



# 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  
Station Number: N/A  
Station Location: Redwood  
Sample Point: Well head  
Instrument: 6030\_GC6 (Inficon GC-3000 Micro)  
Last Inst. Cal.: 07/12/2021 0:00 AM  
Analyzed: 07/15/2021 10:36:32 by KNF

Sampled By: Chad Whitt  
Sample Of: Gas Spot  
Sample Date: 07/14/2021  
Sample Conditions: 208.8 psig Ambient: 97 °F  
Effective Date: 07/14/2021  
Method: GPA-2261M  
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 ft<sup>3</sup> @ 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.

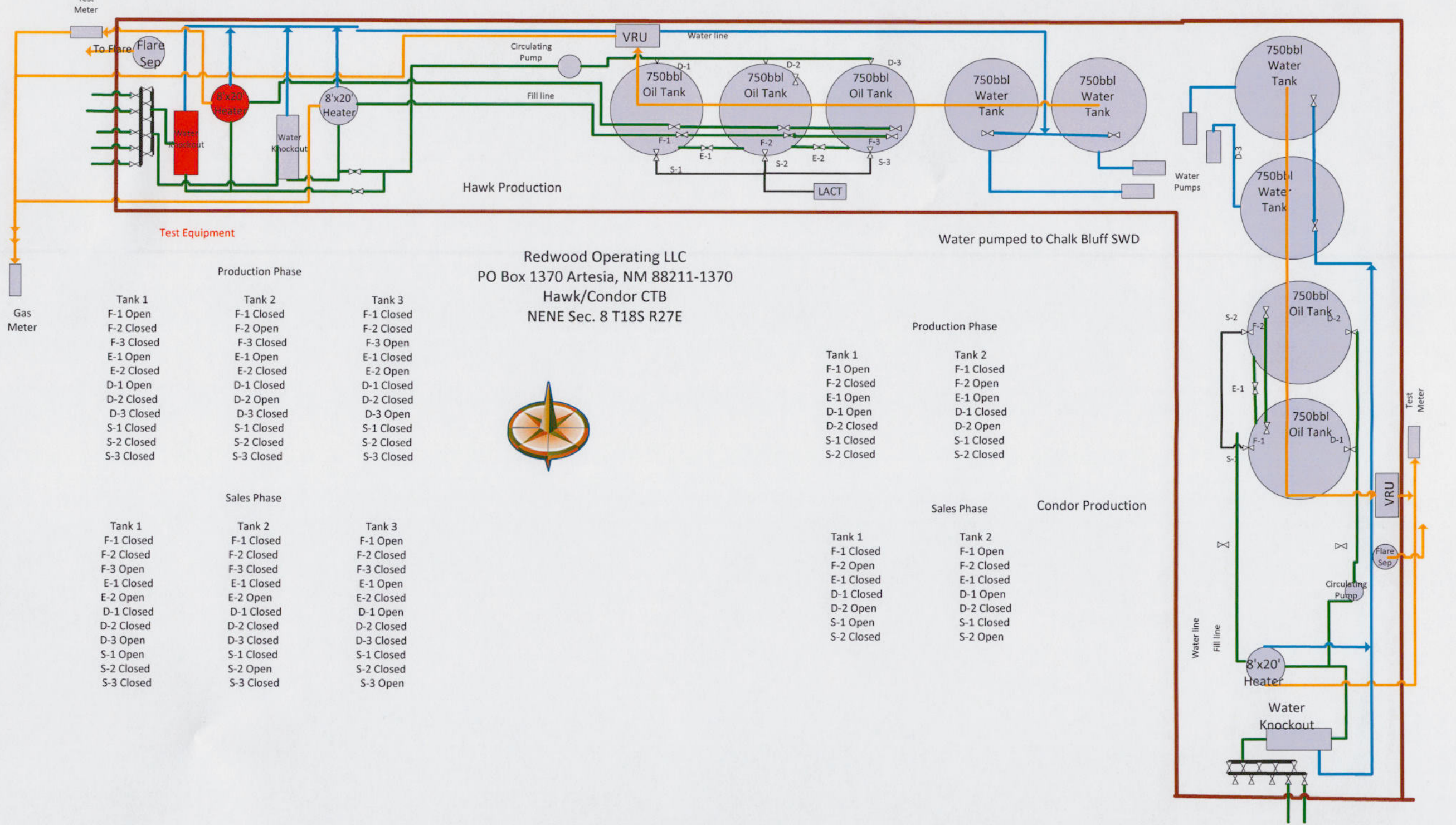
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CONDOR 8H FLARE METER

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	10/15/2021	10/16/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	7,924	8,434	10/15/2021 0:00	10/15/2021 0:00	MARTYQUIROZ
FLARE	10/14/2021	10/15/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	7,414	7,924	10/14/2021 0:00	10/14/2021 0:00	MARTYQUIROZ
FLARE	10/13/2021	10/14/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	6,904	7,414	10/13/2021 0:00	10/13/2021 0:00	COLEJOHNSON
FLARE	10/12/2021	10/13/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	6,394	6,904	10/12/2021 0:00	10/12/2021 0:00	COLEJOHNSON
FLARE	10/11/2021	10/12/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	5,884	6,394	10/11/2021 0:00	10/11/2021 0:00	COLEJOHNSON
FLARE	10/10/2021	10/11/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	5,374	5,884	10/10/2021 0:00	10/10/2021 0:00	COLEJOHNSON
FLARE	10/9/2021	10/10/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	4,864	5,374	10/9/2021 0:00	10/9/2021 0:00	COLEJOHNSON
FLARE	10/8/2021	10/9/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	4,354	4,864	10/8/2021 0:00	10/8/2021 0:00	COLEJOHNSON
FLARE	10/7/2021	10/8/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	3,844	4,354	10/7/2021 0:00	10/7/2021 0:00	COLEJOHNSON
FLARE	10/6/2021	10/7/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	3,334	3,844	10/6/2021 0:00	10/6/2021 0:00	COLEJOHNSON
FLARE	10/5/2021	10/6/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	2,824	3,334	10/5/2021 0:00	10/5/2021 0:00	COLEJOHNSON
FLARE	10/4/2021	10/5/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	2,314	2,824	10/4/2021 0:00	10/4/2021 0:00	COLEJOHNSON
FLARE	10/3/2021	10/4/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	1,804	2,314	10/3/2021 0:00	10/3/2021 0:00	MARTYQUIROZ
FLARE	10/2/2021	10/3/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	1,294	1,804	10/2/2021 0:00	10/2/2021 0:00	MARTYQUIROZ
FLARE	10/1/2021	10/2/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	784	1,294	10/1/2021 0:00	10/1/2021 0:00	MARTYQUIROZ
FLARE	9/30/2021	10/1/2021	FLARE	GAS	MCF	510.00	510.00	1	510.00	60	0.6	60	14.73	22	24	274	784	9/30/2021 0:00	9/30/2021 0:00	MARTYQUIROZ
FLARE	9/29/2021	9/30/2021	FLARE	GAS	MCF	274	274	1	274	60	0.6	60	14.73	22	24	0	274	9/29/2021 0:00	9/29/2021 0:00	COLEJOHNSON

8,434.00



**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 56512

**QUESTIONS**

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88211370	OGRID: 330211
	Action Number: 56512
	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	[30-015-46915] CONDOR 8 FEDERAL COM #003H
Incident Facility	Not answered.

**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, major 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	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 (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 and/or flaring was discovered or commenced	09/29/2021
Time venting and/or flaring was discovered or commenced	04:00 PM
Time venting and/or flaring was terminated	11:59 PM
Cumulative hours during this event	400

**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: Midstream Emergency Maintenance   Pipeline (Any)   Natural Gas Flared   Released: 8,434 Mcf   Recovered: 0 Mcf   Lost: 8,434 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 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	No
Was notification of downstream activity received by you or your operator	No
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	DCP had a gas line leak
Steps taken to limit the duration and magnitude of venting and/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 and/or flaring	Flaring was caused from DCP having a gas line leak. Unfortunately the only thing we can do is continue communication with the midstream operator

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CONDITIONS  
  
Action 56512

CONDITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 882111370	OGRID: 330211
	Action Number: 56512
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
dweaver	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.	10/18/2021