

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	ASTRODOG 233H 5-31-2022
Effective/Start Date	5-1-2022
WELL NAME	
Laboratory	A DOMINGUEZ
Analyzer Type	NAT. GAS ANALYZER
Analyzer Make & Model	INFICON MICRO GC FUSION
Last Calibration/Validation Date	5-3-2022
Sampling Flow Rate	
Air Temperature	74
Heat Tracing	Heated Hose & Gasifier
Type of Sample	SPOT PORTABLE GC
Company Collecting Sample	AKM Measurement
Method Name	C9
Injection Date	2022-05-31 07:20:29
Report Date	2022-05-31 07:34:33
EZReporter Configuration File	BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx
Source Data File	8c7b99b6-f5cf-4b52-b97e-36538354ffb9
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	10769.0	0.7489	0.00006955	0.7655	0.0	0.00740	0.000
Methane	855723.7	76.4525	0.00008934	78.1468	791.1	0.43286	0.000
CO2	2211.4	0.1267	0.00005728	0.1295	0.0	0.00197	0.000
Ethane	210942.8	11.6722	0.00005533	11.9308	211.6	0.12387	3.202
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	124829.3	5.0583	0.00004052	5.1704	130.4	0.07872	1.429
iso-butane	46380.0	0.7989	0.00001723	0.8166	26.6	0.01639	0.268
n-Butane	89806.3	1.5535	0.00001730	1.5879	51.9	0.03187	0.502
iso-pentane	26279.0	0.3963	0.00001508	0.4051	16.2	0.01009	0.149
n-Pentane	27658.0	0.4117	0.00001489	0.4208	16.9	0.01048	0.153
hexanes	29182.0	0.3299	0.00001131	0.3372	16.1	0.01003	0.139
heptanes	29161.0	0.2179	0.00000747	0.2227	12.3	0.00770	0.103
octanes	23310.0	0.0599	0.00000257	0.0613	3.8	0.00242	0.032
nonanes+	5914.0	0.0053	0.00000090	0.0054	0.4	0.00024	0.003
Total:		97.8320		100.0000	1277.4	0.73403	5.980

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	97.8320	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flowing Temperature (Deg. F)	0.0	
Flowing Pressure (psia)	0.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1277.4	1255.2
Gross Heating Value (BTU / Real cu.ft.)	1282.2	1260.4
Relative Density (G), Real	0.7365	0.7348

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status
Total un-normalized amount	97.8320	97.0000	103.0000	Pass

Natural Gas Analysis Report

Calculations for the total Mcf flared

End Meter Volume – the Begin Meter Volume.

***Composition for the gas has been entered into the question portion of the C-129.

If further back up is needed please let us know and will provide requested data.

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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

DEFINITIONS

Action 335021

DEFINITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 335021
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 335021

QUESTIONS

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	Action Number: 335021
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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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2216747738] ASTRODOG PAD S CTB 4
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

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 this vent or flare caused by an emergency or malfunction	No
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 within 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 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
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sulfide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0

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QUESTIONS, Page 2

Action 335021

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/30/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Scheduled Maintenance Producing Well Natural Gas Flared Released: 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 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	No
Downstream OGRID that should have notified this operator	0
Date notified of downstream activity requiring this vent or flare	02/01/2024
Time notified of downstream activity requiring this vent or flare	05:02 PM

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	Equipment downtime emissions controlled by flare.
Steps taken to limit the duration and magnitude of vent or flare	Standard emission control of equipment downtime. Working with vendor to coordinate service time and minimize downtime
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	No way to avoid periodic downtime for repairs to address unforeseen condition. Process equipment emissions controlled by flare

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☒	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☒	I hereby certify the statements in this amending 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
kmcbri-este	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/18/2024