

Natural Gas Analysis Report

GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

Sample Information

	Sample Information
Sample Name	RDU 44H (62428892) 11-11-19
Effective/Start Date	12-01-19 00:00
WELL NAME	0
Laboratory	T COLWELL
Analyzer Type	NAT. GAS ANALYZER
Analyzer Make & Model	AGILENT , 490
Last Calibration/Validation Date	11-11-19
Air Temperature	34
Heat Tracing	Heated Hose & Gasifier
Type of Sample	spot-portable GC
Sampling Method	fill and empty
Company Collecting Sample	AKM Measurement
Method Name	AKM C9.met
Injection Date	2019-11-12 11:35:26
Report Date	2019-11-12 11:38:26
EZReporter Configuration File	BLM Onshore.Extended.GPA 2145-16.FlowCal.cfgx
Source Data File	RDU 44H (62428892) 11-11-193859.dat
NGA Phys. Property Data Source	GPA Standard 2145-16 (FPS)
Data Source	Agilent EZChrom Connector

Component Results

Component Name	Peak Area	Raw Amount	Response Factor	Norm Mole%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	1353221.0	1.6170	0.00000119	1.6596	0.0	0.01605	0.000	
Methane	51192646.0	72.5040	0.00000142	74.4159	753.3	0.41219	0.000	
CO2	7661458.0	7.8980	0.00000103	8.1062	0.0	0.12317	0.000	
Ethane	9092875.0	8.6830	0.00000095	8.9119	158.1	0.09252	2.391	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	5354333.0	4.1490	0.00000077	4.2584	107.4	0.06483	1.177	
iso-butane	402773.0	0.4480	0.00000111	0.4598	15.0	0.00923	0.151	
n-Butane	1192718.0	1.2280	0.00000103	1.2604	41.2	0.02529	0.399	
iso-pentane	317474.0	0.2930	0.00000092	0.3007	12.1	0.00749	0.110	
n-Pentane	386202.0	0.3430	0.00000089	0.3520	14.1	0.00877	0.128	
hexanes	75950.0	0.0600	0.00000079	0.0616	2.9	0.00183	0.025	
heptanes	58305.0	0.2050	0.00000352	0.2104	11.6	0.00728	0.097	
octanes	520.0	0.0020	0.00000385	0.0021	0.1	0.00008	0.001	
nonanes+	1280.0	0.0010	0.00000078	0.0010	0.1	0.00004	0.001	
Total:		97.4310		100.0000	1116.0	0.76879	4.480	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	97.4310		
Pressure Base (psia)	14.730		
Temperature Base	60.0		
Flowing Temperature (Deg. F)	49.0		
Flowing Pressure (psia)	127.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1116.0	1096.5	
Gross Heating Value (BTU / Real cu.ft.)	1119.8	1100.8	
Relative Density (G), Real	0.7711	0.7689	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	97.4310	97.0000	103.0000	Pass	

District I

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

District II

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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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 33198

QUESTIONS

Operator:	WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:	246289
		Action Number:	33198
		Action Type:	[C-129] Venting and/or Flaring (C-129)

QUESTIONS**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 or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.297 NMAC	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring 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

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Not answered.
Facility Type	Not answered.

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	72
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	8
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	06/20/2021
Time venting or flaring was discovered or commenced	03:15 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/20/2021
Time venting or flaring was terminated	06:24 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	3
Longest duration of cumulative hours within any 24-hour period during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Gas Compressor Station Natural Gas Flared Spilled: 97 Mcf Recovered: 0 Mcf Lost: 97 Mcf]
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 Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity

Was or is this venting or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Both Howard and Medallion Compressor stations went down due to heat
Steps taken to limit the duration and magnitude of venting or flaring	Both Howard and Medallion Compressor stations went down due to heat
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Both Howard and Medallion Compressor stations went down due to heat

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CONDITIONS

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	Action Number: 33198
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	6/22/2021