



Athens, TX (903) 677-0700 . Beeville, TX (361) 354-5200 . Midland, TX (432) 704-5351

GAS EXTENDED ANALYSIS REPORT

LAB REPORT NUMBER: 210505-9999-05-050521-22

PHYSICAL CONSTANTS PER GPA 2145-09 & TP-17 (1998)

CUSTOMER :	NOVO OIL AND GAS	DATE ON:	05/03/2021
STATION:	RANA SALADA PAD E VRU METER	DATE ANALYZED:	05/05/2021
PRODUCER:	NOVO OIL AND GAS	EFFECTIVE DATE:	05/01/2021
LEASE:	RANA SALADA PAD E VRU METER	DATE OFF:	

<u>COMPONENT</u>	<u>MOLE %</u>	<u>GPM</u>	<u>WT. %</u>
H2S	0.000		0.000
OXYGEN	0.001		0.001
NITROGEN	0.113		0.086
CARBON DIOXIDE	0.156		0.186
METHANE	32.796		14.251
ETHANE	22.488	6.088	18.316
PROPANE	20.989	5.854	25.066
I-BUTANE	4.653	1.541	7.325
N-BUTANE	10.001	3.192	15.745
I-PENTANE	2.675	0.990	5.228
N-PENTANE	2.853	1.047	5.575
HEXANES (C6's)	1.911	0.794	4.460
HEPTANES (C7+)	1.147	0.508	3.089
OCTANES (C8+)	0.206	0.103	0.634
NONANES (C9+)	0.005	0.001	0.015
DECANES (C10+)	0.006	0.003	0.023
TOTAL	100.000	20.121	100.000

REAL SP. GRAVITY	1.2902	REAL BTU DRY	2151.830
MOL. WT.	36.919	REAL BTU SAT	2114.367
Z FACTOR	0.9876	PRESS BASE	14.730
C2+ GPM	20.121	C4+ GPM	8.179
C3+ GPM	14.033	C5+ GPM	3.446
C6-C10+ MOL WT	101.513	C6-C10+ GRAVITY	3.496

SAMPLED BY	MH	SAMPLE PRESS:	166
SAMPLE TYPE:	SPOT	SAMPLE TEMP:	171
CYLINDER NO.:	2014	COUNTY / STATE:	14.73
COMMENT:	SPOT	ANALYST	MIKE HOBGOOD

* SEE NEXT PAGE FOR C6+ COMPOSITIONAL BREAKDOWN
 PAGE 1 OF 3
 05-17-2021



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STATION: RANA SALADA PAD E VR LEASE: RANA SALADA PAD E VRU METER

C6+ FRACTION COMPOSITION

<u>HEXANE ISOMERS (C6'S)</u>		<u>MOLE %</u>	<u>GPM</u>	<u>WT. %</u>
2,2-Dimethylbutane	P	0.083	0.035	0.193
2,3-Dimethylbutane	PN	0.000	0.000	0.000
2-Methylpentane	P	0.226	0.095	0.527
3-Methylpentane	P	0.487	0.201	1.137
Methylcyclopentane	N	0.000	0.000	0.000
Benzene	A	0.000	0.000	0.000
Cyclohexane	N	0.012	0.004	0.028
n-Hexane	P	1.103	0.459	2.575
<u>HEPTANE ISOMERS (C7'S)</u>				
3,3-Dimethylpentane	P	0.001	0.000	0.002
2,2-Dimethylpentane	P	0.000	0.000	0.000
2,4-Dimethylpentane	P	0.142	0.067	0.386
2 & 3-Methylhexane	P	0.258	0.120	0.700
2,3-Dimethylpentane	P	0.033	0.015	0.091
1,t-3-Dimethylcyclopentane	N	0.000	0.000	0.000
1,c-3-Dimethylcyclopentane	N	0.000	0.000	0.000
3-Ethylpentane	N	0.000	0.000	0.000
1,t-2-Dimethylcyclopentane	N	0.000	0.000	0.000
Toluene	A	0.018	0.006	0.046
Methylcyclohexane	N	0.408	0.166	1.085
Ethylcyclopentane	N	0.000	0.000	0.000
n-Heptane	P	0.287	0.134	0.779
<u>OCTANE ISOMERS (C8'S)</u>				
2,4 & 2,5-Dimethylhexane	P	0.009	0.005	0.029
2,2,4-Trimethylpentane	N	0.000	0.000	0.000
1,t-2,c-4-Trimethylcyclopentane	N	0.000	0.000	0.000
1,t-2,c-3-Trimethylcyclopentane	N	0.000	0.000	0.000
2-Methylheptane	P	0.056	0.029	0.173
1,c-2,t-4-Trimethylcyclopentane	N	0.000	0.000	0.000
3-Methylheptane	P	0.026	0.013	0.081
1,c-3-Dimethylcyclohexane	N	0.008	0.004	0.024
1,t-4-Dimethylcyclohexane	N	0.000	0.000	0.000
methyl-ethylcyclopentanes	N	0.000	0.000	0.000
1,t-3 & 1,c-4 Dimethylcyclohexane	N	0.012	0.006	0.038
1,c-2-Dimethylcyclohexane	N	0.006	0.003	0.000
Ethylcyclohexane	N	0.016	0.007	0.050
Ethylbenzene	A	0.003	0.001	0.010
m & p-Xylene	A	0.002	0.001	0.006
o-Xylene	A	0.002	0.001	0.005
Cyclooctane	P	0.001	0.000	0.002
n-Octane	P	0.064	0.033	0.199



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C6+ FRACTION COMPOSITION

<u>NONANE ISOMERS (C9'S)</u>		<u>MOLE %</u>	<u>GPM</u>	<u>WT. %</u>
Trimethylhexanes	P	0.000	0.000	0.000
Dimethylpentanes	P	0.000	0.000	0.000
Isopropylcyclopentane	N	0.000	0.000	0.000
n-Propylcyclopentane	N	0.000	0.000	0.000
3-Methyloctane	P	0.000	0.000	0.000
Trimethylcyclohexanes	N	0.000	0.000	0.000
Isopropylbenzene	A	0.001	0.000	0.003
Isopropylcyclohexane	N	0.000	0.000	0.000
n-Propylcyclohexane	N	0.000	0.000	0.002
n-Propylbenzene	A	0.001	0.000	0.002
m-Ethyltoluene	A	0.000	0.000	0.000
p-Ethyltoluene	A	0.000	0.000	0.000
1,3,5-Trimethylbenzene	A	0.000	0.000	0.001
4 & 5-Methylnonane	P	0.000	0.000	0.000
o-Ethyltoluene & 3-Methylnonane	AP	0.000	0.000	0.000
1,2,3-Trimethylbenzene	A	0.000	0.000	0.000
1,2,4-Trimethylbenzene	A	0.001	0.001	0.004
n-Nonane	P	0.001	0.000	0.003
<u>DECANE ISOMERS (C10'S)</u>				
2-Methylnonane	P	0.000	0.000	0.000
tert-Butylbenzene	A	0.004	0.002	0.013
Isobutylcyclohexane & tert-Butylcyclohexane		0.000	0.000	0.000
Isobutylbenzene	A	0.000	0.000	0.000
sec-Butylbenzene	A	0.000	0.000	0.000
n-Butylcyclohexane	N	0.002	0.001	0.008
1,3-Diethylbenzene	A	0.000	0.000	0.000
1,2-Diethylbenzene & n-Butylbenzene	A	0.001	0.000	0.002
1,4-Diethylbenzene	A	0.000	0.000	0.000
n-Decane	P	0.000	0.000	0.000
<u>UNDECANE ISOMERS (C11'S)</u>				
n-Undecane	P	0.000	0.000	0.000
<u>DODECANE ISOMERS (C12'S)</u>				
n-Dodecane +	P	0.000	0.000	0.000

X *Michael Holson*

ANALYST

Production Date	Site Name	Meter Description	Sum of Volume	Notes
6/9/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	150	Compressor issues - heat
6/9/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	274	
6/9/2022	Rana Salada FC Pad L CTB	LP Flare Meter	70	
6/10/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	179	Enterprise down
6/10/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	245	
6/11/2022	Astrodog Pad S CTB	HP Flare Meter	798	from flowback report - Crestwood compressor outage
6/11/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	1,825	Enterprise down
6/11/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	1,176	Enterprise down
6/11/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	226	
6/12/2022	Astrodog Pad S CTB	HP Flare Meter	1,007	from flowback report - Crestwood compressor outage
6/12/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	1,459	Enterprise down
6/12/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	633	Enterprise down
6/12/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	258	
6/13/2022	Astrodog Pad S CTB	HP Flare Meter	4,417	from flowback report - Crestwood compressor outage
6/13/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	3,566	Enterprise down
6/13/2022	Rana Salada FC Pad A CTB	RS Pad A LP Flare	71	
6/13/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	3,493	Enterprise down
6/13/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	264	
6/13/2022	Rana Salada FC Pad L CTB	LP Flare Meter	266	
6/14/2022	Astrodog Pad S CTB	HP Flare Meter	330	from flowback report - Crestwood compressor outage
6/14/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	102	
6/14/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	110	
6/14/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	205	
6/14/2022	Rana Salada FC Pad L CTB	LP Flare Meter	188	
6/15/2022	Astrodog Pad S CTB	HP Flare Meter	1,094	from flowback report - Crestwood compressor outage
6/15/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	79	
6/15/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	213	
6/16/2022	Astrodog Pad S CTB	HP Flare Meter	240	from flowback report - Crestwood compressor outage
6/16/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	896	
6/16/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	449	
6/16/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	223	

6/17/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	1,358
6/17/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	665
6/17/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	236
6/18/2022	Rana Salada FC Pad A CTB	RS Pad A HP Flare	321
6/18/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	271
6/18/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	250
6/18/2022	Rana Salada FC Pad L CTB	LP Flare Meter	146
6/19/2022	Rana Salada FC Pad E CTB	RS Pad E HP Flare Meter	248
6/19/2022	Rana Salada FC Pad E CTB	RS Pad E LP Flare Meter	258
6/19/2022	Rana Salada FC Pad L CTB	LP Flare Meter	55

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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 121800

DEFINITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 121800
	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 121800

QUESTIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 121800
	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	[fAPP2201150858] Rana Salada Pad E 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, major 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 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	33
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 121800

QUESTIONS (continued)

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 121800
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/11/2022
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: Equipment Failure Gas Compressor Station Natural Gas Flared Released: 1,176 Mcf Recovered: 0 Mcf Lost: 1,176 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	COMPRESSOR ISSUES - HEAT RELATED
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 REPAIR

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ACKNOWLEDGMENTS

Action 121800

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Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 121800
	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

Action 121800

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 121800
	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.	6/30/2022