

## Natural Gas Analysis Report

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

## Sample Information

	Sample Information
Sample Name	COLLIE 35-34-22-27 FEE 401H (62485290) 9-7-2021
Effective/Start Date	10-1-2021
WELL NAME	
Laboratory	D JURNEY
Analyzer Type	NAT. GAS ANALYZER
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	9-1-2021
Sampling Flow Rate	
Air Temperature	96
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	2021-09-07 14:08:36
Report Date	2021-09-07 14:17:40
EZReporter Configuration File	BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx
Source Data File	8afced6f-3d66-4b4b-bd7f-e535cd6cddf0
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	16908.8	1.1746	0.00006947	1.1689	0.0	0.01131	0.000	
Methane	844136.3	76.7818	0.00009096	76.4073	769.3	0.42322	0.000	
CO2	3518.0	0.2042	0.00005803	0.2032	0.0	0.00309	0.000	
Ethane	196283.1	11.1211	0.00005666	11.0669	195.2	0.11490	2.955	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	142609.0	5.8513	0.00004103	5.8228	146.0	0.08865	1.602	
iso-butane	50019.3	0.8730	0.00001745	0.8687	28.2	0.01743	0.284	
n-Butane	122252.2	2.1316	0.00001744	2.1212	69.0	0.04257	0.668	
iso-pentane	36462.8	0.5536	0.00001518	0.5509	22.0	0.01372	0.201	
n-Pentane	43708.4	0.6528	0.00001494	0.6496	26.0	0.01618	0.235	
hexanes	40239.0	0.4797	0.00001192	0.4774	22.6	0.01420	0.196	
heptanes	40156.0	0.3866	0.00000963	0.3847	21.1	0.01331	0.177	
octanes	26032.0	0.2105	0.00000809	0.2095	13.1	0.00826	0.107	
nonanes+	9746.0	0.0692	0.00000710	0.0689	4.8	0.00305	0.039	
Total:		100.4901		100.0000	1317.3	0.76990	6.464	

## Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.4901		
Pressure Base (psia)	14.650		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	124.0		
Flowing Pressure (psia)	44.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1317.3	1294.2	
Gross Heating Value (BTU / Real cu.ft.)	1322.7	1300.1	
Relative Density (G), Real	0.7728	0.7705	

## Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.4901	97.0000	103.0000	Pass	

**District I**

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**District II**

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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 57415

**QUESTIONS**

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 57415
	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	[30-015-45643] COLLIE 35 34 22 27 FEE #401H
Incident Facility	Not answered.

<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 or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/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 venting and/or flaring 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Separator
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	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
<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.

<b>Date(s) and Time(s)</b>	
Date venting and/or flaring was discovered or commenced	10/19/2021
Time venting and/or flaring was discovered or commenced	07:50 AM
Time venting and/or flaring was terminated	02:15 PM
Cumulative hours during this event	6

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.

Natural Gas Flared (Mcf) Details	Cause: Liquids Unloading   Flow Line - Production   Natural Gas Flared   Released: 82 Mcf   Recovered: 0 Mcf   Lost: 82 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 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 or is this venting and/or flaring a result of downstream activity	No
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/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.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting and/or flaring	This well had loaded up. We started injecting gas on it but could not get it to flow. The only way we were able to get it to flow was to lower the vessel pressure enough to get the differential pressure higher to move the fluid. Once we got fluids moving, we increased the vessel pressure again to go to sales.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	No other way to get the well back into production. This is an isolated incident that does not happen often.

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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: 57415
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
ohair	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.	10/21/2021