

# Certificate of Analysis

Number: 6030-24100642-001A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

Station Name: Bell Lake Mid- Inlet to the Dehy

Station Number: Station Location: MPLX

Sample Point: The Gas to the Contactor

Meter Number:

Field:

Method: GPA 2286 Cylinder No: 1111-009719

Instrument: 6030\_GC2 (Agilent GC-7890B)

Last Inst. Cal.: 10/08/2024 07:06:35

Analyzed: 10/18/2024 07:44:54 by EBH

Report Date: 10/18/2024 Sampled By: Anthony Olivas

Sample Of: Gas Sample Type: Spot

Sample Date: 10/16/2024 12:00

Sample Conditions: 1115 psig, @ 62 °F Ambient: 62 °F

Received Date: 10/17/2024 Login Date: 10/17/2024 Effective Date: 10/16/2024 12:00

Flow Rate: Sampling Method: Heating Method:

# **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.0000	0.0000	0.0000		GPM TOTAL C2+	10.706
Nitrogen	1.4910	1.5010	1.4760		GPM TOTAL C3+	7.705
Methane	62.9520	63.3610	35.6770		GPM TOTAL iC5+	3.122
Carbon Dioxide	0.3290	0.3310	0.5110			
Ethane	11.0720	11.1440	11.7610	3.001		
Propane	8.5230	8.5780	13.2760	2.379		
Iso-butane	1.7320	1.7430	3.5560	0.574		
n-Butane	5.1030	5.1360	10.4780	1.630		
Iso-pentane	1.7540	1.7650	4.4700	0.649		
n-Pentane	2.1590	2.1730	5.5030	0.793		
Hexanes Plus	4.2400	4.2680	13.2920	1.680		
	99.3550	100.0000	100.0000	10.706		
Calculated Physical	Properties	To	otal	C6+		
Relative Density Real	l Gas	0.99	904	3.0653		
Calculated Molecular	Weight	28	.49	88.78		
Compressibility Factor	r	0.99	930			
GPA 2172 Calculation	on:					
Calculated Gross B	ΓU per ft³ @ 14.73 p	sia & 60°F				
Real Gas Dry BTU		165	4.0	4782.0		
Water Sat. Gas Base	BTU	162	5.2	4698.8		
Ideal, Gross HV - Dry	at 14.73 psia	164	2.4	4782.0		
Ideal, Gross HV - We	t	161	3.8	0.000		
Comments: H2S Fig	eld Content: 0 %					

Mostag Shamma

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.



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Field: Station Name: Bell Lake Mid- Inlet to the Dehy

Station Number: Station Location: MPLX

Sample Point: The Gas to the Contactor

Meter Number:

Instrument 1: 6030\_GC1, HP7890 Signal 1 Instrument 2: 6030\_GC2, HP7890 Signal 1 Analyzed: 10/18/2024 07:43:03 by EBH Report Date: 10/18/2024
Sampled By: Anthony Olivas
Sample Of: Gas Spot
Sample Date: 10/16/2024 12:00
Sample Conditions: 1115 page 462 °F

Received Date: 10/17/2024 Login Date: 10/17/2024 Method: GPA 2286 Cylinder No: 1111-009719

## **Analytical Data**



# Certificate of Analysis

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Field:
Station Name: Bell Lake Mid- Inlet to the Dehy

Station Number: Station Location: MPLX

Sample Point: The Gas to the Contactor

Meter Number:

Instrument 1: 6030\_GC1, HP7890 Signal 1 Instrument 2: 6030\_GC2, HP7890 Signal 1 Analyzed: 10/18/2024 07:43:03 by EBH Report Date: 10/18/2024
Sampled By: Anthony Olivas
Sample Of: Gas Spot
Sample Date: 10/16/2024 12:00
Sample Conditions: 1115 pog, @ 62 °F

Received Date: 10/17/2024 Login Date: 10/17/2024 Method: GPA 2286 Cylinder No: 1111-009719

10453.1

10199.1

6.6077

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	28.49	191.38
004 0470 0 1 1 1 1 1		

**GPA 2172 Calculation:** 

Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F

Real Gas Dry BTU 1654.0 Water Sat. Gas Base BTU 1625.2 Relative Density Real Gas 0.9904 Compressibility Factor 0.9930 Ideal, Gross HV - Wet 1613.8 Ideal, Gross HV - Dry at 14.73 psia 1642.4 Net BTU Dry Gas - real gas 1512 Net BTU Wet Gas - real gas 1485

Comments: H2S Field Content: 0 %

Mostag Shamond

Hydrocarbon Laboratory Manager

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

### **Breakdown of MidBell Lake Compressor Station**

Compressor Packages					
Tag #	Manufacturer	Engine Size	Initial Mass (lb)	Emissions (scf)	Volume (ft <sup>3</sup> )
CM-0500, ENG-1	Caterpillar	3608	199	3,200	150
CM-700, ENG-2	Caterpillar	3608	189	3034	146
CM-900, ENG-3	Caterpillar	3516LE	189	3034	146
CM-1100, ENG-4	Caterpillar	3516LE	189		124
CM-1300, ENG-5	Caterpillar	3516LE	189	3056	124
CM-1500, ENG-6	Caterpillar	3516LE	189	3056	124
CM-1700, ENG-7	Caterpillar	3516LE	183	2929	142
CM-1900, ENG-8	Caterpillar	3516J	183	2929	142
		Total	1,510	21,238	1,098

	Lines and Equipment		
Description	Initial Mass (lb)	Emissions (scf)	Volume (ft <sup>3</sup> )
Piping	3,809	35,077	1,758
Equipment	27,949	80,952	3,601
Total	31,758	116,029	5,359

Station Volume Total	6,457	ft <sup>3</sup>
		<b>.</b>
Station Initial Mass Total	33,268	lb
<b>Station Emission Total</b>	137,267	scf

#### **Comments and Assumptions**

- 1) For compressor packages: connection line volumes to and from the suction and discharge headers were inlcuded. This is due to the main isolation valves being located next to the main header
- 2) Equipment volumes were determined from dimensions from the P&IDs and/or Equipment Drawings
- 3) Piping lengths and schedules were pulled from the as-built 3D models of the compressor station.
- 4) Initial Hydrocarbon Mass was calculated from using the simulated mass density in VMG.
- 5) Emissions for single phase vapor streams are calculated by using Equation W-14A of 40 CFR Part 98, Section 233, Paragraph (i) and the station is not assumed to purged.
- 6) Emissions for two phase or liquid streams are calculated by flash calculations in VMG.

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

General Information Phone: (505) 629-6116

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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 424635

#### **DEFINITIONS**

Operator:	OGRID:
MarkWest Energy West Texas Gas Company, L.L.C	329252
1515 Arapahoe Street	Action Number:
Denver, CO 80202	424635
	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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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 424635

UESTIONS	
	OGRID:
	329252 Action Number:
	424635
	Action Type: [C-129] Venting and/or Flaring (C-129)
hese issues before continuing wit	h the rest of the questions.
Unavailable.	
[fAPP2125136221] Permia	n Natural Gas Gathering System
Yes	
No	
Yes, minor venting and/or	flaring of natural gas.
enting and/or flaring that is or may	be a major or minor release under 19.15.29.7 NMAC.
Yes	•
No	
No	
<b>1</b>	
Gas Compressor Station	
Emissions came from natu	ıral gas compressor station
63	
2	
ifications for each gas.	
Not answered.	
	hese issues before continuing with Unavailable.  [fAPP2125136221] Permia and may provide addional guidance Yes  No  Yes, minor venting and/or flaring that is or may Yes  No  No  Gas Compressor Station  Emissions came from natural flaring that is or may Yes  No  No  No  And Compressor Station  Emissions came from natural flaring that is or may Yes  No  No  No  No  No  And  No  No  No  No  No  No  No  No  No  N

Not answered.

Oxygen (02) percentage quality requirement

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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

QUESTIONS, Page 2

Action 424635

QUESTI	ONS (continued)
Operator:	OGRID:
MarkWest Energy West Texas Gas Company, L.L.C	329252
1515 Arapahoe Street Denver, CO 80202	Action Number: 424635
	Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/10/2025
Time vent or flare was discovered or commenced	10:45 AM
Time vent or flare was terminated	10:48 AM
Cumulative hours during this event	0
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other   Gas Compressor Station   Natural Gas Vented   Released: 137 Mcf   Recovered: 0 Mcf   Lost: 137 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	Operator started unit. Starter failed in the open position. Bled air supply off station which shifted ESD valves open, causing the facility blowdown.
Steps taken to limit the duration and magnitude of vent or flare	Proper notifications were made and immediate fixes were implemented
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Reported to Maintenance department, created work order to replace starter, and reset the system.

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ACKNOWLEDGMENTS

Action 424635

### **ACKNOWLEDGMENTS**

Operator:		OGRID:
ı	MarkWest Energy West Texas Gas Company, L.L.C	329252
ı	1515 Arapahoe Street	Action Number:
ı	Denver, CO 80202	424635
ı		Action Type:
ı		[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 <b>a complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	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.
V	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.
V	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.
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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 424635

#### **CONDITIONS**

Operator:	OGRID:
· ·	
MarkWest Energy West Texas Gas Company, L.L.C	329252
1515 Arapahoe Street	Action Number:
Denver, CO 80202	424635
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

### CONDITIONS

Creat By		Condition Date
mtyl	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.	1/24/2025