NV



July 12, 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: Second Quarter 2023 – SVE System Update

San Juan 28-6 #31 Rio Arriba County, New Mexico Hilcorp Energy Company

NMOCD Incident Number: NVF1816655680

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Second Quarter* 2023 – *SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the San Juan 28-6 #31 natural gas production well (Site) located in Unit M, Section 28, Township 28 North, Range 6 West in Rio Arriba County, New Mexico (Figure 1). Specifically, this report summarizes Site activities performed in April, May, and June of 2023 to the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

The current SVE system consists of a three-phase, 3 horsepower (HP) Ametek Rotron Model EN656 regenerative blower capable of producing 100 standard cubic feet per minute (scfm) of flow and 50 inches of water column (IWC). In total, 19 SVE wells are installed at the site at varying depth intervals in order to induce air flow through the impacted zones in the subsurface. SVE well locations are presented on Figure 2. Additionally, the power for the SVE system was converted from generator to a permanent power drop on April 20, 2022. Specifically, the voltage capacity of the power drop at the Site was increased in order to run the SVE system and negate the need for a generator to power the system. This was determined to be necessary based on reliability issues with the generators used at the Site.

SECOND QUARTER 2023 ACTIVITIES

During the second quarter of 2023, Ensolum and Hilcorp personnel performed bi-weekly operation and maintenance (O&M) visits to ensure the system was operating as designed and to perform any required maintenance. Field notes taken during O&M visits are presented in Appendix A. Between March 8 and June 22, 2023, the SVE system operated for 2,533 hours for a runtime efficiency of 99.6 percent (%). Table 1 presents the SVE system operational hours and percent runtime. Appendix B presents photographs of the runtime meter for calculating the second quarter runtime efficiency. During the second quarter 2023, all zones were operating with 15 of the 20 wells operational. SVE wells SVE-6, SVE-7S, SVE-7D, SVE-9, and SVE-15 have been turned off based on the low photoionization detector (PID) readings collected during previous sampling events and in order to achieve higher flow and vacuum rates in the other operating wells.

An air sample for the second quarter 2023 was collected on June 22, 2023. The second quarter 2023 emissions sample was collected from the sample port located between the SVE piping manifold

Hilcorp Energy Company Second Quarter 2023 – SVE System Update San Juan 28-6 #31



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

Emission sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE systems (Table 3). Based on these estimates, a total of 20,343 pounds (10.2 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 ensure 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 emissions 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

(970) 903-1607 shyde@ensolum.com Daniel R. Moir, MS, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

Figure 1 Site Location

Figure 2 SVE System Configuration

Table 1 Soil Vapor Extraction System Runtime Calculations
Table 2 Soil Vapor Extraction System Air Analytical Results

Table 3 Soil Vapor Extraction System Mass Removal and Emissions

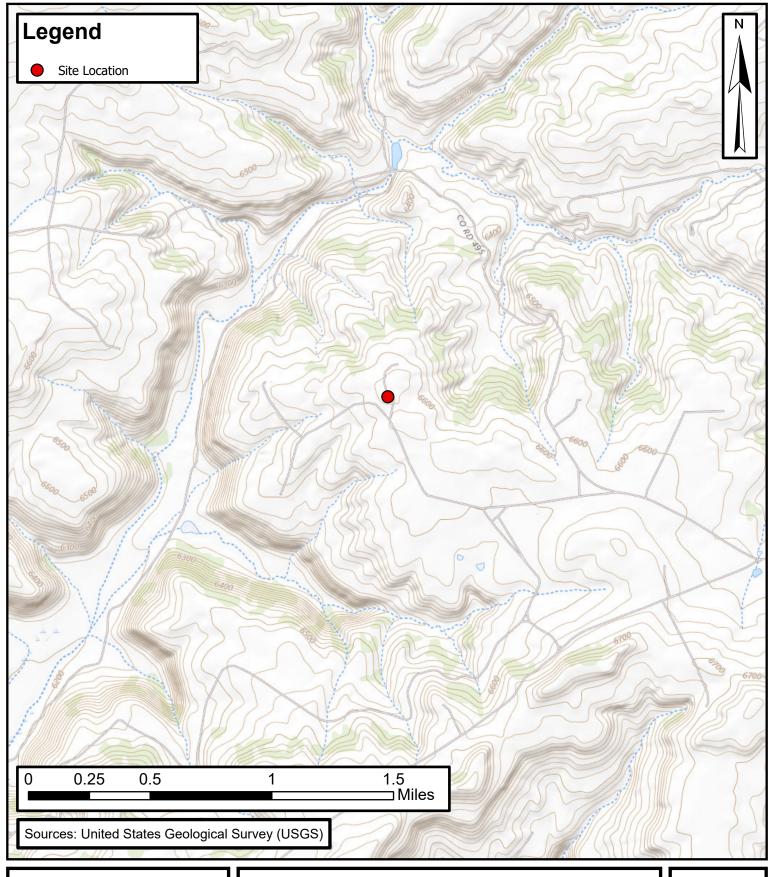
Appendix A Field Notes

Appendix B Project Photographs

Appendix C Laboratory Analytical Reports



FIGURES

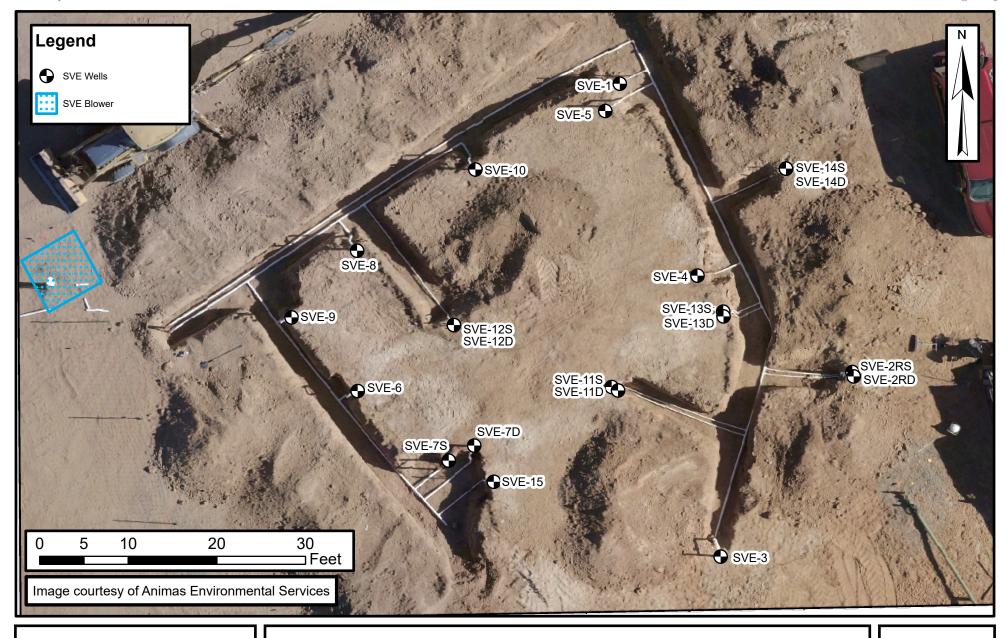




Site Location Map

San Juan 28-6 #31 Hilcorp Energy Company 36.6277°N, -107.4781°W Rio Arriba County, NM **FIGURE**

1





SVE System Configuration

San Juan 28-6 #31 Hilcorp Energy Company 36.6277° N, -107.4781° W Rio Arriba County, NM FIGURE 2



TABLES



TABLE 1 SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

San Juan 28-6 #31 Hilcorp Energy Company Rio Arriba County, New Mexico

Date	SVE Runtime Hours	Delta Hours	Days	% Runtime
3/8/2023	9,471		-	
6/22/2023	12,004	2,533	106	99.6%

Ensolum 1 of 1



TABLE 2 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS San Juan 28-6 #31 Hilcorp Energy Company Rio Arriba County, New Mexico

Date	Sample Identification	Operating SVE Zones	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH/GRO (μg/L)	Oxygen (%)	Carbon Dioxide (%)
9/20/2021	Pilot Test	All Zones	1,287	720	1,600	15	320	250,000	17.87%	2.05%
9/28/2021	Influent A+B	All Zones	736	240	720	27	350	53,000		
10/21/2021	Influent A+B	All Zones	615	60	170	6.7	74	13,000		
11/5/2021	Leg A Deep	Leg A Deep	1,177	620	1,700	29	390	72,000		
12/16/2021	Leg A Deep	Leg A Deep	1,398	470	950	11	190	96,000	21.00%	0.83%
12/16/2021	Leg A Shallow	Leg A Shallow	298	10	32	1.1	19	2,300	22.00%	0.12%
1/6/2022	Leg A Shallow	Leg A Shallow	283	12	34	1.2	15	2,500	22.13%	0.13%
1/6/2022	Leg B-1	Leg B-1	158	2.3	10	<0.50	6.7	1,100	21.97%	0.10%
3/24/2022	Influent All Wells	All Zones	604	48	92	1.2	19	6,300	22.10%	0.18%
6/13/2022	Influent All Wells	All Zones	414	30	89	<2.0	29	4,600	21.57%	0.25%
9/30/2022	Influent 9-30	All Zones	410	19	65	2.1	26	3,700	21.57%	0.28%
12/6/2022	SVE-1	All Zones	284	85	220	<5.0	58	22,000	21.69%	0.23%
3/8/2023	SVE-1	All Zones	381	13	54	<5.0	16	52	21.66%	0.19%
6/22/2023	SVE-1	All Zones	356	8.4	39	1.2	17	3,000	21.66%	0.20%

Notes:

GRO: gasoline range hydrocarbons

μg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

--: not sampled/analyzed

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



TABLE 3

SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS

San Juan 28-6 #31 Hilcorp Energy Company Rio Arriba County, New Mexico

Flow and Laboratory Analysis

Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)
9/28/2021	736	240	720	27	350	53,000
10/21/2021	615	60	170	6.7	74	13,000
11/5/2021	1,177	620	1,700	29	390	72,000
12/16/2021	298	10	32	1.1	19	2,300
1/6/2022	158	2.3	10	0.50	6.7	1,100
3/24/2022	604	48	92	1.2	19	6,300
6/13/2022	414	30	89	2.0	29	4,600
9/30/2022 (1)	410	19	65	2.1	26	3,700
12/6/2022	284	85	220	5.0	58	22,000
3/8/2023	381	13	54	5.0	16	52
6/22/2023	356	8.4	39	1.2	17	3,000
Average	494	103	290	7.3	91	16,459

Vapor Extraction Summary

Tapo. Example: Calling St.								
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)
9/28/2021	60	17,280	17,280	0.054	0.16	0.0061	0.079	12
10/21/2021	50	1,648,680	1,631,400	0.028	0.083	0.0032	0.040	6.2
11/5/2021	8	1,864,392	215,712	0.010	0.028	0.00053	0.0069	1.3
12/16/2021	12	2,496,696	632,304	0.014	0.039	0.00068	0.0092	1.7
1/6/2022	32	3,352,056	855,360	0.00072	0.0025	0.000096	0.0015	0.20
3/24/2022	12	4,610,688	1,258,632	0.0011	0.0023	0.000038	0.00058	0.17
6/13/2022	61	11,659,482	7,048,794	0.0089	0.021	0.00037	0.0055	1.2
9/19/2022 (1)	52	18,819,882	7,160,400	0.0048	0.015	0.00040	0.0053	0.81
12/6/2022	55	24,971,082	6,151,200	0.011	0.029	0.00073	0.0086	2.6
3/8/2023	50	31,583,082	6,612,000	0.0092	0.0256	0.0009	0.0069	2.0619
6/22/2023	55	39,941,982	8,358,900	0.0022	0.0096	0.0006	0.0034	0.3139
			Average	0.013	0.038	0.001	0.015	2.586

Flow and Laboratory Analysis

Date	Total Operational Hours (2)	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
9/28/2021	5	5	0.26	0.78	0.029	0.4	57	0.029
10/21/2021	549	544	15	45	1.7	21.6	3,356	1.7
11/9/2021 (3)	998	449	4.6	13	0.24	3.1	571	0.29
12/16/2021	1,876	878	12	34	0.59	8.1	1,464	0.73
1/6/2022	2,322	446	0.32	1.1	0.043	0.7	91	0.045
3/24/2022	4,070	1,748	2.0	4.0	0.067	1.0	290	0.15
6/13/2022	5,996	1,926	17	40	0.70	11	2,395	1.2
9/19/2022 (1)	8,291	2,295	11	34	0.9	12	1,852	0.93
12/6/2022	10,155	1,864	20	55	1.4	16	4,927	2.5
3/8/2023	12,359	2,204	20	56	2	15	4,544	2.3
6/22/2023	14,892	2,533	6	24	2	9	795	0.4
	Total Mass	Recovery to Date	109	307	9.3	98	20,343	10.2

Notes:

- (1): an emissions air sample was recollected on 9/30/2022 due to air-collection errors during the 9/19/2022 site visit. Flow rates collected during the 9/19/2022 visit are used for emissions calculations
- (2): total operational hours are a summation of runtime hours collected from several generators and blower runtime meters used between 9/28/2021 and 9/19/2022
- (3): runtime hours collected during a site visit on 11/9/2021
- 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

28-6 #31 SVE SYSTEM BIWEEKLY O&M FORM

		DIVIDENCE I OWN FORM		
DATE: _ TIME ONSITE: _	9-13	O&M PERSONNEL:	B Sincl	air

SVE ALARMS:	KO TANK HIGH LEVEL	
GENERATOR Hours (take photo) Hertz Voltage Battery Voltage Oil Pressure Oil Temp HOUSEKEEPING Check Generator Lubrication Inline Filter Clean Clean Wye Strainer	SVE SYSTEM Blower Hours (take photo) Pre K/O Vacuum (IWC) Post K/O Vacuum (IWC) Pitot Tube 3" Flow (cfm) Leg A Rotameter (scfm) Leg B Rotameter (scfm) Inlet PID Exhaust Post GAC PID Liquid in K/O Sight Tube (Y/N) K/O Liquird Drained (gallons)	TIME 1/25

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

ZONES

Change in Well Operation:

LEG A DEEP

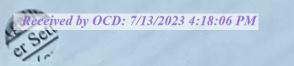
EEGITDEEI			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-2RD		1067	
SVE-3		383.6	
SVE-5		1320	
SVE-11D		2254	
SVE-13D		2431	

LEG A SHALLOW			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-1		95.2	
SVE-2RS		684.3	
SVE-4		686.8	
SVE-11S		1221	
SVE-13S		2156	
SVE-14S		752.6	

B-1 LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-7D			
SVE-10		162.6	
SVE-12S		640.3	
SVE-15			

EG B-2	TACHIM (IVC)	PID HEADSPACE (PPM)	ADJUSTMENTS
LOCATION	VACUUM (IWC)	TID THE ABBITTED (ATTAI)	12000111121110
SVE-6			51
SVE-7S		21 /4	
SVE-8		31.9	
SVE-9			

COMMENTS/OTHER MAINTENANCE:



28-6 #31 SVE SYSTEM BIWEEKLY O&M FORM

DATE: 4-25
TIME ONSITE:

O&M PERSONNEL:
TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M	
SVE ALARMS: KO TANK HIGH LEVEL	
GENERATOR	DING TIME 10619 1059 -28 -39 -27 29 417.4 574

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

ZONES

Change in Well Operation: LEG A DEEP

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-2RD		1894	TESTOSTINE
SVE-3		555.4	
SVE-5		1401	
SVE-11D		2253	
SVE-13D		2254	

LEG A SHALLOW			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-1		418.1	
SVE-2RS		1849	
SVE-4		906.4	
SVE-11S		1387	
SVE-13S		2003	
SVE-14S		2396	**************************************

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-7D			
SVE-10		173.6	
SVE-12S		1296	

G B-2		PID HEADSPACE (PPM)	ADJUSTMENTS
LOCATION	VACUUM (IWC)	PID HEADSPACE (FFM)	71DJOBTWIENTS
SVE-6			
SVE-7S		1013	
SVE-8		101.2	
SVE-9			

COMMENTS/OTHER MAINTENANCE:

Received by OCD: 7/13/2023 4:18:06 PM

DATE: 5-9
TIME ONSITE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE:

Page 13 of 30

	SVE SYSTEM - MONTHLY O&M		
SVE ALARMS:	KO TANK HIGH LEVEL		
GENERATOR Hours (take photo) Hertz Voltage Battery Voltage Oil Pressure Oil Temp	Blower Hours (take photo) Pre K/O Vacuum (IWC) Post K/O Vacuum (IWC) Pitot Tube 3" Flow (cfm) Leg A Rotameter (scfm) Leg B Rotameter (scfm) Inlet PID Exhaust Post GAC PID	READING 10950 -31 -23 60 29 23 313.2 443.1	TIME
HOUSEKEEPING Check Generator Lubrication Inline Filter Clean Clean Wye Strainer	Liquid in K/O Sight Tube (Y/N) K/O Liquird Drained (gallons)		

28-6 #31 SVE SYSTEM

BIWEEKLY O&M FORM

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

ZONES

Change in Well Operation: LEG A DEEP

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-2RD		1610	
SVE-3		545.8	
SVE-5		1342	
SVE-11D	A Contract of the Contract of	2134	
SVE-13D		2195	

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-1		363.4	
SVE-2RS		1297	
SVE-4		326.6	
SVE-11S		1529	NEW TOTAL PROPERTY OF THE PARTY
SVE-13S		1969	
SVE-14S	With the state of	735.6	The second second second

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-7D			
SVE-10		166.7	
SVE-12S		592.6	
SVE-15			

LEG B-2			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-6	AND THE RESIDENCE OF THE PARTY		A SALES THAT A SECURIOR DATE OF
SVE-7S	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P		
SVE-8		3/4	
SVE-9			

COMMENTS/OTHER MAINTENANCE:

Released to Imaging: 10/27/2023 10:49:04 AM

119

Location 57 28-6 # 31 Date 5-23-23

Project / Client HEC

EC, Truck, PID, Vac 1300 EC ON Size For bi- weekly System on & running Leg A & B A Ctive Pre ko vac 37 INC Post to vac 26 Inc F10W 68 CAM WEITS SUES, SUE 125, SUE 10, SUES, SUE, SVE 14, SUE 41, SUE 135, SUE 130 SUE ZRS, SUE 2RD, SUE 3, SUE 115, SVE 110 open Leg A FIDW 28 SCFM Leg B Flow \$2 SCFA PID All open wells 588.6 Hours 11286 @ 1325

Rite in the Rain

Received by OCD: 7/13/2023

28-6 #31 SVE SYSTEM BIWEEKLY O&M FORM

"WENT SANTALIST TO

DATE: 6-7
TIME ONSITE:

O&M PERSONNEL TIME OFFSITE:

B Sixclair

	SVE SYSTEM - MONTHLY O&M	
SVE ALARMS:		
GENERATOR	SVE SYSTEM READING	TIME
Hours (take photo)	Blower Hours (take photo)	41 1129
Hertz	Pre K/O Vacuum (IWC)	32
Voltage	Post K/O Vacuum (IWC)	2.5
Battery Voltage	Pitot Tube 3" Flow (cfm)	50
Oil Pressure	Leg A Rotameter (scfm)	8
Oil Temp	Leg B Rotameter (scfm) 2	2
	Inlet PID 33;	2.9
	Exhaust Post GAC PID	11.2
	Liquid in K/O Sight Tube (Y/N)	
	K/O Liquird Drained (gallons)	
HOUSEKEEPING Check		
Generator Lubrication		
Inline Filter Clean		
Clean Wye Strainer		

SVE SYSTEM - QUA	ARTERLY SAMPLING		
	SAMPLE TIME:		
VPH (8015), VOCs (8260), Fixed Gas (CO/CO2/	/O2)		
	The second second		
		SVE SYSTEM - QUARTERLY SAMPLING SAMPLE TIME: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)	SAMPLE TIME:

TOT	THO
ZOI	

Change in Well Operation:

LEG A DEEP

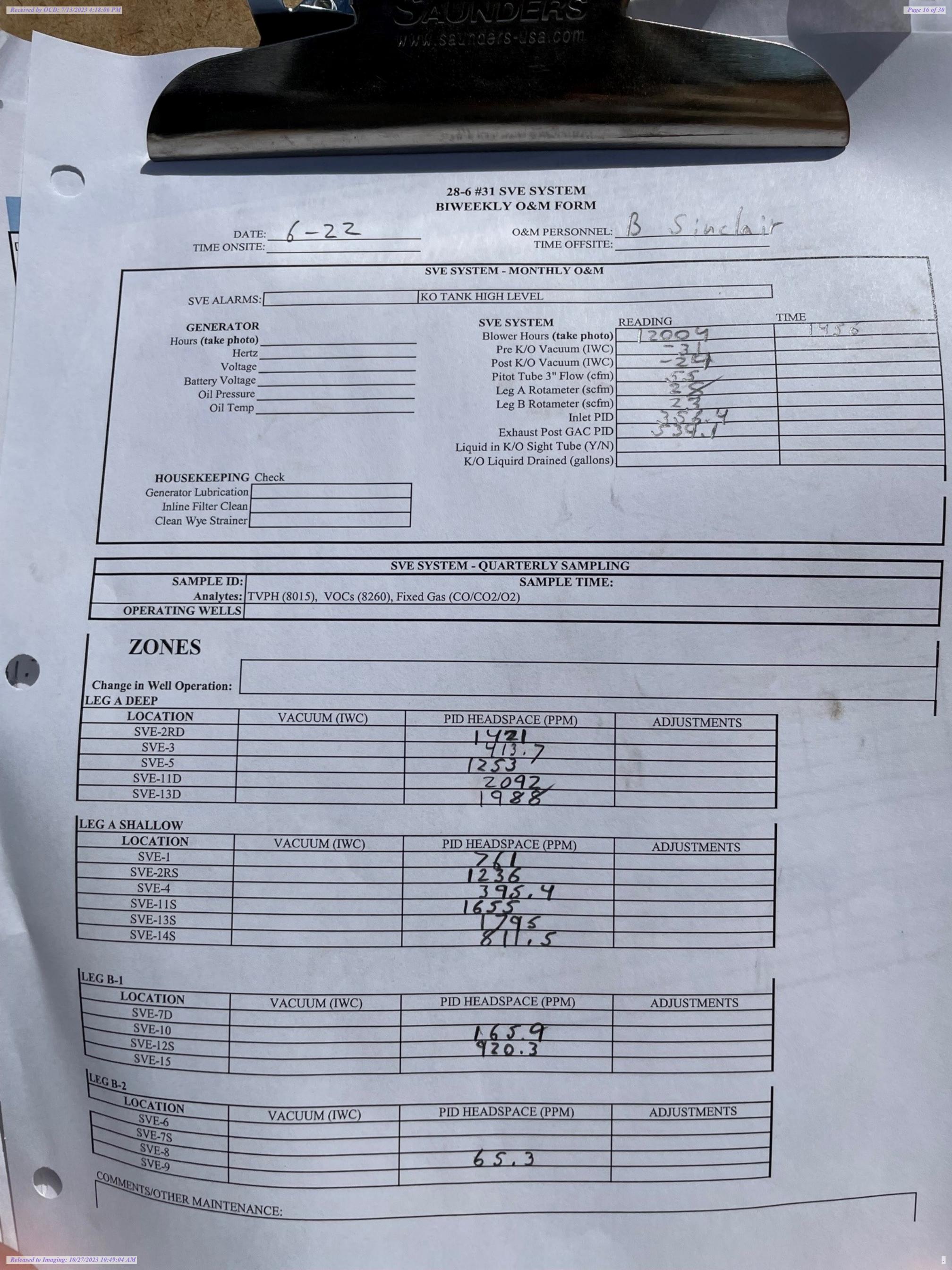
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-2RD	The state of the s	1747	
SVE-3	The second secon	419.2	
SVE-5		1014	
SVE-11D	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2045	
SVE-13D		1889	

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-1		143.6	
SVE-2RS		1492	
SVE-4		300.	
SVE-11S		650.2	
SVE-13S	Committee State Committee	1693	
SVE-14S		1017	

LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
SVE-7D			
SVE-10		158.3	
SVE-12S		1750	
SVE-15		THE RESERVE OF THE PARTY OF THE	CHECKER TO SERVICE STATE OF THE SERVICE STATE OF TH

ISTMENTS
THE RESERVE AND ADDRESS OF THE PARTY OF THE

COMMENTS/OTHER MAINTENANCE:





APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

San Juan 28-6 #31 San Juan County, New Mexico Hilcorp Energy Company

36.62765°N 107.47821°W Photograph 1 Runtime meter taken on March 8, 2023 at 11:21 AM Hours = 9,471.2SJ 28-6 #31 SVE HOURS Photograph 2 Runtime meter taken on June 22, 2023 at 2:56 PM SJ 28-6 #31 SVE HOURS Hours = 12,004



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

July 11, 2023

Samantha Grabert HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733

FAX

RE: SJ 28 6 31 OrderNo.: 2306C81

Dear Samantha Grabert:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/24/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 29, 2023.

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. 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. All samples are reported as received unless otherwise indicated.

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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2306C81

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SVE-1

 Project:
 SJ 28 6 31
 Collection Date: 6/22/2023 3:15:00 PM

 Lab ID:
 2306C81-001
 Matrix: AIR
 Received Date: 6/24/2023 7:45:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	3000	25	μg/L	5	6/26/2023 1:25:05 PM
Surr: BFB	266	15-412	%Rec	5	6/26/2023 1:25:05 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	8.4	0.50	μg/L	5	7/5/2023 2:38:44 PM
Toluene	39	0.50	μg/L	5	7/5/2023 2:38:44 PM
Ethylbenzene	1.2	0.50	μg/L	5	7/5/2023 2:38:44 PM
Methyl tert-butyl ether (MTBE)	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,2,4-Trimethylbenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,3,5-Trimethylbenzene	0.75	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,2-Dichloroethane (EDC)	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,2-Dibromoethane (EDB)	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Naphthalene	ND	1.0	μg/L	5	7/5/2023 2:38:44 PM
1-Methylnaphthalene	ND	2.0	μg/L	5	7/5/2023 2:38:44 PM
2-Methylnaphthalene	ND	2.0	μg/L	5	7/5/2023 2:38:44 PM
Acetone	ND	5.0	μg/L	5	7/5/2023 2:38:44 PM
Bromobenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Bromodichloromethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Bromoform	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Bromomethane	ND	1.0	μg/L	5	7/5/2023 2:38:44 PM
2-Butanone	ND	5.0	μg/L	5	7/5/2023 2:38:44 PM
Carbon disulfide	ND	5.0	μg/L	5	7/5/2023 2:38:44 PM
Carbon tetrachloride	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Chlorobenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Chloroethane	ND	1.0	μg/L	5	7/5/2023 2:38:44 PM
Chloroform	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Chloromethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
2-Chlorotoluene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
4-Chlorotoluene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
cis-1,2-DCE	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
cis-1,3-Dichloropropene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,2-Dibromo-3-chloropropane	ND	1.0	μg/L	5	7/5/2023 2:38:44 PM
Dibromochloromethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Dibromomethane	ND	1.0	μg/L	5	7/5/2023 2:38:44 PM
1,2-Dichlorobenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,3-Dichlorobenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,4-Dichlorobenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Dichlorodifluoromethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,1-Dichloroethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,1-Dichloroethene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM

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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 2306C81

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: SVE-1

 Project:
 SJ 28 6 31
 Collection Date: 6/22/2023 3:15:00 PM

 Lab ID:
 2306C81-001
 Matrix: AIR
 Received Date: 6/24/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,2-Dichloropropane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,3-Dichloropropane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
2,2-Dichloropropane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,1-Dichloropropene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Hexachlorobutadiene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
2-Hexanone	ND	5.0	μg/L	5	7/5/2023 2:38:44 PM
Isopropylbenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
4-Isopropyltoluene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
4-Methyl-2-pentanone	ND	5.0	μg/L	5	7/5/2023 2:38:44 PM
Methylene chloride	ND	1.5	μg/L	5	7/5/2023 2:38:44 PM
n-Butylbenzene	ND	1.5	μg/L	5	7/5/2023 2:38:44 PM
n-Propylbenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
sec-Butylbenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Styrene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
tert-Butylbenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,1,1,2-Tetrachloroethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,1,2,2-Tetrachloroethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Tetrachloroethene (PCE)	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
trans-1,2-DCE	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
trans-1,3-Dichloropropene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,2,3-Trichlorobenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,2,4-Trichlorobenzene	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,1,1-Trichloroethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,1,2-Trichloroethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Trichloroethene (TCE)	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Trichlorofluoromethane	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
1,2,3-Trichloropropane	ND	1.0	μg/L	5	7/5/2023 2:38:44 PM
Vinyl chloride	ND	0.50	μg/L	5	7/5/2023 2:38:44 PM
Xylenes, Total	17	0.75	μg/L	5	7/5/2023 2:38:44 PM
Surr: Dibromofluoromethane	76.8	70-130	%Rec	5	7/5/2023 2:38:44 PM
Surr: 1,2-Dichloroethane-d4	83.5	70-130	%Rec	5	7/5/2023 2:38:44 PM
Surr: Toluene-d8	104	70-130	%Rec	5	7/5/2023 2:38:44 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	5	7/5/2023 2:38:44 PM

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

e pH Not In Range ting Limit Page 2 of 2

ANALYTICAL SUMMARY REPORT

June 28, 2023

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

Work Order: B23062205 Quote ID: B15626

Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 6/27/2023 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B23062205-001	2306C81-001B, SVE-1	06/22/23 15:15 06/27/23	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:** 06/28/23 Project: Not Indicated Collection Date: 06/22/23 15:15 Lab ID: B23062205-001 DateReceived: 06/27/23 Client Sample ID: 2306C81-001B, SVE-1 Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT						
Oxygen	21.66	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Nitrogen	78.08	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Carbon Dioxide	0.20	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Hydrogen Sulfide	< 0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Methane	<0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Ethane	<0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Propane	<0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Isobutane	<0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
n-Butane	<0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Isopentane	<0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
n-Pentane	<0.01	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Hexanes plus	0.06	Mol %		0.01		GPA 2261-95	06/28/23 07:06 / ikc
Propane	< 0.001	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
Isobutane	< 0.001	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
n-Butane	< 0.001	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
Isopentane	< 0.001	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
n-Pentane	< 0.001	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
Hexanes plus	0.025	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
GPM Total	0.025	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
GPM Pentanes plus	0.025	gpm		0.001		GPA 2261-95	06/28/23 07:06 / ikc
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	3			1		GPA 2261-95	06/28/23 07:06 / ikc
Net BTU per cu ft @ std cond. (LHV)	3			1		GPA 2261-95	06/28/23 07:06 / ikc
Pseudo-critical Pressure, psia	545			1		GPA 2261-95	06/28/23 07:06 / ikc
Pseudo-critical Temperature, deg R	240			1		GPA 2261-95	06/28/23 07:06 / ikc
Specific Gravity @ 60/60F	1.00			0.001		D3588-81	06/28/23 07:06 / ikc
Air, % - The analysis was not corrected for air.	98.94			0.01		GPA 2261-95	06/28/23 07:06 / ikc
COMMENTS							
COMMEN 19							

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

RL - Analyte Reporting Limit Report MCL - Maximum Contaminant Level

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

06/28/23 07:06 / ikc

⁻ 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: B23062205 Report Date: 06/28/23

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95									Batch:	R404488
Lab ID:	LCS062723	11 Lab	oratory Co	ntrol Sample			Run: GCNG	SA-B_230627A		06/27	/23 11:57
Oxygen			0.60	Mol %	0.01	120	70	130			
Nitrogen			5.92	Mol %	0.01	99	70	130			
Carbon D	Dioxide		0.99	Mol %	0.01	100	70	130			
Methane			74.4	Mol %	0.01	100	70	130			
Ethane			6.00	Mol %	0.01	100	70	130			
Propane			5.34	Mol %	0.01	108	70	130			
Isobutane	е		1.98	Mol %	0.01	99	70	130			
n-Butane			1.99	Mol %	0.01	99	70	130			
Isopentar	ne		1.00	Mol %	0.01	100	70	130			
n-Pentan	е		1.00	Mol %	0.01	100	70	130			
Hexanes	plus		0.78	Mol %	0.01	98	70	130			
Lab ID:	B23062211-001ADUP	12 San	nple Duplic	ate			Run: GCNG	SA-B_230627A		06/27	/23 14:25
Oxygen			17.0	Mol %	0.01				0.2	20	
Nitrogen			79.0	Mol %	0.01				0.0	20	
Carbon D	Dioxide		3.64	Mol %	0.01				0.3	20	
Hydroger	n 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	е		< 0.01	Mol %	0.01					20	
n-Butane			< 0.01	Mol %	0.01					20	
Isopentar	ne		< 0.01	Mol %	0.01					20	
n-Pentan	е		< 0.01	Mol %	0.01					20	
Hexanes	plus		0.39	Mol %	0.01				2.6	20	
Lab ID:	LCS062823	11 Lab	oratory Co	ntrol Sample			Run: GCNG	SA-B_230627A		06/28	/23 09:16
Oxygen			0.60	Mol %	0.01	120	70	130			
Nitrogen			5.94	Mol %	0.01	99	70	130			
Carbon D	Dioxide		0.99	Mol %	0.01	100	70	130			
Methane			74.4	Mol %	0.01	100	70	130			
Ethane			5.95	Mol %	0.01	99	70	130			
Propane			5.52	Mol %	0.01	112	70	130			
Isobutane	е		1.97	Mol %	0.01	98	70	130			
n-Butane			1.97	Mol %	0.01	98	70	130			
Isopentar	ne		0.96	Mol %	0.01	96	70	130			
n-Pentan	е		0.97	Mol %	0.01	97	70	130			
Hexanes	plus		0.76	Mol %	0.01	95	70	130			
	•						_				

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Trust our People. Trust our Data. www.energylab.com Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Hall Environmental

Login completed by: Yvonna F. Smith

B23062205

Date Received: 6/27/2023

Reviewed by:	darcy		Re	eceived by: lel	
Reviewed Date:	6/28/2023		Ca	rrier name: FedEx	
Shipping container/cooler in	n 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 wl	nen relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees wi	ith sample labels?	Yes 🗸	No 🗌		
Samples in proper contained	er/bottle?	Yes 🗸	No 🗌		
Sample containers intact?		Yes 🗸	No 🗌		
Sufficient sample volume for	or indicated test?	Yes 🗹	No 🗌		
All samples received within (Exclude analyses that are such as pH, DO, Res CI, S	considered field parameters	Yes √	No 🗌		
Temp Blank received in all	shipping container(s)/cooler(s)?	Yes	No 🔽	Not Applicable	
Container/Temp Blank tem	perature:	17.8°C No Ice			
Containers requiring zero h bubble that is <6mm (1/4").	eadspace have no headspace or	Yes 🗌	No 🗌	No VOA vials submitted	
Water - pH acceptable upo	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

Website: www.hallenvironmental.com

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

CHAIN OF CUSTODY RECORD PAGE: 1 OP: 1

PAGE: 1 OF: 1 Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107

SUB COP	VIRATOR Energ	SUB CONTRATOR Energy Labs - Billings	COMPANY	Energy Laboratories	sa	PHONE	(406) 869-6253	FAX: (406)	(406) 252-6069	
ADDRESS	s 1120 S	1120 South 27th Street				ACCOUNT#.	1	EMAIL		
CITY, ST	ATE, ZIP. Billing	CITY, STATE, ZIP Billings, MT 59107								
Ä	SAMPLE	CLIENT SAMPLE ID	GE GE	BOTTLE	MATRIX	COLLECTION	#CONTAINERS	ANALYTICAL COMMENTS	MMENTS	
1	23	SVE-1				6/22/2023 3:15:00 PM	6/22/2023 3:15:00 PM 1 **3 DAY TAT** Natural Gas Analysis, O2, CO2	Gas Analysis, O2, CO2	213061205	
							Newt Ory Gar Cleafer			4

REPORT TRANSMITTAL DESIRED:	1	FOR LAIS USE, ONL Y Attempt to Cool ?	
REPORT TRANSMITTAL DESIRED:	HARDCOPY (extra cost)	FOR LAB Temp of samples	Comments:
Time:	Time:	se:60	
Date:	Date:	Peter153	3rd BD
		Robbert By Lettone Perfords "189:35	2nd BD
Received By:	Received By:	Reflied By	Next BD
Time: 9:39 AM	Time:	Time	RUSH
Date: 6/24/2023	Date:	Date	Standard
Relinquished By	Relinquished By:	Relinquished By:	TAT:

SPECIAL INSTRUCTIONS / COMMENTS:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 10/27/2023 10:49:04 AM

Website: www.hallenvironmental.com RcptNo: 1 Client Name: HILCORP ENERGY Work Order Number: 2306C81 Received By: **Tracy Casarrubias** 6/24/2023 7:45:00 AM Completed By: 6/24/2023 9:36:08 AM **Tracy Casarrubias** Reviewed By: Ju 6/26/23 Chain of Custody No 🗸 Yes Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In Yes 🗌 No \square NA 🔽 3. Was an attempt made to cool the samples? No 🗌 NA 🗹 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗌 Yes 🗹 No \square Sample(s) in proper container(s)? No 🔲 Yes 🔽 Sufficient sample volume for indicated test(s)? No 🗌 Yes 🗹 7. Are samples (except VOA and ONG) properly preserved? NA \square Yes 🗌 No 🗹 8. Was preservative added to bottles? NA 🗹 Yes [No 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗹 10. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: Yes 🗹 11. Does paperwork match bottle labels? 2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🗌 \checkmark 13. Is it clear what analyses were requested? Yes Checked by: TMC 6/24/23 Yes 🗹 No 🗌 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗌 NA 🔽 15. Was client notified of all discrepancies with this order? Person Notified: Date: ☐ eMail ☐ Phone ☐ Fax ☐ In Person By Whom: Via: Regarding: Client Instructions: Mailing address and phone number are missing on COC- TMC 6/24/23 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal No Seal Date Signed By Seal Intact N/A Good Yes

v.	
٠.	
_	
2	
~	
_	
4	
•	
-	
70	
-	
-	
N	
2	
Υ,	
_	
_	
_	
-	
_	
=	
_	
•	
_	١
0	
-	
Ø,	
2	
O	
O	
Z	
	1.0eg by OCD: //13/2023 4:18:00

Chain	Chain-of-Custody Record	Turn-Around Time	oi.				2	VIP	N	ENVIRONMENTA	
Client: H;/Co	Ose	Standard	\sqrt{Rush} $6-27$		 1 [AN	YSI	SL	ABO	ANALYSIS LABORATOR	≾ر
		Project Name:				www.h	www.hallenvironmental.com	nmenta	I.com		
Mailing Address:	S;	29	6 Unit 31	490	1 Haw	4901 Hawkins NE	- Albuq	nerque	Albuquerque, NM 87109	109	
		Project #:		Tel.	. 505-3	505-345-3975		505-3	Fax 505-345-4107	April 1997	
Phone #:							Analysis Request	Requ	est		
email or Fax#:	email or Fax#: brandon, Sinclaire pilcorp. com	Project Manager:					⁵OS		(tue	₹00	
QA/QC Package:					s'80	SWI	. '⊅C		sd∧	ð	
□ Standard	☐ Level 4 (Full Validation)	Samantha	Grabert)d ''		/дue	2 0	
Accreditation:	☐ Az Compliance	Sampler: Brah	andon Sinclair			7S8 70		(A	Hd	50	
			3			0		ΌΛ	Λ_) u	50	_
□ EDD (Type)		# or Coolers:				158	N		أولا	96	
		Cooler Temp(Including CF):	(C)			ρλ _S	Br,			pa	
			Preservative HEAL No.	X∃T: 8:HG	1 180 DB (I	sHA ARD	;; F, 260 (270 (otal (×! <u>-</u>	
Date Time	Matrix Sample Name	1 ype and # 1 ype		-	+	d	5	-	_	<u> </u>	$\frac{1}{1}$
5131 22-4	1-11/5/11/0	2 Tedlar	100							>	
-		H STORY OF THE STO								The second second	
										1000	
			A CANADA		=					THE PERSON NAMED IN	2
					-				1000	Transfer of a	
		1			+			The state of	The state of the s		
									7		+
					+	1	1	1			$\frac{1}{1}$
						Ī					
			the state of the s								
		11	The second secon					No constitution of the con			
										7 7 7 7	
						17					
Date: Time: (5-23	Relinquished by:		Via: Court Date Time	Remarks:	26						
Date: Time:	Relinquished by:	Received by.	la:								
				-		3	4			Harris Inchile	

Peteased to Imaging: 10/27/2023 10:49:04 AM

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 240042

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	240042
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See app ID 275065 for most updated status.	10/27/2023