By Nelson Velez at 9:34 am, May 11, 2023



April 11, 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: First Quarter 2023 – SVE System Update Sullivan GC D #1E San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: NCS1518952648

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *First Quarter* 2023 – *SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the Sullivan GC D #1E natural gas production well (Site), located in Unit F of Section 26, Township 29 North, Range 11 West in San Juan County, New Mexico (Figure 1). Specifically, this report summarizes Site activities performed in January, February, and March of 2023 to the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

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

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

FIRST QUARTER 2023 ACTIVITIES

During the first quarter of 2023, Ensolum and Hilcorp personnel performed bi-weekly operation and maintenance (O&M) visits to verify the system was operating as designed and to perform any required maintenance. Field notes taken during O&M visits are presented in Appendix A. During the first quarter of 2023, all SVE wells (PR-1, MW-01, MW-02, MW-05, and MW-06) were operated in order to induce air flow through impacted soil within the source area. Between December 10, 2022 and March 13, 2023, the SVE system operated for 6,340.7 hours, with a runtime efficiency of 99 percent (%). Appendix B

Follow the recommendations provided.
 OCD will require quarterly report for
 Next report due no later than July 31,
 2023.

3. Since the system was re-started in December 2021, OCD will accept bi-annual (twice a year) reporting initiating in 2024. Hilcorp Energy Company First Quarter 2023 – SVE System Update Sullivan GC D#1E

presents photographs of the runtime meter for calculating the first quarter runtime efficiency. Table 1 presents the SVE system operational hours and percent runtime.

A first quarter emissions sample was collected from the SVE system on March 13, 2023 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), located in Albuquerque, New Mexico, for analysis of total volatile petroleum hydrocarbons (TVPH, also referred to as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, volatile organic compounds (VOCs) following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processor Association (GPA) Method 2261. Table 2 presents a summary of analytical data collected during this sampling event and previous sampling events, with the full laboratory analytical report included in Appendix C.

Emission 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, 89,359 pounds (45 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 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 shyde@ensolum.com

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

Attachments:

- Figure 1 Site Location Figure 2 SVE System Layout
- Table 1
 Soil Vapor Extraction System Runtime Calculations

 Table 2
 Soil Vapor Extraction System Emission Analytical Results

 Table 2
 Soil Vapor Extraction System Emission Analytical Results
- Table 3Soil Vapor Extraction System Mass Removal and Emissions

Hilcorp Energy Company First Quarter 2023 – SVE System Update Sullivan GC D#1E

Appendix A **Field Notes** Project Photographs Laboratory Analytical Reports Appendix B Appendix C

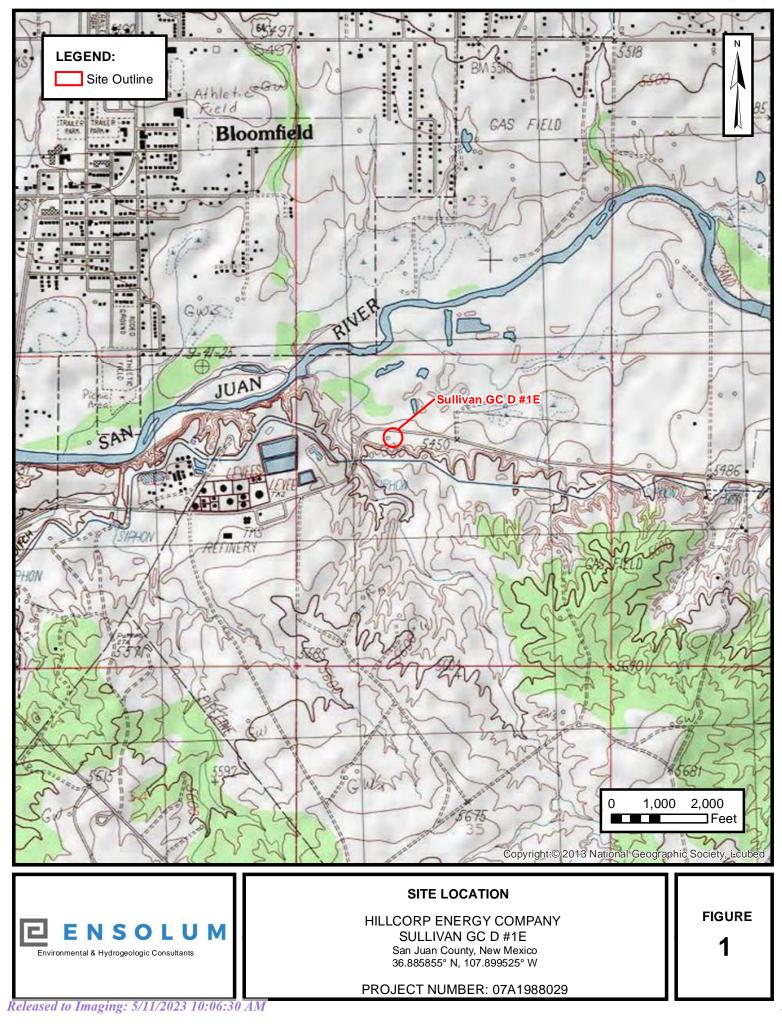
ENSOLUM

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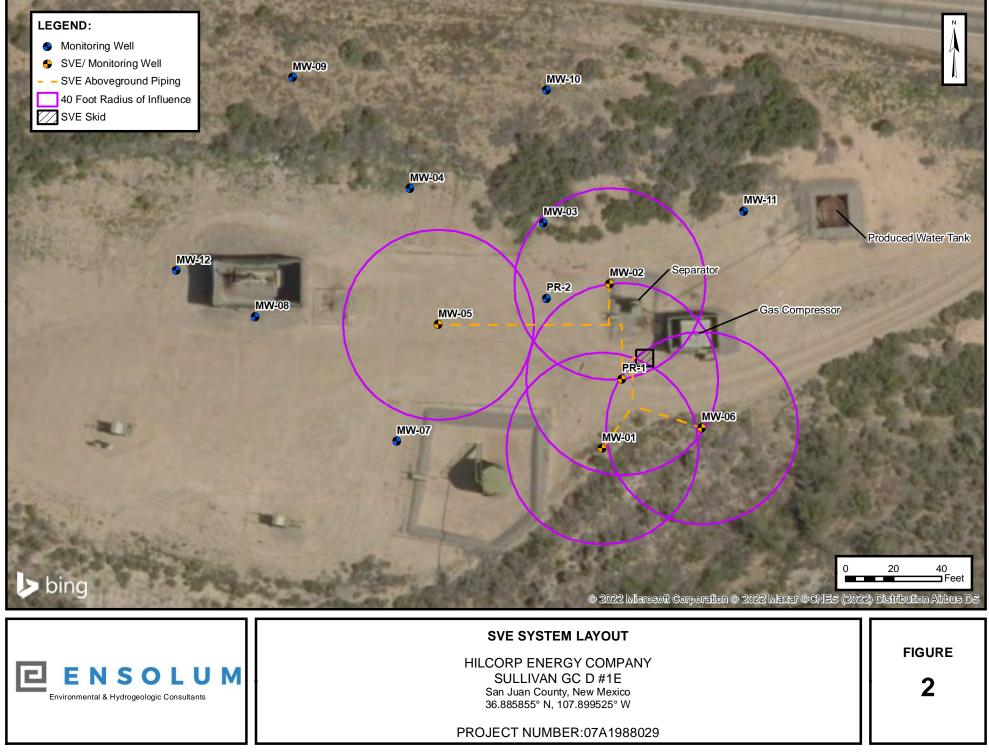


FIGURES

Received by OCD: 4/13/2023 9:52:48 AM



Received by OCD: 4/13/2023 9:52:48 AM



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TABLES



TABLE 1

SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

Sullivan GC D#1E

Hilcorp Energy Company San Juan County, New Mexico

Permanent Geotech SVE Skid Runtime Operation

Date	Total Operational Hours	Delta Hours	Days	% Runtime
12/10/2022	6,340.7			
3/13/2023	8,560.0	2,219.3	93	99%

🖻 ENSOLUM

	TABLE 2 SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS Sullivan GC D#1E Hilcorp Energy Company San Juan County, New Mexico							
Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH/GRO (μg/L)	Oxygen (%)	Carbon Dioxide (%)
4/18/2016		840	1,900	87	840	140,000		
4/20/2016	2,375	840	1,900	87	840	140,000		
4/29/2017	3,520	280	1,000	64	630	65,000		
8/11/2016	4,215	92	700	90	910	23,000		
1/24/2018	2,837	46	140	<5.0	410	21,000		
6/29/2018	3,000	63	210	<5.0	410	27,000		
12/2/2021	741	15	<5.0	<5.0	99	33,000		
3/16/2022	982	<0.10	<0.10	<0.10	1.1	64	19.40	1.23
6/17/2022	327	<0.10	<0.10	<0.10	0.25	10	21.54	0.29
9/22/2022	266	<0.10	<0.10	<0.10	<0.15	<5.0	20.57	1.00
12/10/2022	68	0.75	4.9	0.49	9.0	490	21.02	0.65
3/13/2023	69	0.81	4.4	0.30	5.7	300	21.15	0.51

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

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E N S O L U M

TABLE 3 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS Sullivan GC D#1E Hilcorp Energy Company San Juan 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)
4/18/2016		840	1,900	87	840	140,000
4/20/2016	2,375	840	1,900	87	840	140,000
4/29/2017	3,520	280	1,000	64	630	65,000
8/11/2016	4,215	92	700	90	910	23,000
1/24/2018	2,837	46	140	5.0	410	21,000
6/29/2018	3,000	63	210	5.0	410	27,000
12/2/2021	741	15	5.0	5.0	99	33,000
3/16/2022	982	0.10	0.10	0.10	1.1	64
6/17/2022	327	0.10	0.10	0.10	0.25	10
9/22/2022	266	0.10	0.10	0.10	0.15	5.0
12/10/2022	68	0.75	4.9	0.49	9.0	490
3/13/2023	69	0.81	4.4	0.30	5.7	300
Average	1,673	181	489	29	346	37,489

	Vapor Extraction Summary							
Date	Flow Rate (cfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/hr)	Toluene (Ib/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
4/18/2016	90	0	0	0.28	0.64	0.029	0.28	47
4/20/2016	109	313,920	313,920	0.34	0.77	0.035	0.34	57
4/29/2017	90	1,480,320	1,166,400	0.19	0.49	0.025	0.25	35
8/11/2016	70	6,923,520	5,443,200	0.049	0.22	0.020	0.20	12
1/24/2018	60			0.015	0.094	0.011	0.15	4.9
6/29/2018	41	53,246,160	46,322,640	0.0084	0.027	0.001	0.063	3.7
12/2/2021				Rental SVE S	ystem Startup			
12/2/2021	49	53,246,160	0	0	0	0	0	0
3/16/2022	49	60,581,754	7,335,594	0.0014	0.00047	0.00047	0.0092	3.0
6/17/2022	80	70,724,634	10,142,880	0.000030	0.000030	0.000030	0.0002	0.011
9/22/2022	68	80,221,650	9,497,016	0.000025	0.000025	0.000025	0.000051	0.0019
12/10/2022	80	89,341,170	9,119,520	0.00013	0.00075	0.000088	0.0014	0.074
3/13/2023	75	99,328,020	9,986,850	0.00022	0.0013	0.00011	0.0021	0.11
			Average	0.074	0.19	0.010	0.11	14

El a constante d	1	
Flow and	Laboratory	/ Analysis

Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
4/18/2016	0	0	0.0	0.0	0.0	0.0	0.0	0.0
4/20/2016	48	48	16	37	1.7	16	2,740	1.4
4/29/2017	264	216	41	105	5.5	53	7,452	3.7
8/11/2016	1,560	1,296	63	288	26	261	14,929	7.5
1/24/2018								
6/29/2018	16,848	15,288	128	410	12	961	56,264	28
12/2/2021				Rental SVE S	ystem Startup			
12/2/2021	968	0	0.0	0.0	0.0	0.0	0.0	0.0
3/16/2022	3,463	2,495	3.5	1.2	1.2	23	7,559	3.8
3/21/2022				Permanent SVE	System Startup			
3/21/2022	0	0	0.0	0.0	0.0	0.0	0.0	0.0
6/17/2022	2,113	2,113	0.063	0.063	0.063	0.43	23	0.012
9/22/2022	4,441	2,328	0.059	0.059	0.059	0.12	4.4	0.0022
12/10/2022	6,341	1,900	0.24	1.4	0.17	2.6	141	0.070
3/13/2023	8,560	2,219	0.49	2.9	0.25	4.6	246	0.12
	Total Mass	Recovery to Date	252	847	47	1,323	89,359	45

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

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APPENDIX A

Field Notes

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DATE: TIME ONSITE:	TIME OFFSTEL
	SVE SYSTEM - MONTHLY O&M
SVE ALARMS: (check if applicable)	HIGH/LOW VACUUM KO TANK HIGH LEVEL HIGH EXHAUST TEMPERATURE
Product Skimmer Hours (take photo) Volume in bbl Volume removed Volume removed to date	SVE SYSTEM READING TIME Blower Hours (take photo) 6986.5 1951 Pre K/O Vacuum (IWC) 38
HOUSEKEEPING Check Inline Filter Clean Clean tank level alarm on skimmer	

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

ZONES

Change in Well Operation:			and the second se
Zone 1/Leg A	and and and a second	PID HEADSPACE (PPM)	ADJUSTMENTS
LOCATION	VACUUM (IWC)	PID HEADSPACE (ITM)	
MW-01		30.34	The second s
MW-02		20071	
MW-05		209	
MW-06		33103	
PR-1		42.02	

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Product Recovery

ell		Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N0
LOCATION	Product thickness	Floddet femoved nem court		
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Overflow tank was nearly 1/2 Eull.



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2	SULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT) BIWEEKLY O&M FORM
DATE: 1-12 TIME ONSITE:	0&M PERSONNEL: <u>B Sinclair</u> TIME OFFSITE:
	SVE SYSTEM - MONTHLY O&M
SVE ALARMS:	HIGH/LOW VACUUM
(check if applicable)	KO TANK HIGH LEVEL
Annual and the second of the second	HIGH EXHAUST TEMPERATURE
Product Skimmer	SVE SYSTEM READING TIME
Hours (take photo)	Blower Hours (take photo) 7271.5 1153
Volume in bbl Volume removed	Pre K/O Vacuum (IWC) 36
Volume removed to date	Post K/O Vacuum (IWC) 39
· oralle removed to date	Total Flow (cfm) 75 Zone 1/ Leg A Flow (scfm)
	Inlet PID 105.4
	Exhaust Post GAC PID 226
	Liquid in K/O Sight Tube (Y/N)
	K/O Liquid Drained (gallons)
HOUSEKEEPING Check	
Inline Filter Clean Clean tank level alarm on skimmer	

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



ZUNES				
Change in Well Operation:				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
MW-01		29.04		
MW-02		33,431	a Martin Martin Statement and Statement	WW REAL PROPERTY AND
MW-05	and the second	216.1	a second the second second second second	
MW-06		66.01		
PR-1		5106	International and a state of the second	

Product Recovery

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LOCATION	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N0
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	and the second			
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Drained ~ 1/4g from overflow tank



and the All	SAUINIDIERS	
	www.saunders-usa.com	

SULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT) BIWEEKLY O&M FORM O&M PERSONNEL: B Sinclair TIME OFFSITE:

DATE:	2	~	2	-	Z	3
IME ONSITE:	STAN ST		84	100		

SVE ALARMS:	HIGH/LOW VACUUM	
(check if applicable)	KO TANK HIGH LEVEL	•
	HIGH EXHAUST TEMPERATURE	
AVE ALL STREET, MANUAL STREET, SALES	SVE SYSTEM READING	TIME
Product Skimmer	OT LO O A D A MARTA	631.1 1151
Hours (take photo) Volume in bbl	Pre K/O Vacuum (IWC)	34/
Volume removed	Post K/O Vacuum (IWC)	38
Volume removed to date	Total Flow (cfm)	75
	Zone I/ Leg A Flow (scfm)	24.5
		22.6
	Liquid in K/O Sight Tube (Y/N)	
		2.5
HOUSEKEEPING Check		
Inline Filter Clean		
Clean tank level alarm on skimmer	Constant of the second s	

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

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L	U	N	Ŀ	0

Change in Well Operation: 1/ Leg A			
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01	A LOUGHLAND STRUCTURE IN	61.12	
MW-02	The second standing between the	51.46	A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR
MW-05		217.9	A Realized Contractor Contractor
MW-06		78.3	Contraction of the second second second
PR-1	Sector and the sector of the sector of the sector of the	60.04	

LOCATION	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N
TOPATION	ANTER THE PARTY OF THE PARTY			
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and the second se				
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	There a set a new solution of the second of the second sec
	SULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT) BIWEEKLY O&M FORM
DATE: 2 - TIME ONSITE:	
	SVE SYSTEM - MONTHLY O&M
SVE ALARMS:	HIGH/LOW VACUUM KO TANK HIGH LEVEL HIGH EXHAUST TEMPERATURE
Product Skimmer Hours (take photo)	SVE SYSTEM Blower Hours (take photo) READING TIME
Volume in bbl Volume removed Volume removed to date	Pre K/O Vacuum (IWC) 36 Post K/O Vacuum (IWC) 37 Total Flow (cfm) 7.5
And the second	Zone I/ Leg A Flow (scfm) Inlet PID 89-5 Exhaust Post GAC PID 180.8
HOUSEKEEPING Check	Liquid in K/O Sight Tube (Y/N) K/O Liquid Drained (gallons)
Inline Filter Clean	

Page 15 of 31

	SVE SYSTEM - QUARTERI	LY SAMPLING	
SAMPLE D		SAMPLE TIME:	
Analyte	s: TVPH (8015), VOCs (8260), Fixed Gas (CO/CO2/O2)		
OPERATING WELI	S	ALL	
ZONES			de la secondada
Change in Well Operation: Zone 1/ Leg A	A Constant of the second se		

Zone 1/ Leg A			and the second
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01		46.6	
MW-02		25.9	
MW-05		299.2	
MW-06		65.5	
PR-1		44.6	

Product Recovery

Well

Received

LOCATION	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N0
	The second s		and the second	
and the second se				
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	and the second of	4		
	and the second sec		and the second second	THE SHOP STREET
	and the second			
				-

COMMENTS/OTHER MAINTENANCE:

Drained 14 of over Flow tank.



TD: 4/13/2023 9:52:48 AM	www.saunuers-usa.com
	THE REAL PROPERTY DESCRIPTION OF THE PROPERTY AND
S	ULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT)
DATE: 3-13 TIME ONSITE:	BIWEEKLY O&M FORM O&M PERSONNEL: B Sinclair TIME OFFSITE:
	SVE SYSTEM - MONTHLY O&M
SVE ALARMS: (check if applicable)	HIGH/LOW VACUUM KO TANK HIGH LEVEL HIGH EXHAUST TEMPERATURE
Product Skimmer Hours (take photo) Volume in bbl Volume removed Volume removed to date	SVE SYSTEM READING TIME Blower Hours (take photo) 8560 1999 Pre K/O Vacuum (IWC) 33 1999 Post K/O Vacuum (IWC) 35 1999 Total Flow (cfm) 75 1999 Zone I/ Leg A Flow (scfm) 75 1999
HOUSEKEEPING Check Inline Filter Clean Clean tank level alarm on skimmer	Inlet PID Exhaust Post GAC PID Liquid in K/O Sight Tube (Y/N) K/O Liquid Drained (gallons)

SVE SYSTEM -	- OUA	RTERLY	SAMPL	ING
	× ~	CALC ANALASIA	No ALTAR AS	

SAMPLE ID:

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

SAMPLE TIME:

.

OPERATING WELL ZONES				
Change in Well Operation: ne 1/ Leg A				
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS	
MW-01		9.1		
MW-02		8,9		
MW-05		284.4		
MW-06		32.9	and the second	
PR-1		43		
Product Recovery				
LOCATION	Product thickness	Product removed from Sock (volume and color)	Volume removed total (gal or oz?)	Replace Sock? (Y/N0

LOCATION	Product thickness	Floduct lemoved nom Sock (volume and color)	Volume removed total (gar or oz.)	Acophero Boomi (19110
the second se				
	the second s			
	No. Company of the second			
the second s	The second second second			
	and the second second			
	A CONTRACTOR OF A CAR CONTRACTOR			

Drained ~ 1/4 of overflow tank



	SULLIVAN GC D#1E SVE SYSTEM (RENTAL UNIT)
	BIWEEKLY O&M FORM
DATE: <u>3-22</u> TIME ONSITE:	O&M PERSONNEL: B Sinclair TIME OFFSITE:
TIME ONSITE:	
	SVE SYSTEM - MONTHLY O&M
	HICHT ON VACHUM
SVE ALARMS:	HIGH/LOW VACUUM KO TANK HIGH LEVEL
(check if applicable)	HIGH EXHAUST TEMPERATURE
Product Skimmer	SVE SYSTEM READING TIME
Hours (take photo)	Blower Hours (take photo) 8782 (95
Volume in bbl	Pre K/O Vacuum (IWC) 3 9
Volume removed	Post K/O Vacuum (IWC) 38
Volume removed to date	Total Flow (cfm) 65
	Zone I/ Leg A Flow (scfm)
	Inlet PID 83.0
	Exhaust Post GAC PID 52.0
	Liquid in K/O Sight Tube (Y/N)
HOUSEKEEDING Chash	K/O Liquid Drained (gallons)
HOUSEKEEPING Check Inline Filter Clean	
Clean tank level alarm on skimmer	
	SAMPLE TIME:
SAMPLE ID:	SAMPLE TIME:
OPERATING WELLS	/OCs (8260), Fixed Gas (CO/CO2/O2)

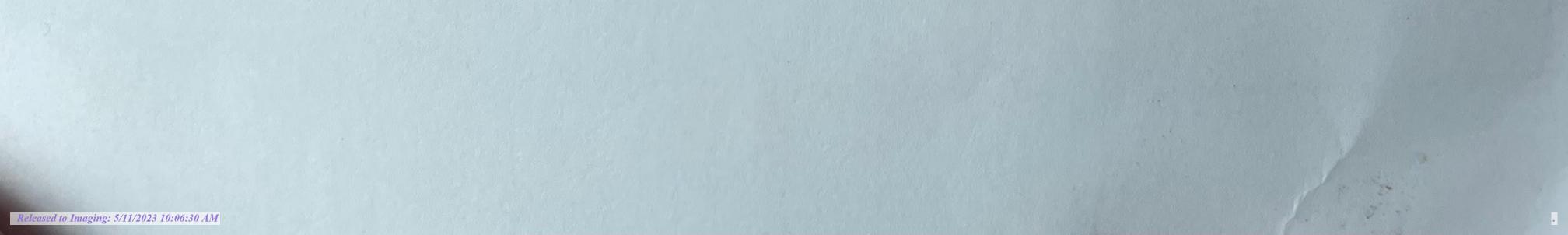
LUNES

Change in Well Operation: Zone 1/Leg A

Lone I/ Leg A			ID TI IOTI) (TI) ITO
LOCATION	VACUUM (IWC)	PID HEADSPACE (PPM)	ADJUSTMENTS
MW-01		33.9	
MW-02		23,7	
MW-05		265	
MW-06		60.8	
PR-1		45.6	

Product Recovery

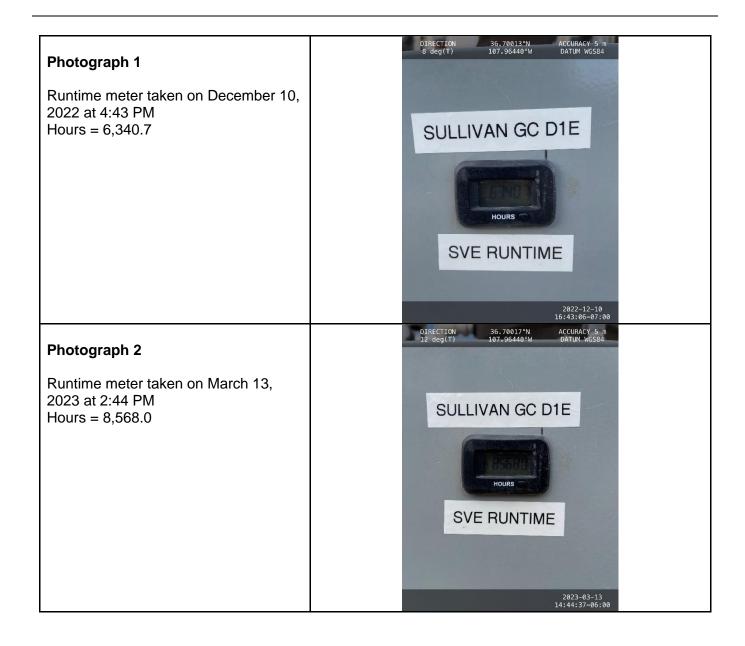
Well Product removed from Sock (volume and color) Replace Sock? (Y/N0 Volume removed total (gal or oz?) Product thickness LOCATION





APPENDIX B

Project Photographs





APPENDIX C

Laboratory Analytical Reports



March 29, 2023

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Sullivan GC D 1E

OrderNo.: 2303696

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/14/2023 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

CLIENT: HILCORP ENERGY

Sullivan GC D 1E 2303696-001

Project:

Lab ID:

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Matrix:

Lab Order 2303696

Date Reported: 3/29/2023

Client Sample ID: SVE-1
Collection Date: 3/13/2023 2:30:00 PM
Received Date: 3/14/2023 6:30:00 AM

2505070 001			Trea Date	• 3/ 1 1/2	323 0.30.00 1101
Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
Benzene	0.81	0.10	µg/L	1	3/16/2023 4:12:00 PM
Toluene	4.4	0.10	µg/L	1	3/16/2023 4:12:00 PM
Ethylbenzene	0.30	0.10	µg/L	1	3/16/2023 4:12:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2,4-Trimethylbenzene	0.34	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,3,5-Trimethylbenzene	0.85	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2-Dichloroethane (EDC)	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2-Dibromoethane (EDB)	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Naphthalene	ND	0.20	µg/L	1	3/16/2023 4:12:00 PM
1-Methylnaphthalene	ND	0.40	µg/L	1	3/16/2023 4:12:00 PM
2-Methylnaphthalene	ND	0.40	µg/L	1	3/16/2023 4:12:00 PM
Acetone	ND	1.0	µg/L	1	3/16/2023 4:12:00 PM
Bromobenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Bromodichloromethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Bromoform	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Bromomethane	ND	0.20	µg/L	1	3/16/2023 4:12:00 PM
2-Butanone	ND	1.0	μg/L	1	3/16/2023 4:12:00 PM
Carbon disulfide	ND	1.0	µg/L	1	3/16/2023 4:12:00 PM
Carbon tetrachloride	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Chlorobenzene	ND	0.10	μg/L	1	3/16/2023 4:12:00 PM
Chloroethane	ND	0.20	μg/L	1	3/16/2023 4:12:00 PM
Chloroform	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Chloromethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
2-Chlorotoluene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
4-Chlorotoluene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
cis-1,2-DCE	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
cis-1,3-Dichloropropene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2-Dibromo-3-chloropropane	ND	0.20	µg/L	1	3/16/2023 4:12:00 PM
Dibromochloromethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Dibromomethane	ND	0.20	µg/L	1	3/16/2023 4:12:00 PM
1,2-Dichlorobenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,3-Dichlorobenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,4-Dichlorobenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Dichlorodifluoromethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,1-Dichloroethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,1-Dichloroethene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2-Dichloropropane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,3-Dichloropropane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
2,2-Dichloropropane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit Page 1 of 2

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CLIENT: HILCORP ENERGY

Sullivan GC D 1E 2303696-001

Project:

Lab ID:

Analytical Report Lab Order 2303696

Hall Environmental Analysis Laboratory, Inc.

Matrix:

Date Reported: 3/29/2023

Client Sample ID: SVE-1 Collection Date: 3/13/2023 2:30:00 PM Received Date: 3/14/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: CCM
1,1-Dichloropropene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Hexachlorobutadiene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
2-Hexanone	ND	1.0	µg/L	1	3/16/2023 4:12:00 PM
Isopropylbenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
4-Isopropyltoluene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
4-Methyl-2-pentanone	ND	1.0	µg/L	1	3/16/2023 4:12:00 PM
Methylene chloride	ND	0.30	µg/L	1	3/16/2023 4:12:00 PM
n-Butylbenzene	ND	0.30	µg/L	1	3/16/2023 4:12:00 PM
n-Propylbenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
sec-Butylbenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Styrene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
tert-Butylbenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,1,1,2-Tetrachloroethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,1,2,2-Tetrachloroethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Tetrachloroethene (PCE)	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
trans-1,2-DCE	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
trans-1,3-Dichloropropene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2,3-Trichlorobenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2,4-Trichlorobenzene	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,1,1-Trichloroethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,1,2-Trichloroethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Trichloroethene (TCE)	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Trichlorofluoromethane	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
1,2,3-Trichloropropane	ND	0.20	µg/L	1	3/16/2023 4:12:00 PM
Vinyl chloride	ND	0.10	µg/L	1	3/16/2023 4:12:00 PM
Xylenes, Total	5.7	0.15	µg/L	1	3/16/2023 4:12:00 PM
Surr: Dibromofluoromethane	90.6	70-130	%Rec	1	3/16/2023 4:12:00 PM
Surr: 1,2-Dichloroethane-d4	84.6	70-130	%Rec	1	3/16/2023 4:12:00 PM
Surr: Toluene-d8	112	70-130	%Rec	1	3/16/2023 4:12:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	3/16/2023 4:12:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	300	5.0	µg/L	1	3/16/2023 4:12:00 PM
Surr: BFB	94.2	70-130	%Rec	1	3/16/2023 4:12:00 PM
Surr: BFB	94.2	70-130	%Rec	1	3/16/2023 4:12

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

Qualifiers:

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 2 of 2

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ANALYTICAL SUMMARY REPORT

March 29, 2023

Hall Environmer 4901 Hawkins S Albuquerque, Ni	t NE Ste D			
Work Order: Project Name:	B23031067 Not Indicated	Quote ID: B15626		
Energy Laborato	ories Inc Billings MT recei	ved the following 1 sample for Ha	ll Environmen	tal on 3/15/2023 for analysis.
Lab ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B23031067-001	2303696-001B, SVE-1	1 03/13/23 14:30 03/15/23	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 EnvironmentalProject:Not IndicatedLab ID:B23031067-001Client Sample ID:2303696-001B, SVE-1

Report Date: 03/29/23 Collection Date: 03/13/23 14:30 DateReceived: 03/15/23 Matrix: Air

Analyses	Result Un	nits Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS	REPORT					
Oxygen	21.15 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
Nitrogen	78.22 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
Carbon Dioxide	0.51 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
Hydrogen Sulfide	<0.01 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
<i>A</i> ethane	0.10 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
Ethane	0.02 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
Propane	<0.01 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
sobutane	<0.01 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
n-Butane	<0.01 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
sopentane	<0.01 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
n-Pentane	<0.01 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
lexanes plus	<0.01 Mc	ol %	0.01		GPA 2261-95	03/16/23 09:13 / ikc
Propane	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
sobutane	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
n-Butane	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
sopentane	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
-Pentane	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
lexanes plus	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
SPM Total	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
GPM Pentanes plus	< 0.001 gp	m	0.001		GPA 2261-95	03/16/23 09:13 / ikc
CALCULATED PROPERTIES						
Gross BTU per cu ft @ Std Cond. (HHV)	1		1		GPA 2261-95	03/16/23 09:13 / ikc
Net BTU per cu ft @ std cond. (LHV)	1		1		GPA 2261-95	03/16/23 09:13 / ikc
Pseudo-critical Pressure, psia	546		1		GPA 2261-95	03/16/23 09:13 / ikc
Pseudo-critical Temperature, deg R	240		1		GPA 2261-95	03/16/23 09:13 / ikc
Specific Gravity @ 60/60F	0.999		0.001		D3588-81	03/16/23 09:13 / ikc
Air, % - The analysis was not corrected for air.	96.63		0.01		GPA 2261-95	03/16/23 09:13 / ikc

- The analysis was not corrected for air.

COMMENTS

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

- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.

- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.

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

Report Definitions: RL - Analyte Reporting Limit QCL - Quality Control Limit 03/16/23 09:13 / ikc



Billings, MT 800.735.4489 • Casper, WY 888.235.551 of 31 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client:	Hall Environmental	Work Order: B23031067	7
0.0010			

Report Date: 03/29/23

						-				
Analyte		Count Result	Units	RL	%REC Lo	ow Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261-95								Batch:	R399026
Lab ID:	B23031067-001ADUP	12 Sample Dupl	icate		Ru	un: GCNG	A-B_230316A		03/16	/23 09:40
Oxygen		21.2	Mol %	0.01				0.0	20	
Nitrogen		78.2	Mol %	0.01				0	20	
Carbon Die	oxide	0.51	Mol %	0.01				0.0	20	
Hydrogen	Sulfide	<0.01	Mol %	0.01					20	
Methane		0.11	Mol %	0.01				9.5	20	
Ethane		0.02	Mol %	0.01				0.0	20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane	9	<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:	LCS031623	11 Laboratory C	ontrol Sample		Ru	un: GCNG	A-B_230316A		03/16	/23 12:52
Oxygen		0.64	Mol %	0.01	128	70	130			
Nitrogen		6.15	Mol %	0.01	102	70	130			
Carbon Die	oxide	1.06	Mol %	0.01	107	70	130			
Methane		74.0	Mol %	0.01	99	70	130			
Ethane		6.14	Mol %	0.01	102	70	130			
Propane		5.13	Mol %	0.01	104	70	130			
Isobutane		2.03	Mol %	0.01	101	70	130			
n-Butane		2.02	Mol %	0.01	101	70	130			
Isopentane	e	1.02	Mol %	0.01	102	70	130			
n-Pentane		1.01	Mol %	0.01	101	70	130			
Hexanes p	lus	0.77	Mol %	0.01	96	70	130			



Trust our People. Trust our Data. www.energylab.com Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

B23031067

Work Order Receipt Checklist

Hall Environmental

Login completed by:	Leslie S. Cadreau		Date	Received: 3/15/2023
Reviewed by:	tedwards		Re	ceived by: Isc
Reviewed Date:	3/20/2023		Car	rier name: FedEx
Shipping container/cooler ir	n good condition?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all s	shipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all s	sample bottles?	Yes	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🗌	
Chain of custody signed wh	nen relinquished and received?	Yes 🗸	No 🗌	
Chain of custody agrees wi	th sample labels?	Yes 🗸	No 🗌	
Samples in proper containe	r/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 Cl, S	considered field parameters	Yes 🗹	No 🗌	
Temp Blank received in all	shipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temp	perature:	17.6°C No Ice		
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

ð					
Hall Environmental Analysis Laboratory 4901 Havkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com	(406) 252-6069			ANALYTICAL COMMENTS	B2303101
	FAX	EMAIL.		NALYTIC	
l OF:]	(406) 869-6253			K	1 Fixed Gases
DF CUSTODY RECORD	PHONE	ACCOUNT #		COLLECTION	3/13/2023 2:30:00 PM
FODY RE	es			MATRIX	3/13
N OF CUST	Energy Laboratories			BOTTLE TYPE	TEDLAR
CHAIN O	-				
AENTAL JRY	SUB CONTRATOR: Energy Labs - Billings COMPANY:	1120 South 27th Street	CITY, STATE, ZIP. Billings, MT 59107	CLIENT SAMPLE ID	SVE-1
HALL ENVIRONMENTAL ANALYSIS LABORATORY	RATOR Energy		rE, ZIP. Billings	SAMPLE	2303696-001B SVE-1
	SUB CON	ADDRESS:	CITY, STA	ITEM	1 2

Date Time Date Time TAT: Standard	Inquished By.	Date: 3/14/2023	Time: 7:00 AM	Received By:	Date: Time:	ORT T
Date: Time: Participation And BUL And Standard Ford 1/SS Ford 1/SS Ford 1/SS Ford 1/SS TAT: Standard RUSH Next BD 2nd BD 3nd BD c c	Relinquished By:	Date.	Time:		-	EMAIL EMAIL
Standard RUSH Next BD 2rd BD 3rd BD 1	Relinquished By:	Date:	Time:	March Cadu	the bails	FOR LAB US
	TAT:	Standard	RUSH	Next BD		

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ANALY	ONMENT SIS ATORY	AL	TE	l Environme L: 505-345-3 Vebsite: www	490 Albuquero 3975 FAX:)1 Haw. nue, NM 505-34	kins NE 1 87109 15-4107	Sa	mple Log-In C	Check List
Client Name:	HILCORP	ENERGY	Work	Order Num	ber: 230	3696			RcptNo	1
Received By:	Tracy Cas	arrubias	3/14/20	23 6:30:00	АМ					
Completed By:	Tracy Cas		3/14/20	23 6:47:16	AM					
Reviewed By:	13-1	4-23								
Chain of Cust	<u>ody</u>									
1. Is Chain of Cu	stody comp	lete?			Yes		I	Vo 🔽	Not Present	
2. How was the s	ample deliv	ered?			Cou	<u>rier</u>				
Log In 3. Was an attemp	ot made to c	ool the sample	es?		Yes		1	10 🗆	NA 🗹	
4. Were all sample	es received	at a temperati	ure of >0° C t	o 6.0°C	Yes		1	io 🗌	NA 🗹	
5. Sample(s) in p	roper contai	ner(s)?			Yes		1	10 🗌		
6. Sufficient samp	ole volume f	or indicated tes	st(s)?		Yes		Ν	lo 🗌		
7. Are samples (e				d?	Yes			lo 🗌		
8. Was preservati					Yes		N	io 🗹	NA 🗌	
9. Received at lea	ist 1 vial wit	h headspace <	1/4" for AQ V	OA?	Yes	Ē	N	•	NA 🗹	
10. Were any sam					Yes			lo 🔽		
11. Does paperwor (Note discrepar					Yes		N	lo 🗌	# of preserved bottles checked for pH: (<2 or	>12 unless noted)
12. Are matrices co		• ·	of Custody?		Yes		N	•	Adjusted?	
13. Is it clear what			-		Yes		N	o 🗌		1 (
14. Were all holding (If no, notify cus					Yes		N	o 🗆	Checked by:	7123/14/23
Special Handli	ng (if app	licable)								
15. Was client noti	ified of all di	screpancies w	ith this order?		Yes		۱	10 🗆	NA 🗹	2
Person N By Whon Regardin Client Ins	n:			Date Via:	: eM	ail 🗌] Phone	🗌 Fa:	x 🔲 In Person	
16. Additional rem	arks:									-
17. <u>Cooler Inform</u> Cooler No		Condition	Seal Intact	Seal No	Seal D	ate	Signe	d By	-	
1	NA		Yes				3.14			

Page 29 of 31

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Page 30 of 31

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Chain-of-Custody Record	Client:H:/Lorp		Mailing Address:	

Chain-of-Custody Record Turn-Around Time. Client:H:1_Locp X Standard Rutsh Nailing Address: Scill (Lap Cond) Ruth Mailing Address: Scill (Lap Cond) Ruth Done #: Project Manager: Project Manager: Done #: Project Manager: Project Manager: Data Lau f au f au a N/A Data Date Turn for the formation Date Time Matrix Sample Name Container Date Time Record of N. Matrix Sample Name Date Time <th></th> <th>ANALYSIS LABORATORY</th> <th></th> <th>) E 4901 Hawkins NE - Albuquerque, NM 87109</th> <th>10</th> <th>Analysis</th> <th>[⊅]0!</th> <th>SW SW \$,8</th> <th>) PC</th> <th>/ TME / TME s/8082 s/8082 s/8082 s/8082 s/8082 s/ s/ s/ s/ s/ s/ s/ s/ s/ s/ s/ s/ s/</th> <th>-VC 103 103 103 10 10 10 10 10 10</th> <th>15D(ethc 8 Me 9 Me 10A) 0A)</th> <th>HAL BEAL No. BEAL No. BEAL No. BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V COL COL COL COL COL COL COL COL COL COL</th> <th>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>ate Time Remarks: 13/23 1731</th> <th>Date Time 6.30 2.114/33</th> <th>This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.</th>		ANALYSIS LABORATORY) E 4901 Hawkins NE - Albuquerque, NM 87109	10	Analysis	[⊅] 0!	SW SW \$,8) PC	/ TME / TME s/8082 s/8082 s/8082 s/8082 s/8082 s/ s/ s/ s/ s/ s/ s/ s/ s/ s/ s/ s/ s/	-VC 103 103 103 10 10 10 10 10 10	15D(ethc 8 Me 9 Me 10A) 0A)	HAL BEAL No. BEAL No. BEAL No. BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V BEAC (V COL COL COL COL COL COL COL COL COL COL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							ate Time Remarks: 13/23 1731	Date Time 6.30 2.114/33	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Chain-of-Custody Record	urn-Around Time:		Project Name:	Sulliver GC 0 1	Project #:		Project Manager:		Kate Kautman	Bray	olers:	(Including CF): N/	utive 220	- 370	10000						2	cauner	ntracted to other accredited laboratories. This serv
	f-Custody Record				Project	:#:	. Sinclair abil	2	Level 4 (Full Validation)	□ Az Compliance			Matrix Samola Nama								Time: Relinquished by: Received	Time: Relinquished by:	Released to Imaging: \$711/2023 10:06:30 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

Operator:

CONDITIONS

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

District IV

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

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

CONDITIONS

Action 207380

CONDITIONS OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number: Houston, TX 77002 207380

> Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITI		
Created	Condition	Condition
By		Date
nvelez	1. Follow the recommendations provided. 2. OCD will require quarterly report for 2023. Next report due no later than July 31, 2023. 3. Since the system was re- started in December 2021, OCD will accept bi-annual (twice a year) reporting initiating in 2024.	5/11/2023