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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/ft<sup>3</sup>)

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 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 40260

**QUESTIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744 Action Number: 40260 Action Type: [C-129] Venting and/or Flaring (C-129)
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**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	Red Hills West 21 W0AP Fed Com #3H Battery
Facility Type	Tank Battery - (TB)

**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 or flaring was discovered or commenced	07/26/2021
Time venting or flaring was discovered or commenced	12:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/26/2021
Time venting or flaring was terminated	03:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	15
Longest duration of cumulative hours within any 24-hour period during this event	15

**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: 71 Mcf   Recovered: 0 Mcf   Lost: 71 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 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	VRU malfunctioned
Steps taken to limit the duration and magnitude of venting or flaring	Repaired VRU
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Continued routine preventive maintenance and daily operational inspections

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CONDITIONS  
  
Action 40260

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 40260
	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.	8/9/2021