



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

Analysis No: DU20220723
Cust No: 23000-21615

Well/Lease Information

Customer Name:	DUGAN PRODUCTION CORP.	Source:	METER RUN
Well Name:	ELWOOD P DOWD #90	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	21 PSIG
Location:		Flow Temp:	67 DEG. F
Lease/PA/CA:	NM9520	Ambient Temp:	58 DEG. F
Formation:	COAL SEAM	Flow Rate:	50 MCF/D
Cust. Stn. No.:	1,137	Sample Method:	Purge & Fill
	3004529634	Sample Date:	06/23/2022
	202E-425661	Sample Time:	12.00 AM
	GOODTIMES GATHERING	Sampled By:	MARK SANDOVAL
Heat Trace:	N	Sampled by (CO):	DUGAN
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9898	0.9890	0.1090	0.00	0.0096
CO2	0.3651	0.3648	0.0620	0.00	0.0055
Methane	95.4896	95.4095	16.2180	964.44	0.5289
Ethane	2.9848	2.9823	0.8000	52.82	0.0310
Propane	0.0842	0.0841	0.0230	2.12	0.0013
Iso-Butane	0.0243	0.0243	0.0080	0.79	0.0005
N-Butane	0.0201	0.0201	0.0060	0.66	0.0004
I-Pentane	0.0112	0.0112	0.0040	0.45	0.0003
N-Pentane	0.0049	0.0049	0.0020	0.20	0.0001
Hexane Plus	0.0260	0.0260	0.0120	1.37	0.0009
Total	100.0000	99.9162	17.2440	1022.85	0.5785

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0021	CYLINDER #:	590
BTU/CU.FT IDEAL:	1025.2	CYLINDER PRESSURE:	21 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1027.4	ANALYSIS DATE:	07/07/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1009.5	ANALYSIS TIME:	08:06:50 AM
DRY BTU @ 15.025:	1048.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.5794		

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 07/13/2022



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: ELWOOD P DOWD #90
Stn. No.: 1,137
Mtr. No.: 3004529634

METER RUN
COAL SEAM

07/13/2022
23000-21615

Smpl Date:	06/23/2022	05/12/2021	07/01/2020	06/05/2019	05/21/2018	05/24/2017	04/04/2016
Test Date:	07/07/2022	06/14/2021	07/06/2020	06/17/2019	05/25/2018	05/24/2017	04/04/2016
Run No:	DU20220723	DU2021858	DU200556	DU190503	DU180535	DU170531	DU160481
Nitrogen:	0.9898	1.0942	1.1186	1.0859	1.1403	1.2980	1.0920
CO2:	0.3651	0.3088	0.2921	0.2979	0.3211	0.3450	0.3410
Methane:	95.4896	95.5079	95.5798	95.5408	95.3940	95.0040	95.1540
Ethane:	2.9848	2.9903	2.9421	2.9481	2.9493	3.0390	3.0450
Propane:	0.0842	0.0500	0.0343	0.0692	0.1029	0.1420	0.1870
I-Butane:	0.0243	0.0130	0.0216	0.0188	0.0302	0.0410	0.0600
N-Butane:	0.0201	0.0102	0.0058	0.0158	0.0252	0.0360	0.0530
I-Pentane:	0.0112	0.0052	0.0026	0.0077	0.0127	0.0170	0.0230
N-Pentane:	0.0049	0.0023	0.0000	0.0041	0.0072	0.0090	0.0140
Hexane+:	0.0260	0.0181	0.0031	0.0117	0.0171	0.0690	0.0310
BTU:	1027.4	1025.3	1024.0	1025.6	1026.3	1028.6	1031.0
GPM:	17.2440	17.2280	17.2150	17.2270	17.2350	17.2550	17.2710
SPG:	0.5794	0.5783	0.5774	0.5782	0.5796	0.5832	0.5825
	04/10/2015	05/22/2014	06/07/2013	07/07/2012	05/31/2011	06/29/2010	08/10/2009
	04/10/2015	05/22/2014	06/07/2013	07/07/2012	05/31/2011	06/29/2010	08/10/2009
	DU150539	DU140453	DU130457	DU120583	DU110444	DU100500	DU290461
	1.0740	1.1430	1.0360	1.0030	1.1380	0.9710	1.0830
	0.3250	0.2880	0.3470	0.3440	0.3480	0.3660	0.3420
	95.4530	95.4940	95.1300	95.1820	94.8630	94.9790	94.1450
	3.0650	3.0090	3.1030	3.1300	3.1510	3.1640	3.3370
	0.0500	0.0350	0.2030	0.1600	0.2340	0.2740	0.5550
	0.0130	0.0070	0.0570	0.0500	0.0630	0.0770	0.1640
	0.0090	0.0080	0.0530	0.0400	0.0600	0.0710	0.1530
	0.0050	0.0000	0.0240	0.0220	0.0290	0.0340	0.0740
	0.0000	0.0050	0.0120	0.0110	0.0160	0.0210	0.0410
	0.0060	0.0110	0.0350	0.0580	0.0980	0.0430	0.1060
	1025.3	1024.4	1032.2	1032.6	1035.4	1036.1	1049.1
	17.2330	17.2220	17.2820	17.2860	17.3080	17.3100	17.4030
	0.5784	0.5779	0.5828	0.5826	0.5859	0.5847	0.5939



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: ELWOOD P DOWD #90
Stn. No.: 1,137
Mtr. No.: 3004529634

METER RUN
COAL SEAM

07/13/2022
23000-21615

08/10/2009
08/10/2009
DU290461

1.0830
0.3420
94.1450
3.3370
0.5550
0.1640
0.1530
0.0740
0.0410
0.1060

1049.1
17.4030
0.5939

Elwood P Dowd Com #90 loss calculation:

Here is the calculation: $19/24 * 46 = 36.41$ MCF

Kevin Smaka P.E.
Regulatory Engineer
Dugan Production Corp
505-486-6207

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 276211

DEFINITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 276211
	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: <ul style="list-style-type: none">• 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.
--

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 276211

QUESTIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 276211
	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 and may provide additional 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 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

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 (CO2) percentage, if greater than one percent	0
Oxygen (O2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 276211

QUESTIONS (continued)

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 276211
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/21/2023
Time vent or flare was discovered or commenced	03:42 AM
Time vent or flare was terminated	08:42 AM
Cumulative hours during this event	19

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Blow Out Pipeline (Any) Natural Gas Vented Released: 36 Mcf Recovered: 0 Mcf Lost: 36 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	Pipeline corrosion is an unpredictable event.
Steps taken to limit the duration and magnitude of vent or flare	Flowline was shut in at the meter run and wellhead to prevent continuous venting.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Replaced 2" riser with poly SDR 11. Electro fused riser to flowline. No lake present.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 276211

ACKNOWLEDGMENTS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 276211
	Action Type: [C-129] Venting and/or Flaring (C-129)

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 276211

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 276211
	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.	11/7/2023