

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			

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

Totals	100.0000	9.1380	100.0000
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Sample

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

Remarks: _____

Analysis

Date: _____ Instrument: _____
 Tech: _____ Cylinder: _____

Remarks: _____

*** End of Report ***

Production Daily - Details

Range: 11/1/2021 - 12/1/2021
 Location: Crossroads APX Federal #1

12/6/2021 11:00:20 AM CST

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	Crossroads #1	Crossroads #1 16978 TK1	Crossroads #1 NEWOIL TK2								
Crossroads APX Federal #1	3004120841	11/01/2021	---	---	---	0.00	---	---	---	0	0.00	0.00	136.94	47.26	0.00	0.00	0											
		11/02/2021	---	---	---	0.00	---	---	---	0	0.00	136.94	47.26	0.00	0.00	0												
		11/03/2021	250	0	0	0.00	---	---	64	0	0.00	136.94	47.26	0.00	0.00	0	Well back online at 9:45	1'5"	47	0'0"	0	0'0"	0	6'10"	137	0'0"	0	
		11/04/2021	250	15	0	0.00	---	---	64	0	0.00	173.68	86.18	36.74	38.92	0		2'7"	86	0'0"	0	0'0"	0	8'8"	174	0'0"	0	
		11/05/2021	250	20	44	16.00	---	---	64	0	0.00	225.45	88.96	51.77	2.78	0		2'8"	89	0'0"	0	0'0"	0	11'3"	225	0'0"	0	
		11/06/2021	250	15	100	49.00	---	---	64	1	185.55	0.00	93.52	97.30	8.34	0		2'11"	97	0'0"	0	0'0"	0	4'8"	94	0'0"	0	
		11/07/2021	240	15	110	68.00	---	---	64	0	0.00	153.64	100.08	60.12	2.78	0		3'0"	100	0'0"	0	0'0"	0	7'8"	154	0'0"	0	
		11/08/2021	240	15	130	70.00	---	---	64	0	0.00	233.80	102.86	80.16	2.78	0		3'1"	103	0'0"	0	0'0"	0	11'8"	234	0'0"	0	
		11/09/2021	230	15	121	70.00	---	---	64	1	185.11	0.00	125.25	102.86	75.58	0.00		3'1"	103	0'0"	0	0'0"	0	6'3"	125	0'0"	0	
		11/10/2021	245	15	---	41.00	---	---	64	0	0.00	205.41	102.86	60.12	0.00	0	Production down due to	3'1"	103	0'0"	0	0'0"	0	7'3"	145	0'0"	0	
		11/11/2021	245	15	77	35.00	---	---	64	0	0.00	272.21	102.86	64.32	0.00	0		3'1"	103	0'0"	0	0'0"	0	10'3"	205	0'0"	0	
		11/12/2021	245	15	80	53.00	---	---	64	0	0.00	212.09	102.86	60.12	0.00	0		3'1"	103	0'0"	0	0'0"	0	13'7"	272	0'0"	0	
		11/13/2021	245	15	69	50.00	---	---	64	1	184.71	0.00	151.97	102.86	64.32	0.00		3'1"	103	0'0"	0	0'0"	0	7'7"	152	0'0"	0	
		11/14/2021	245	15	54	54.00	---	---	64	0	0.00	90.18	102.86	63.78	0.00	0		3'1"	103	0'0"	0	0'0"	0	4'6"	90	0'0"	0	
		11/15/2021	245	15	56	50.00	---	---	64	1	185.68	0.00	150.30	102.86	60.12	0.00		3'1"	103	0'0"	0	0'0"	0	7'6"	150	0'0"	0	
		11/16/2021	245	15	55	53.00	---	---	64	0	0.00	100.20	102.86	68.47	47.16	0		3'4"	111	0'0"	0	0'0"	0	1'7"	32	0'0"	0	
		11/17/2021	245	15	50	52.00	---	---	64	0	0.00	125.00	100.20	33.36	68.47	0		1'0"	33	0'0"	0	0'0"	0	5'0"	100	0'0"	0	
		11/18/2021	245	15	49	52.00	---	---	64	0	0.00	165.33	33.36	65.13	0.00	0		1'0"	33	0'0"	0	0'0"	0	8'3"	165	0'0"	0	
		11/20/2021	245	15	56	53.00	---	---	64	1	184.80	0.00	48.43	33.36	67.78	0.00		1'0"	33	0'0"	0	0'0"	0	2'5"	48	0'0"	0	
		11/21/2021	245	15	55	51.00	---	---	64	0	0.00	113.56	33.36	65.13	0.00	0		1'0"	33	0'0"	0	0'0"	0	5'8"	114	0'0"	0	
		11/22/2021	245	15	46	45.00	---	---	64	0	0.00	160.32	33.36	46.76	0.00	0	Production down due to	1'0"	33	0'0"	0	0'0"	0	8'0"	160	0'0"	0	
		11/23/2021	245	15	49	54.00	---	---	64	0	0.00	222.11	33.36	61.79	0.00	0		1'0"	33	0'0"	0	0'0"	0	11'1"	222	0'0"	0	
		11/24/2021	245	15	49	53.00	---	---	64	1	185.54	0.00	103.54	33.36	67.41	0.00		1'0"	33	0'0"	0	0'0"	0	5'2"	104	0'0"	0	
		11/25/2021	245	15	48	51.00	---	---	64	0	0.00	163.66	33.36	60.12	0.00	0		1'0"	33	0'0"	0	0'0"	0	8'2"	164	0'0"	0	
		11/26/2021	245	15	49	54.00	---	---	64	0	0.00	223.78	33.36	60.12	0.00	0		1'0"	33	0'0"	0	0'0"	0	11'2"	224	0'0"	0	
		11/27/2021	300	15	48	55.00	---	---	64	1	185.53	0.00	100.20	33.36	62.77	0.00		1'0"	33	0'0"	0	0'0"	0	5'0"	100	0'0"	0	
		11/28/2021	300	15	46	45.00	---	---	64	0	0.00	160.32	33.36	60.12	0.00	0		1'0"	33	0'0"	0	0'0"	0	8'0"	160	0'0"	0	
		11/29/2021	300	15	45	45.00	---	---	64	0	0.00	213.76	33.36	53.44	0.00	0		1'0"	33	0'0"	0	0'0"	0	10'8"	214	0'0"	0	
		11/30/2021	300	15	48	46.00	---	---	64	1	182.19	0.00	83.50	33.36	51.88	0.00		1'0"	33	0'0"	0	0'0"	0	4'2"	84	0'0"	0	
		Total	253	15	59	1324				1660		125	151.14	66.16	1606	111	0											

Total Flare	1324 mcf
Gross HV (dry)	1452 mbtu/mcf
Total Energy	1922 mmBtu

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 65091

QUESTIONS

Operator: Opal Operating Company LLC 4811 Gaillardia Parkway Oklahoma City, OK 73142	OGRID: 330887
	Action Number: 65091
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

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

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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.
<i>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.</i>	
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 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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
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
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 and/or flaring was discovered or commenced	11/05/2021
Time venting and/or flaring was discovered or commenced	12:01 PM
Time venting and/or flaring was terminated	12:01 PM
Cumulative hours during this event	608

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: 1,324 Mcf Recovered: 0 Mcf Lost: 1,324 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	The gas gatherer/purchaser has recently taken the line out of service due to integrity. We are working on an alternative option.
Steps taken to limit the duration and magnitude of venting and/or flaring	Steps are being taken to secure gas gathering takeaway and power generation.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Ongoing meetings and engineering design with gas gatherer and Roosevelt County Electric Co-op to secure our best available option.

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CONDITIONS
 Action 65091

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Operator: Opal Operating Company LLC 4811 Gaillardia Parkway Oklahoma City, OK 73142	OGRID: 330887
	Action Number: 65091
	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.	12/6/2021