# Received by OCD: 8/7/2022 10:37:44 AM 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 Temperature Base HCDP @ Sample Pressur Cricondentherm	14.730 60.00 re	
HV, Dry @ Base P, T	1452.00	
HV, Sat @ Base P, T HV, Sat @ Sample P, T	1426.73	
Relative Density	0.9292	
C6+: 100		

Totals 100.0000 9.1380 100.0000

Sample

Date: Pressure: Type: Temperature:

lbs/mm Tech: H2O: H2S: ppm

Remarks:

**Analysis** 

Date: Instrument:

Cylinder:

Tech:

Remarks:

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



**Production Daily - Details** 

Range: 6/1/2022 - 6/30/2022 Location: Crossroads AFX Federal #1

																	Crossroa	ds #1	Crossi	oads #1	16978	TK1	Crossroads #1 NEWOIL		TK2	
Well	API Number	Date	TP	СР	Diff	MCF	Oil MTR	H2O MTR	Choke #	Oil Haul	H2O Haul	Oil OH I	120 OH	BOPD	BWPD	Inj H2O Notes	Тор	bbl	Тор	bbl	H20	bbl	Тор	bbl	H20	bbl
Crossroads AFX	3004120841	06/01/2022	0	14	50	42.00			64 0	0.00	0.00	170.34	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	8' 6''	170	0' 0''	0
Federal #1		06/02/2022	100	0	44	41.00			64 0	0.00	0.00	202.07	11.12	31.73	0.00	0 down NO POWER at	0' 4''	11	0' 0''	0	0' 0''	0	10' 1"	202	0' 0''	0
		06/03/2022	200	14	40	38.00			64 0	0.00	0.00	247.16	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	12' 4"	247	0' 0''	0
		06/04/2022	200	14	41	40.00			64 0	0.00	0.00	290.58	11.12	43.42	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	14' 6''	291	0' 0''	0
		06/05/2022	200	14	41	41.00			64 0	0.00	0.00	335.67	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	16' 9''	336	0' 0''	0
		06/06/2022	250	14	41	41.00			64 1	185.97	0.00	195.39	11.12	43.14	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	9' 9''	195	0' 0''	0
		06/07/2022	240	13	40	42.00			64 1	180.52	0.00	60.12	11.12	43.59	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	3' 0''	60	0' 0''	0
		06/08/2022	250	13	35	41.00			64 0	0.00	0.00	105.21	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	5' 3"	105	0' 0''	0
		06/09/2022	250	14	30	41.00			64 0	0.00	0.00	150.30	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	7' 6''	150	0' 0''	0
		06/10/2022	240	13	35	42.00			64 0	0.00	0.00	193.72	11.12	43.42	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	9' 8''	194	0' 0''	0
		06/11/2022	240	14	33	42.00			64 0	0.00	0.00	238.81	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	11' 11"	239	0' 0''	0
		06/12/2022	240	14	39	41.00			64 1	185.54	0.00	100.20	11.12	43.76	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	5' 0''	100	0' 0''	0
		06/13/2022	240	14	40	42.00			64 0	0.00	0.00	145.29	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	7' 3''	145	0' 0''	0
		06/14/2022	240	14	40	42.00			64 0	0.00	0.00	190.38	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	9' 6''	190	0' 0''	0
		06/15/2022	250	13	40	42.00			64 0	0.00	0.00	235.47	11.12	45.09	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	11' 9''	235	0' 0''	0
		06/16/2022	200	13	40	41.00			64 1	185.56	0.00	93.52	11.12	40.68	0.00	0	0' 4''	11	0' 0''	0	0' 0''	0	4' 8''	94	0' 0''	0
		06/17/2022	240	15	39	41.00			64 0	0.00	0.00	136.94	13.90	43.42	2.78	0	0' 5''	14	0' 0''	0	0' 0''	0	6' 10''	137	0' 0''	0
		06/18/2022	250	15	35	42.00			64 0	0.00	0.00	177.02	13.90	40.08	0.00	0	0' 5''	14	0' 0''	0	0' 0''	0	8' 10''	177	0' 0''	0
		06/19/2022	240	13	32	42.00			64 0	0.00	0.00	217.10	13.90	40.08	0.00	0	0' 5''	14	0' 0''	0	0' 0''	0	10' 10''	217	0' 0''	0
		06/20/2022	230	12	30	41.00			64 1	185.54	0.00	78.49	16.68	44.23	2.78	0	0' 6''	17	0' 0''	0	0' 0''	0	3' 11"	78	0' 0''	0
		06/21/2022	240	10	33	42.00			64 0	0.00	0.00	120.24	16.68	41.75	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	6' 0''	120	0' 0''	0
		06/22/2022	250	11	32	42.00			64 0	0.00	0.00	163.66	16.68	43.42	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	8' 2"	164	0' 0''	0
		06/23/2022	240	12	34	41.00			64 0	0.00	0.00	207.08	16.68	43.42	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	10' 4''	207	0' 0''	0
		06/24/2022	230	11	36	41.00			64 1	185.54	0.00	63.46	16.68	40.53	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	3' 2"	63	0' 0''	0
		06/25/2022	240	13	34	42.00			64 0	0.00	0.00	106.88	16.68	43.42	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	5' 4"	107	0' 0''	0
		06/26/2022	240	14	34	42.00			64 0	0.00	0.00	150.30	16.68	43.42	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	7' 6''	150	0' 0''	0
		06/27/2022	240	14	30	41.00			64 0	0.00	0.00	193.72	16.68	43.42	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	9' 8''	194	0' 0''	0
		06/28/2022	240	14	28	42.00			64 0	0.00	0.00	235.47	16.68	41.75	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	11' 9''	235	0' 0''	0
		06/29/2022	230	13	22	42.00			64 1	185.53	0.00	91.85	16.68	39.65	0.00	0	0' 6''	17	0' 0''	0	0' 0''	0	4' 7''	92	0' 0''	0
		06/30/2022	240	14	21	41.00			64 0	0.00	0.00	135.27	19.46	43.42	2.78	0	0' 7''	19	0' 0''	0	0' 0''	0	6' 9''	135	0' 0''	0
		Total	223	13	36	1241				1294	0	167.72	13.53	1288	8	0										

Total Flare 1241 mcf Gross HV (dry) 1452 mbtu/mcf Total Energy 1802 mmbtu

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

DEFINITIONS

Action 131917

#### **DEFINITIONS**

Operator:	OGRID:
Opal Operating Company LLC	330887
4811 Gaillardia Parkway	Action Number:
Oklahoma City, OK 73142	131917
	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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 131917

Phone:(505) 476-3470 Fax:(505) 476-3462		
	QUESTIONS	
Operator: Opal Operating Company LLC		OGRID: 330887
4811 Gaillardia Parkway Oklahoma City, OK 73142		Action Number: 131917
Oklationia Gry, OK 73142		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 w	vith the rest of the questions.
Incident Well	[30-041-20841] CROSSRO	DADS 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 a	and mav provide addional quidanc	e.
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/o	r 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 ma	ay 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 <b>ANY</b> 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 withing 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.	1	
Methane (CH4) percentage	61	
Nitrogen (N2) percentage, if greater than one percent	8	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	0	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spe	ecifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Dioxide (C02) percentage quality requirement	Not answered.	

Not answered.

Oxygen (02) percentage quality requirement

QUESTIONS, Page 2

Action 131917

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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**

QUEST	ΠONS (continued)
Operator: Opal Operating Company LLC	OGRID: 330887
4811 Gaillardia Parkway	Action Number:
Oklahoma City, OK 73142	131917
	Action Type:  [C-129] Venting and/or Flaring (C-129)
QUESTIONS	•
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/01/2022
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	720
	•
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: 1,241 Mcf   Recovered: 0 Mcf   Lost: 1,241 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.
No. 20 1 Day 1 Day 1 Day 1	
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 gas line out of service. Producing the oil volumes is critical to maintain leases and preserve our fiduciary duties to the stakeholders. Work is ongoing for a permanent solution to remedy gas flaring.
Steps taken to limit the duration and magnitude of vent or flare	Construction of on-site natural gas powered generation is in progress. The generation will consume 100% of the natural gas being flared. We are operating under an approved Amendment #2 with our ACO.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Completed the engineering design, project approval and procurement of materials. Supply chain issues have caused delay with a critical piece of equipment. Construction is in progress.

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

ACKNOWLEDGMENTS

Action 131917

# **ACKNOWLEDGMENTS**

Operator:	OGRID:
Opal Operating Company LLC	330887
4811 Gaillardia Parkway	Action Number:
Oklahoma City, OK 73142	131917
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

## **ACKNOWLEDGMENTS**

V	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 <b>a complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	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.
V	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.
V	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.
V	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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 131917

# **CONDITIONS**

Operator:	OGRID:
Opal Operating Company LLC	330887
4811 Gaillardia Parkway	Action Number:
Oklahoma City, OK 73142	131917
	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.	8/7/2022