

Atchafalaya Measurement, Inc.

416 East Main Street

Artesia, NM 88210 575-746-3481

Sample Information

	Sample Information
Sample Name	Burnett__Nosler 12 Battery__GC1-110117-03
Station Number	06155014
Lease Name	Nosler 12 Battery
Analysis for	Burnett Oil
Producer	Burnett Oil
Field Name	Loco Hills
County	Eddy
State	NM
Frequency	Spot
Sample Deg F	69.4
Atmos Deg F	53.4
Flow Rate	1864.7
LinePSIG	41.2
Date Sampled	10/30/17
Sampled By	Derek Sauder
Analysis By	Chris Myers
Report Date	2017-11-01 09:00:44

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	21.920	18963.0	3.77673	37767.300	0.417
H2S	46.000	0.0	0.00000	0.000	0.000
Methane	22.760	285589.8	72.87056	728705.600	12.400
Carbon Dioxide	26.460	3895.5	0.63554	6355.400	0.109
Ethane	36.880	77063.4	11.77875	117787.500	3.162
Propane	79.240	53164.7	6.17521	61752.100	1.708
i-Butane	28.700	52100.9	0.72213	7221.300	0.237
n-Butane	30.260	140251.1	1.90287	19028.700	0.602
i-Pentane	35.340	43678.1	0.52224	5222.400	0.192
n-Pentane	37.420	46476.8	0.53204	5320.400	0.194
Hexanes Plus	120.000	103431.0	1.08393	10839.300	0.472
Total:			100.00000	1000000.000	19.492

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	102.29084	
Total Amount PPM (Mole/Vol.)	1000000.000	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1286.2	1263.8
Gross Heating Value (BTU / Real cu.ft.)	1291.3	1269.4
Relative Density (G), Ideal	0.7799	0.7772
Relative Density (G), Real	0.7827	0.7803
Compressibility (Z) Factor	0.9960	0.9956

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Sample Information

Sample Information	
Sample Name	Burnett__Nossler Fed 12 Test__GC2-110117-03
Station Number	74649020
Lease Name	Nossler Fed 12 Test
Analysis for	Burnett Oil
Producer	Burnett Oil
Field Name	Loco Hills
County	Eddy
State	NM
Frequency	Quarterly
Sample Deg F	79.9
Atmos Deg F	54.3
Flow Rate	647.78
LinePSIG	51.5
Date Sampled	10/30/17
Sampled By	Derek Sauder
Analysis By	Chris Myers
Report Date	2017-11-01 09:04:02

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.480	52048.6	3.92092	39209.200	0.433
H2S	0.000	0.0	0.00000	0.000	0.000
Methane	23.300	711399.3	70.04671	700467.100	11.923
Carbon Dioxide	26.980	18799.0	1.17974	11797.400	0.202
Ethane	36.520	208636.1	12.53716	125371.600	3.366
Propane	77.100	152022.6	7.02170	70217.000	1.942
i-Butane	28.440	68179.7	0.84975	8497.500	0.279
n-Butane	29.900	181955.8	2.20916	22091.600	0.699
i-Pentane	34.440	55606.5	0.58551	5855.100	0.215
n-Pentane	36.160	57966.4	0.58222	5822.200	0.212
Hexanes Plus	120.000	119335.0	1.06713	10671.300	0.465
Total:			100.00000	1000000.000	19.737

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	100.79922	
Total Amount PPM (Mole/Vol.)	1000000.000	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1310.2	1287.4
Gross Heating Value (BTU / Real cu.ft.)	1315.8	1293.5
Relative Density (G), Ideal	0.8057	0.8025
Relative Density (G), Real	0.8088	0.8059
Compressibility (Z) Factor	0.9958	0.9953

Nosler 12 Federal Tank Battery

Location 32.6516 -103.8333

Meter Type	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Vol Rate	Energy Factor	Energy	Flow Temp	Gas Gravity	Base Temp	Base Press	Flow Press	Run Hours	Meter Begin	Meter End	Begin Date	End Date	Last Updated
Flare	7/16/2021	7/17/2021	FLARE	GAS	MCF	626	626	1	626	60	0.6	60	14.73	50	24	2,362	2,988	7/16/2021 0:00	7/16/2021 0:00	JEFFDEASON
Flare	7/15/2021	7/16/2021	FLARE	GAS	MCF	613	613	1	613	60	0.6	60	14.73	50	24	1,749	2,362	7/15/2021 0:00	7/15/2021 0:00	JEFFDEASON
Flare	7/14/2021	7/15/2021	FLARE	GAS	MCF	603	603	1	603	60	0.6	60	14.73	50	24	1,146	1,749	7/14/2021 0:00	7/14/2021 0:00	JEFFDEASON
Flare	7/13/2021	7/14/2021	FLARE	GAS	MCF	613	613	1	613	60	0.6	60	14.73	50	24	533	1,146	7/13/2021 0:00	7/13/2021 0:00	JEFFDEASON
Flare	7/12/2021	7/13/2021	FLARE	GAS	MCF	533	533	1	533	60	0.6	60	14.73	50	24	0	533	7/12/2021 0:00	7/12/2021 0:00	JEFFDEASON
						2988	2988													

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 36974

QUESTIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 36974
	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	No
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, 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 19.13.29.7 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	Nosler 12 Federal Tank Battery
Facility Type	Tank Battery - (TB)

Equipment Involved

Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	Frontier Energy Services Repair and Maintenance on Compressor Station

Representative Compositional Analysis of Vented or Flared Natural Gas

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

Methane (CH4) percentage	73
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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	07/12/2021
Time venting or flaring was discovered or commenced	02:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/17/2021
Time venting or flaring was terminated	12:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	106
Longest duration of cumulative hours within any 24-hour period during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Downhole Well Maintenance Gas Compressor Station Natural Gas Flared Spilled: 2,988 Mcf Recovered: 0 Mcf Lost: 2,988 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

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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	Frontier Energy Services repair and maintenance on compressor Station
Steps taken to limit the duration and magnitude of venting or flaring	During flaring Mack Energy Corporation only flares newer/higher oil production wells and shut in all smaller/older production
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Flaring was caused from Frontier Energy Services repair and maintenance on compressor station, unfortunately the only thing we can do is continue communication with the midstream operator.

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CONDITIONS

Action 36974

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Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 36974
	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.	7/21/2021