

Atchafalaya Measurement, Inc.

416 East Main Street

Artesia, NM 88210 575-746-3481

Sample Information

	Sample Information
Sample Name	Cimarex__James Federal 20H WH Allocation__GC2-12918-22
Station Number	NCW1471154
Lease Name	James Federal 20H WH Allocation
Analysis for	Cimarex Energy
Producer	Cimarex Energy
Field Name	Hobbs
County	Lea
State	NM
Frequency	Quarterly
Sample Deg F	63.2
Atmos Deg F	64.0
Flow Rate	848.1282
LinePSIG	45.5
Date Sampled	1-26-18
Sampled By	Derek Sauder
Analysis By	Pat Silvas
Report Date	2018-01-29 15:21:09

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.580	30287.0	2.28518	22851.800	0.252
H2S	0.000	0.0	0.00013	1.300	0.000
Methane	23.380	732518.5	72.16636	721663.600	12.276
Carbon Dioxide	26.860	147794.7	9.43932	94393.200	1.616
Ethane	36.980	143437.1	8.58111	85811.100	2.303
Propane	77.900	92629.9	4.20863	42086.300	1.163
i-Butane	28.600	40744.6	0.53772	5377.200	0.177
n-Butane	30.120	102145.1	1.29067	12906.700	0.408
i-Pentane	34.700	34476.4	0.36422	3642.200	0.134
n-Pentane	36.460	37936.1	0.38768	3876.800	0.141
Hexanes Plus	120.000	78847.0	0.73898	7389.800	0.322
Total:			100.00000	1000000.000	18.792

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	99.99601	
Total Amount PPM (Mole/Vol.)	1000000.000	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1116.8	1097.4
Gross Heating Value (BTU / Real cu.ft.)	1120.9	1101.9
Relative Density (G), Ideal	0.7976	0.7946
Relative Density (G), Real	0.8002	0.7975
Compressibility (Z) Factor	0.9963	0.9959

JAMES FEDERAL 20H FLARE		Digital (gas)										10574	
		8/6/2021	8/5/2021	8/4/2021	8/3/2021	8/2/2021	8/1/2021	7/31/2021	7/30/2021	7/29/2021	7/28/2021	7/27/2021	
Static	(PSI)	53	50	116	119	118	50	69	53	53	53	119	
Differential	(In H2O)	0	0	0	2	0	0	0	0	0	0	4	
Gas Flowed	(MCF)	0.0	4.0	77.0	85.0	0.0	0.0	0.0	5.0	9.0	433.0	434.0	

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 41097

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 41097
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**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 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, major 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 19.13.297 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

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	JAMES FEDERAL 20H 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

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	9
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	07/27/2021
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	08/04/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	8
Longest duration of cumulative hours within any 24-hour period during this event	6

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: 1,043 Mcf Recovered: 0 Mcf Lost: 1,043 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

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	Third party compressor went down and struggled all week, Wells were shut in and brought BOL throughout the week.
Steps taken to limit the duration and magnitude of venting or flaring	CSI the compressor vendor to mitigate the issue.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Cimarex shut in the wells to mitigate the issue.

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CONDITIONS

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Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 41097
	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.	8/10/2021