

Atchafalaya Measurement, Inc.

416 East Main Street

Artesia, NM 88210 575-746-3481

Sample Information

	Sample Information
Sample Name	Cimarex__Forty Niner Ridge 23 Federal 2H CDP__GC1-42318-04
Station Number	NCP9775123
Lease Name	Forty Niner Ridge 23 Federal 2H CDP
Analysis for	Cimarex Energy
Producer	Cimarex Energy
Field Name	Carlsbad
County	Lea
State	NM
Frequency	Quarterly
Sample Deg F	72.9
Atmos Deg F	68
Flow Rate	1582.6
LinePSIG	516.9
Date Sampled	4-19-18
Sampled By	Travis Williams
Analysis By	Pat Silvas
Report Date	2018-04-23 07:45:59

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.100	10603.9	2.04203	20420.300	0.225
H2S	46.000	0.0	0.00000	0.000	0.000
Methane	22.940	307683.6	76.18829	761882.900	12.958
Carbon Dioxide	26.700	1097.0	0.17702	1770.200	0.030
Ethane	36.940	88450.3	13.09758	130975.800	3.514
Propane	79.160	55848.2	6.16085	61608.500	1.703
i-Butane	28.780	42495.4	0.60944	6094.400	0.200
n-Butane	30.400	94248.2	1.30230	13023.000	0.412
i-Pentane	35.520	13604.3	0.15947	1594.700	0.059
n-Pentane	37.620	11987.6	0.13678	1367.800	0.050
Hexanes Plus	120.000	11289.0	0.12624	1262.400	0.055
Total:			100.00000	1000000.000	19.206

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	102.20871	
Total Amount PPM (Mole/Vol.)	1000000.000	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1239.8	1218.2
Gross Heating Value (BTU / Real cu.ft.)	1244.1	1223.0
Relative Density (G), Ideal	0.7240	0.7223
Relative Density (G), Real	0.7263	0.7248
Compressibility (Z) Factor	0.9965	0.9961

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<div> From: 05/01/2021 12:00 AM To: 05/31/2021 12:00 AM <div> </div> </div>									
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Row Count: 31									
DateTimeStamp	Volume	Energy	StaticPress	DiffPress	Temp	Flow Time (mins)	Flow Up Time Pct	Flow Down Time Pct	
2021-05-31	0	0	66.28	0	73	0	0	100	
2021-05-30	2.12	2.75	134.23	5.47	67	5.45	0.38	99.62	
2021-05-29	150.39	194.91	133.99	25.68	86	219.27	15.23	84.77	
2021-05-28	37.94	49.16	132.48	11.19	98	97.02	6.74	93.26	
2021-05-27	0	0	105.38	0	88	0	0	100	
2021-05-26	0	0	113.21	0	88	0	0	100	
2021-05-25	0.78	1.01	137.02	60.54	108	0.68	0.05	99.95	
2021-05-24	0	0	121.42	0	85	0	0	100	
2021-05-23	0	0	123.85	0	84	0	0	100	
2021-05-22	0	0	124.98	0	79	0	0	100	
2021-05-21	0	0	124.52	0	84	0	0	100	
2021-05-20	124.35	161.16	134.17	27.73	101	177.27	12.31	87.69	
2021-05-19	44.26	57.36	131.2	16.64	80	80.48	5.59	94.41	
2021-05-18	87.75	113.73	132.04	16.15	94	227.28	15.78	84.22	
2021-05-17	69.79	90.45	137.21	100.84	90	46.07	3.2	96.8	
2021-05-16	2.36	3.06	131.56	3.14	103	8.1	0.56	99.44	
2021-05-15	0	0	64.95	0	78	0	0	100	
2021-05-14	0	0	61.23	0	80	0	0	100	
2021-05-13	0	0	57.49	0	73	0	0	100	
2021-05-12	0	0	56.97	0	66	0	0	100	
2021-05-11	14.85	19.25	132.53	5.94	75	38.3	2.66	97.34	
2021-05-10	52.64	68.22	132.49	18.45	90	98.97	6.87	93.13	
2021-05-09	127.19	164.83	116.95	141.89	90	85.73	5.95	94.05	

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 30002

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 30002
	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, 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 19.13.297 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	FORTY NINER RIDGE 23 FED 1H 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	76
Nitrogen (N2) percentage, if greater than one percent	2
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	06/01/2021
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	05/29/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	5
Longest duration of cumulative hours within any 24-hour period during this event	4

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 Other (Specify) Natural Gas Flared Spilled: 150 Mcf Recovered: 0 Mcf Lost: 150 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	Not answered.
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	Due to extended downtime on the wells, the wells were energized more than we expected, compressor could not handle volumes. • Holding compressor vendor accountable for runtime
Steps taken to limit the duration and magnitude of venting or flaring	Field team responded to event.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Have safety system setup to prevent future flaring.

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CONDITIONS

Action 30002

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 30002
	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.	6/3/2021