

## 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 L PAD
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	37
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	2022-03-15 08:12:49
Report Date	2022-03-15 08:25:01
EZReporter Configuration File	BLM Onshore.Extended.GPA 2145-16.FlowCal.H2S.cfgx
Source Data File	13f25d87-16be-4e06-a4c4-8557943aa637
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	20203.6	1.4090	0.00006974	1.4103	0.0	0.01364	0.000	
Methane	880657.5	78.7838	0.00008946	78.8538	798.3	0.43677	0.000	
CO2	1631.4	0.0929	0.00005696	0.0930	0.0	0.00141	0.000	
Ethane	209820.4	11.6338	0.00005545	11.6441	206.5	0.12089	3.124	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	116113.1	4.7135	0.00004059	4.7177	119.0	0.07183	1.304	
iso-butane	42255.5	0.7286	0.00001724	0.7292	23.8	0.01463	0.239	
n-Butane	82056.9	1.4126	0.00001722	1.4139	46.2	0.02837	0.447	
iso-pentane	22849.6	0.3427	0.00001500	0.3430	13.8	0.00854	0.126	
n-Pentane	23225.3	0.3433	0.00001478	0.3436	13.8	0.00856	0.125	
hexanes	19103.0	0.2252	0.00001179	0.2254	10.7	0.00671	0.093	
heptanes	14580.0	0.1395	0.00000956	0.1396	7.7	0.00483	0.065	
octanes	9238.0	0.0724	0.00000784	0.0725	4.5	0.00286	0.037	
nonanes+	1885.0	0.0139	0.00000735	0.0139	1.0	0.00062	0.008	
Total:		99.9112		100.0000	1245.3	0.71966	5.568	

## Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.9112		
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.)	1245.3	1223.6	
Gross Heating Value (BTU / Real cu.ft.)	1249.7	1228.4	
Relative Density (G), Real	0.7219	0.7205	

## Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.9112	97.0000	103.0000	Pass	

Production Date	Site Name	Meter Description	Sum of Volume	Notes
3/13/2022	Culebra Bluff CTB 2	LP Flare Meter	203	
3/14/2022	Culebra Bluff CTB 2	LP Flare Meter	219	
3/14/2022	Culebra Bluff CTB 3	LP Flare Meter	276	
3/15/2022	Culebra Bluff CTB 2	HP Flare Meter	913	Crestwood outage. Line maintenece
3/15/2022	Culebra Bluff CTB 2	LP Flare Meter	638	
3/15/2022	Culebra Bluff CTB 3	HP Flare Meter	1,335	Crestwood outage. Line maintenece
3/15/2022	Culebra Bluff CTB 3	LP Flare Meter	112	
3/15/2022	Rana Salada FC Pad L CTB	HP Flare Meter	1,188	Crestwood pipeline tie-in
3/15/2022	Rana Salada FC Pad L CTB	LP Flare Meter	386	
3/16/2022	Culebra Bluff CTB 2	LP Flare Meter	329	
3/16/2022	Culebra Bluff CTB 3	LP Flare Meter	233	
3/17/2022	Culebra Bluff CTB 2	LP Flare Meter	210	
3/17/2022	Culebra Bluff CTB 3	LP Flare Meter	257	
3/17/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	71	
3/17/2022	Rana Salada FC Pad L CTB	HP Flare Meter	234	Crestwood pipeline tie-in
3/17/2022	Rana Salada FC Pad L CTB	LP Flare Meter	413	
3/18/2022	Culebra Bluff CTB 2	LP Flare Meter	302	
3/18/2022	Culebra Bluff CTB 3	LP Flare Meter	251	
3/18/2022	Rana Salada FC Pad L CTB	LP Flare Meter	379	
3/19/2022	Culebra Bluff CTB 2	LP Flare Meter	267	
3/19/2022	Culebra Bluff CTB 3	LP Flare Meter	323	
3/19/2022	Rana Salada FC Pad L CTB	HP Flare Meter	330	Crestwood pipeline tie-in
3/19/2022	Rana Salada FC Pad L CTB	LP Flare Meter	514	
3/20/2022	Culebra Bluff CTB 2	LP Flare Meter	220	
3/20/2022	Culebra Bluff CTB 3	LP Flare Meter	235	
3/20/2022	Rana Salada FC Pad L CTB	LP Flare Meter	635	
3/21/2022	Culebra Bluff CTB 2	LP Flare Meter	190	
3/21/2022	Culebra Bluff CTB 3	LP Flare Meter	315	
3/21/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	69	Flare stack malfunction
3/21/2022	Rana Salada FC Pad L CTB	HP Flare Meter	298	
3/21/2022	Rana Salada FC Pad L CTB	LP Flare Meter	923	

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS  
  
Action 93978

DEFINITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 93978
	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: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 93978

**QUESTIONS**

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	Action Number: 93978
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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 Well	Not answered.
Incident Facility	[fAPP2207532618] Rana Salada Pad L CTB

**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	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.

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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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**

Please provide the mole percent for the percentage questions in this group.

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

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.

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 93978

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 93978
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/18/2022
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: 379 Mcf   Recovered: 0 Mcf   Lost: 379 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
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	REPAIR

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ACKNOWLEDGMENTS

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**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  
  
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	Action Number: 93978
	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.	3/29/2022