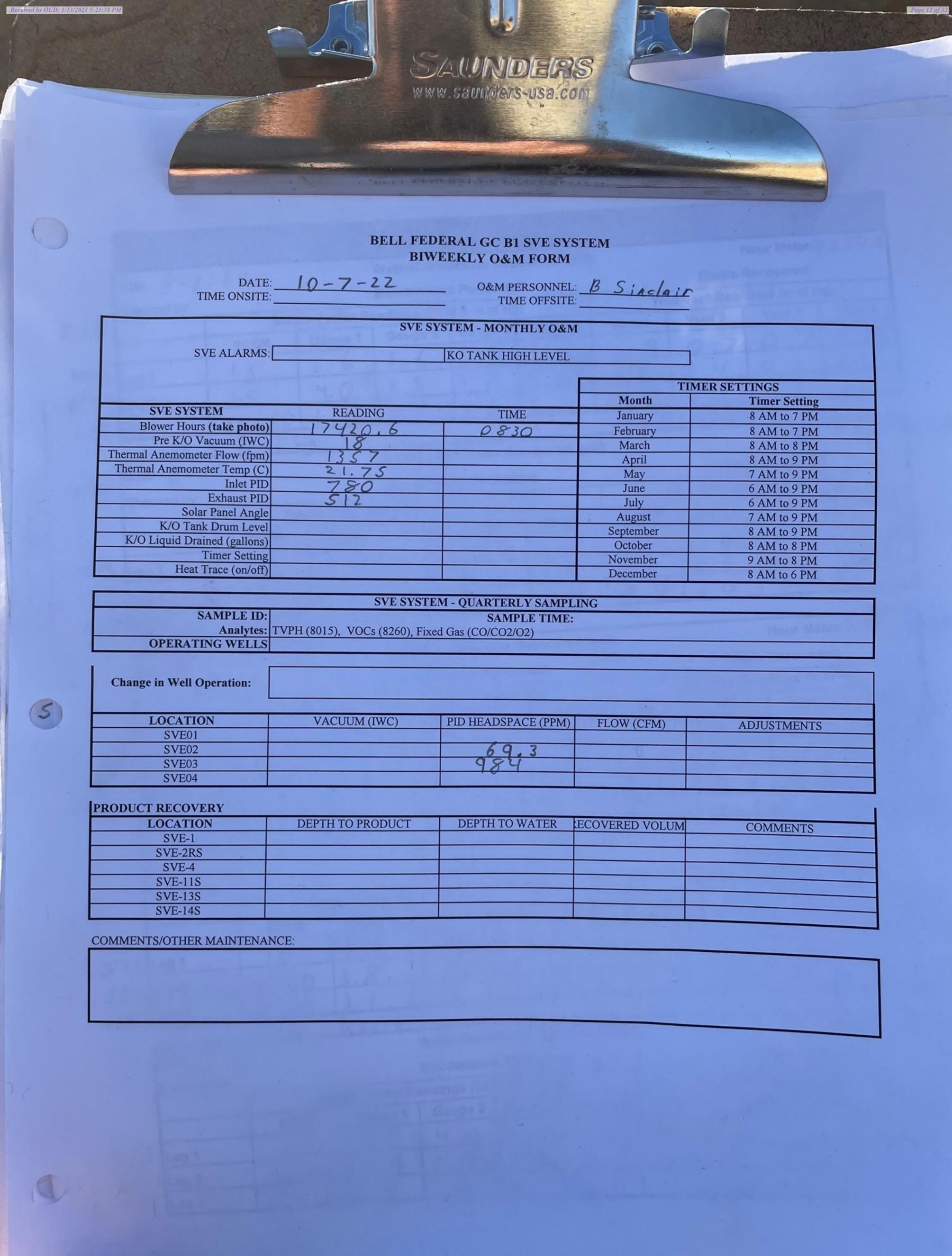
TVPH: total volatile petroleum hydrocarbons

gray: laboratory reporting limit used for calculating emissions



APPENDIX A

Field Notes



BELL FEDERAL GC B1 SVE SYSTEM BIWEEKLY O&M FORM

	OXID	OX/OMEN 5 - X-C			
	SVE	SYSTEM - MONTHLY O&N	1		
SVE ALARMS:		KO TANK HIGH LEVEL		4	
			18		
			TIMER SETTINGS		
SVE SYSTEM	READING	TDAT	Month	Timer Setting	
Blower Hours (take photo)	17614.5	TIME	January	8 AM to 7 PM	
Pre K/O Vacuum (IWC)	19	1255	February	8 AM to 7 PM	
mal Anemometer Flow (fpm)	775		March	8 AM to 8 PM	
ermal Anemometer Temp (C)	32.05		April	8 AM to 9 PM	
Inlet PID	820		May	7 AM to 9 PM	
Exhaust PID	917		June	6 AM to 9 PM	
Solar Panel Angle	010		July	6 AM to 9 PM	
K/O Tank Drum Level			August	7 AM to 9 PM	
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	
SAMPLE ID:	SVE SYST VPH (8015), VOCs (8260), F	FEM - QUARTERLY SAMPI SAMPLE TIME: ixed Gas (CO/CO2/O2)	LING	o And to o T M	
SAMPLE ID: Analytes: T		SAMPLE TIME:	LING	o And to o T M	
SAMPLE ID: Analytes: T OPERATING WELLS nange in Well Operation:	VPH (8015), VOCs (8260), F	SAMPLE TIME: ixed Gas (CO/CO2/O2)	LING		
SAMPLE ID: Analytes: T OPERATING WELLS ange in Well Operation:		SAMPLE TIME:	LING	ADJUSTMENTS	
SAMPLE ID: Analytes: T OPERATING WELLS nange in Well Operation: LOCATION SVE01	VPH (8015), VOCs (8260), F	SAMPLE TIME: ixed Gas (CO/CO2/O2) PID HEADSPACE (PPM)	LING		
SAMPLE ID: Analytes: T OPERATING WELLS ange in Well Operation: LOCATION SVE01 SVE02	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM)	LING		
SAMPLE ID: Analytes: T OPERATING WELLS nange in Well Operation: LOCATION SVE01 SVE02 SVE03	VPH (8015), VOCs (8260), F	SAMPLE TIME: ixed Gas (CO/CO2/O2) PID HEADSPACE (PPM)	LING		
SAMPLE ID: Analytes: T OPERATING WELLS nange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM)	LING		
SAMPLE ID: Analytes: T OPERATING WELLS nange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM)	LING		
SAMPLE ID: Analytes: T OPERATING WELLS ange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 DUCT RECOVERY	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM) 163 1372	FLOW (CFM)	ADJUSTMENTS	
SAMPLE ID: Analytes: T OPERATING WELLS ange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 DUCT RECOVERY LOCATION	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM) 163 1372	FLOW (CFM)	ADJUSTMENTS	
SAMPLE ID: Analytes: T OPERATING WELLS ange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 DUCT RECOVERY LOCATION SVE-1	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM) 163 1372	FLOW (CFM)	ADJUSTMENTS	
SAMPLE ID: Analytes: T OPERATING WELLS LOCATION SVE01 SVE02 SVE03 SVE04 DUCT RECOVERY LOCATION SVE-1 SVE-2RS	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM) 163 1372	FLOW (CFM)	ADJUSTMENTS	
SAMPLE ID: Analytes: T OPERATING WELLS LOCATION SVE01 SVE02 SVE03 SVE04 DUCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM) 163 1372	FLOW (CFM)	ADJUSTMENTS	
SAMPLE ID: Analytes: T OPERATING WELLS LOCATION SVE01 SVE02 SVE03 SVE04 DUCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-4 SVE-11S	VPH (8015), VOCs (8260), F	PID HEADSPACE (PPM) 163 1372	FLOW (CFM)	ADJUSTMENTS	
SAMPLE ID: Analytes: T OPERATING WELLS nange in Well Operation: LOCATION SVE01 SVE02 SVE03 SVE04 DUCT RECOVERY LOCATION SVE-1 SVE-2RS SVE-4 SVE-1S SVE-13S	VPH (8015), VOCs (8260), F VACUUM (IWC) DEPTH TO PRODUCT	PID HEADSPACE (PPM) 163 1372	FLOW (CFM)	ADJUSTMENTS	

BELL FEDERAL GC B1 SVE SYSTEM BIWEEKLY O&M FORM

SVE SYSTEM - MONTHLY O&M

CHARLES TO THE WAR WAR TO THE THE THE THE THE THE

DATE: 11-3-22	O&M PERSONNEL: B	Sinclair
TIME ONSITE:	TIME OFFSITE:	1010141

SVE ALARMS:		KO TANK HIGH LEVE	L	
			TI	MER SETTINGS
CVE CVCTDA			Month	Timer Setting
SVE SYSTEM	READING	TIME	January	8 AM to 7 PM
Blower Hours (take photo)	178.26,6	1034	February	8 AM to 7 PM
Pre K/O Vacuum (IWC)	19		March	8 AM to 8 PM
Thermal Anemometer Flow (fpm)	776	The second second	April	8 AM to 9 PM
Thermal Anemometer Temp (C)	14.35		May	7 AM to 9 PM
Inlet PID	916		June	6 AM to 9 PM
Exhaust PID	937		July	
Solar Panel Angle	CARL AND			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

SVE SYSTEM - QUARTERLY SAM	IPLING
SAMPLE ID: SAMPLE TIM	IE:
Analytes: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	
OPERATING WELLS	

November

December

9 AM to 8 PM

8 AM to 6 PM

Change in Well Operation:

LOCATION VACUUM (IWC) PID HEADSPACE (PPM) FLOW (CFM) **ADJUSTMENTS** SVE01 SVE02 SVE03 SVE04

PRODUCT RECOVERY

Released to Imaging: 2/28/2023 12:22:12 P.

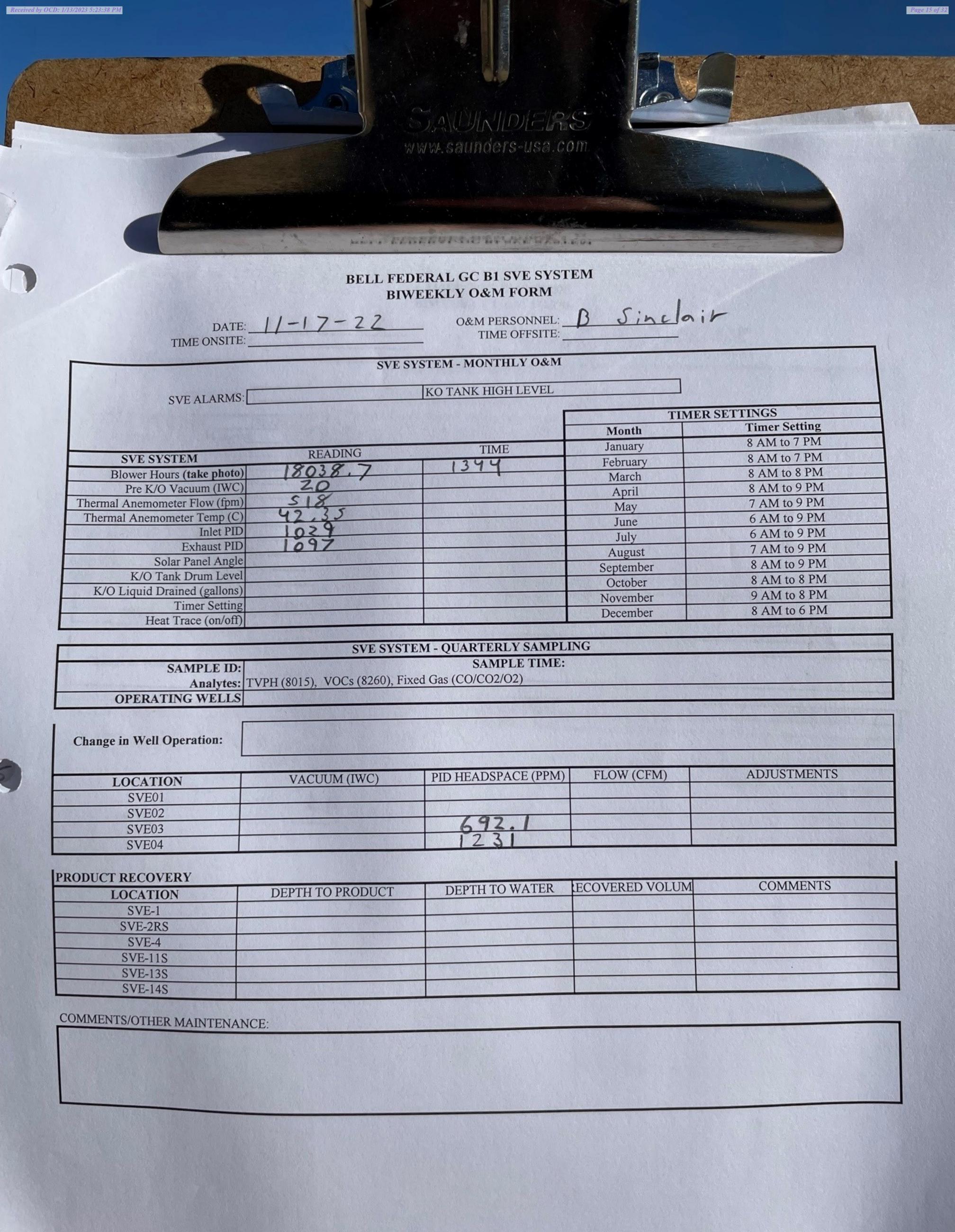
LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	ECOVERED VOLUM	COMMENTS
SVE-1		I BOND SELECTION OF THE PARTY O	B BERKELING AND BOOK	LAVIS
SVE-2RS				
SVE-4			THE SELECTION OF S	
SVE-11S			THE STATE OF THE S	
SVE-13S				
SVE-14S				

COMMENTS/OTHER MAINTENANCE:

Heat Trace (on/off)

SVE-3 DTP: 43.66 DTW:? issue getting tone

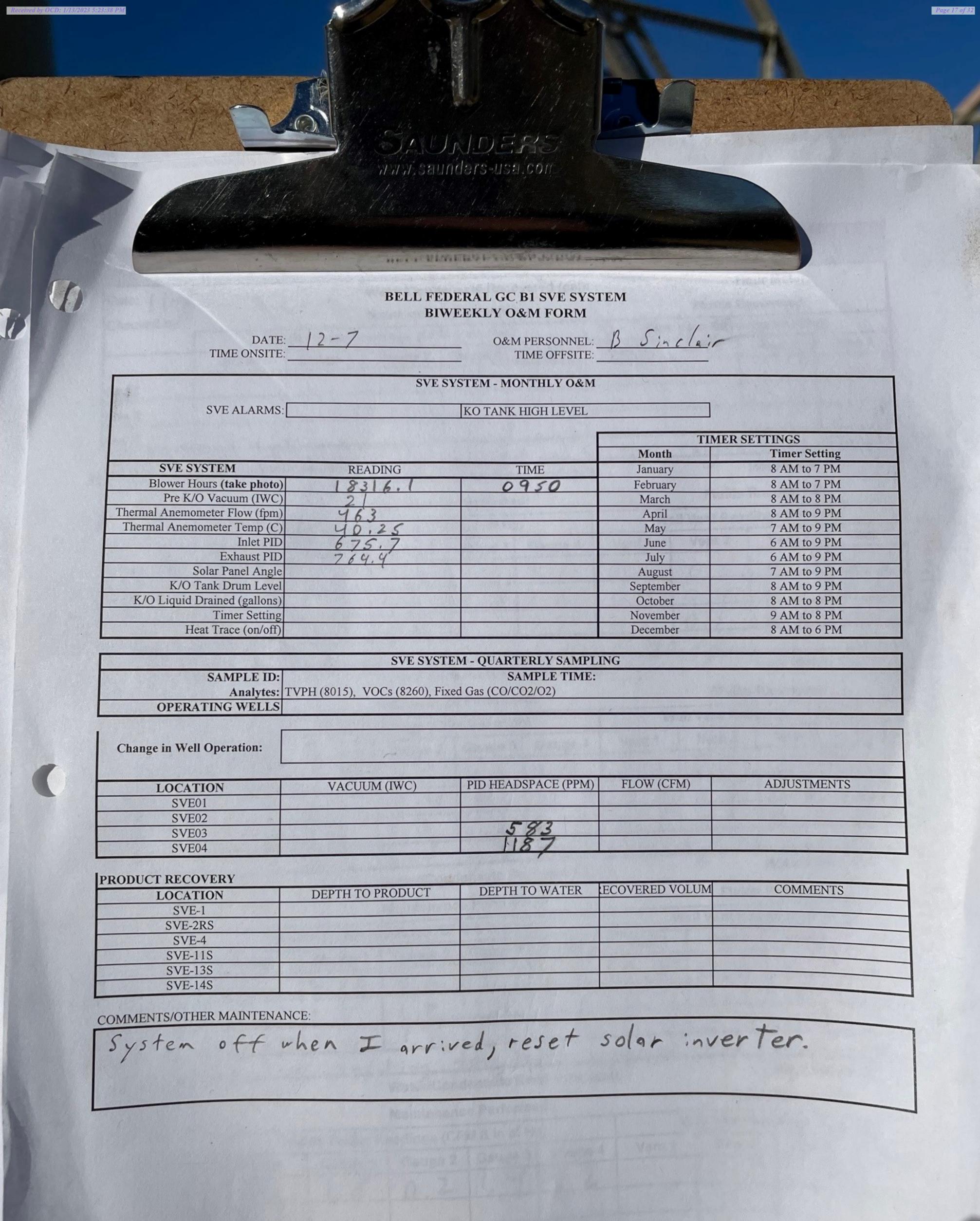
bailed ~ 1.359, replaced bailer, purple fluid
rain & small hail today

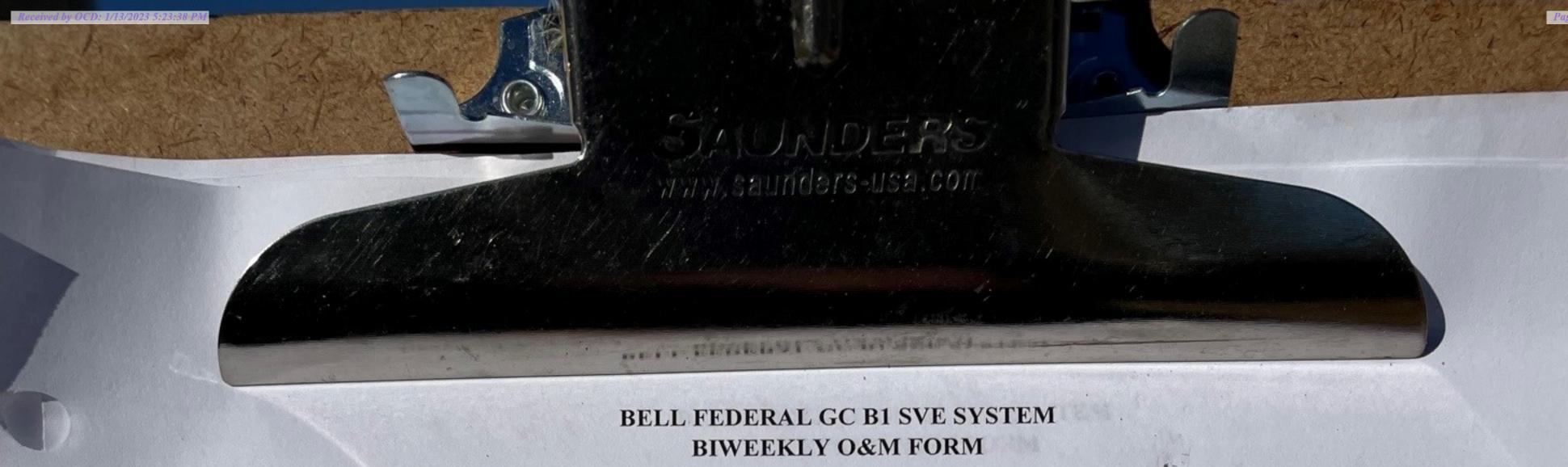


Released to Imaging: 2/28/2023 12:22:12 PM

Location Scott LIM, Bell Falen Date 11/29-22 coldider ZM, TRD + tools Onste at Scott @ 12:45 -SVE system offline -drained ~25 sallows out of knock out tank removal housing from motor to very that it moves. - removed large chunk of ice from horzartal Filter, removed top of knock at tank to find shit off floot Prozen in postion. freal it up and system turned on -drained SVE hoses into system 5,5tome 7838.3 hours leaving @ 2:10 Onsite@ Bell Federal @ 2:50 to check SVE times
-adjusted time settings for December, 8an-6pm
-adjusted current fine of day

System @ 18243.0 hours Offste @ 3:05





DATE:	12-24	O&M PERSONNEL: B Sinclair TIME OFFSITE:

	SVE S	YSTEM - MONTHLY O&	M	
SVE ALARMS:		KO TANK HIGH LEVEL		
			~	
			TIM	ER SETTINGS
			Month	Timer Setting
SVE SYSTEM	READING	TIME	January	8 AM to 7 PM
Blower Hours (take photo)	18553.1	1426	February	8 AM to 7 PM
Pre K/O Vacuum (IWC)	27		March	8 AM to 8 PM
Thermal Anemometer Flow (fpm)	455		April	8 AM to 9 PM
Thermal Anemometer Temp (C)	39.85		May	7 AM to 9 PM
Inlet PID	830.7		June	6 AM to 9 PM
Exhaust PID	871.1	M. BANGE SALES AND A STATE OF THE SALES	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
Heat Trace (on/off)		ES MANUEL STORY	December	8 AM to 6 PM

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

Change in Well Operation:

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	FLOW (CFM)	ADJUSTMENTS
SVE01				
SVE02				
SVE03		567		
SVE04		(137	经 国产的特别的	

LOCATION LOCATION	DEPTH TO PRODUCT	DEPTH TO WATER	ECOVERED VOLUM	COMMENTS
SVE-1	M Carlo Art Work State Co. M.			
SVE-2RS				
SVE-4				
SVE-11S				
SVE-13S				
SVE-14S	The state of the s	B CANCEL CONTRACTOR	The state of the s	

COMMENTS/OTHER MAINTENANCE:

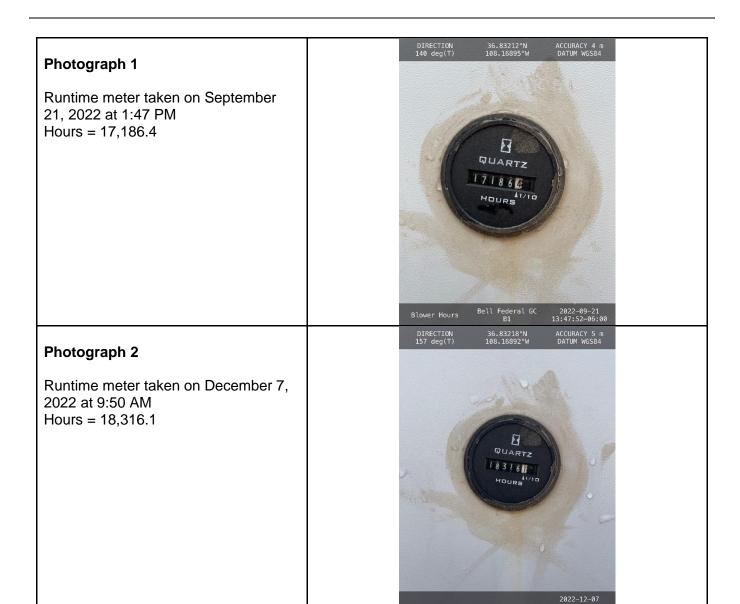


APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

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





APPENDIX C

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 20, 2022

Mitch Killough Hilcorp Energy PO Box 61529 Houston, TX 77208-1529

TEL: (337) 276-7676

FAX:

RE: Bell Fed GC B1 OrderNo.: 2212575

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/9/2022 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 Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2212575

Date Reported: 12/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Hilcorp Energy Client Sample ID: SVE-1

 Project:
 Bell Fed GC B1
 Collection Date: 12/7/2022 10:00:00 AM

 Lab ID:
 2212575-001
 Matrix: AIR
 Received Date: 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	13000	100	μg/L	20	12/15/2022 4:58:00 PM	R93346
Surr: BFB	93.6	70-130	%Rec	20	12/15/2022 4:58:00 PM	R93346
EPA METHOD 8260B: VOLATILES					Analyst	ССМ
Benzene	52	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Toluene	74	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Ethylbenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Methyl tert-butyl ether (MTBE)	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2,4-Trimethylbenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,3,5-Trimethylbenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2-Dichloroethane (EDC)	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2-Dibromoethane (EDB)	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Naphthalene	ND	4.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1-Methylnaphthalene	ND	8.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
2-Methylnaphthalene	ND	8.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Acetone	ND	20	μg/L	20	12/15/2022 4:58:00 PM	R93346
Bromobenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Bromodichloromethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Bromoform	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Bromomethane	ND	4.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
2-Butanone	ND	20	μg/L	20	12/15/2022 4:58:00 PM	R93346
Carbon disulfide	ND	20	μg/L	20	12/15/2022 4:58:00 PM	R93346
Carbon tetrachloride	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Chlorobenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Chloroethane	ND	4.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Chloroform	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Chloromethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
2-Chlorotoluene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
4-Chlorotoluene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
cis-1,2-DCE	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
cis-1,3-Dichloropropene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2-Dibromo-3-chloropropane	ND	4.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Dibromochloromethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Dibromomethane	ND	4.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2-Dichlorobenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,3-Dichlorobenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,4-Dichlorobenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Dichlorodifluoromethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,1-Dichloroethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,1-Dichloroethene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

Analytical Report

Lab Order 2212575

Date Reported: 12/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Hilcorp Energy Client Sample ID: SVE-1

 Project:
 Bell Fed GC B1
 Collection Date: 12/7/2022 10:00:00 AM

 Lab ID:
 2212575-001
 Matrix: AIR
 Received Date: 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	ССМ
1,2-Dichloropropane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,3-Dichloropropane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
2,2-Dichloropropane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,1-Dichloropropene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Hexachlorobutadiene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
2-Hexanone	ND	20	μg/L	20	12/15/2022 4:58:00 PM	R93346
Isopropylbenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
4-Isopropyltoluene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
4-Methyl-2-pentanone	ND	20	μg/L	20	12/15/2022 4:58:00 PM	R93346
Methylene chloride	ND	6.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
n-Butylbenzene	ND	6.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
n-Propylbenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
sec-Butylbenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Styrene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
tert-Butylbenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,1,1,2-Tetrachloroethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Tetrachloroethene (PCE)	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
trans-1,2-DCE	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
trans-1,3-Dichloropropene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2,3-Trichlorobenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2,4-Trichlorobenzene	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,1,1-Trichloroethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,1,2-Trichloroethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Trichloroethene (TCE)	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Trichlorofluoromethane	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
1,2,3-Trichloropropane	ND	4.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Vinyl chloride	ND	2.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Xylenes, Total	35	3.0	μg/L	20	12/15/2022 4:58:00 PM	R93346
Surr: Dibromofluoromethane	87.2	70-130	%Rec	20	12/15/2022 4:58:00 PM	R93346
Surr: 1,2-Dichloroethane-d4	73.2	70-130	%Rec	20	12/15/2022 4:58:00 PM	R93346
Surr: Toluene-d8	109	70-130	%Rec	20	12/15/2022 4:58:00 PM	R93346
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	20	12/15/2022 4:58:00 PM	R93346

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2

ANALYTICAL SUMMARY REPORT

December 15, 2022

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

Work Order:

B22120990

Quote ID: B15626

Project Name:

Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 12/13/2022 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B22120990-001	2212575-001B, SVE-1	12/07/22 10:00 12/13/22	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 S 27th St., 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.

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

Report Approved By:

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental **Report Date: 12/15/22** Project: Not Indicated Collection Date: 12/07/22 10:00 DateReceived: 12/13/22 Lab ID: B22120990-001 Client Sample ID: 2212575-001B, SVE-1 Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	16.98	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Nitrogen	79.34	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Carbon Dioxide	3.68	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
n-Pentane		Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-95	12/14/22 12:23 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-95	12/14/22 12:23 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-95	12/14/22 12:23 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-95	12/14/22 12:23 / jrj
Pseudo-critical Pressure, psia	554			1		GPA 2261-95	12/14/22 12:23 / jrj
Pseudo-critical Temperature, deg R	248			1		GPA 2261-95	12/14/22 12:23 / jrj
Specific Gravity @ 60/60F	1.01			0.001		D3588-81	12/14/22 12:23 / jrj
Air, % - The analysis was not corrected for air.	77.60			0.01		GPA 2261-95	12/14/22 12:23 / jrj
COMMENTS							

COMMENTS

RL - Analyte Reporting Limit Report MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

12/14/22 12:23 / jrj

⁻ BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.

⁻ GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

⁻ Standard conditions: 60 F & 14.73 psi on a dry basis.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Hall Environmental Work Order: B22120990 Report Date: 12/15/22

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R393749
Lab ID:	B22120988-001ADUP	12 Sa	mple Duplic	ate			Run: GCNG	A-B_221214A		12/14/	22 11:20
Oxygen			21.9	Mol %	0.01				0.0	20	
Nitrogen			78.0	Mol %	0.01				0	20	
Carbon Did	oxide		0.05	Mol %	0.01				0.0	20	
Hydrogen S	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 p	lus		<0.01	Mol %	0.01					20	
Lab ID:	LCS121422	11 Lal	ooratory Co	ntrol Sample			Run: GCNG	A-B_221214A		12/14/	22 16:12
Oxygen			0.59	Mol %	0.01	118	70	130			
Nitrogen			5.97	Mol %	0.01	99	70	130			
Carbon Did	oxide		1.00	Mol %	0.01	101	70	130			
Methane			74.6	Mol %	0.01	100	70	130			
Ethane			6.04	Mol %	0.01	101	70	130			
Propane			5.01	Mol %	0.01	101	70	130			
Isobutane			2.00	Mol %	0.01	100	70	130			
n-Butane			1.99	Mol %	0.01	99	70	130			
Isopentane	•		1.01	Mol %	0.01	101	70	130			
n-Pentane			1.01	Mol %	0.01	101	70	130			
Hexanes p	lus		0.83	Mol %	0.01	104	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

Work Order Receipt Checklist

Hall Environmental B22120990

Login completed by: Leslie S. Cadreau		Date F	Received: 12/13/2022
Reviewed by:		Rec	eived by: slm1
Reviewed Date:		Carri	ier name: UPS
Shipping container/cooler in good condition?	Yes ✓	No 🗌	Not Present
Custody seals intact on all shipping container(s)/cooler(s)?	Yes 🗸	No 🗌	Not Present
Custody seals intact on all sample bottles?	Yes	No 🗌	Not Present 🗸
Chain of custody present?	Yes √	No 🗌	
Chain of custody signed when relinquished and received?	Yes √	No 🗌	
Chain of custody agrees with sample labels?	Yes √	No 🗌	
Samples in proper container/bottle?	Yes ✓	No 🗌	
Sample containers intact?	Yes 🗸	No 🗌	
Sufficient sample volume for indicated test?	Yes ✓	No 🗌	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res CI, Sulfite, Ferrous Iron, etc.)	Yes ✓	No 🗌	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temperature:	13.2°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon receipt?	Yes	No 🗌	Not Applicable 🗹

Standard Reporting Procedures:

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

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

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

Contact and Corrective Action Comments:

None

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com	(406) 869-6253 FAX: (406) 252-6069	EMAIL:		ANALYTICAL COMMENTS	Natural Gases 02 &	
OF CUSTODY RECORD PAGE: 1	PHONE	ACCOUNT #.		COLLECTION		12/1/2022 10:00:01
STODY F	ories					Air
CHAIN OF CU	Energy Laboratories	in the second se		BOTTLE	TYPE	TEDLAR
TAL	COMPANY:		, MT 59107		CLIENT SAMPLE ID	SVE-1
HALL ENVIRONMENTAL ANALYSIS LABORATORY	TRATOR :	s 1120 So	CITY, STATE, ZIP. Billings, MT 59107		SAMPLE	2212575-001B SVE-1
	SOJ BILD	ADDRESS	CITY, ST		ITEM	ī

Received By: Re	Date: Time: 8:22 AM Date: Time: Bate: Bat
--	--

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 2/28/2023 12:22:12 PM

	Website: www.hallenvi	ronmeniai.com		
Client Name: Hilcorp Energy We	ork Order Number: 221	2575	RcptNo	: 1
Received By: Tracy Casarrubias 12/9/	/2022 7:35:00 AM			
•	/2022 8:18:40 AM			
Reviewed By: // 12-9-zz	2022 0.10.40 / un			
Chain of Custody			_	
1. Is Chain of Custody complete?	Yes	No [Not Present	
2. How was the sample delivered?	Cou	<u>ırier</u>		
Log In 3. Was an attempt made to cool the samples?	Yes	, ✓ No [□ NA □	
4. Were all samples received at a temperature of >0°	C to 6.0°C Yes	, No [□ NA 🗹	
5. Sample(s) in proper container(s)?		. ✓ No [
6. Sufficient sample volume for indicated test(s)?	Yes	✓ No []	
7. Are samples (except VOA and ONG) properly prese	erved? Yes	✓ No [
8. Was preservative added to bottles?	Yes		Ø NA □	
9. Received at least 1 vial with headspace <1/4" for Ar	Q VOA? Yes	□ No □	NA ☑	
10, Were any sample containers received broken?	Yes	, No b	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	☑ No □	for pH:	or >12 unless noted)
12. Are matrices correctly identified on Chain of Custoo	ly? Yes	✓ No [Adjusted?	
13. Is it clear what analyses were requested?	Yes	☑ No [w l . l .
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	✓ No [Checked by:	11/2/9/2
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this ord	ier? Yes	s No [□ NA ☑	_
Person Notified:	Date:			
By Whom:	── Via: ☐ eM	fail 🗌 Phone 📗 F	ax 🔲 In Person	
Regarding:				
Client Instructions:		8 5		
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C Condition Seal Inta	act Seal No Seal D	Date Signed By	1	
1 NA Good Yes	***			

Chain-of-Custody Record	l urn-Around Time:	INTENTAL ENVIRONMENTAL
Client: H: 1000	✓ Standard □ Rush	ANAI YSTS I ABORATORY
		www.hallenvironmental.com
Mailing Address:	Bell Fed GC BI	4901 Hawkins NE - Albuquerque, NM 87109
	-11:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Analysis Request
email or Fax#: brandon. Sinclair Chilcorp. com	Project Manager:	SO ₄
QA/QC Package:		SPISE (A)
☐ Standard ☐ Level 4 (Full Validation)	1	OF (2)
:uc	Sampler: Brandon Singlair	(1.1) (1.1) (1.1)
□ NELAC □ Other	On ice: Yes CN No	OS 800- 800 (P
□ EDD (Type)		od (Gl) 310 310 310 310 310 310 310 310 310 310
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	Preservative	TEX / DB (N DB (N
Date Time Matrix Sample Name	S	11. 1. 1. 1. 1. 1. 1. 1.
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Released to Imaging: 2/28/2023 12:22:12 PM

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

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 176023

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	176023
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	1. Continue with O & M schedule. 2. Submit next quarterly report by May 1, 2023.	2/28/2023