

AKM MEASUREMENT SERVICES

Natural Gas Analysis Report

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

Sample Information

Sample Information	
Sample Name	CU LEBRA BLU FF CTB 3 SALES 4-22-2022
Effective/Start Date	12-1-2021
WELL NAME	D RICO
Laboratory	NAT. GAS ANALYZER
Analyzer Type	INFICON MICRO GC
Analyzer Make & Model	2-28-2022
Last Calibration/Validation Date	
Sampling Flow Rate	67
Air Temperature	Heated Hose & Gasifier
Heat Tracing	SPOT PORTABLE GC
Type of Sample	FILL AND EMPTY
Sampling Method	AKM Measurement
Company Collecting Sample	C9
Method Name	2022-04-22 07:01:52
Injection Date	2022-04-22 07:16 04
Report Date	BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx
EZReporter Configuration File	67ab85b5-f78b-4f34-b449-a8480a2e557d
Source Data File	GPA Standard 2145-16 (FPS)
NGA Phys. Property Data Source	INFICON Fusion Connector
Data Source	

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	14797.3	1.0320	0.00006974	1.0345	0.0	0.01001	0.000
Methane	873465.0	78.1403	0.00008946	78.3295	793.0	0.43387	0.000
CO2	1985.6	0.1131	0.00005696	0.1134	0.0	0.00172	0.000
Ethane	204268.7	11.3260	0.00005545	11.3534	201.4	0.11787	3.047
H2S	0.0	0.0002	0.00000000	0.0002	0.0	0.00000	0.000
Propane	125366.2	5.0891	0.00004059	5.1014	128.7	0.07767	1.410
iso-butane	46041.6	0.7938	0.00001724	0.7958	25.9	0.01597	0.261
n-Butane	99713.2	1.7166	0.00001722	1.7207	56.3	0.03453	0.544
iso-pentane	28678.9	0.4302	0.00001500	0.4312	17.3	0.01074	0.158
n-Pentane	31728.6	0.4690	0.00001478	0.4701	18.9	0.01171	0.171
hexanes	27027.0	0.3187	0.00001179	0.3195	15.2	0.00951	0.132
heptanes	21895.0	0.2094	0.00000956	0.2099	11.6	0.00726	0.097
octanes	12585.0	0.0987	0.00000784	0.0989	6.2	0.00390	0.051
nonanes+	2912.0	0.0214	0.00000735	0.0215	1.5	0.00095	0.012
Total:		99.7584		100.0000	1275.9	0.73571	5.884

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	99.7584	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flowing Temperature (Deg. F)	102.0	
Flowing Pressure (psia)	148.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1275.9	1253.7
Gross Heating Value (BTU / Real cu.ft.)	1280.7	1258.9
Relative Density (G), Real	0.7382	0.7365

Monitored Parameter Report

Natural Gas Analysis Report

Production Date	Site Name	Meter Description	Sum of Volume
7/19/2022	Astrodog Pad S CTB	LP Flare Meter	646
7/19/2022	Culebra Bluff CTB 2	LP Flare Meter	78
7/19/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	94
7/19/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	359
7/19/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	219
7/20/2022	Astrodog Pad S CTB	LP Flare Meter	292
7/20/2022	Culebra Bluff CTB 2	LP Flare Meter	81
7/20/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	1,088
7/20/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	1,285
7/20/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	226
7/21/2022	Astrodog Pad S CTB	LP Flare Meter	98
7/21/2022	Culebra Bluff CTB 2	LP Flare Meter	86
7/21/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	226
7/21/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	115
7/21/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	240
7/22/2022	Astrodog Pad S CTB	LP Flare Meter	129
7/22/2022	Culebra Bluff CTB 2	LP Flare Meter	66
7/22/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	490
7/22/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	422
7/22/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	140
7/23/2022	Astrodog Pad S CTB	LP Flare Meter	278
7/23/2022	Culebra Bluff CTB 2	LP Flare Meter	87
7/23/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	1,222
7/23/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	1,129
7/23/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	162
7/24/2022	Astrodog Pad S CTB	LP Flare Meter	205
7/24/2022	Culebra Bluff CTB 2	LP Flare Meter	81
7/24/2022	Culebra Bluff CTB 3	LP Flare Meter	92
7/24/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	1,427
7/24/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	116
7/24/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	81
7/25/2022	Astrodog Pad S CTB	LP Flare Meter	122
7/25/2022	Culebra Bluff CTB 2	LP Flare Meter	78
7/25/2022	Rana Salada FC Pad L CTB	LP Flare Meter	189

[illegible]

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 129164

DEFINITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 129164
	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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QUESTIONS

Action 129164

QUESTIONS

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

QUESTIONS

Prerequisites	
<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	Not answered.
Incident Facility	[fAPP2216747738] ASTRODOG PAD S CTB 4

Determination of Reporting Requirements	
<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	Yes
Is this considered a submission for a vent or flare event	Yes, major 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 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	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas	
<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	0
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.

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QUESTIONS, Page 2

Action 129164

QUESTIONS (continued)

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	Action Number: 129164
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/19/2022
Time vent or flare was discovered or commenced	08:00 AM
Time vent or flare was terminated	08:00 AM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 646 Mcf Recovered: 0 Mcf Lost: 646 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 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	Wait on VRU install
Steps taken to limit the duration and magnitude of vent or flare	Monitored
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Wait on VRU install

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ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

☒	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 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

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CONDITIONS

Created By	Condition	Condition Date
bwheaton	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.	7/27/2022