Certificate of Analysis

Number: 6030-24100641-001A

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

Field:		Report Date:	10/18/2024
Station Name:	Bell Lake North- Inlet to the Dehy	Sampled By:	Anthony Olivas
Station Number:		Sample Of:	Gas
Station Location:	MPLX	Sample Type:	Spot
Sample Point:	The Gas to the Contactor	Sample Date:	10/16/2024 01:10
Meter Number:		Sample Conditions:	1108 psig, @ 65 °F Ambient: 65 °F
Method:	GPA 2286	Received Date:	10/17/2024
Cylinder No:	5030-03353	Login Date:	10/17/2024
Instrument:	6030_GC2 (Agilent GC-7890B)	Effective Date:	10/16/2024 01:10
Last Inst. Cal.:	10/08/2024 07:06:35	Flow Rate:	
Analyzed:	10/18/2024 07:11:39 by EBH	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	Total	C6+
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 ft³ @ 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 %

Mostafa Ahmadi

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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Artesia, NM 88210
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Certificate of Analysis

Number: 6030-24100641-001A

Field:		Report Date:	10/18/2024
Station Name:	Bell Lake North- Inlet to the Dehy	Sampled By:	Anthony Olivas
Station Number:		Sample Of:	Gas Spot
Station Location:	MPLX	Sample Date:	10/16/2024 01:10
Sample Point:	The Gas to the Contactor	Sample Conditions:	1108 psig, @ 65 °F
Meter Number:		Received Date:	10/17/2024
Instrument 1:	6030_GC1, HP7890 Signal 1	Login Date:	10/17/2024
Instrument 2:	6030_GC2, HP7890 Signal 1	Method:	GPA 2286
Analyzed:	10/18/2024 07:09:47 by EBH	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

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	Report Date:	10/18/2024
Station Number:		Sampled By:	Anthony Olivas
Station Location:	MPLX	Sample Of:	Gas Spot
Sample Point:	The Gas to the Contactor	Sample Date:	10/16/2024 01:10
Meter Number:		Sample Conditions:	1108 psig, @ 65 °F
Instrument 1:	6030_GC1, HP7890 Signal 1	Received Date:	10/17/2024
Instrument 2:	6030_GC2, HP7890 Signal 1	Login Date:	10/17/2024
Analyzed:	10/18/2024 07:09:47 by EBH	Method:	GPA 2286
		Cylinder No:	5030-03353

Calculated Physical Properties	**Total**	**C10+**
Calculated Molecular Weight	22.26	166.12
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 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 %

Mostafa Ahmadi

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 Bell Lake North Compressor Station

Compressor Packages

Tag #	Manufacturer	Engine Size	Initial Mass (lb)	Emissions (scf)	Volume (ft^3)
CM-0500	Toromont	3516	214		150
CM-0700	Enerflex	3516	205	3,152	146
CM-0900	Enerflex	3516	205	3,152	146
CM-1100	Exterran	3516	200	3,107	124
CM-1300	Exterran	3516	200	3,107	124
CM-1500	Exterran	3516	200	3,107	124
CM-1700	AG	3516	198	3,042	142
		Total	1,422	18,667	956

Lines and Equipment

Description	Initial Mass (lb)	Emissions (scf)	Volume (ft^3)
Piping	4,727	39,408	1,824
Equipment	29,878	40,632	3,303
Total	34,605	80,040	5,126

Station Volume Total	**6,082**	ft^3
Station Initial Mass Total	**36,027**	lb
Station Emission Total	**98,707**	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

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

Operator:	OGRID:
MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	329252
	Action Number: 433190
	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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Santa Fe, NM 87505

QUESTIONS

Action 433190

QUESTIONS

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 433190
	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	*Unavailable.*
Incident Facility	**[fAPP2125136221] Permian Natural Gas Gathering System**

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	No
Is this considered a submission for a vent or flare event	**Yes, minor venting and/or flaring of natural gas.**
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	Yes
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	Gas Compressor Station
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	77
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
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: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 433190
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/05/2025
Time vent or flare was discovered or commenced	02:38 PM
Time vent or flare was terminated	02:40 PM
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: 99 Mcf | Recovered: 0 Mcf | Lost: 99 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	Station shut down due to blown fuse in MCC which resulted in a station 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 I&E department, created work order to replace fuse. Reset the system

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ACKNOWLEDGMENTS

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 433190
	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

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 433190
	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.	2/18/2025