



Certificate of Analysis

Number: 6030-21050072-012A

Artesia Laboratory
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Tyler Cox
EOG Resources
1201 S. 3rd St
Jal, NM 88252

May 12, 2021

Station Name: VACA 24 FED COM CTB FC
Station Number: 14160951
Cylinder No: 5030-01656
Instrument: 70104251 (Inficon GC-MicroFusion)
Last Inst. Cal.: 05/10/2021 0:00 AM
Analyzed: 05/12/2021 12:45:34 by KNF

Sampled By: Alexander Luttrull
Sample Of: Gas Spot
Sample Date: 04/29/2021 11:37
Sample Conditions: 103 psia, @ 76 °F Ambient: 55 °F
Effective Date: 04/29/2021 11:37
Method: GPA-2261M

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Water	0.0000	0.4519	0.3605		GPM TOTAL C2+	7.347
Hydrogen Sulfide	0.0000	0.0000	0.0000		GPM TOTAL C3+	3.582
Nitrogen	1.4683	1.4551	1.8051		GPM TOTAL iC5+	0.521
Carbon Dioxide	0.5327	0.5279	1.0288			
Methane	72.2714	71.6202	50.8800			
Ethane	14.1494	14.0218	18.6707	3.7651		
Propane	7.6813	7.6120	14.8639	2.1056		
Iso-butane	0.8405	0.8329	2.1437	0.2737		
n-Butane	2.1725	2.1529	5.5412	0.6815		
Iso-pentane	0.3877	0.3843	1.2278	0.1411		
n-Pentane	0.4386	0.4346	1.3885	0.1582		
Hexanes Plus	0.5110	0.5064	2.0898	0.2219		
	100.4534	100.0000	100.0000	7.3471		

Physical Properties

	Total	C6+
Relative Density Real Gas	0.7828	3.2176
Calculated Molecular Weight	22.58	93.19
Compressibility Factor	0.9957	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

			02/11/21	01/20/21
Real Gas Dry BTU	1333.74	5141.09	1335.29	1330.86
Water Sat. Gas Base BTU	1311.09	5051.61	1312.60	1308.25

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

Real Gas Dry BTU	1326.47	5113.17	1328.01	1323.60
Water Sat. Gas Base BTU	1303.82	5023.69	1305.32	1301.00

Comments: H2S Field Content 0.4 ppm

C6+ Composition Group Properties (assumed): C6 - 60.00%, C7 - 30.00%, C8 - 10.00%

Report generated by: Eric Ramirez

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

HOURLY GAS VOLUME STATEMENT

EOG Resources, Inc.

May 25, 2021

Meter #: 14160956

Name: VACA 24 FED COM CTB HP FL

Pressure Base:	Meter Status:		CO2	N2	C1	C2	C3	I-C4	N-C4	I-C5
Temperature Base:	Contract Hr.:	9 AM	0.528	1.455	71.620	14.022	7.612	0.833	2.153	0.384
Atmos Pressure:	Full Wellstream:		N-C5	NeoC5	C6	C7	C8	C9	C10	
Calc Method:	WV Technique:		0.435		0.506					
Z Method:	WV Method:									
	HV Cond:	Wet	O2	H2	CO	He	Ar	H2S	H2S ppm	H2O
Tap Location:	Meter Type:	EFM	0.000	0.000		0.000		0.0000	0.400	0.452
Tap Type:	Interval:	1 Hour								

Hour	Differential (In. H2O)	Pressure (psi)	Temp. (°F)	Flow Time (hrs)	Relative Density	Plate (inches)	Volume (Mcf)	Heating Value (Btu)	Energy (MMBtu)	Edited
0	0.00	98.16	61.29	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
1	0.00	106.89	61.20	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
2	0.00	107.35	61.27	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
3	0.00	104.39	61.14	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
4	0.00	103.51	60.49	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
5	0.00	102.87	60.44	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
6	0.00	103.32	62.07	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
7	0.00	105.70	69.98	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
8	0.00	104.94	82.25	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
9	33.98	31.93	97.56	0.21	0.7828	4.5000	31.583	1311.09	41.408	Yes
10	36.71	32.42	102.21	0.80	0.7828	4.5000	128.267	1311.09	168.170	Yes
11	0.00	98.29	114.00	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
12	0.00	99.75	119.42	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
13	0.00	96.78	123.03	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
14	0.00	105.19	124.26	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
15	0.00	96.41	123.00	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
16	0.00	92.01	120.69	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
17	0.00	90.80	118.58	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
18	0.00	93.35	112.27	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
19	0.00	98.64	95.04	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
20	0.00	94.48	81.62	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
21	0.00	94.16	76.60	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
22	0.00	94.57	73.63	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
23	0.00	95.01	71.16	0.00	0.7828	4.5000	0.000	1311.09	0.000	Yes
Total	36.17	32.32	101.29	1.00	0.7828		159.850		209.578	

Edit Reasons:

From	To	Edit Reason
05/24/2021 09:00 PM	05/25/2021 02:00 AM	Meter Data Import: Source Analysis Apply
05/25/2021 01:00 AM	05/25/2021 02:00 AM	Meter Data Import: Source Analysis Apply
05/25/2021 02:00 AM	05/25/2021 09:00 AM	Meter Data Import: Source Analysis Apply
05/25/2021 09:28 AM	05/25/2021 02:00 PM	Meter Data Import: Source Analysis Apply
05/25/2021 02:00 PM	05/26/2021 02:00 AM	Meter Data Import: Source Analysis Apply

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

QUESTIONS

Action 29884

QUESTIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377 Action Number: 29884 Action Type: [C-129] Venting and/or Flaring (C-129)
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QUESTIONS**Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.297 NMAC.	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Not answered.
Facility Type	Not answered.

Equipment Involved

Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	05/25/2021
Time venting or flaring was discovered or commenced	10:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	05/25/2021
Time venting or flaring was terminated	11:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	1
Longest duration of cumulative hours within any 24-hour period during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Pipeline Quality Specifications Gas Compressor Station Natural Gas Flared Spilled: 160 Mcf Recovered: 0 Mcf Lost: 160 Mcf]
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity

Was or is this venting or flaring a result of downstream activity	Not answered.
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

Steps and Actions to Prevent Waste

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For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting or flaring	Monitor in real time and when alarmed, identify and work to resolve the source causing the poor gas quality
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Review past occurrences and share lessons learned whether it be formation gas, equipment/operational failures, or facility design issues

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CONDITIONS

Action 29884

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Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 29884
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	5/28/2021