



Certificate of Analysis

Number: 6030-21100079-006A

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

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

Oct. 12, 2021

Station Name: Hawk 9 2H Separator
Station Number: N/A
Station Location: Redwood
Sample Point: Separator
Analyzed: 10/08/2021 14:16:45 by KJM

Sampled By: Nathan Payne
Sample Of: Liquid Spot
Sample Date: 10/04/2021 08:00
Sample Conditions: 50 psig
Method: GPA 2103M
Cylinder No: 5030-00592

Analytical Data

Components	Mol. %	MW	Wt. %	Sp. Gravity	L.V. %
Nitrogen	0.011	28.013	0.002	0.8069	0.002
Methane	1.439	16.043	0.146	0.3000	0.391
Carbon Dioxide	0.102	44.010	0.029	0.8172	0.028
Ethane	2.047	30.069	0.390	0.3563	0.878
Propane	3.537	44.096	0.988	0.5072	1.563
Iso-butane	1.118	58.122	0.412	0.5628	0.587
n-Butane	3.979	58.122	1.465	0.5842	2.012
Iso-pentane	2.504	72.149	1.145	0.6251	1.469
n-Pentane	3.273	72.149	1.496	0.6307	1.903
Hexanes	5.348	86.175	2.920	0.6655	3.522
Heptanes Plus	76.642	187.405	91.007	0.8329	87.645
	100.000		100.000		100.000

Calculated Physical Properties

	Total	C7+
Specific Gravity at 60°F	0.8022	0.8329
API Gravity at 60°F	44.896	38.380
Molecular Weight	157.824	187.405
Pounds per Gallon (in Vacuum)	6.688	6.944
Pounds per Gallon (in Air)	6.680	6.937
Cu. Ft. Vapor per Gallon @ 14.696 psia	16.081	14.062

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.



Certificate of Analysis

Number: 6030-21100079-007A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Oct. 12, 2021

Station Name: Hawk 9 Fed 1H Separator
Station Number: N/A
Station Location: Redwood
Sample Point: N/A
Analyzed: 10/08/2021 15:21:40 by KJM

Sampled By: Nathan Payne
Sample Of: Liquid Spot
Sample Date: 10/04/2021 08:30
Sample Conditions: 50 psig
Method: GPA 2103M
Cylinder No: 5030-00583

Analytical Data

Components	Mol. %	MW	Wt. %	Sp. Gravity	L.V. %
Nitrogen	0.018	28.013	0.003	0.8069	0.003
Methane	1.348	16.043	0.132	0.3000	0.355
Carbon Dioxide	0.102	44.010	0.027	0.8172	0.027
Ethane	1.917	30.069	0.351	0.3563	0.797
Propane	3.573	44.096	0.960	0.5072	1.530
Iso-butane	1.148	58.122	0.407	0.5628	0.584
n-Butane	4.312	58.122	1.528	0.5842	2.113
Iso-pentane	2.591	72.149	1.140	0.6251	1.473
n-Pentane	3.521	72.149	1.549	0.6307	1.984
Hexanes	5.218	86.175	2.741	0.6657	3.327
Heptanes Plus	76.252	196.121	91.162	0.8389	87.807
	100.000		100.000		100.000

Calculated Physical Properties

	Total	C7+
Specific Gravity at 60°F	0.8081	0.8389
API Gravity at 60°F	43.612	37.167
Molecular Weight	164.046	196.121
Pounds per Gallon (in Vacuum)	6.737	6.994
Pounds per Gallon (in Air)	6.729	6.987
Cu. Ft. Vapor per Gallon @ 14.696 psia	15.584	13.534

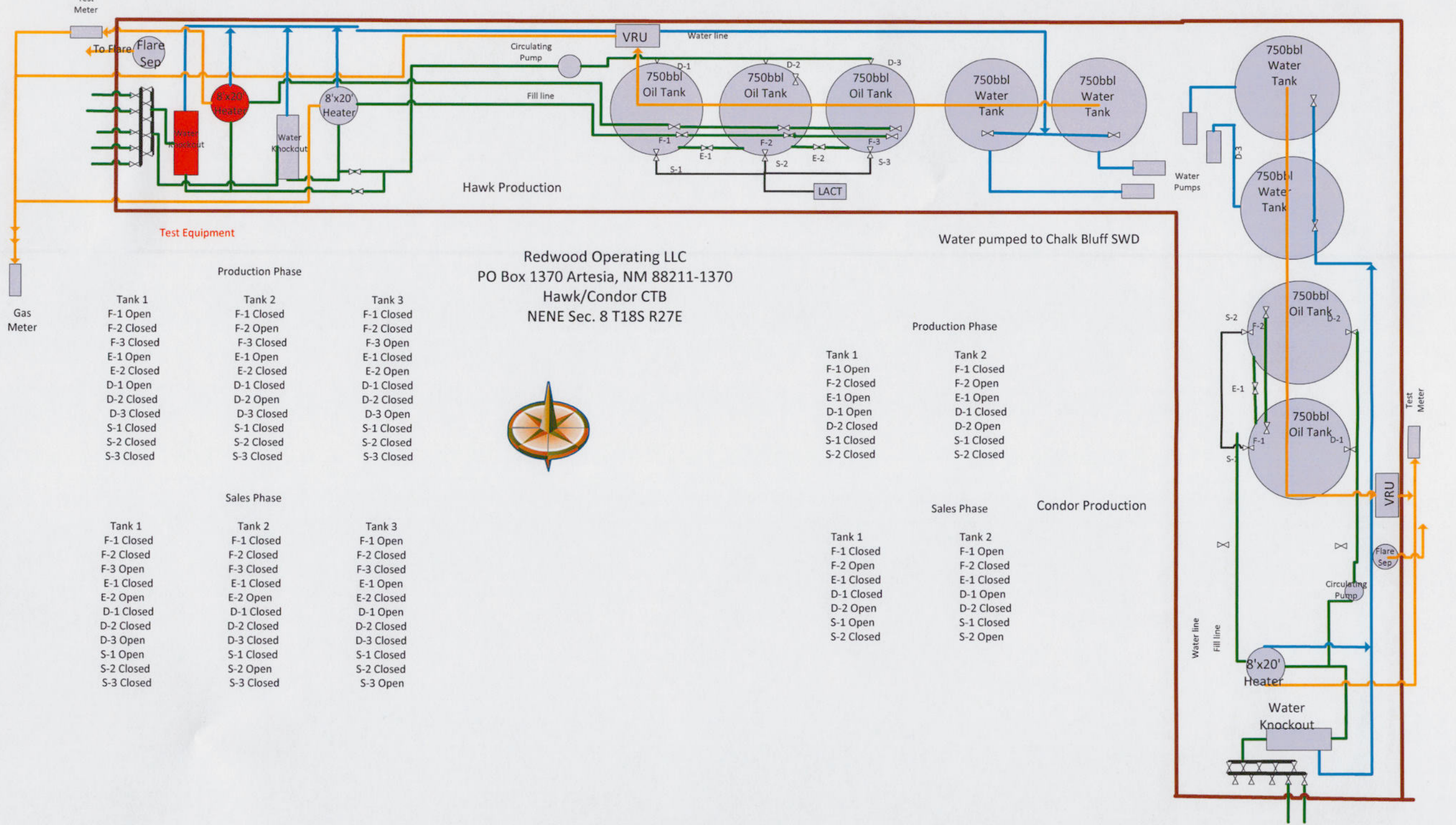
Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

HAWK 9H CTB

Location 32.7688578 -104.2931884																				
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	1,579.00	1,579.00	1	1,579.00	60	0.6	60	14.73	22	24	23,884	25,463	10/15/2021 0:00	10/15/2021 0:00	MARTYQUIROZ
FLARE	10/14/2021	10/15/2021	FLARE	GAS	MCF	1,578.00	1,578.00	1	1,578.00	60	0.6	60	14.73	22	24	22,306	23,884	10/14/2021 0:00	10/14/2021 0:00	MARTYQUIROZ
FLARE	10/13/2021	10/14/2021	FLARE	GAS	MCF	1,569.00	1,569.00	1	1,569.00	60	0.6	60	14.73	22	24	20,737	22,306	10/13/2021 0:00	10/13/2021 0:00	COLEJOHNSON
FLARE	10/12/2021	10/13/2021	FLARE	GAS	MCF	1,549.00	1,549.00	1	1,549.00	60	0.6	60	14.73	22	24	19,188	20,737	10/12/2021 0:00	10/12/2021 0:00	COLEJOHNSON
FLARE	10/11/2021	10/12/2021	FLARE	GAS	MCF	1,575.00	1,575.00	1	1,575.00	60	0.6	60	14.73	22	24	17,613	19,188	10/11/2021 0:00	10/11/2021 0:00	COLEJOHNSON
FLARE	10/10/2021	10/11/2021	FLARE	GAS	MCF	1,542.00	1,542.00	1	1,542.00	60	0.6	60	14.73	22	24	16,071	17,613	10/10/2021 0:00	10/10/2021 0:00	COLEJOHNSON
FLARE	10/9/2021	10/10/2021	FLARE	GAS	MCF	1,531.00	1,531.00	1	1,531.00	60	0.6	60	14.73	22	24	14,540	16,071	10/9/2021 0:00	10/9/2021 0:00	COLEJOHNSON
FLARE	10/8/2021	10/9/2021	FLARE	GAS	MCF	1,529.00	1,529.00	1	1,529.00	60	0.6	60	14.73	22	24	13,011	14,540	10/8/2021 0:00	10/8/2021 0:00	COLEJOHNSON
FLARE	10/7/2021	10/8/2021	FLARE	GAS	MCF	1,524.00	1,524.00	1	1,524.00	60	0.6	60	14.73	22	24	11,487	13,011	10/7/2021 0:00	10/7/2021 0:00	COLEJOHNSON
FLARE	10/6/2021	10/7/2021	FLARE	GAS	MCF	1,506.00	1,506.00	1	1,506.00	60	0.6	60	14.73	22	24	9,981	11,487	10/6/2021 0:00	10/6/2021 0:00	COLEJOHNSON
FLARE	10/5/2021	10/6/2021	FLARE	GAS	MCF	1,531.00	1,531.00	1	1,531.00	60	0.6	60	14.73	22	24	8,450	9,981	10/5/2021 0:00	10/5/2021 0:00	COLEJOHNSON
FLARE	10/4/2021	10/5/2021	FLARE	GAS	MCF	1,510.00	1,510.00	1	1,510.00	60	0.6	60	14.73	22	24	6,940	8,450	10/4/2021 0:00	10/4/2021 0:00	COLEJOHNSON
FLARE	10/3/2021	10/4/2021	FLARE	GAS	MCF	1,524.00	1,524.00	1	1,524.00	60	0.6	60	14.73	22	24	5,416	6,940	10/3/2021 0:00	10/3/2021 0:00	MARTYQUIROZ
FLARE	10/2/2021	10/3/2021	FLARE	GAS	MCF	1,530.00	1,530.00	1	1,530.00	60	0.6	60	14.73	22	24	3,886	5,416	10/2/2021 0:00	10/2/2021 0:00	MARTYQUIROZ
FLARE	10/1/2021	10/2/2021	FLARE	GAS	MCF	1,510.00	1,510.00	1	1,510.00	60	0.6	60	14.73	22	24	2,376	3,886	10/1/2021 0:00	10/1/2021 0:00	MARTYQUIROZ
FLARE	9/30/2021	10/1/2021	FLARE	GAS	MCF	1,509.00	1,509.00	1	1,509.00	60	0.6	60	14.73	22	24	867	2,376	9/30/2021 0:00	9/30/2021 0:00	MARTYQUIROZ
FLARE	9/29/2021	9/30/2021	FLARE	GAS	MCF	867	867	1	867	60	0.6	60	14.73	22	24	0	867	9/29/2021 0:00	9/29/2021 0:00	COLEJOHNSON

25,463.00



District I1625 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 56526

QUESTIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88211370	OGRID: 330211
	Action Number: 56526
	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	[30-015-46817] HAWK 9 FEDERAL COM #001H
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	1
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
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.

Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Pipeline (Any) Natural Gas Flared Released: 25,463 Mcf Recovered: 0 Mcf Lost: 25,463 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.	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 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 gas line leak, unfortunately the only thing we can do is continue communication with the midstream operator.

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

CONDITIONS

Action 56526

CONDITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 882111370	OGRID: 330211
	Action Number: 56526
	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