

**Gas Composition and Properties**

Effective July 1, 2020 00:00 - January 18, 2038 21:14

Source #: ART82067

Name: Crossroads AFX Fed #1 Flare

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	0.1644		0.2715
Nitrogen, N2	8.4722		8.9066
Methane, C1	60.6606		36.5195
Ethane, C2	9.9097	2.6578	11.1822
Propane, C3	10.2156	2.8224	16.9047
iso-Butane, iC4	1.9788	0.6494	4.3161
n-Butane, nC4	4.4269	1.3996	9.6558
iso-Pentane, iC5	1.1631	0.4266	3.1492
n-Pentane, nC5	1.2074	0.4389	3.2691
Neo-Pentane, NeoC5			
Hexanes Plus, C6+	1.8013	0.7428	5.8253
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
Totals	100.0000	9.1380	100.0000

Property	Total Sample	C6 Plus Fraction
Pressure Base	14.730	
Temperature Base	60.00	
HCDP @ Sample Pressure		
Cricondentherm		
HV, Dry @ Base P, T	1452.00	
HV, Sat @ Base P, T	1426.73	
HV, Sat @ Sample P, T		
Relative Density	0.9292	
C6+: 100		

**Sample**

Date: Pressure:  
 Type: Temperature:  
 Tech: H2O: lbs/mm  
 H2S: ppm

Remarks:

**Analysis**

Date: Instrument:  
 Cylinder:

Tech:

Remarks:

\*\*\* End of Report \*\*\*

**GAS VOLUME STATEMENT**

EOG Resources, Inc.

**September, 2021**

Meter #: ART82067

Name: Crossroads AFX Fed #1 Flare

**Pressure Base:** 14.730 psia **Meter Status:** Active  
**Temperature Base:** 60.00 °F **Contract Hr.:** Midnight  
**Atmos Pressure:** 13.200 psi **Full Wellstream:**  
**Calc Method:** AGA3-1992 **WV Technique:**  
**Z Method:** AGA-8 Detail (1992) **WV Method:**  
**Tube I.D.:** 3.0680 in. **HV Cond:** Dry  
**Tap Location:** Upstream **Meter Type:** EFM  
**Tap Type:** Flange **Interval:** 1 Hour

CO2	N2	C1	C2	C3	I-C4	N-C4	I-C5
0.164	8.472	60.661	9.910	10.216	1.979	4.427	1.163
N-C5	NeoC5	C6	C7	C8	C9	C10	
1.207		1.801					
O2	H2	CO	He	Ar	H2S	H2S ppm	H2O

Day	Differential (In. H2O)	Pressure (psia)	Temp. (°F)	Flow Time (hrs)	Relative Density	Plate (inches)	Volume (Mcf)	Heating Value (Btu/scf)	Energy (MMBtu)
1	64.61	33.43	77.64	23.58	0.9292	0.5000	47.81	1452.00	69.42
2	85.09	34.28	79.81	24.00	0.9292	0.5000	64.94	1452.00	94.29
3	75.16	33.92	81.03	24.00	0.9292	0.5000	60.87	1452.00	88.39
4	70.61	33.77	73.76	24.00	0.9292	0.5000	59.38	1452.00	86.22
5	68.25	33.73	70.50	24.00	0.9292	0.5000	58.56	1452.00	85.03
6	70.01	33.79	78.35	24.00	0.9292	0.5000	58.84	1452.00	85.44
7	100.60	29.71	83.01	24.00	0.9292	0.5000	62.75	1452.00	91.11
8	101.90	26.12	77.42	24.00	0.9292	0.5000	61.08	1452.00	88.69
9	100.29	26.10	79.72	24.00	0.9292	0.5000	60.48	1452.00	87.81
10	99.50	26.00	79.92	24.00	0.9292	0.5000	60.13	1452.00	87.30
11	85.26	27.82	78.33	23.99	0.9292	0.5000	58.05	1452.00	84.29
12	79.69	28.57	75.17	24.00	0.9292	0.5000	57.36	1452.00	83.28
13	78.24	28.38	73.70	24.00	0.9292	0.5000	56.73	1452.00	82.37
14	77.40	28.29	76.11	24.00	0.9292	0.5000	56.23	1452.00	81.64
15	75.39	28.23	77.34	24.00	0.9292	0.5000	55.44	1452.00	80.50
16	73.37	28.12	77.31	24.00	0.9292	0.5000	54.61	1452.00	79.30
17	72.31	28.12	76.94	24.00	0.9292	0.5000	54.24	1452.00	78.76
18	71.26	28.13	77.19	24.00	0.9292	0.5000	53.87	1452.00	78.22
19	71.60	28.05	79.77	24.00	0.9292	0.5000	53.78	1452.00	78.08
20	70.82	28.00	80.42	24.00	0.9292	0.5000	53.43	1452.00	77.59
21	65.55	27.97	66.48	24.00	0.9292	0.5000	52.18	1452.00	75.76
22	64.65	27.90	65.29	24.00	0.9292	0.5000	51.80	1452.00	75.22
23	66.11	27.81	71.29	24.00	0.9292	0.5000	51.94	1452.00	75.42
24	66.27	27.82	74.56	24.00	0.9292	0.5000	51.87	1452.00	75.32
25	64.70	27.80	71.30	24.00	0.9292	0.5000	51.44	1452.00	74.69
26	64.98	27.76	73.30	24.00	0.9292	0.5000	51.42	1452.00	74.66
27	64.54	27.73	74.76	23.95	0.9292	0.5000	51.05	1452.00	74.12
28	62.32	27.57	66.83	24.00	0.9292	0.5000	50.54	1452.00	73.38
29	62.74	27.61	70.39	24.00	0.9292	0.5000	50.55	1452.00	73.40
30	57.95	27.51	58.79	24.00	0.9292	0.5000	49.19	1452.00	71.43
<b>Total</b>	<b>75.13</b>	<b>29.07</b>	<b>75.13</b>	<b>719.52</b>	<b>0.9292</b>		<b>1,660.54</b>		<b>2,411.11</b>

**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 54376

**QUESTIONS**

Operator: Opal Operating Company LLC 4811 Gaillardia Parkway Oklahoma City, OK 73142	OGRID: 330887
	Action Number: 54376
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	[30-041-20841] CROSSROADS AFX FEDERAL #001
Incident Facility	Not answered.

<b>Determination of Reporting Requirements</b>	
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 and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring event	Yes, major venting and/or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	0
Nitrogen (N2) percentage, if greater than one percent	8
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
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.

<b>Date(s) and Time(s)</b>	
Date venting and/or flaring was discovered or commenced	09/01/2021
Time venting and/or flaring was discovered or commenced	12:01 PM
Time venting and/or flaring was terminated	11:59 PM
Cumulative hours during this event	720

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.

Natural Gas Flared (Mcf) Details	Cause: Normal Operations   Well   Natural Gas Flared   Released: 1,628 Mcf   Recovered: 0 Mcf   Lost: 1,628 Mcf
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant 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 and/or flaring a result of downstream activity	Not answered.
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

**Steps and Actions to Prevent Waste**

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	This well is included on EOG's ACO for no pipeline connection. We acquire this well as of Oct. 1 from EOG. We are working to transition from EOG's no pipeline ACO to our own.
Steps taken to limit the duration and magnitude of venting and/or flaring	Steps are being taken to evaluate and secure pipeline takeaway options
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Steps are being taken to evaluate and secure pipeline takeaway options

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CONDITIONS  
  
Action 54376

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Operator: Opal Operating Company LLC 4811 Gaillardia Parkway Oklahoma City, OK 73142	OGRID: 330887
	Action Number: 54376
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
johnsonc	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	10/6/2021