



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

Analysis No: DU20260001
 Cust No: 23000-10445

Well/Lease Information

Customer Name:	DUGAN PRODUCTION CORP.	Source:	METER RUN
Well Name:	BIG EIGHT 1E	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	8.5 PSIG
Location:	O08-24N-08W	Flow Temp:	21 DEG. F
Lease/PA/CA:	NM25440	Ambient Temp:	24 DEG. F
Formation:	BISTI LOWER GALLUP	Flow Rate:	1.8 MCF/D
Cust. Stn. No.:	202E-677	Sample Method:	
	API# 3004525221	Sample Date:	12/04/2025
	GOODTIMES GATHERING	Sample Time:	6.30 AM
Heat Trace:	N	Sampled By:	BILL FRASE
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.	Sampled by (CO):	DUGAN

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.3183	1.0036	0.2560	0.00	0.0224
CO2	0.6302	0.2728	0.1080	0.00	0.0096
Methane	79.8077	34.5493	13.5760	806.06	0.4421
Ethane	6.3963	2.7690	1.7170	113.20	0.0664
Propane	5.8766	2.5440	1.6250	147.86	0.0895
Iso-Butane	0.7316	0.3167	0.2400	23.79	0.0147
N-Butane	2.2079	0.9558	0.6980	72.03	0.0443
I-Pentane	0.5817	0.2518	0.2130	23.27	0.0145
N-Pentane	0.6352	0.2750	0.2310	25.46	0.0158
Hexane Plus	0.8145	0.3526	0.3640	42.93	0.0270
Total	100.0000	43.2906	19.0280	1254.60	0.7462

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0037	CYLINDER #:	7018
BTU/CU.FT IDEAL:	1257.5	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1262.2	ANALYSIS DATE:	12/31/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1240.2	ANALYSIS TIME:	04:13:07 PM
DRY BTU @ 15.025:	1287.5	ANALYSIS RUN BY:	Sami Armenta
REAL SPECIFIC GRAVITY:	0.7487		

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: 01/06/2026

GC Method: C6+ Gas



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease:	BIG EIGHT 1E	METER RUN	01/06/2026
Stn. No.:	202E-677	BISTI LOWER GALLUP	23000-10445
Mtr. No.:	API# 3004525221		

06/17/2003	05/15/2002	08/09/2001	08/15/2000	01/28/1999	04/21/1997	04/16/1996
06/17/2003	05/15/2002	08/09/2001	08/15/2000	01/28/1999	04/21/1997	04/16/1996
DU230279	DU220139	DU210185	DUG00103	DUG90526	DUG70265	DUG60081
1.4220	1.1210	1.1550	1.1170	1.4810	0.9940	1.1200
0.4790	0.7060	0.6790	0.6950	0.6470	0.6200	0.6760
61.8060	59.4370	58.2910	59.0010	67.1973	64.0230	65.9140
9.9350	13.8390	13.3490	14.1450	12.5939	11.2570	11.6520
10.5970	14.2060	13.5570	14.4150	10.1819	10.3660	10.1590
1.6680	1.7330	1.6430	1.6990	1.0200	1.6200	1.4320
5.3530	5.1800	5.0950	5.0110	3.1480	5.1500	4.4040
1.8730	1.1260	1.3730	1.0870	0.8350	1.6020	1.3060
2.2350	1.2330	1.6440	1.1790	1.1080	1.8010	1.5220
4.6320	1.4190	3.2140	1.6510	1.7880	2.5670	1.8150
1717.7	1610.4	1689.7	1618.6	1474.6	1609.8	1536.8
22.2580	21.7660	22.2680	21.8370	20.7800	21.6140	21.1440
1.0300	0.9608	1.0119	0.9660	0.8765	0.9576	0.9129
06/21/1995	02/19/1993					
06/21/1995	02/19/1993					
DUG50085	DUG30052					
1.3070	1.0770					
0.6620	0.7470					
67.0220	67.6530					
10.4890	11.9080					
8.3590	10.2350					
1.3390	1.3390					
4.4600	3.6990					
1.5480	0.9640					
1.9020	1.0750					
2.9120	1.3030					
1562.9	1475.5					
21.2570	20.7520					
0.9316	0.8741					

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)	14
Pipe Inner Diameter (in)	6
Pipe Length (ft)	100
Tempurature (f)	50
Duration (sec)	2604248
Leak Hole size Diameter (in)	0.25

Blowdown Volume	19.63
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1: Determ

Pressure Ratio
Critical Pres. Ratio
Area of leak (ft ²)
Is the flow choked?

2: Use

Choked Fl
USE THI
mdot (lbm/s)

3: Multiply

Choked Fl
USE THI
Mass Lost (lbm)
Gas Lost SCF

ine if flow is choked or sub-sonic

0.512
0.546
0.000340885
Yes

e the right mass flow equation

low
S
2.36E-05

Sub-sonic Flow	
DO NOT USE THIS	
mdot (lbm/s)	2.35166E-05

/ by time to calculate total gas lost

low
S
61.39998
1340.61092

Sub-sonic Flow	
DO NOT USE THIS	
Mass Lost (lbm)	61.243
Gas Lost SCF	1337.185

Gas Loss MCF 1.34

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 557246

DEFINITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 557246
	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 557246

QUESTIONS

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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	[30-045-33173] LARGO B FEDERAL #002
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	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 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	80
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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 557246

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/23/2026
Time vent or flare was discovered or commenced	02:15 PM
Time vent or flare was terminated	02:30 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: 1 Mcf Recovered: 0 Mcf Lost: 1 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.

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	An operator cannot predict when corrosion will cause holes in pipelines.
Steps taken to limit the duration and magnitude of vent or flare	All associated wells and doglegs were shut in to prevent excess waste.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Closed crossover, and doglegs. Line was inspected for pitting.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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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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.	2/24/2026