



Certificate of Analysis

Number: 6030-22040206-001A

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

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

Apr. 14, 2022

Station Name: Hawk CTB
Station Number: 742853-00
Station Location: Redwood
Sample Point: Meter Run
Instrument: 70142339 (Inficon GC-MicroFusion)
Last Inst. Cal.: 04/11/2022 0:00 AM
Analyzed: 04/14/2022 08:02:08 by ERG

Sampled By: John Whitt
Sample Of: Gas Spot
Sample Date: 04/12/2022 07:14
Sample Conditions: 52.6 psig, @ 67.6 °F Ambient: 66 °F
Effective Date: 04/12/2022 07:14
Method: GPA-2261M
Cylinder No: 1111-008080

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	NIL	3.00000	4.151	
Nitrogen	1.427	1.41035	1.604	
Carbon Dioxide	1.695	1.67573	2.994	
Methane	66.030	65.26392	42.506	
Ethane	15.178	15.00181	18.313	4.022
Propane	7.652	7.56302	13.539	2.089
Iso-Butane	1.090	1.07765	2.543	0.353
n-Butane	2.623	2.59257	6.118	0.819
Iso-Pentane	0.673	0.66499	1.948	0.244
n-Pentane	0.678	0.66964	1.961	0.243
Hexanes	0.444	0.43885	1.535	0.181
Heptanes	0.399	0.39407	1.603	0.182
Octanes	0.184	0.18137	0.841	0.093
Nonanes Plus	0.067	0.06603	0.344	0.037
	98.140	100.00000	100.000	8.263

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	24.63	128.26
Compressibility Factor	0.9950	
Relative Density Real Gas	0.8544	4.4283
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1372.4	6996.3
Water Sat. Gas Base BTU	1348.7	6874.3
Ideal, Gross HV - Dry at 14.696 psia	1365.6	6996.3
Ideal, Gross HV - Wet	1341.4	6874.3

Comments: H2S Field Content 3 %

Hydrocarbon 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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API# 30-015-46817
Hawk 9 Federal Com #1H
297-BO 447-Mcf 1787-BW
First production 7/28/2021

API# 30-015-46977
Hawk 9 Federal Com #2H
431-BO 1101-mcf 2312-BW
First production 7/30/2021

Calculation: Began flaring at 2:00PM, shut-in at 6:00PM.

Hawk 9 Federal Com 1H
447mcf in 24 hours
18.6mcf per hour
4 hours of flaring=74mcf

Hawk 9 Federal Com 2H
1101mcf in 24 hours
45.8mcf per hour
4 hours of flaring=183mcf

Total 257mcf

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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

DEFINITIONS

Action 98904

DEFINITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 98904
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: <ul style="list-style-type: none">• this application's operator, hereinafter "this operator";• venting and/or flaring, hereinafter "vent or flare";• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";• the statements in (and/or attached to) this, hereinafter "the statements in this";• and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 98904

QUESTIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 98904
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Not answered.
Incident Facility	[fAPP2205436169] Hawk 9H CTB

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>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.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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 vent or flare 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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	65
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	30,000
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

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QUESTIONS, Page 2

Action 98904

QUESTIONS (continued)

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	Action Number: 98904
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/14/2022
Time vent or flare was discovered or commenced	02:00 PM
Time vent or flare was terminated	06:00 PM
Cumulative hours during this event	4

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: Equipment Failure Pipeline (Any) Natural Gas Flared Released: 257 Mcf Recovered: 0 Mcf Lost: 257 Mcf
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 this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[229153] DCP MIDSTREAM L.P.
Date notified of downstream activity requiring this vent or flare	04/14/2022
Time notified of downstream activity requiring this vent or flare	02:00 PM

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	DCP Pipe Line Leak
Steps taken to limit the duration and magnitude of vent or flare	Shut wells in
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	N/A

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ACKNOWLEDGMENTS

Action 98904

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	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
<input checked="" type="checkbox"/>	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
<input checked="" type="checkbox"/>	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 98904

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CONDITIONS

Created By	Condition	Condition Date
jwsherrell	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.	4/15/2022