

2030 Afton Place Farmington, NM 87401 (505) 325-6622

Analysis No: DU20250824 Cust No: 23000-24075

METER RUN

Well/Lease Information

Source:

Customer Name: DUGAN PRODUCTION CORP.

COCHRAN SWD; FUEL GAS Well Flowing: Υ

Well Name:

County/State: SAN JUAN NM Pressure: 42.1 PSIG Location: Flow Temp: 66 DEG. F Lease/PA/CA: Ambient Temp: 64 DEG. F

Formation: 4.1 MCF/D Flow Rate: Cust. Stn. No.: 16,059 Sample Method: Purge & Fill

> Sample Date: 09/04/2025 Sample Time: 10.10 AM **RUSTY CHACRA GATHERING** Sampled By: **BOB IVE** Sampled by (CO): DUGAN

Heat Trace: Ν

Remarks:

Analysis

Allaryolo					
Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.6235	1.6235	0.1790	0.00	0.0157
CO2	0.4536	0.4536	0.0780	0.00	0.0069
Methane	96.6088	96.6088	16.4070	975.75	0.5351
Ethane	1.2971	1.2971	0.3470	22.95	0.0135
Propane	0.0017	0.0017	0.0000	0.04	0.0000
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0153	0.0153	0.0070	0.81	0.0005
Total	100.0000	100.0000	17.0180	999.55	0.5717

^{* @ 14.730} PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

^{**@ 14.730} PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z):	1.002	CYLINDER #:	0106
BTU/CU.FT IDEAL:		1001.9	CYLINDER PRESSURE:	38 PSIG
BTU/CU.FT (DRY) CORRECTED FO	OR (1/Z):	1003.9	ANALYIS DATE:	09/23/2025
BTU/CU.FT (WET) CORRECTED FO	OR (1/Z):	986.4	ANALYIS TIME:	11:23:54 AM
DRY BTU @ 15.025:		1024.0	ANALYSIS RUN BY:	SAMI ARMENTA
REAL SPECIFIC GRAVITY:		0.5726		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 09/24/2025

GC Method: C6+ Gas



DUGAN PRODUCTION CORP. WELL ANALYSIS COMPARISON

Lease: COCHRAN SWD; FUEL GAS

METER RUN

09/24/2025

Stn. No.: Mtr. No.: 16,059

23000-24075

Smpl Date:	09/04/2025	07/16/2025	05/24/2024
Test Date:	09/23/2025	07/24/2025	06/04/2024
Run No:	DU20250824	DU20250600	DU20240592
Nitrogen:	1.6235	18.8997	1.6933
CO2:	0.4536	0.2453	0.4654
Methane:	96.6088	80.0232	96.6350
Ethane:	1.2971	0.8318	1.2063
Propane:	0.0017	0.0000	0.0000
I-Butane:	0.0000	0.0000	0.0000
N-Butane:	0.0000	0.0000	0.0000
I-Pentane:	0.0000	0.0000	0.0000
N-Pentane:	0.0000	0.0000	0.0000
Hexane+:	0.0153	0.0000	0.0000
BTU:	1003.9	826.2	1001.7
GPM:	17.0180	15.9320	17.0010
SPG:	0.5726	0.6392	0.5722

Givens		
PSI SL (P2)	14.7	psi
Specific Heat Ratio (NG)	1.3	No units
Cd (Discharge coeff)	0.8	estimate - No units
p stp (NG)	0.0458	lbm/ft^3
Gas Constant (NG)	96.27	ft-lbf/lbm*R

Inputs		
Pipe Pressure (PSIG) (P1)	10	
Pipe Inner Diameter (in)	12	
Pipe Length (ft)	100	
Tempurature (f)	100	
Duration (sec)	604800	
Leak Hole size Diameter (in)	0.1	

Blowdown Volume	78.54
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1: Determine if flow is choked or sub-sonic

Pressure Ratio	0.595
Critical Pres. Ratio	0.546
Area of leak (ft^2)	5.45415E-05
Is the flow choked?	No

2: Use the right mass flow equation

Choked Flow	
DO NOT USE THIS	
mdot (lbm/s)	3.10E-06

Sub-sonic Flow	
USE THIS	
mdot (lbm/s) 3.08064E-06	

3: Multiply by time to calculate total gas lost

Choked Flow		
DO NOT USE THIS		
Mass Lost (lbm)	1.87375	
Gas Lost SCF	40.91153	

Sub-sonic Flow	
USE THIS	
Mass Lost (lbm)	1.863
Gas Lost SCF	40.681

Gas Loss Mscf 0.040680608

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General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DEFINITIONS

Action 531939

DEFINITIONS

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	531939
	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:

- 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 531939

Ql	JESTIONS	
Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499		OGRID: 6515 Action Number: 531939 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 t.	hese issues hefore continuina wit	h the rest of the questions
Incident Well	[30-045-33932] COCHRAN	SWD #002
Incident Facility	Unavailable.	
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	d mav provide addional quidance.	
Was this vent or flare caused by an emergency or malfunction	No	
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes	
Is this considered a submission for a vent or flare event	Yes, answer to "eight hour	rs or more" suggests this is at least a minor event.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during ve		
Was there at least 50 MCF of natural gas vented and/or flared during this event	No	•
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	Pipeline (Any)	
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	97	
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	0	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci	fications 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.	

Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 531939

QUESTI	ONS (continued)
Operator:	OGRID:
DUGAN PRODUCTION CORP PO Box 420	6515 Action Number:
Farmington, NM 87499	531939
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	[2 - 12] - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/02/2025
Time vent or flare was discovered or commenced	12:00 PM
Time vent or flare was terminated	05:30 PM
Cumulative hours during this event	174
-	
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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)	More info needed to determine if this will be treated as a "gas only" report.
Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No.
Was notification of downstream activity received by this operator	No .
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered. Not answered.
Time housed of downstream activity requiring this vent of hare	not alisweled.
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	Cannot predict where or when corrosion in pipelines may exist
Steps taken to limit the duration and magnitude of vent or flare	Shut in well, cut out and replaced faulty piece of 1" pipe.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Replaced faulty piece of 1" pipe.

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ACKNOWLEDGMENTS

Action 531939

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	PO Box 420	Action Number:
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ı		Action Type:
		[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
V	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.
V	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

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Farmington, NM 87499	531939
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Create By		Condition Date
tmfeil If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your inciden number from this event.		12/4/2025