

## Natural Gas Analysis Report

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

## Sample Information

Sample Information	
Sample Name	RANA SALADA FC 0106 233H
Effective/Start Date	12-1-2021
WELL NAME	
Laboratory	D RICO
Analyzer Type	NAT. GAS ANALYZER
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	2-28-2022
Sampling Flow Rate	
Air Temperature	65
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	2022-03-10 16:06:00
Report Date	2022-03-10 16:18:06
EZReporter Configuration File	BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx
Source Data File	72cd4596-bbe8-47b3-882f-cdf245337c08
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	167393.2	11.6743	0.00006974	11.7568	0.0	0.11371	0.000
Methane	775484.9	69.3750	0.00008946	69.8656	707.3	0.38699	0.000
CO2	1632.6	0.0930	0.00005696	0.0936	0.0	0.00142	0.000
Ethane	186491.5	10.3403	0.00005545	10.4134	184.7	0.10811	2.793
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	104537.1	4.2436	0.00004059	4.2736	107.8	0.06507	1.181
iso-butane	39697.2	0.6845	0.00001724	0.6893	22.5	0.01383	0.226
n-Butane	77658.4	1.3369	0.00001722	1.3464	44.0	0.02702	0.426
iso-pentane	23680.7	0.3552	0.00001500	0.3577	14.3	0.00891	0.131
n-Pentane	25017.7	0.3698	0.00001478	0.3724	15.0	0.00928	0.135
hexanes	26076.0	0.3075	0.00001179	0.3096	14.8	0.00921	0.128
heptanes	26605.0	0.2545	0.00000956	0.2563	14.1	0.00887	0.119
octanes	24554.0	0.1925	0.00000784	0.1939	12.1	0.00765	0.100
nonanes+	9640.0	0.0709	0.00000735	0.0714	5.0	0.00316	0.040
Total:		99.2978		100.0000	1141.6	0.76323	5.279

## Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	99.2978	
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.)	1141.6	1121.7
Gross Heating Value (BTU / Real cu.ft.)	1145.3	1125.8
Relative Density (G), Real	0.7654	0.7632

## Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.2978	97.0000	103.0000	Pass	

Production Date	Site Name	Meter Description	Sum of Volume	Notes
3/9/2022	Culebra Bluff CTB 2	LP Flare Meter	250	
3/9/2022	Culebra Bluff CTB 3	LP Flare Meter	905	
3/9/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	734	Kodiak compressor down - scrubber freeze
3/9/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	691	Kodiak compressor down - scrubber freeze
3/9/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	97	
3/9/2022	Rana Salada FC Pad L CTB	FB Flare Meter	273	
3/10/2022	Culebra Bluff CTB 2	LP Flare Meter	236	
3/10/2022	Culebra Bluff CTB 3	LP Flare Meter	965	
3/10/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	94	Kodiak compressor down - scrubber freeze
3/10/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	84	Kodiak compressor down - scrubber freeze
3/10/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	100	
3/10/2022	Rana Salada FC Pad L CTB	FB Flare Meter	94	
3/11/2022	Culebra Bluff CTB 2	LP Flare Meter	229	
3/11/2022	Culebra Bluff CTB 3	LP Flare Meter	546	
3/11/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	822	Kodiak compressor down - scrubber freeze
3/11/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	768	Kodiak compressor down - scrubber freeze
3/11/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	70	
3/11/2022	Rana Salada FC Pad L CTB	FB Flare Meter	107	
3/12/2022	Culebra Bluff CTB 2	LP Flare Meter	239	
3/12/2022	Culebra Bluff CTB 3	LP Flare Meter	277	
3/12/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	89	
3/13/2022	Culebra Bluff CTB 2	LP Flare Meter	203	
3/13/2022	Culebra Bluff CTB 3	LP Flare Meter	258	


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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

DEFINITIONS

Action 91237

**DEFINITIONS**

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 91237
	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 91237

**QUESTIONS**

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920 Action Number: 91237 Action Type: [C-129] Venting and/or Flaring (C-129)
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**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	Not answered.
Incident Facility	[fAPP2207532618] Rana Salada Pad L CTB

<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 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, 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 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
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	3
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 91237

**QUESTIONS (continued)**

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 91237
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/10/2022
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: 94 Mcf   Recovered: 0 Mcf   Lost: 94 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	VRU down
Steps taken to limit the duration and magnitude of vent or flare	Monitoring while down
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Repair vru

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ACKNOWLEDGMENTS

Action 91237

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

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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  
 Action 91237

**CONDITIONS**

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	Action Number: 91237
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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.	3/18/2022