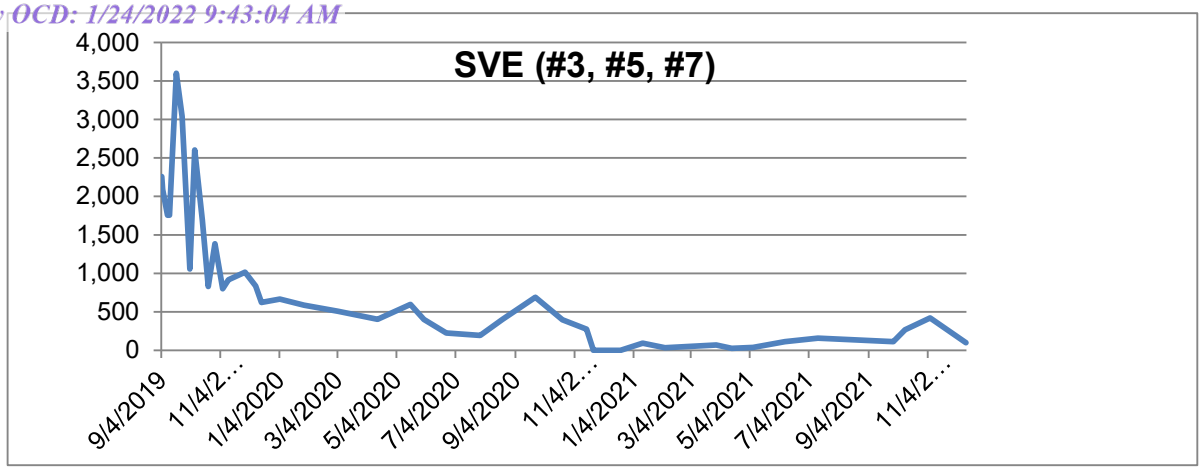
SIMCOE LLC - Jaquez Gas Com B 003E

Summary SVE System Monitoring Data

Review of the Jacquez Gas com B 003E SVE System: Content Satisfactory
1. Continue to operate and conduct O&M
2. Submit Annual Reports and submissions by April 1, 2024.
If not already complete, please upload a memo into the well file for reasons that readings were not recorded for 2020. i.e. COVID, etc.

Date	SVE Pt.	Exhaust OVM (ppm)	Exhaust Vacuum (in)	Exhaust Rate (cfm)	System Operational at Time of Arrival?	H_2O Drained from drum?	H_2O Amt. Drained (Gal.)?	Comments
8/27/2019	see comments	1,765	24	50	-	-	-	Initial start up (SVE - #2,#3,#4,#5,#6,#7 open)
8/28/2019	see comments	1,727	24	50	YES	NO		(SVE - #2,#3,#4,#5,#6,#7 open), drum water below drain plug
8/29/2019	see comments	1,441	24	NA	YES	NO		(SVE - #2,#3,#4,#5,#6,#7 open), drum water below drain plug
8/30/2019	see comments	3,755	25	50	YES	NO		(SVE - #2,#3,#4,#5,#6,#7 open), drum water below drain plug
8/31/2019	see comments	3,549	25	50	YES	NO		(SVE - #2,#3,#4,#5,#6,#7 open), drum water below drain plug
9/3/2019	see comments	1,718	20	50	YES	NO		All 9 SVE pts. open; drum water below drain plug
9/4/2019	#3,#5,#7	2,257	42	50	YES	NO		drum water below drain plug
9/5/2019	#3,#5,#7	2,090	42	60	YES	NO		drum water below drain plug
9/10/2019	#3,#5,#7	1,757	42	60	YES	NO		drum water below drain plug
9/12/2019	#3,#5,#7	1,757	41	60	YES	NO		drum water below drain plug
9/19/2019	#3,#5,#7	3,600	41	50	YES	NO		drum water below drain plug
9/25/2019	#3,#5,#7	3,040	41	NA	YES	NO		Water in drum 2.5" above drain plug
10/3/2019	#3,#5,#7	1,057	40	50	YES	NO		Water in drum not measured
10/8/2019	#3,#5,#7	2,603	40	NA	YES	YES	15.50	Peak reading for OVM recorded
10/16/2019	#3,#5,#7	1,695	39	NA	YES	YES	17.00	Drained, restarted
10/22/2019	#3,#5,#7	830	39	50	YES	YES	14.00	Drained, restarted
10/29/2019	#3,#5,#7	1,384	38	NA	YES	YES	20.50	Drained, restarted
11/1/2019	#3,#5,#7	NA	38	NA	YES	YES	14.00	Drained, restarted
11/6/2019	#3,#5,#7	800	36	NA	YES	YES	16.00	Drained, restarted
11/12/2019	#3,#5,#7	917	36	NA	YES	YES	17.00	Drained, restarted
11/22/2019	#3,#5,#7	NA	NA	NA	NO	NO		high water level shut off, drum water below drain plug, restarted
11/29/2019	#3,#5,#7	1,015	34	80	YES	YES	25.50	Drained, restarted
12/6/2019	#3,#5,#7	NA	33	NA	NO	YES	9.00	Drained, restarted, then collected data
12/10/2019	#3,#5,#7	836	34	NA	YES	YES	14.00	Drained, restarted
12/16/2019	#3,#5,#7	623	33	95	YES	YES	22.00	Drained, restarted


SVE (#3, #5, #7)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
9/4/2019
11/4/2…
1/4/2020
3/4/2020
5/4/2020
7/4/2020
9/4/2020
11/4/2…
1/4/2021
3/4/2021
5/4/2021
7/4/2021
9/4/2021
11/4/2…

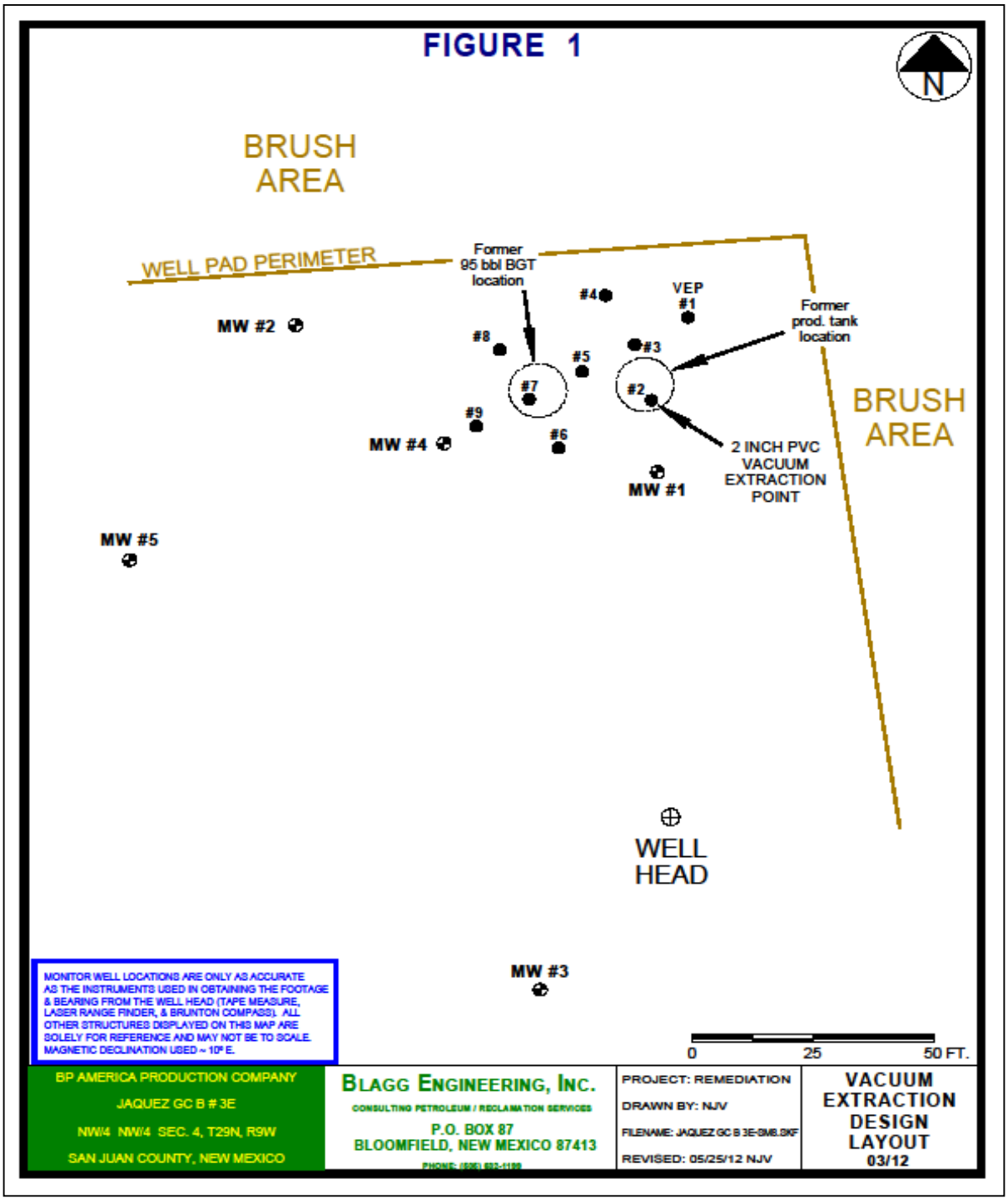


FIGURE 1
N
BRUSH AREA
WELL PAD PERIMETER
Former 95 bbl BGT location
VEP #1
#4
MW #2
#8
#5
#3
Former prod. tank location
#7
#2
BRUSH AREA
#9
MW #4
#6
2 INCH PVC VACUUM EXTRACTION POINT
MW #1
MW #5
WELL HEAD
MW #3
MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.
0
25
50 FT.
BP AMERICA PRODUCTION COMPANY
JAQUEZ GC B # 3E
NW/4 NW/4 SEC. 4, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO
BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PROJECT: REMEDIATION
DRAWN BY: NJV
FILENAME: JAQUEZ GC B 3E-SMB.SKF
REVISED: 05/25/12 NJV
VACUUM EXTRACTION DESIGN LAYOUT
03/12

SIMCOE, LLC. - Jaquez GC B #3E

SVE (#3, #5, #7) OVM Data

Date	Exhaust OVM (ppm)
9/4/2019	2,257
9/5/2019	2,090
9/10/2019	1,757
9/12/2019	1,757
9/19/2019	3,600
9/25/2019	3,040
10/3/2019	1,057
10/8/2019	2,603
10/16/2019	1,695
10/22/2019	830
10/29/2019	1,384
11/6/2019	800
11/12/2019	917
11/29/2019	1,015
12/10/2019	836
12/16/2019	623
1/4/2020	665
1/29/2020	587
3/4/2020	508
4/14/2020	404
5/18/2020	596
6/1/2020	402
6/24/2020	226
7/29/2020	194
8/21/2020	401
9/24/2020	689
10/22/2020	398
11/16/2020	274
11/23/2020	-
12/4/2020	-
12/10/2020	-
12/15/2020	-
12/21/2020	-
1/13/2021	94.0
2/5/2021	34.0
3/30/2021	69.0
4/15/2021	27.0
5/7/2021	38.0
6/9/2021	113.0
7/13/2021	159.0
9/29/2021	113.0
10/11/2021	267.0
11/6/2021	422.0
12/13/2021	100.0

Date	Exhaust OVM (ppm)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 01, 2021

Steve Moskal
SIMCOE
1100 Main St.
Durango, CO 81301
TEL: (505) 330-9179
FAX

RE: Jaquez GC B 3E OrderNo.: 2108C69

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/24/2021 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2108C69**
Date Reported: **9/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE
Client Sample ID: SVE (VEP #3,#5,#7)
Project: Jaquez GC B 3E
Collection Date: 8/20/2021 11:45:00 AM
Lab ID: 2108C69-001 **Matrix:** AIR
Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Toluene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Ethylbenzene	0.10	0.10		µg/L	1	8/24/2021 3:43:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2,4-Trimethylbenzene	0.60	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,3,5-Trimethylbenzene	1.6	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Naphthalene	ND	0.20		µg/L	1	8/24/2021 3:43:00 PM
1-Methylnaphthalene	ND	0.40		µg/L	1	8/24/2021 3:43:00 PM
2-Methylnaphthalene	ND	0.40		µg/L	1	8/24/2021 3:43:00 PM
Acetone	ND	1.0		µg/L	1	8/24/2021 3:43:00 PM
Bromobenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Bromodichloromethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Bromoform	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Bromomethane	ND	0.20		µg/L	1	8/24/2021 3:43:00 PM
2-Butanone	ND	1.0		µg/L	1	8/24/2021 3:43:00 PM
Carbon disulfide	ND	1.0		µg/L	1	8/24/2021 3:43:00 PM
Carbon tetrachloride	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Chlorobenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Chloroethane	ND	0.20		µg/L	1	8/24/2021 3:43:00 PM
Chloroform	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Chloromethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
2-Chlorotoluene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
4-Chlorotoluene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
cis-1,2-DCE	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	8/24/2021 3:43:00 PM
Dibromochloromethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Dibromomethane	ND	0.20		µg/L	1	8/24/2021 3:43:00 PM
1,2-Dichlorobenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,3-Dichlorobenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,4-Dichlorobenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Dichlorodifluoromethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,1-Dichloroethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,1-Dichloroethene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2-Dichloropropane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,3-Dichloropropane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
2,2-Dichloropropane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2108C69**
Date Reported: **9/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE
Client Sample ID: SVE (VEP #3,#5,#7)
Project: Jaquez GC B 3E
Collection Date: 8/20/2021 11:45:00 AM
Lab ID: 2108C69-001 **Matrix:** AIR
Received Date: 8/24/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Hexachlorobutadiene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
2-Hexanone	ND	1.0		µg/L	1	8/24/2021 3:43:00 PM
Isopropylbenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
4-Isopropyltoluene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
4-Methyl-2-pentanone	ND	1.0		µg/L	1	8/24/2021 3:43:00 PM
Methylene chloride	ND	0.30		µg/L	1	8/24/2021 3:43:00 PM
n-Butylbenzene	ND	0.30		µg/L	1	8/24/2021 3:43:00 PM
n-Propylbenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
sec-Butylbenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Styrene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
tert-Butylbenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
trans-1,2-DCE	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,1,1-Trichloroethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,1,2-Trichloroethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Trichloroethene (TCE)	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Trichlorofluoromethane	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
1,2,3-Trichloropropane	ND	0.20		µg/L	1	8/24/2021 3:43:00 PM
Vinyl chloride	ND	0.10		µg/L	1	8/24/2021 3:43:00 PM
Xylenes, Total	5.0	0.15		µg/L	1	8/24/2021 3:43:00 PM
Surr: Dibromofluoromethane	84.8	70-130		%Rec	1	8/24/2021 3:43:00 PM
Surr: 1,2-Dichloroethane-d4	82.7	70-130		%Rec	1	8/24/2021 3:43:00 PM
Surr: Toluene-d8	109	70-130		%Rec	1	8/24/2021 3:43:00 PM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	8/24/2021 3:43:00 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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ANALYTICAL SUMMARY REPORT

September 01, 2021

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

Work Order: G21080483

Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 8/27/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G21080483-001	2108C69-001A; SVE (VEP #3,#5,#7)	08/20/21 11:45	08/27/21	Gas	Natural Gas Analysis - BTU Natural Gas Analysis - Compressibility Factor Natural Gas Analysis - GPM Natural Gas Analysis - Molecular Weight Natural Gas Analysis - Routine Natural Gas Analysis - Pressure Base Natural Gas Analysis - Psuedo-Critical Pressure Natural Gas Analysis - Psuedo-Critical Temperature Natural Gas Analysis - Specific Gravity Natural Gas Analysis - Temperature Base

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

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

Report Approved By:

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LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: Not Indicated
Client Sample ID: 2108C69-001A; SVE (VEP #3,#5,#7)
Location:
Lab ID: G21080483-001

Report Date: 09/01/21
Collection Date: 08/20/21 11:45
Date Received: 08/27/21
Sampled By: Not Provided

Analyses	Result	Units	Qualifier	Method	Analysis Date / By
NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT					
Oxygen	22.045	Mol %		GPA 2261	08/31/21 14:47 / djb
Nitrogen	77.790	Mol %		GPA 2261	08/31/21 14:47 / djb
Carbon Dioxide	0.165	Mol %		GPA 2261	08/31/21 14:47 / djb
Hydrogen Sulfide	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
Methane	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
Ethane	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
Propane	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
Isobutane	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
n-Butane	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
Isopentane	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
n-Pentane	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
Hexanes plus	< 0.001	Mol %		GPA 2261	08/31/21 14:47 / djb
GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS					
GPM Ethane	< 0.0003	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM Propane	< 0.0003	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM Isobutane	< 0.0003	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM n-Butane	< 0.0003	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM Isopentane	< 0.0004	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM n-Pentane	< 0.0004	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM Hexanes plus	< 0.0004	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM Pentanes plus	< 0.0004	gal/MCF		GPA 2261	08/31/21 14:47 / djb
GPM Total	< 0.0004	gal/MCF		GPA 2261	08/31/21 14:47 / djb
CALCULATED PROPERTIES					
Calculation Pressure Base	14.730	psia		GPA 2261	08/31/21 14:47 / djb
Calculation Temperature Base	60	°F		GPA 2261	08/31/21 14:47 / djb
Compressibility Factor, Z	1.0000	unitless		GPA 2261	08/31/21 14:47 / djb
Molecular Weight	28.92	unitless		GPA 2261	08/31/21 14:47 / djb
Pseudo-critical Pressure, psia	547	psia		GPA 2261	08/31/21 14:47 / djb
Pseudo-critical Temperature, deg R	239	deg R		GPA 2261	08/31/21 14:47 / djb
Specific Gravity (air=1.000)	1.002	unitless		GPA 2261	08/31/21 14:47 / djb
Gross BTU per cu ft @ std cond, dry	< 0.01	BTU/cu ft		GPA 2261	08/31/21 14:47 / djb
Gross BTU per cu ft @ std cond, wet	< 0.01	BTU/cu ft		GPA 2261	08/31/21 14:47 / djb

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental **Work Order:** G21080483 **Report Date:** 09/01/21

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261**									Analytical Run: R266561
Lab ID: **ICV-2108311251**	Initial Calibration Verification Standard								08/31/21 12:52
Oxygen	0.386	Mol %	0.001	96	75	110			
Nitrogen	5.098	Mol %	0.001	102	90	110			
Carbon Dioxide	4.902	Mol %	0.001	99	90	110			
Hydrogen Sulfide	0.124	Mol %	0.001	125	100	136			
Methane	73.180	Mol %	0.001	100	90	110			
Ethane	5.011	Mol %	0.001	101	90	110			
Propane	5.019	Mol %	0.001	101	90	110			
Isobutane	2.001	Mol %	0.001	100	90	110			
n-Butane	1.982	Mol %	0.001	99	90	110			
Isopentane	0.990	Mol %	0.001	99	90	110			
n-Pentane	0.999	Mol %	0.001	100	90	110			
Hexanes plus	0.308	Mol %	0.001	102	90	110			
Lab ID: **CCV-2108311301**	Continuing Calibration Verification Standard								08/31/21 13:01
Oxygen	0.597	Mol %	0.001	99	90	110			
Nitrogen	1.272	Mol %	0.001	91	85	110			
Carbon Dioxide	0.951	Mol %	0.001	95	90	110			
Hydrogen Sulfide	0.031	Mol %	0.001	124	70	130			
Methane	93.565	Mol %	0.001	100	90	110			
Ethane	1.016	Mol %	0.001	102	90	110			
Propane	1.015	Mol %	0.001	101	90	110			
Isobutane	0.498	Mol %	0.001	99	90	110			
n-Butane	0.498	Mol %	0.001	99	90	110			
Isopentane	0.201	Mol %	0.001	100	90	110			
n-Pentane	0.201	Mol %	0.001	100	90	110			
Hexanes plus	0.155	Mol %	0.001	103	90	110			
Lab ID: **CCV-2108311525**	Continuing Calibration Verification Standard								08/31/21 15:26
Oxygen	0.614	Mol %	0.001	102	90	110			
Nitrogen	1.322	Mol %	0.001	94	85	110			
Carbon Dioxide	0.956	Mol %	0.001	96	90	110			
Hydrogen Sulfide	0.032	Mol %	0.001	128	70	130			
Methane	93.510	Mol %	0.001	100	90	110			
Ethane	1.013	Mol %	0.001	101	90	110			
Propane	1.012	Mol %	0.001	101	90	110			
Isobutane	0.494	Mol %	0.001	99	90	110			
n-Butane	0.494	Mol %	0.001	99	90	110			
Isopentane	0.199	Mol %	0.001	99	90	110			
n-Pentane	0.200	Mol %	0.001	100	90	110			
Hexanes plus	0.154	Mol %	0.001	103	90	110			
Method: **GPA 2261**									Batch: R266561
Lab ID: **G21080483-001ADUP**	Sample Duplicate				Run: Varian GC_210831A				08/31/21 14:57
Oxygen	22.043	Mol %	0.001				0.0	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental **Work Order:** G21080483 **Report Date:** 09/01/21

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261**									Batch: R266561
Lab ID: **G21080483-001ADUP**	Sample Duplicate				Run: Varian GC_210831A			08/31/21 14:57	
Nitrogen	77.792	Mol %	0.001				0.0	10	
Carbon Dioxide	0.165	Mol %	0.001				0.0	10	
Hydrogen Sulfide	< 0.001	Mol %	0.001					10	
Methane	< 0.001	Mol %	0.001					10	
Ethane	< 0.001	Mol %	0.001					10	
Propane	< 0.001	Mol %	0.001					10	
Isobutane	< 0.001	Mol %	0.001					10	
n-Butane	< 0.001	Mol %	0.001					10	
Isopentane	< 0.001	Mol %	0.001					10	
n-Pentane	< 0.001	Mol %	0.001					10	
Hexanes plus	< 0.001	Mol %	0.001					10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

Work Order Receipt Checklist

Hall Environmental

G21080483

Login completed by: Chantel S. Johnson
Date Received: 8/27/2021
Reviewed by: Misty Stephens
Received by: csj
Reviewed Date: 8/31/2021
Carrier name: FedEx

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 Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Applicable ☑
Container/Temp Blank temperature:	°C		
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.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None

HALL ENVIRONMENTAL ANALYSIS LABORATORY

CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

SUB CONTRATOR: **Energy Labs-Gillette**	COMPANY: **Energy Laboratories**	PHONE: **(866) 686-7175**	FAX:
ADDRESS: **400 W Boxelder Rd**		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP: **Gillette, WY 82718**			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2108C69-001A	SVE (VEP #3,#5,#7)	TEDLAR	Air	8/20/2021 11:45:00 AM	1	Natural Gases CO2, O2

SPECIAL INSTRUCTIONS / COMMENTS:

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

G2108C69

Relinquished By: See	Date: 8/24/2021	Time: 11:13 AM	Received By: Chanel Johnson	Date: 8/27/2021	Time: 1200
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☑ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples 1 °C Attempt to Cool ? N/A
Comments: Custody Tape

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C69**
01-Sep-21

Client: SIMCOE
Project: Jaquez GC B 3E

Sample ID: **2108C69-001a** SampType: **DUP** TestCode: **EPA Method 8260B: Volatiles**
Client ID: **SVE (VEP #3,#5,#7)** Batch ID: **R80746** RunNo: **80746**
Prep Date: Analysis Date: **8/24/2021** SeqNo: **2849246** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.10						0	20	
Toluene	ND	0.10						0	20	
Ethylbenzene	0.098	0.050						2.22	20	
Methyl tert-butyl ether (MTBE)	ND	0.10						0	20	
1,2,4-Trimethylbenzene	0.60	0.10						1.60	20	
1,3,5-Trimethylbenzene	1.6	0.10						1.92	20	
1,2-Dichloroethane (EDC)	ND	0.10						0	20	
1,2-Dibromoethane (EDB)	ND	0.10						0	20	
Naphthalene	ND	0.20						0	20	
1-Methylnaphthalene	ND	0.40						0	20	
2-Methylnaphthalene	ND	0.40						0	20	
Acetone	ND	1.0						0	20	
Bromobenzene	ND	0.10						0	20	
Bromodichloromethane	ND	0.10						0	20	
Bromoform	ND	0.10						0	20	
Bromomethane	ND	0.20						0	20	
2-Butanone	ND	1.0						0	20	
Carbon disulfide	ND	1.0						0	20	
Carbon tetrachloride	ND	0.10						0	20	
Chlorobenzene	ND	0.10						0	20	
Chloroethane	ND	0.20						0	20	
Chloroform	ND	0.10						0	20	
Chloromethane	ND	0.10						0	20	
2-Chlorotoluene	ND	0.10						0	20	
4-Chlorotoluene	ND	0.10						0	20	
cis-1,2-DCE	ND	0.10						0	20	
cis-1,3-Dichloropropene	ND	0.10						0	20	
1,2-Dibromo-3-chloropropane	ND	0.20						0	20	
Dibromochloromethane	ND	0.10						0	20	
Dibromomethane	ND	0.20						0	20	
1,2-Dichlorobenzene	ND	0.10						0	20	
1,3-Dichlorobenzene	ND	0.10						0	20	
1,4-Dichlorobenzene	ND	0.10						0	20	
Dichlorodifluoromethane	ND	0.10						0	20	
1,1-Dichloroethane	ND	0.10						0	20	
1,1-Dichloroethene	ND	0.10						0	20	
1,2-Dichloropropane	ND	0.10						0	20	
1,3-Dichloropropane	ND	0.10						0	20	
2,2-Dichloropropane	ND	0.10						0	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108C69**
01-Sep-21

Client: SIMCOE
Project: Jaquez GC B 3E

Sample ID: **2108C69-001a** SampType: **DUP** TestCode: **EPA Method 8260B: Volatiles**
Client ID: **SVE (VEP #3,#5,#7)** Batch ID: **R80746** RunNo: **80746**
Prep Date: Analysis Date: **8/24/2021** SeqNo: **2849246** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	0.10						0	20	
Hexachlorobutadiene	ND	0.10						0	20	
2-Hexanone	ND	1.0						0	20	
Isopropylbenzene	ND	0.10						0	20	
4-Isopropyltoluene	ND	0.10						0	20	
4-Methyl-2-pentanone	ND	1.0						0	20	
Methylene chloride	ND	0.30						0	20	
n-Butylbenzene	ND	0.30						0	20	
n-Propylbenzene	ND	0.10						0	20	
sec-Butylbenzene	ND	0.10						0	20	
Styrene	ND	0.10						0	20	
tert-Butylbenzene	ND	0.10						0	20	
1,1,1,2-Tetrachloroethane	ND	0.10						0	20	
1,1,2,2-Tetrachloroethane	ND	0.10						0	20	
Tetrachloroethene (PCE)	ND	0.10						0	20	
trans-1,2-DCE	ND	0.10						0	20	
trans-1,3-Dichloropropene	ND	0.10						0	20	
1,2,3-Trichlorobenzene	ND	0.10						0	20	
1,2,4-Trichlorobenzene	ND	0.10						0	20	
1,1,1-Trichloroethane	ND	0.10						0	20	
1,1,2-Trichloroethane	ND	0.10						0	20	
Trichloroethene (TCE)	ND	0.10						0	20	
Trichlorofluoromethane	ND	0.10						0	20	
1,2,3-Trichloropropane	ND	0.20						0	20	
Vinyl chloride	ND	0.10						0	20	
Xylenes, Total	5.0	0.15						1.04	20	
Surr: Dibromofluoromethane	0.81		1.000		81.1	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	0.81		1.000		81.3	70	130	0	0	
Surr: Toluene-d8	1.1		1.000		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: SIMCOE Work Order Number: 2108C69 RcptNo: 1

Received By: Cheyenne Cason 8/24/2021 7:00:00 AM

Completed By: Sean Livingston 8/24/2021 10:45:49 AM

Reviewed By: SPA 8.24.21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the 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)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: KPA 8/24/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good				

Chain-of-Custody Record

Client: SIMCOE LLC / COTTONWOOD CONSULTING

Mailing Address: 1199 Main St., Suite # 101
Durango, Colo. 81301

Phone #: (505) 330-9179

email or Fax#: steven.moskal@ikavenergy.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name:
JAQUEZ GC B # 3E

Project #:

Project Manager:
Steve Moskal - SIMCOE LLC

Sampler: **Emma Millar - Cottonwood**
On Ice: ☐ Yes ☒ No
Sample Temperature: NA

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	Chloride (soil - 300.0 / water - 300.1)	Carbon Dioxide	Oxygen	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
8/20/21	1145	AIR	SVE (VEP #3, #5, #7)	tedlar bag - 1	n/a	2108669 001										√		√	√	√		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/20/21	1430			8/20/21	1430
8/23/21	1430			8/23/21	1430
8/23/21	1827			8/24/21	0760

Remarks: **BILL DIRECTLY TO IKAV ENERGY INC.**

CONTACT: **Steve Moskal** **PO to be provided (O&M)**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 74620

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 74620
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Jacquez Gas com B 003E SVE System: Content Satisfactory 1. Continue to operate and conduct O&M 2. Submit Annual Reports and submissions by April 1, 2024. 3. If not already complete, please upload a memo into the well file for reasons that readings were not recorded for 2020. i.e. COVID, etc.	1/19/2024