

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

Analysis No: DU20250100 Cust No: 23000-21615

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.

ELWOOD P DOWD #90

County/State: SAN JUAN NM

Location:

Well Name:

Lease/PA/CA: NM9520 Formation: COAL SEAM

Cust. Stn. No.: 1,137

3004529634 202E-425661

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GOODTIMES GATHERING

Heat Trace:

Remarks:

Source: METER RUN

Well Flowing: Y

Pressure: 33.3 PSIG
Flow Temp: 58 DEG. F
Ambient Temp: 56 DEG. F

Ambient Temp: 56 DEG. F Flow Rate: 50 MCF/D

Sample Method: Purge & Fill
Sample Date: 01/27/2025
Sample Time: 1.30 PM
Sampled By: BRET POUSSON

Sampled by (CO): DUGAN

Analysis

		Allalyolo			
Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0664	1.0506	0.1180	0.00	0.0103
CO2	0.3548	0.3496	0.0610	0.00	0.0054
Methane	95.4680	94.0564	16.2150	964.23	0.5288
Ethane	2.9646	2.9208	0.7940	52.46	0.0308
Propane	0.0750	0.0739	0.0210	1.89	0.0011
Iso-Butane	0.0229	0.0226	0.0080	0.74	0.0005
N-Butane	0.0170	0.0167	0.0050	0.55	0.0003
I-Pentane	0.0095	0.0094	0.0030	0.38	0.0002
N-Pentane	0.0044	0.0043	0.0020	0.18	0.0001
Hexane Plus	0.0174	0.0171	0.0080	0.92	0.0006
Total	100.0000	98.5214	17.2350	1021.35	0.5781

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

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

COMPRESSIBLITY FACTOR	(1/Z):	1.0021	CYLINDER #:	4069
BTU/CU.FT IDEAL:		1023.7	CYLINDER PRESSURE:	30 PSIG
BTU/CU.FT (DRY) CORRECTED FC	OR (1/Z):	1025.9	ANALYIS DATE:	01/31/2025
BTU/CU.FT (WET) CORRECTED FO	OR (1/Z):	1008.0	ANALYIS TIME:	03:38:18 PM
DRY BTU @ 15.025:		1046.4	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:		0.5791		

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: 02/06/2025

GC Method: C6+ Gas



DUGAN PRODUCTION CORP. WELL ANALYSIS COMPARISON

Lease: ELWOOD P DOWD #90

Stn. No.: 1,137

Mtr. No.: 3004529634

METER RUN COAL SEAM 02/06/2025 23000-21615

Smpl Date:	01/27/2025	07/26/2024	01/29/2024	10/09/2023	03/06/2023	06/23/2022	05/12/2021
Test Date:	01/31/2025	08/06/2024	02/05/2024	10/12/2023	03/15/2023	07/07/2022	06/14/2021
Run No:	DU20250100	DU20240861	DU20240123	DU20230959	DU20230172	DU20220723	DU2021858
Nitrogen:	1.0664	0.9724	0.9381	1.0003	0.9692	0.9898	1.0942
CO2:	0.3548	0.3312	0.3455	0.3529	0.3639	0.3651	0.3088
Methane:	95.4680	95.7074	95.6690	95.5057	95.4991	95.4896	95.5079
Ethane:	2.9646	2.9512	2.9762	2.9722	2.9912	2.9848	2.9903
Propane:	0.0750	0.0298	0.0350	0.0796	0.0897	0.0842	0.0500
I-Butane:	0.0229	0.0047	0.0089	0.0240	0.0251	0.0243	0.0130
N-Butane:	0.0170	0.0009	0.0064	0.0210	0.0230	0.0201	0.0102
I-Pentane:	0.0095	0.0024	0.0054	0.0098	0.0109	0.0112	0.0052
N-Pentane:	0.0044	0.0000	0.0000	0.0038	0.0050	0.0049	0.0023
Hexane+:	0.0174	0.0000	0.0155	0.0307	0.0229	0.0260	0.0181
BTU:	1025.9	1024.4	1025.9	1027.4	1027.7	1027.4	1025.3
GPM:	17.2350	17.2210	17.2320	17.2430	17.2460	17.2440	17.2280
SPG:	0.5791	0.5768	0.5776	0.5794	0.5794	0.5794	0.5783
	07/01/2020	06/05/2019	05/21/2018	05/24/2017	04/04/2016	04/10/2015	05/22/2014
	07/06/2020	06/17/2019	05/25/2018	05/24/2017	04/04/2016	04/10/2015	05/22/2014
	DU200556	DU190503	DU180535	DU170531	DU160481	DU150539	DU140453
	1.1186	1.0859	1.1403	1.2980	1.0920	1.0740	1.1430
	0.2921	0.2979	0.3211	0.3450	0.3410	0.3250	0.2880
	95.5798	95.5408	95.3940	95.0040	95.1540	95.4530	95.4940
	2.9421	2.9481	2.9493	3.0390	3.0450	3.0650	3.0090
	0.0343	0.0692	0.1029	0.1420	0.1870	0.0500	0.0350
	0.0216	0.0188	0.0302	0.0410	0.0600	0.0130	0.0070
	0.0058	0.0158	0.0252	0.0360	0.0530	0.0090	0.0080
	0.0026	0.0077	0.0127	0.0170	0.0230	0.0050	0.0000
	0.0000	0.0041	0.0072	0.0090	0.0140	0.0000	0.0050
	0.0031	0.0117	0.0171	0.0690	0.0310	0.0060	0.0110
	1024.0	1025.6	1026.3	1028.6	1031.0	1025.3	1024.4
	17.2150	17.2270	17.2350	17.2550	17.2710	17.2330	17.2220
	0.5774	0.5782	0.5796	0.5832	0.5825	0.5784	0.5779



DUGAN PRODUCTION CORP. WELL ANALYSIS COMPARISON

Lease: ELWOOD P DOWD #90

Stn. No.: 1,137

Mtr. No.: 3004529634

METER RUN COAL SEAM 02/06/2025

23000-21615

08/10/2009	08/10/2009	06/29/2010	05/31/2011	07/07/2012	06/07/2013
08/10/2009	08/10/2009	06/29/2010	05/31/2011	07/07/2012	06/07/2013
DU290461	DU290461	DU100500	DU110444	DU120583	DU130457
1.0830	1.0830	0.9710	1.1380	1.0030	1.0360
0.3420	0.3420	0.3660	0.3480	0.3440	0.3470
94.1450	94.1450	94.9790	94.8630	95.1820	95.1300
3.3370	3.3370	3.1640	3.1510	3.1300	3.1030
0.5550	0.5550	0.2740	0.2340	0.1600	0.2030
0.1640	0.1640	0.0770	0.0630	0.0500	0.0570
0.1530	0.1530	0.0710	0.0600	0.0400	0.0530
0.0740	0.0740	0.0340	0.0290	0.0220	0.0240
0.0410	0.0410	0.0210	0.0160	0.0110	0.0120
0.1060	0.1060	0.0430	0.0980	0.0580	0.0350
1049.1	1049.1	1036.1	1035.4	1032.6	1032.2
17.4030	17.4030	17.3100	17.3080	17.2860	17.2820
0.5939	0.5939	0.5847	0.5859	0.5826	0.5828

Givens				
PSI SL (P2)	14.7	psi		
Specific Heat Ratio (NG)	1.3	No units		
Cd (Discharge coeff)	8.0	estimate - No units		
p stp (NG)	0.0458	lbm/ft^3		
Gas Constant (NG)	96.27	ft-lbf/lbm*R		

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Inputs		
Pipe Pressure (PSIG) (P1)	10	
Pipe Inner Diameter (in)	3	
Pipe Length (ft)	0	
Tempurature (f)	100	
Duration (sec)	2604248	
Leak Hole size Diameter (in)	0.5	

Blowdown Volume	0.00

1: Determine if flow is choked or sub-sonic

Pressure Ratio	0.595
Critical Pres. Ratio	0.546
Area of leak (ft^2)	0.001363538
Is the flow choked?	Yes

2: Use the right mass flow equation

Choked Flow	
USE THIS	
mdot (lbm/s)	7.75E-05

Sub-sonic Flow		
DO NOT USE THIS		
mdot (lbm/s)	7.7016E-05	

3: Multiply by time to calculate total gas lost

Choked Flow		
USE THIS		
Mass Lost (lbm) 201.70738		
Gas Lost SCF	4404.09138	

Sub-sonic Flow		
DO NOT USE THIS		
Mass Lost (lbm)	200.569	
Gas Lost SCF	4379.233	

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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 491870

DEFINITIONS

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	491870
	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 491870

QUESTIONS		
Operator:	OGRID:	
DUGAN PRODUCTION CORP PO Box 420	6515 Action Number:	
Farmington, NM 87499	491870	
	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	[30-045-29634] ELWOOD P DOWD COM #090	
Incident Facility	Unavailable.	
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd may provide addional quidance.	
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.	
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during v Was there at least 50 MCF of natural gas vented and/or flared during this event	enting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	NO	
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	This loss occurred at the Blanco Wash Compressor location on Dugan production's Kaibab Trail leg pipeline that ties into the Elwood P. Dowd Com #90 leg pipeline.	
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	95	
Nitrogen (N2) percentage, if greater than one percent	1	
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 spec	ifications 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 491870

QUESTI	ONS (continued)
Operator:	OGRID:
DUGAN PRODUCTION CORP PO Box 420	6515 Action Number:
Farmington, NM 87499	491870
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/31/2025
Time vent or flare was discovered or commenced	03:10 PM
Time vent or flare was terminated	03:16 PM
Cumulative hours during this event	723
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 4 Mcf Recovered: 0 Mcf Lost: 4 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)	Yes, according to supplied volumes this appears to be a "gas only" report.
Manting on Floring Deculting from Decumptures Activity	
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	Not answered.
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 pipe was isolated to prevent further gas release.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Shut down the compressor. Shut in pipeline at all applicable doglegs and pumping units.

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ACKNOWLEDGMENTS

Action 491870

ACKNOWLEDGMENTS

	Operator:	OGRID:
ı	DUGAN PRODUCTION CORP	6515
	PO Box 420	Action Number:
ı	Farmington, NM 87499	491870
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.
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 at 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 crimpenalties under the Oil and Gas Act.	
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

Action 491870

CONDITIONS

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	491870
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Cre By	eated		Condition Date
tn	nfeil	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.	8/6/2025