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

Analysis No: DU20240577
Cust No: 23000-10710

Well/Lease Information

Customer Name:	DUGAN PRODUCTION CORP.	Source:	METER RUN
Well Name:	APRIL SURPRISE 90	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	13 PSIG
Location:	19-24N-09W	Flow Temp:	76 DEG. F
Lease/PA/CA:	NM4958	Ambient Temp:	66 DEG. F
Formation:		Flow Rate:	9 MCF/D
Cust. Stn. No.:	1,011	Sample Method:	Purge & Fill
	202A-157595	Sample Date:	05/22/2024
	3004529188	Sample Time:	10.03 AM
	GOODTIMES GATHERING	Sampled By:	MARK SANDOVAL
Heat Trace:	N	Sampled by (CO):	DUGAN
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.2555	0.6162	0.1380	0.00	0.0121
CO2	0.2832	0.1390	0.0480	0.00	0.0043
Methane	96.9444	47.5823	16.4640	979.14	0.5370
Ethane	1.5061	0.7392	0.4030	26.65	0.0156
Propane	0.0053	0.0026	0.0010	0.13	0.0001
Iso-Butane	0.0055	0.0027	0.0020	0.18	0.0001
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	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	49.0820	17.0560	1006.10	0.5692

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.002	CYLINDER #:	4122
BTU/CU.FT IDEAL:	1008.4	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1010.5	ANALYIS DATE:	06/03/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	992.9	ANALYIS TIME:	10:04:12 AM
DRY BTU @ 15.025:	1030.7	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.5702		

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: 06/05/2024**
GC Method: C6+ Gas

DUGAN PRODUCTION CORP.

WELL ANALYSIS COMPARISON

Lease: APRIL SURPRISE 90 METER RUN 06/05/2024
Stn. No.: 1,011 23000-10710
Mtr. No.: 202A-157595

Smpl Date:	05/22/2024	08/01/2023	06/09/2022	05/04/2021	08/11/2020	05/15/2019	05/17/2018
Test Date:	06/03/2024	08/04/2023	06/16/2022	05/12/2021	09/02/2020	05/22/2019	05/25/2018
Run No:	DU20240577	DU20230608	DU20220629	DU2021793	DU200859	DU190437	DU180534
Nitrogen:	1.2555	1.1378	1.2213	1.4208	1.5651	1.6682	1.5992
CO2:	0.2832	0.2184	0.3193	0.2051	0.2019	0.1937	0.2222
Methane:	96.9444	97.1443	96.8851	96.8335	96.7296	96.7580	96.6819
Ethane:	1.5061	1.4944	1.5555	1.5343	1.4972	1.3801	1.4824
Propane:	0.0053	0.0037	0.0072	0.0063	0.0027	0.0000	0.0075
I-Butane:	0.0055	0.0014	0.0116	0.0000	0.0000	0.0000	0.0068
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hexane+:	0.0000	0.0000	0.0000	0.0000	0.0035	0.0000	0.0000
BTU:	1010.5	1012.1	1011.0	1009.7	1008.1	1006.0	1007.5
GPM:	17.0560	17.0610	17.0670	17.0500	17.0380	17.0190	17.0340
SPG:	0.5702	0.5689	0.5707	0.5702	0.5706	0.5703	0.5709

05/19/2017	03/18/2016	01/21/2015	05/13/2014	05/30/2013	06/25/2012	06/03/2011
05/19/2017	03/18/2016	01/21/2015	05/13/2014	05/30/2013	06/25/2012	06/03/2011
DU170498	DU160418	DU150181	DU140444	DU130450	DU120569	DU110440
1.8110	1.8670	1.6450	1.6600	1.4660	1.6870	1.7130
0.2300	0.2150	0.2660	0.3090	0.2700	0.3350	0.2920
96.3970	96.4110	96.5330	96.4451	96.5360	96.3170	96.3800
1.5170	1.4850	1.5350	1.5530	1.5790	1.5500	1.5670
0.0070	0.0140	0.0080	0.0130	0.0290	0.0270	0.0110
0.0040	0.0050	0.0110	0.0180	0.0240	0.0330	0.0250
0.0010	0.0030	0.0000	0.0020	0.0080	0.0060	0.0020
0.0000	0.0000	0.0000	0.0000	0.0040	0.0030	0.0000
0.0000	0.0000	0.0000	0.0000	0.0020	0.0000	0.0000
0.0330	0.0000	0.0020	0.0000	0.0820	0.0420	0.0100
1006.9	1005.0	1007.1	1006.9	1013.7	1008.9	1007.2
17.0340	17.0210	17.0380	17.0420	17.0850	17.0550	17.0430
0.5729	0.5721	0.5719	0.5726	0.5743	0.5746	0.5731

DUGAN PRODUCTION CORP.

WELL ANALYSIS COMPARISON

Lease: APRIL SURPRISE 90 METER RUN 06/05/2024
Stn. No.: 1,011 23000-10710
Mtr. No.: 202A-157595

05/11/2010	07/07/2009	05/27/2008	11/20/2007	12/08/2006	05/02/2005	07/01/2004
05/11/2010	07/07/2009	05/27/2008	11/20/2007	12/08/2006	05/02/2005	07/01/2004
DU100442	DU290417	DU280411	DU280007	DU260466	DU250294	DU240191
9.1900	1.6460	2.6480	2.9980	1.4830	1.3950	1.4150
0.2520	0.2060	0.2710	0.2780	0.2170	0.1930	0.2010
89.0900	96.5890	95.5350	95.1480	96.7110	96.8360	96.8220
1.4090	1.5500	1.5230	1.5440	1.5720	1.5660	1.5620
0.0060	0.0040	0.0070	0.0060	0.0040	0.0040	0.0000
0.0170	0.0040	0.0140	0.0260	0.0000	0.0010	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0010	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0020	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0010	0.0000
0.0360	0.0010	0.0020	0.0000	0.0130	0.0010	0.0000
931.2	1007.6	996.8	993.6	1009.7	1010.4	1009.8
16.5870	17.0360	16.9780	16.9620	17.0520	17.0540	17.0510
0.6033	0.5712	0.5761	0.5778	0.5710	0.5703	0.5704

05/08/2003	05/13/2002	04/01/1997	04/09/1996	10/23/1995
05/08/2003	05/13/2002	04/01/1997	04/09/1996	10/23/1995
DU230196	DU220138	DUG70251	DUG60071	DUG50142
1.3890	1.5260	1.6330	2.8850	4.6440
0.1920	0.2110	0.1750	0.2380	0.3180
96.8460	96.6870	96.5710	95.2320	93.5070
1.5700	1.5720	1.6040	1.5560	1.5110
0.0030	0.0030	0.0030	0.0160	0.0050
0.0000	0.0010	0.0010	0.0060	0.0090
0.0000	0.0000	0.0000	0.0080	0.0000
0.0000	0.0000	0.0000	0.0030	0.0000
0.0000	0.0000	0.0000	0.0040	0.0000
0.0000	0.0000	0.0130	0.0520	0.0060
1010.3	1008.8	1008.8	997.4	975.9
17.0550	17.0460	17.0470	16.9830	16.8560
0.5701	0.5710	0.5713	0.5784	0.5847

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)	3
Pipe Length (ft)	100
Tempurature (f)	98
Duration (sec)	163800
Leak Hole size Diameter (in)	0.5

Blowdown Volume	4.91

1: Determine if flow is choked or sub-sonic

Pressure Ratio	0.595
Critical Pres. Ratio	0.546
Area of leak (ft^2)	0.0013635
Is the flow choked?	Yes

2: Use the right mass flow equation

Choked Flow	
USE THIS	
mdot (lbm/s)	7.76E-05

Sub-sonic Flow	
DO NOT USE THIS	
mdot (lbm/s)	7.7154E-05

3: Multiply by time to calculate total gas lost

Choked Flow	
USE THIS	
Mass Lost (lbm)	12.70957
Gas Lost SCF	277.50145

Sub-sonic Flow	
DO NOT USE THIS	
Mass Lost (lbm)	12.638
Gas Lost SCF	275.935

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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

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 492464
	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 492464

QUESTIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 492464
	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	**[30-045-29188] APRIL SURPRISE #090**
Incident Facility	*Unavailable.*

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
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 venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
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	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 specifications 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.*
Oxygen (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 492464
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/04/2025
Time vent or flare was discovered or commenced	09:48 AM
Time vent or flare was terminated	10:00 AM
Cumulative hours during this event	46

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Human Error | 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	On 8/2/25 Indications showed a leak present, well was shut in at 7:30 am. On 8/4/25 operations sent crew to inspect site at 9:48 am. A hole in the pipeline was discovered.
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	*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	Contract dozer struck line during road reclamation work.
Steps taken to limit the duration and magnitude of vent or flare	The release was promptly sealed.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Operator shut in pipeline and has reviewed one-call training and prepared a more comprehensive approach for all employees conducting underground pipeline identification.

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ACKNOWLEDGMENTS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 492464
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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 492464

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 492464
	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.	8/6/2025