

	Natural Gas Analysis						
9604G			72351-000	)	Sa	pphire 11/12 B3	BDC St. Com #2H
Sample Point Code			Sample Point Na	ame		Sample Poin	nt Location
Laboratory Ser	vices	2020029	452	2150		R Vega - Spo	t
Source Laborat	ory	Lab File	No	Container Identity		Sampler	
USA		USA		USA		Default	
District		Area Name		Field Name		Facility Name	
Feb 17, 2020 08	:18	Feb 17,	, 2020 08:18	Feb 17, 2	2020 12:43	Feb	18, 2020
Date Sampled		Dat	e Effective	Date F	Received	Date	e Reported
55.00		Torran	ce	117 @ 101			
Ambient Temp (°F)	Flow Rate (Mcf)	Analys	t	Press PSI @ Temp °F Source Conditions			
Mewbourne Oil Co	mpany					NG	
Operator				_		Lab Source Descript	ion
Component	Normalized	Un-Normalized	GPM	Gross	Heating Valu	ies (Real, BTU/ft	t³)
	Mol %	Mol %		14.696 PSI @ 60	.00 °F Saturated		@ 60.00 °F Saturated
H2S (H2S)	0.0000	0		Dry 1,354.4	1,332.3	Dry 1,357.5	1,335.4
Nitrogen (N2)	3.2350	3.23535		Calcu	ulated Total S	Sample Propertie	es
CO2 (CO2)	0.0590	0.059				I at Contract Conditions	
Methane (C1)	68.6250	68.62451		Relative Density 0.8108			ensity Ideal 8076
Ethane (C2)	15.0890	15.08949	4.0340	Molecular Wei	ght	0.0	.070
Propane (C3)	7.9220	7.92176	2.1820	23.3883			
I-Butane (IC4)	0.8910	0.89129	0.2910	]	C6+ Group Assumed Co	-	
N-Butane (NC4)	2.2320	2.23153	0.7030	C6 - 60.000%	C7 - 30.	•	3 - 10.000%
I-Pentane (IC5)	0.4820	0.48201	0.1760		Field		
N-Pentane (NC5)	0.5310	0.53132	0.1920	] [	0 P	PM	
Hexanes Plus (C6+)	0.9340	0.93374	0.4050	PROTREND STATUS:		DATA SO	URCE:
TOTAL	100.0000	100.0000	7.9830	Passed By Validator of	n Feb 19, 20		

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

Analy	/7er	Inform	nation
Al lai	y <u>Z</u> C I	THIOHI	iation

Device Type: Gas Chromatograph Device Make: Shimadzu Device Model: GC-2014 Last Cal Date: Feb 17, 2020

#### PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

#### VALIDATOR:

**Bethany Burton** 

## **VALIDATOR COMMENTS:**

OK

## 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)

<u>District I</u> 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

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 40409

#### **QUESTIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	40409
	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 addional 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			
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 <b>ANY</b> 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 occuring at a facility that does not have an Facility ID (f#) yet.		
Facility or Site Name Sapphire 11/12 B3DC St. Com #2H		
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	69	
Nitrogen (N2) percentage, if greater than one percent	3	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	0	
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Dioxide (C02) percentage quality requirement	Not answered.	
Oxygen (02) percentage quality requirement	Not answered.	

Date(s) and Time(s)		
Date venting or flaring was discovered or commenced	08/03/2021	
Time venting or flaring was discovered or commenced	10:00 AM	
Is the venting or flaring event complete	Yes	
Date venting or flaring was terminated	08/04/2021	
Time venting or flaring was terminated	09:15 AM	
Total duration of venting or flaring in hours, if venting or flaring has terminated	24	
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: Equipment Failure   Other (Specify)   Natural Gas Flared   Spilled: 59 Mcf   Recovered: 0 Mcf   Lost: 59 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

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

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

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** 

CONDITIONS

Action 40409

#### **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	40409
	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