SPL

Certificate of Analysis

Number: 6030-21070119-001A

Artesia Laboratory
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Redwood
Redwood
4910 N. Midkiff Rd.
Midland, TX 79705

July 15, 2021

Station Name:	Condor 8 3H	Sampled By:	Chad Whitt
Station Number:	N/A	Sample Of:	Gas Spot
Station Location:	Redwood	Sample Date:	07/14/2021
Sample Point:	Well head	Sample Conditions:	208.8 psig Ambient: 97 °F
Instrument:	6030_GC6 (Inficon GC-3000 Micro)	Effective Date:	07/14/2021
Last Inst. Cal.:	07/12/2021 0:00 AM	Method:	GPA-2261M
Analyzed:	07/15/2021 10:36:32 by KNF	Cylinder No:	1111-002479

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	2.195	2.22208	2.886		GPM TOTAL C2+	6.012
Methane	74.293	75.21668	55.945		GPM TOTAL C3+	2.561
Carbon Dioxide	1.225	1.24063	2.531		GPM TOTAL iC5+	0.483
Ethane	12.731	12.88942	17.969	3.451		
Propane	5.220	5.28518	10.805	1.458		
Iso-butane	0.608	0.61596	1.660	0.202		
n-Butane	1.310	1.32577	3.573	0.418		
Iso-pentane	0.290	0.29340	0.981	0.107		
n-Pentane	0.289	0.29300	0.980	0.106		
Hexanes Plus	0.610	0.61788	2.670	0.270		
	98.771	100.00000	100.000	6.012		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7472	3.2176
Calculated Molecular Weight	21.57	93.19
Compressibility Factor	0.9964	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1244	5129
Water Sat. Gas Base BTU	1223	5040
Ideal, Gross HV - Dry at 14.696 psia	1239.2	5129.2
Ideal, Gross HV - Wet	1217.6	5039.7

Comments: H2S Field Content 0.4 %

Data reviewed by: Krystle Fitzwater, Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

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CONDOR 8H FLARE METER

Location 32.76798 -104.29265

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	7/14/2021	7/15/2021	FLARE	GAS	MCF	172	172	1	172	60	0.6	60	14.73	0	24	0	172	7/21/2021 0:00	7/21/2021 0:00	COLEJOHNSON
FLARE	7/13/2021	7/14/2021	FLARE	GAS	MCF	72	72	1	72	60	0.6	60	14.73	0	24	0	72	7/21/2021 0:00	7/21/2021 0:00	COLEJOHNSON
						244														

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 37699

QUESTIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 882111370	OGRID: 330211
	Action Number: 37699
	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	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, 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 19.15.29.7 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 occuring at a facility that does not have an Facility ID (f#) yet.	
Facility or Site Name	Condor 8 Fed COM TB
Facility Type	Tank Battery - (TB)

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	75
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
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	07/13/2021
Time venting or flaring was discovered or commenced	12:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/15/2021
Time venting or flaring was terminated	12:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	36
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	*Not answered.*
Other Released Details	Cause: Pipeline Quality Specifications | Pipeline (Any) | Natural Gas Flared | Spilled: 244 Mcf | Recovered: 0 Mcf | Lost: 244 Mcf]
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

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	False
Please explain reason for why this event was beyond your operator's control	*Not answered.*
Steps taken to limit the duration and magnitude of venting or flaring	During flaring Redwood 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 natural gas not meeting pipeline quality specifications. We begin sampling gas twice a week until the natural gas meets pipeline quality specifications. Unfortunately the only thing we can do is continue communication with the Midstream Operator

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CONDITIONS

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Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 882111370	OGRID: 330211
	Action Number: 37699
	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.	7/23/2021