



## Certificate of Analysis

Number: 6030-24100641-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Field:  
 Station Name: Bell Lake North- Inlet to the Dehy  
 Station Number:  
 Station Location: MPLX  
 Sample Point: The Gas to the Contactor  
 Meter Number:  
 Method: GPA 2286  
 Cylinder No: 5030-03353  
 Instrument: 6030\_GC2 (Agilent GC-7890B)  
 Last Inst. Cal.: 10/08/2024 07:06:35  
 Analyzed: 10/18/2024 07:11:39 by EBH

Report Date: 10/18/2024  
 Sampled By: Anthony Olivas  
 Sample Of: Gas  
 Sample Type: Spot  
 Sample Date: 10/16/2024 01:10  
 Sample Conditions: 1108 psig, @ 65 °F Ambient: 65 °F  
 Received Date: 10/17/2024  
 Login Date: 10/17/2024  
 Effective Date: 10/16/2024 01:10  
 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+	6.069
Nitrogen	1.8350	1.8810	2.3670		GPM TOTAL C3+	3.536
Methane	75.2370	77.1410	55.5940		GPM TOTAL iC5+	1.019
Carbon Dioxide	0.2690	0.2760	0.5460			
Ethane	9.2010	9.4340	12.7430	2.533		
Propane	5.1260	5.2560	10.4120	1.453		
Iso-butane	0.8900	0.9130	2.3840	0.300		
n-Butane	2.3520	2.4120	6.2980	0.764		
Iso-pentane	0.7130	0.7310	2.3690	0.269		
n-Pentane	0.7760	0.7960	2.5800	0.290		
Hexanes Plus	1.1310	1.1600	4.7070	0.460		
	97.5300	100.0000	100.0000	6.069		

## Calculated Physical Properties

	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7714	3.1170
Calculated Molecular Weight	22.26	90.28
Compressibility Factor	0.9960	

## GPA 2172 Calculation:

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

Real Gas Dry BTU	1312.3	4855.6
Water Sat. Gas Base BTU	1289.5	4771.1
Ideal, Gross HV - Dry at 14.73 psia	1307.1	4855.6
Ideal, Gross HV - Wet	1284.3	0.000

Comments: H2S Field Content: 0 %

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 North- 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 07:09:47 by EBH

Report Date: 10/18/2024

Sampled By: Anthony Olivas

Sample Of: Gas Spot

Sample Date: 10/16/2024 01:10

Sample Conditions: 1108 psig, @ 65 °F

Received Date: 10/17/2024

Login Date: 10/17/2024

Method: GPA 2286

Cylinder No: 5030-03353

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	1.881	2.367	
Methane	77.141	55.594	
Carbon Dioxide	0.276	0.546	
Ethane	9.434	12.743	2.533
Propane	5.256	10.412	1.453
Iso-Butane	0.913	2.384	0.300
n-Butane	2.412	6.298	0.764
Iso-Pentane	0.731	2.369	0.269
n-Pentane	0.796	2.580	0.290
i-Hexanes	0.317	1.203	0.127
n-Hexane	0.192	0.727	0.078
Benzene	0.075	0.265	0.021
Cyclohexane	0.127	0.475	0.043
i-Heptanes	0.195	0.813	0.079
n-Heptane	0.044	0.196	0.020
Toluene	0.046	0.189	0.015
i-Octanes	0.116	0.546	0.052
n-Octane	0.008	0.043	0.004
Ethylbenzene	0.003	0.016	0.001
Xylenes	0.010	0.046	0.004
i-Nonanes	0.014	0.084	0.007
n-Nonane	0.003	0.018	0.002
Decanes Plus	0.010	0.086	0.007
	100.000	100.000	6.069



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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 07:09:47 by EBH

Report Date: 10/18/2024

Sampled By: Anthony Olivas

Sample Of: Gas Spot

Sample Date: 10/16/2024 01:10

Sample Conditions: 1108 psig, @ 65 °F

Received Date: 10/17/2024

Login Date: 10/17/2024

Method: GPA 2286

Cylinder No: 5030-03353

**Calculated Physical Properties**

Calculated Molecular Weight

**Total**

22.26

**C10+**

166.12

**GPA 2172 Calculation:****Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F**

Real Gas Dry BTU

1312.3

9068.7

Water Sat. Gas Base BTU

1289.5

8875.2

Relative Density Real Gas

0.7714

5.7358

Compressibility Factor

0.9960

Ideal, Gross HV - Wet

1284.3

Ideal, Gross HV - Dry at 14.73 psia

1307.1

Net BTU Dry Gas - real gas

1192

Net BTU Wet Gas - real gas

1172

**Comments:** H2S Field Content: 0 %

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.

Facility	Equipment ID	Engine Type	Emissions (scf)	Equipment Status
Bell Lake North	CM_101, ENG-01	Caterpillar 3516 LE	3,750	Operating
Bell Lake North	CM_102, ENG-02	Caterpillar 3516 ULB	3,750	Operating
Bell Lake North	CM_103, ENG-03	Caterpillar 3516 ULB	3,750	Operating
Bell Lake North	CM_104, ENG-04	Caterpillar 3516 ULB	3,750	Operating
Bell Lake North	CM_105, ENG-05	Caterpillar 3516 ULB	3,750	Operating
Bell Lake North	CM_106, ENG-06	Caterpillar 3516 ULB	3,750	Operating
Bell Lake North	CM_107, ENG-07	Caterpillar 3516 LE		Not Operating at Time of Event
Bell Lake North	CM_108, ENG-08	Caterpillar 3516 LE		Not Operating at Time of Event
Bell Lake North	CM_109, ENG-09	Caterpillar 3608A4	6,600	Operating
Bell Lake North	CM_110, ENG-10	Caterpillar 3608A4	6,600	Operating
	Total		35,700	

Piping SCF	Equipment (scf)	Total Blowdown SCF
40,000	65,000	140,700

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

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 450792

DEFINITIONS

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 450792
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 450792

**QUESTIONS**

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 450792
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b> <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	Unavailable.
Incident Facility	[fAPP2125136221] Permian Natural Gas Gathering System

<b>Determination of Reporting Requirements</b> <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	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	77
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 450792

**QUESTIONS (continued)**

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 450792
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/28/2025
Time vent or flare was discovered or commenced	08:45 AM
Time vent or flare was terminated	08:46 AM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Human Error   Gas Compressor Station   Natural Gas Vented   Released: 141 Mcf   Recovered: 0 Mcf   Lost: 141 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	No
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.	False
Please explain reason for why this event was beyond this operator's control	Air supply to the valve was unintentionally shut
Steps taken to limit the duration and magnitude of vent or flare	Air supply was turned on immediately upon discovery. Valve closed.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Air supply turned on to valve, valve shifted to closed position.





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ACKNOWLEDGMENTS

Action 450792

**ACKNOWLEDGMENTS**

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	Action Number: 450792
	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 <b>complete</b> 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

Action 450792

CONDITIONS

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 450792
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
mtyler	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.	4/10/2025