

## Natural Gas Analysis Report

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

## Sample Information

	Sample Information
Sample Name	TUCKER DRAW 9-4 FEDERAL 7H (62468015) 5-27-2021 #1
Effective/Start Date	5-1-2021
WELL NAME	
Laboratory	D JURNEY
Analyzer Type	NAT. GAS ANALYZER
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	5-24-2021
Air Temperature	76
Heat Tracing	Heated Hose & Gasifier
Type of Sample	SPOT PORTABLE GC
Sampling Method	FILL AND EMPTY
Company Collecting Sample	AKM Measurement
Method Name	C9
Injection Date	2021-05-27 08:50:17
Report Date	2021-05-27 08:58:38
EZReporter Configuration File	BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx
Source Data File	9d5450fe-4c3d-473f-8fd2-cf678223ef9e
NGA Phys. Property Data Source	GPA Standard 2145-16 (FPS)
Data Source	INFICON Fusion 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	10024.0	0.7100	0.00007083	0.7109	0.0	0.00688	0.000	
Methane	872210.8	78.2418	0.00008971	78.3417	793.1	0.43393	0.000	
CO2	2272.1	0.1310	0.00005764	0.1311	0.0	0.00199	0.000	
Ethane	205616.1	11.3420	0.00005516	11.3564	201.4	0.11790	3.048	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	126071.8	4.9684	0.00003941	4.9747	125.5	0.07574	1.375	
iso-butane	47103.3	0.8093	0.00001718	0.8103	26.4	0.01626	0.266	
n-Butane	108170.6	1.8494	0.00001710	1.8518	60.6	0.03716	0.586	
iso-pentane	31244.9	0.4696	0.00001503	0.4702	18.9	0.01171	0.173	
n-Pentane	38622.9	0.5629	0.00001457	0.5636	22.6	0.01404	0.205	
hexanes	33763.0	0.3956	0.00001172	0.3961	18.9	0.01179	0.163	
heptanes	25846.0	0.2474	0.00000957	0.2477	13.7	0.00857	0.115	
octanes	14672.0	0.1171	0.00000798	0.1172	7.3	0.00462	0.060	
nonanes+	3717.0	0.0282	0.00000759	0.0283	2.0	0.00125	0.016	
Total:		99.8726		100.0000	1290.3	0.74185	6.007	

## Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.8726		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	84.0		
Flowing Pressure (psia)	82.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1290.3	1267.9	
Gross Heating Value (BTU / Real cu.ft.)	1295.3	1273.3	
Relative Density (G), Real	0.7444	0.7426	

## Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.8726	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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**District IV**

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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 33194

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 33194
	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.
<b>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.</b>	
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	78
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
<b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b>	
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	01:47 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/20/2021
Time venting or flaring was terminated	02:47 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	1
Longest duration of cumulative hours within any 24-hour period during this event	1

**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: 132 Mcf   Recovered: 0 Mcf   Lost: 132 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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Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 33194
	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