



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

Analysis No: DU20250356
Cust No: 23000-10960

Well/Lease Information

Customer Name:	DUGAN PRODUCTION CORP.	Source:	METER RUN
Well Name:	WBU FIELD SUPPLY GAS	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	9 PSIG
Location:		Flow Temp:	84 DEG. F
Lease/PA/CA:	SF078091	Ambient Temp:	76 DEG. F
Formation:		Flow Rate:	10 MCF/D
Cust. Stn. No.:	6,008	Sample Method:	Purge & Fill
	3004532989	Sample Date:	03/25/2025
	202A-189427	Sample Time:	12.10 PM
	TOPAZ GATHERING	Sampled By:	CRAIG STOCK
Heat Trace:	N	Sampled by (CO):	DUGAN
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9873	0.2739	0.1090	0.00	0.0095
CO2	1.7612	0.4886	0.3010	0.00	0.0268
Methane	96.2145	26.6930	16.3410	971.77	0.5329
Ethane	0.9462	0.2625	0.2540	16.74	0.0098
Propane	0.0043	0.0012	0.0010	0.11	0.0001
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	0.0865	0.0240	0.0390	4.56	0.0029
Total	100.0000	27.7432	17.0450	993.18	0.5820

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0021	CYLINDER #:	6027
BTU/CU.FT IDEAL:	995.5	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	997.6	ANALYSIS DATE:	04/08/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	980.2	ANALYSIS TIME:	10:07:03 AM
DRY BTU @ 15.025:	1017.6	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.583		

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: 04/09/2025

GC Method: C6+ Gas



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: WBU FIELD SUPPLY GAS METER RUN 04/09/2025
 Stn. No.: 6,008 23000-10960
 Mtr. No.: 3004532989

Smpl Date:	03/25/2025	03/27/2024	04/27/2023	03/17/2022	03/10/2021	04/30/2020	02/26/2019
Test Date:	04/08/2025	04/04/2024	05/01/2023	03/18/2022	03/18/2021	05/15/2020	03/05/2019
Run No:	DU20250356	DU20240395	DU20230333	DU20220321	DU2021589	DU200440	DU190240
Nitrogen:	0.9873	0.5603	0.6110	0.7201	0.7827	1.3318	0.6578
CO2:	1.7612	1.6243	1.5367	1.4468	1.4278	1.1610	1.5445
Methane:	96.2145	95.9566	96.0882	96.2001	96.2659	96.6045	95.9096
Ethane:	0.9462	1.8579	1.7641	1.6330	1.5100	0.9027	1.8881
Propane:	0.0043	0.0000	0.0000	0.0000	0.0014	0.0000	0.0000
I-Butane:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
N-Butane:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
I-Pentane:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
N-Pentane:	0.0000	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000
Hexane+:	0.0865	0.0000	0.0000	0.0000	0.0122	0.0000	0.0000
BTU:	997.6	1006.5	1006.1	1004.9	1004.1	996.0	1006.5
GPM:	17.0450	17.1360	17.1230	17.1030	17.0900	16.9930	17.1330
SPG:	0.5830	0.5819	0.5808	0.5797	0.5796	0.5759	0.5817
	02/27/2018	03/28/2017	02/10/2016	02/18/2014	04/10/2013	04/04/2012	02/12/2011
	03/06/2018	03/28/2017	02/10/2016	02/18/2014	04/10/2013	04/04/2012	02/12/2011
	DU180310	DU170369	DU160229	DU140254	DU130377	DU120425	DU110199
	0.6802	0.6850	0.6140	0.7440	0.8360	0.5820	0.6900
	1.5720	1.5310	1.5680	1.5050	1.3550	1.4710	1.3580
	95.8104	95.8740	95.8950	95.9270	96.0820	96.1340	96.1920
	1.9156	1.8840	1.9230	1.8150	1.6320	1.8100	1.7600
	0.0000	0.0000	0.0000	0.0000	0.0190	0.0000	0.0000
	0.0000	0.0110	0.0000	0.0000	0.0020	0.0000	0.0000
	0.0000	0.0120	0.0000	0.0000	0.0090	0.0000	0.0000
	0.0000	0.0030	0.0000	0.0000	0.0020	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0020	0.0000	0.0000
	0.0218	0.0000	0.0000	0.0090	0.0610	0.0030	0.0000
	1007.2	1007.0	1007.0	1005.9	1008.0	1007.6	1007.1
	17.1400	17.1360	17.1380	17.1220	17.1180	17.1300	17.1180
	0.5828	0.5820	0.5819	0.5815	0.5814	0.5803	0.5794



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: WBU FIELD SUPPLY GAS
 Stn. No.: 6,008
 Mtr. No.: 3004532989

METER RUN

04/09/2025
 23000-10960

02/13/2010	05/19/2009	05/08/2008	04/02/2007	05/05/2006	03/26/2005	06/09/2004
02/13/2010	05/19/2009	05/08/2008	04/02/2007	05/05/2006	03/26/2005	06/09/2004
DU100125	DU290353	DU280300	DU270149	DU260209	DU250225	DU240160
0.2560	0.2210	0.4080	0.7070	0.1470	0.1730	0.2190
2.3480	2.3790	2.0870	1.4720	2.2570	2.1300	1.8960
94.2510	94.1540	94.3510	94.8340	94.5280	94.7540	95.1220
3.1270	3.2290	3.1170	2.9870	3.0620	2.9370	2.7570
0.0120	0.0140	0.0250	0.0000	0.0060	0.0060	0.0060
0.0030	0.0030	0.0060	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0030	0.0000	0.0060	0.0000	0.0000	0.0000	0.0000
1012.4	1013.1	1013.8	1015.1	1013.6	1013.7	1014.2
17.2780	17.2910	17.2720	17.2350	17.2770	17.2670	17.2460
0.5943	0.5946	0.5924	0.5866	0.5930	0.5909	0.5878
04/28/2003	08/27/2002	07/18/2001	08/20/1999	02/10/1997		
04/28/2003	08/27/2002	07/18/2001	08/20/1999	02/10/1997		
DU230179	DU220246	DU210163	DUG90664	DUG70183		
0.2220	0.1550	0.1590	0.1950	0.2890		
1.8290	1.7690	1.5370	1.2460	1.0240		
95.2710	95.4080	95.8190	96.3480	96.4070		
2.6710	2.6590	2.4850	2.2110	2.2710		
0.0070	0.0060	0.0000	0.0000	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000		
0.0000	0.0030	0.0000	0.0000	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0090		
1014.1	1015.4	1016.2	1016.7	1018.8		
17.2360	17.2380	17.2210	17.1900	17.1930		
0.5866	0.5859	0.5827	0.5787	0.5773		

West Bisti Unit # 142

10.01.2025

Total Gas Loss: 0.23 mcf

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)	16.2
Pipe Inner Diameter (in)	2
Pipe Length (ft)	100
Tempurature (f)	93
Duration (sec)	432000
Leak Hole size Diameter (in)	0.25

Blowdown Volume	2.18
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1: Determine if flow is choked or sub-sonic

Pressure Ratio	0.476
Critical Pres. Ratio	0.546
Area of leak (ft^2)	0.000340885
Is the flow choked?	Yes

2: Use the right mass flow equation

Choked Flow	
USE THIS	
mdot (lbm/s)	2.44E-05

Sub-sonic Flow	
DO NOT USE THIS	
mdot (lbm/s)	2.41061E-05

3: Multiply by time to calculate total gas lost

Choked Flow	
USE THIS	
Mass Lost (lbm)	10.53071
Gas Lost SCF	229.92825

Sub-sonic Flow	
DO NOT USE THIS	
Mass Lost (lbm)	10.414
Gas Lost SCF	227.376

Sante Fe Main Office
Phone: (505) 476-3441

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

DEFINITIONS

Action 525991

DEFINITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 525991
	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 525991

QUESTIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 525991
	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	[30-045-05651] WEST BISTI UNIT #142
Incident Facility	Unavailable.

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	Yes
Is this considered a submission for a vent or flare event	Yes, answer to "eight hours or more" suggests this is at least a minor event.
<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	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 within 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 <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	96
Nitrogen (N2) percentage, if greater than one percent	1
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
<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 525991

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 525991
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/01/2025
Time vent or flare was discovered or commenced	02:12 PM
Time vent or flare was terminated	02:20 PM
Cumulative hours during this event	120

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.

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	Operator cannot predict when corrosion will cause holes in pipelines.
Steps taken to limit the duration and magnitude of vent or flare	The affected area of the pipeline was isolated to prevent further gas release.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Isolated the line.

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ACKNOWLEDGMENTS

Action 525991

ACKNOWLEDGMENTS

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	Action Number: 525991
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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.
☒	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 525991

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 525991
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	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 incident number from this event.	11/12/2025