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575.397.3713 2609 W Marland Hobbs NM 88240

Extended Gas Analysis Report

9684G	62313-000	Red Hills W. 21 W1AP FC #2H	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2020029675	1107	J Hernandez - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Feb 20, 2020 11:15	Feb 20, 2020 11:15	Feb 21, 2020 15:12	Feb 24, 2020
Date Sampled	Date Effective	Date Received	Date Reported
41.00	BH	135 @ 48	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Mewbourne Oil Company			Meter Run
Operator			Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
Nitrogen (N2)	0.7830	0.780019	
Carbon Dioxide (CO2)	0.1160	0.115447	
Hydrogen Sulfide (H2S)	0.0000	0	
Methane (C1)	77.2150	76.930256	
Ethane (C2)	12.6710	12.624213	3.3880
Propane (C3)	5.8140	5.792838	1.6010
IsoButane (IC4)	0.7450	0.742631	0.2440
n-Butane (NC4)	1.5930	1.586629	0.5020
IsoPentane (IC5)	0.2890	0.287798	0.1060
n-Pentane (NC5)	0.3100	0.308368	0.1120
Hexanes (C6's)	0.4640	0.463	0.1980
TOTAL	100.0000	99.6312	6.1510

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

Analyzer Information

Device Type: Device Make:
Device Model: Last Cal Date:

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 °F		14.73 PSI @ 60.00 °F
Dry		Dry Saturated
1,274.5		1,282.2 1,260.4

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.7367	0.7342
Molecular Weight	
21.2660	

C6+ Group Properties

Assumed Composition

C6 - 38.429%	C7 - 33.518%	C8 - 28.053%
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Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Feb 27, 2020

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Dustin Armstrong

VALIDATOR COMMENTS:

OK



Extended Gas Analysis Report

Sample Point Code - Name @ Location

Operator

9684G - 62313-000 - Red Hills W. 21 W1AP FC #2H

Mewbourne Oil Company

Component	Normalized Mol %	Un-Normalized Mol %	GPM
Nitrogen (N2)	0.7830	0.780019	
Carbon Dioxide (CO2)	0.1160	0.115447	
Hydrogen Sulfide (H2S)	0.0000	0	
Methane (C1)	77.2150	76.9303	
Ethane (C2)	12.6710	12.6242	3.3880
Propane (C3)	5.8140	5.79284	1.6010
IsoButane (IC4)	0.7450	0.742631	0.2440
n-Butane (NC4)	1.5930	1.58663	0.5020
IsoPentane (IC5)	0.2890	0.287798	0.1060
n-Pentane (NC5)	0.3100	0.308368	0.1120
Hexanes (C6's)	0.1800	0.179	0.0730
Heptanes (C7's)	0.1500	0.15	0.0610
Octanes (C8's)	0.0820	0.082	0.0400
Nonanes (C9's)	0.0180	0.018	0.0100
Decanes (C10's)	0.0040	0.004	0.0030
Undecanes (C11's)	0.0030	0.003	0.0010
Dodecanes (C12's)	0.0000	0	0.0000

BTEX

Component	Normalized Mol %	Un-Normalized Mol %	GPM
Benzene	0.0060	0.006	0.0020
Toluene	0.0110	0.011	0.0040
EthylBenzene	0.0010	0.001	0.0000
M+P Xylene	0.0070	0.007	0.0030
O Xylene	0.0020	0.002	0.0010

Mewbourne Oil Company

Natural Gas Flared Calculation Methodology

Metering low-pressure gas diverted from the Vapor Recovery Unit ("VRU") to backup flare is not technologically feasible. Gas volumes for VRU downtime events will be calculated using an average metered VRU gas to oil production ratio. This GOR is derived from available relevant data.

Average Metered VRU Gas to Oil Production GOR = 0.18 Mcf/BBL

Flared gas volume = GOR * Oil Production Volume (BBL)

District I1625 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 56691

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 56691
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Prerequisites**

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

Incident Well	Not answered.
Incident Facility	[fAPP2125643542] RED HILLS WEST 21 W1AP FED COM #2H BATTERY

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 and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/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 venting and/or flaring event	Yes, minor venting and/or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	VRU

Representative Compositional Analysis of Vented or Flared Natural Gas

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

Methane (CH4) percentage	77
Nitrogen (N2) percentage, if greater than one percent	1
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 and/or flaring was discovered or commenced	10/05/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	09:00 PM
Cumulative hours during this event	21

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Other (Specify) Natural Gas Flared Released: 81 Mcf Recovered: 0 Mcf Lost: 81 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Volume calculated
Is this a gas only submission (i.e. only significant 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 and/or flaring a result of downstream activity	Not answered.
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/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	VRU malfunctioned
Steps taken to limit the duration and magnitude of venting and/or flaring	Repaired VRU
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Continued routine preventive maintenance and daily operational inspections

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CONDITIONS

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	Action Number: 56691
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
zlacount	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	10/20/2021