

Atchafalaya Measurement, Inc.

416 East Main Street

Artesia, NM 88210 575-746-3481

Sample Information

	Sample Information
Sample Name	Cimarex__State LF 30 4H CDP Check__GC1-1318-10
Station Number	NCP9680028
Lease Name	State LF 30 4H CDP Check
Analysis for	Cimarex Energy
Producer	Cimarex Energy
Field Name	Hobbs
County	Lea
State	NM
Frequency	Quarterly
Sample Deg F	70
Atmos Deg F	55
Flow Rate	62.4
LinePSIG	64.8
Date Sampled	12-29-17
Sampled By	Jason Fairfield
Analysis By	Pat Silvas
Report Date	2018-01-03 10:13:16

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.060	11392.0	2.14542	21454.200	0.237
H2S	46.000	0.0	0.00000	0.000	0.000
Methane	22.920	287560.8	69.63529	696352.900	11.858
Carbon Dioxide	26.640	2686.2	0.42389	4238.900	0.073
Ethane	36.940	98098.6	14.20594	142059.400	3.816
Propane	79.160	70495.8	7.60520	76052.000	2.105
i-Butane	28.640	59677.5	0.83698	8369.800	0.275
n-Butane	30.240	163996.8	2.21610	22161.000	0.702
i-Pentane	35.380	41617.5	0.47710	4771.000	0.175
n-Pentane	37.480	55748.9	0.62207	6220.700	0.227
Hexanes Plus	120.000	167517.0	1.83201	18320.100	0.799
Total:			100.00000	1000000.000	20.266

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	104.51344	
Total Amount PPM (Mole/Vol.)	1000000.000	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1386.8	1362.6
Gross Heating Value (BTU / Real cu.ft.)	1393.4	1369.7
Relative Density (G), Ideal	0.8238	0.8203
Relative Density (G), Real	0.8273	0.8242
Compressibility (Z) Factor	0.9953	0.9948

6/24/2021	108.00	0	32	0	19	1.5	3.068	14.73	FACILITY ISSUES
6/23/2021	104.00	0	19	24	6	1.5	3.068	14.73	FACILITY ISSUES

MeterName	Effective Date	FacilityID	Facility Name or MeterName	Meter Count	Flow Duration (Hours)	FlowCal Vol (mcf)	ProCount Vol (mcf)
	6/23/2021	4136	STATE LF 30 4H	1	16.74	164.78	104
	6/24/2021	4136	STATE LF 30 4H	1	3.74	40.23	108

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 33590

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 33590
	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	Yes
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 19.13.29.7 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	STATE LF 30-4H 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	70
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	06/24/2021
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	06/24/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	20
Longest duration of cumulative hours within any 24-hour period during this event	17

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Power Failure Gas Compressor Station Natural Gas Flared Spilled: 212 Mcf Recovered: 0 Mcf Lost: 212 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	Power outage caused instrument air compressor to go down.
Steps taken to limit the duration and magnitude of venting or flaring	Fail open valves in the system allowed gas in the facility to flow to flare line. Power restored and flaring stopped.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	We will ensure that upon future power issues that this facility is prioritized to prevent additional flared volumes.

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CONDITIONS

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	Action Number: 33590
	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.	7/9/2021