



## Certificate of Analysis

Number: 6030-21050271-004A

Artesia Laboratory

200 E Main St.  
Artesia, NM 88210  
Phone 575-746-3481Redwood  
Redwood  
4910 N. Midkiff Rd.  
Midland, TX 79705

May 28, 2021

Station Name: Higgins Trust  
Station Number: 724915-00  
Station Location: Redwood  
Sample Point: Meter Run  
Instrument: 70104251 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 05/18/2021 0:00 AM  
Analyzed: 05/28/2021 07:41:29 by KNFSampled By: Javier Lazo  
Sample Of: Gas Spot  
Sample Date: 05/25/2021 09:00  
Sample Conditions: 30 psia, @ 88 °F Ambient: 88 °F  
Effective Date: 05/25/2021 09:00  
Method: GPA-2261M  
Cylinder No: 5030-02349

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	1.539	1.56019	1.768	
Carbon Dioxide	2.012	2.03880	3.631	
Methane	66.465	67.36703	43.730	
Ethane	14.535	14.73213	17.924	3.950
Propane	7.595	7.69826	13.735	2.126
Iso-Butane	1.000	1.01387	2.384	0.333
n-Butane	2.402	2.43429	5.725	0.769
Iso-Pentane	0.656	0.66510	1.942	0.244
n-Pentane	0.681	0.68973	2.014	0.251
Hexanes	0.524	0.53121	1.852	0.219
Heptanes	1.069	1.08320	4.392	0.501
Octanes	0.110	0.11149	0.515	0.057
Nonanes Plus	0.074	0.07470	0.388	0.042
	98.662	100.00000	100.000	8.492

## Calculated Physical Properties

Calculated Molecular Weight	24.71	C9+
Compressibility Factor	0.9950	
Relative Density Real Gas	0.8573	4.4283

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

Real Gas Dry BTU	1405.6	6996.3
Water Sat. Gas Base BTU	1381.7	6874.3
Ideal, Gross HV - Dry at 14.696 psia	1398.5	6996.3
Ideal, Gross HV - Wet	1374.1	6874.3

Comments: H2S Field Content .9 %  
Mcf/day 512

Report generated by: Krystle Fitzwater

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

HIGGINS TRUST #1/13A

Location		32.7542644 -104.3270389																		
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	12/4/2021	12/5/2021	FLARE	GAS	MCF	309	309	1	309	60	0.6	60	14.73	13	24	615	924	12/4/2021 0:00	12/4/2021 0:00	BENJAMINTIPTON
FLARE	12/3/2021	12/4/2021	FLARE	GAS	MCF	615	615	1	615	60	0.6	60	14.73	13	24	0	615	12/3/2021 0:00	12/3/2021 0:00	BENJAMINTIPTON

**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 65391

**QUESTIONS**

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88211370	OGRID: 330211
	Action Number: 65391
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
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	[30-015-40977] HIGGINS TRUST 13 A #002
Incident Facility	Not answered.

<b>Determination of Reporting Requirements</b>	
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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	67
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	2
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.

<b>Date(s) and Time(s)</b>	
Date venting and/or flaring was discovered or commenced	12/03/2021
Time venting and/or flaring was discovered or commenced	12:30 AM
Time venting and/or flaring was terminated	06:30 AM
Cumulative hours during this event	30

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.

Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Pipeline (Any)   Natural Gas Flared   Released: 924 Mcf   Recovered: 0 Mcf   Lost: 924 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	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	DCP plant froze up
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 gas caused from DCP's plant freezing up unfortunately the only thing we can do is continue communication with the midstream operator

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CONDITIONS  
  
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	Action Number: 65391
	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.	12/7/2021