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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

6096G	NCP1471338	James 19 Fed 31H-34H	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2019022175	1656	J R - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Sep 26, 2019 11:45	Sep 26, 2019 11:45	Oct 1, 2019 12:04	Oct 2, 2019
Date Sampled	Date Effective	Date Received	Date Reported
84.00	Torrance	605 @ 123	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Cimarex Energy	NG		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	3.1980	3.198	
CO2 (CO2)	9.8190	9.819	
Methane (C1)	70.0860	70.087	
Ethane (C2)	8.7580	8.758	2.3420
Propane (C3)	4.4070	4.407	1.2140
I-Butane (IC4)	0.5570	0.557	0.1820
N-Butane (NC4)	1.3210	1.321	0.4160
I-Pentane (IC5)	0.4140	0.414	0.1510
N-Pentane (NC5)	0.4390	0.439	0.1590
Hexanes Plus (C6+)	1.0010	1.001	0.4340
TOTAL	100.0000	100.0010	4.8980

Gross Heating Values (Real, BTU/ft ³)			
14.696 PSI @ 60.00 °F		14.73 PSI @ 60.00 °F	
Dry	Saturated	Dry	Saturated
1,124.4	1,106.1	1,127.0000	1,108.7

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.8202	0.8174
Molecular Weight	
23.6772	

C6+ Group Properties		
Assumed Composition		
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%

Field H2S 0 PPM

PROTREND STATUS: Passed By Validator
DATA SOURCE: Imported

PASSED BY VALIDATOR REASON:
Close enough to be considered reasonable.

VALIDATOR:
Dustin Armstrong

VALIDATOR COMMENTS:
OK

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Sep 24, 2019

JAMES 19 FED 31H & 34H CDP FLARE		Digital (gas)											17990	
		6/20/2021	6/30/2021	6/29/2021	6/28/2021	6/27/2021	6/26/2021	6/25/2021	6/24/2021	6/23/2021	6/22/2021	6/21/2021	6/20/2021	6/19/2021
> Static	(PSI)	110	110	135	136	109	109	108	109	110	107	107	108	
Differential	(In H2O)	0	0	0	0	0	0	0	0	0	0	0	0	
Gas Flowed	(MCF)	0.0	0.0	0.0	0.0	0.0	117.0	63.0	0.0	0.0	71.0	69.0	0.0	
FlareReason							FACILITY COMPRE	FACILITY COMPRE			FACILITY ISSUES	FACILITY COMPRE		
Comments (F5)							COMP down on hi	PM compressor			comp down on flare	comp down on flare		

6/20/2021	4240	JAMES 19 FED 31H, 34H & 20-29 FED 37-39H	1	1.23	43.87
6/21/2021	4240	JAMES 19 FED 31H, 34H & 20-29 FED 37-39H	1	0.96	40.40
6/24/2021	4240	JAMES 19 FED 31H, 34H & 20-29 FED 37-39H	1	0.52	63.14
6/25/2021	4240	JAMES 19 FED 31H, 34H & 20-29 FED 37-39H	1	1.70	117.32

District I
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District II
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District III
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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 33579

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 33579
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

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 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 19-1-297 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	
<i>Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (F#) yet.</i>	
Facility or Site Name	JAMES 19 FED 31H & 34H CDP FLARE
Facility Type	Flare Stack - (FS)

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	70
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	10
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	06/21/2021
Time venting or flaring was discovered or commenced	07:15 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/26/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	4
Longest duration of cumulative hours within any 24-hour period during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Gas Compressor Station Natural Gas Flared Spilled: 320 Mcf Recovered: 0 Mcf Lost: 320 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 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	Yes
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.	True
Please explain reason for why this event was beyond your operator's control	Wells were originally shut in and well kick in too fast as they were brought online again.
Steps taken to limit the duration and magnitude of venting or flaring	Issue was brought about due to field team bringing wells online too fast. Compressor was overwhelmed.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Better training for field team to bring wells online at a steady rate.

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CONDITIONS
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	Action Number: 33579
	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.	7/6/2021