

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 ***

Range: 2/1/2022 - 2/28/2022
Location: Crossroads AFX Federal #1

																		Crossroads #1		Crossroads #1 16978 TK1				Crossroads #1 NEWOIL TK2				
Well	API Number	Date	TP	CP	Diff	MCF	Oil MTR	H2O MTR	Choke	#	Oil Haul	H2O Haul	Oil OH	H2O OH	BOPD	BWPD	Inj H2O	Notes	Top	bbl	Top	bbl	H2O	bbl	Top	bbl	H2O	bbl
Crossroads AFX Federal #1	3004120841	02/01/2022	330	19	----	48.00	----	----	64	1	185.57	0.00	110.22	0.00	55.51	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	5' 6"	110	0' 0"	0
		02/02/2022	330	19	47	44.00	----	----	64	0	0.00	0.00	163.66	0.00	53.44	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	8' 2"	164	0' 0"	0
		02/03/2022	330	19	40	46.00	----	----	64	0	0.00	0.00	217.10	0.00	53.44	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	10' 10"	217	0' 0"	0
		02/04/2022	330	19	37	45.00	----	----	64	0	0.00	0.00	272.21	0.00	55.11	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	13' 7"	272	0' 0"	0
		02/05/2022	330	19	44	32.00	----	----	64	1	184.72	0.00	145.29	0.00	60.09	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	7' 3"	145	0' 0"	0
		02/06/2022	330	15	40	26.00	----	----	64	0	0.00	0.00	200.40	0.00	55.11	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	10' 0"	200	0' 0"	0
		02/07/2022	330	15	30	34.00	----	----	64	1	185.53	0.00	70.14	0.00	55.33	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	3' 6"	70	0' 0"	0
		02/08/2022	330	15	64	17.00	----	----	64	0	0.00	0.00	126.92	0.00	56.78	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	6' 4"	127	0' 0"	0
		02/09/2022	330	15	6	20.00	----	----	64	0	0.00	0.00	178.69	0.00	51.77	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	8' 11"	179	0' 0"	0
		02/10/2022	330	15	44	41.00	----	----	64	1	183.93	0.00	45.09	0.00	51.33	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	2' 3"	45	0' 0"	0
		02/11/2022	330	15	44	40.00	----	----	64	0	0.00	0.00	95.19	0.00	50.10	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	4' 9"	95	0' 0"	0
		02/12/2022	350	19	35	40.00	----	----	64	0	0.00	0.00	145.29	0.00	50.10	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	7' 3"	145	0' 0"	0
		02/13/2022	340	17	40	42.00	----	----	64	0	0.00	0.00	198.73	0.00	53.44	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	9' 11"	199	0' 0"	0
		02/14/2022	350	18	41	40.00	----	----	64	0	0.00	0.00	248.83	0.00	50.10	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	12' 5"	249	0' 0"	0
		02/15/2022	345	17	40	41.00	----	----	64	1	180.54	0.00	303.94	0.00	55.11	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	6' 2"	124	0' 0"	0
		02/16/2022	345	18	38	40.00	----	----	64	0	0.00	0.00	175.35	0.00	52.72	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	8' 9"	175	0' 0"	0
		02/17/2022	345	18	48	42.00	----	----	64	0	0.00	0.00	232.13	0.00	56.78	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	11' 7"	232	0' 0"	0
		02/18/2022	345	18	36	49.00	----	----	64	0	0.00	0.00	287.24	0.00	55.11	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	14' 4"	287	0' 0"	0
		02/19/2022	345	18	38	42.00	----	----	64	0	0.00	0.00	339.01	0.00	51.77	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	16' 11"	339	0' 0"	0
		02/20/2022	345	18	30	41.00	----	----	64	1	180.54	0.00	212.09	0.00	54.27	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	10' 7"	212	0' 0"	0
		02/21/2022	345	18	28	40.00	----	----	64	1	185.53	0.00	80.16	0.00	53.18	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	4' 0"	80	0' 0"	0
		02/22/2022	345	18	26	40.00	----	----	64	0	0.00	0.00	133.60	0.00	53.44	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	6' 8"	134	0' 0"	0
		02/23/2022	345	18	30	41.00	----	----	64	0	0.00	0.00	187.04	0.00	53.44	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	9' 4"	187	0' 0"	0
		02/24/2022	35	20	30	51.00	----	----	64	1	185.65	0.00	33.40	0.00	34.40	0.00	0	0 Well wad down on NO	0' 0"	0	0' 0"	0	0' 0"	0	1' 8"	33	0' 0"	0
		02/25/2022	360	25	40	37.00	----	----	64	0	0.00	0.00	76.82	0.00	43.42	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	3' 10"	77	0' 0"	0
		02/26/2022	355	20	50	41.00	----	----	64	0	0.00	0.00	125.25	0.00	48.43	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	6' 3"	125	0' 0"	0
		02/27/2022	360	18	40	41.00	----	----	64	0	0.00	0.00	175.35	0.00	50.10	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	8' 9"	175	0' 0"	0
		02/28/2022	350	19	38	40.00	----	----	64	0	0.00	0.00	230.46	0.00	55.11	0.00	0		0' 0"	0	0' 0"	0	0' 0"	0	11' 6"	230	0' 0"	0
Total			330	18	38	1101	----	----	--	1472	0	171.77	0.00	1469	0	0												

Total Flare	1101 mcf
Gross HV (dry)	1452 mbtu/mcf
Total Energy	1599 mmbtu

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
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DEFINITIONS

Action 91066

DEFINITIONS

Operator: Opal Operating Company LLC 4811 Gaillardia Parkway Oklahoma City, OK 73142	OGRID: 330887
	Action Number: 91066
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 91066

QUESTIONS

Operator: Opal Operating Company LLC 4811 Gaillardia Parkway Oklahoma City, OK 73142	OGRID: 330887
	Action Number: 91066
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Prerequisites**

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.

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 this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare 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 at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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 vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

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	61
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.

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QUESTIONS, Page 2

Action 91066

QUESTIONS (continued)

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	Action Number: 91066
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/01/2022
Time vent or flare was discovered or commenced	12:01 PM
Time vent or flare was terminated	12:01 PM
Cumulative hours during this event	672

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Normal Operations Well Natural Gas Flared Released: 1,101 Mcf Recovered: 0 Mcf Lost: 1,101 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 this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	The gas gatherer has taken the line out of service. Producing the well is critical to maintain leases and our fiduciary responsibility to stakeholders. We are in progress of a permanent solution working with RCEC and WFPC.
Steps taken to limit the duration and magnitude of vent or flare	This project is in progress to construct on-site natural gas generation and consume 100% of the flared gas volume.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Completed the engineering design and procuring required materials to complete the project.

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ACKNOWLEDGMENTS

Action 91066

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	Action Number: 91066
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 91066

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Operator: Opal Operating Company LLC 4811 Gaillardia Parkway Oklahoma City, OK 73142	OGRID: 330887
	Action Number: 91066
	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.	3/17/2022