3.496



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:

COMPONENT	MOLE %	<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+ GRAVITY

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

101.513

COMMENT: SPOT ANALYST MIKE HOBGOOD

C6-C10+ MOL WT

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



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

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

C6+ FRACTION COMPOSITION

HEXANE ISOMERS (C6'S)		MOLE %	GPM	<u>WT. %</u>
2,2-Dimethylbutane	Р	0.083	0.035	0.193
2,3-Dimethylbutane	PN	0.000	0.000	0.000
2-Methylpentane	Р	0.226	0.095	0.527
3-Methylpentane	Р	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
In-Hexane	Р	1.103	0.459	2.575
	•	1.100	0.100	2.070
HEPTANE ISOMERS (C7'S) 3,3-Dimethylpentane	Р	0.001	0.000	0.002
2,2-Dimethylpentane	r P	0.000	0.000	0.002
2,4-Dimethylpentane	P	0.000	0.000	0.386
	P		0.007	
2 & 3-Methylhexane	P P	0.258	****	0.700
2,3-Dimethylpentane 1,t-3-Dimethylcyclopentane	N	0.033	0.015	0.091
	N	0.000 0.000	0.000 0.000	0.000
1,c-3-Dimethylcyclopentane	N N	0.000		0.000 0.000
3-Ethlypentane			0.000	
1,t-2-Dimethylcyclopentane Toluene	N A	0.000	0.000	0.000
		0.018	0.006	0.046
Methylcyclohexane	N	0.408	0.166	1.085
Ethylcyclopentane	N P	0.000	0.000	0.000
n-Heptane	Ρ	0.287	0.134	0.779
OCTANE ISOMERS (C8'S)				
2,4 & 2,5-Dimethylhexane	Р	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	Р	0.056	0.029	0.173
1,c-2,t-4-Trimethylcyclopentane	N	0.000	0.000	0.000
3-Methylheptane	Р	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	Р	0.001	0.000	0.002
n-Octane	Р	0.064	0.033	0.199

Page 2 of 3



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

C6+ FRACTION COMPOSITION

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

Page 3 of 3

X Michael Solzand

Production Dal Site Name	Sum of Volume Notes	
7/6/2021 Rana Salada Pad A CTB	234	
7/5/2021 Rana Salada Pad A CTB	538 vru down 24	nrs
7/4/2021 Rana Salada Pad A CTB	539 vru down 24	nrs
7/3/2021 Rana Salada Pad A CTB	541 vru down 24	nrs
7/2/2021 Rana Salada Pad A CTB	539 vru down 24	nrs
7/1/2021 Rana Salada Pad A CTB	555 vru down 24	nrs
6/30/2021 Rana Salada Pad A CTB	533 vru down 24	nrs
6/29/2021 Rana Salada Pad A CTB	522 vru down 24	nrs
6/28/2021 Rana Salada Pad A CTB	509 vru down 24	nrs
6/27/2021 Rana Salada Pad A CTB	534 vru down 24	nrs
6/26/2021 Rana Salada Pad A CTB	548 vru down 24	nrs
6/25/2021 Rana Salada Pad A CTB	523 vru down 24	nrs
6/24/2021 Rana Salada Pad A CTB	495 vru down 22	nrs
6/23/2021 Rana Salada Pad A CTB	137 vru down 2 h	rs ·
6/22/2021 Rana Salada Pad A CTB	503 vru down un	ill repaired. down 24 hrs
6/21/2021 Rana Salada Pad A CTB	506 vru down un	il repaired. down 24 hrs
6/20/2021 Rana Salada Pad A CTB	503 vru down un	il repaired. down 24 hrs
6/19/2021 Rana Salada Pad A CTB	240 flare due to v	ru going going on compressor fail. reset this morning. went down again and when resetting while breaker, breaker did not want to turn back on.
6/18/2021 Rana Salada Pad A CTB	92 flare due to v	ru going down on compressor fail a few times a day on compressor fail est-8 times
6/17/2021 Rana Salada Pad A CTB	50 found VRU d	wn on compressor fail upon arrival
6/17/2021 Rana Salada Pad E CTB	50	
6/14/2021 Rana Salada Pad A CTB	74 LP Flare due	o VRU mechanic turning off unit to replace a seal on VRU Pump
6/11/2021 Rana Salada Pad A CTB	273 flare due to u	nit 2 going down on hi air intake temp
6/10/2021 Rana Salada Pad E CTB	51	
6/7/2021 Rana Salada Pad A CTB	94	
6/6/2021 Rana Salada Pad A CTB	51	
6/6/2021 Rana Salada Pad E CTB	197	
6/5/2021 Rana Salada Pad A CTB	581	
6/5/2021 Rana Salada Pad E CTB	660	
6/4/2021 Rana Salada Pad A CTB	476 vru not runn	ng due to high line psi
6/4/2021 Rana Salada Pad E CTB	646 vru down du	·
6/2/2021 Rana Salada Pad A CTB	<u> </u>	were down for repairs
6/2/2021 Rana Salada Pad E CTB	1,476 compressors	were alernated down time to remove witch hats
6/1/2021 Rana Salada Pad E CTB	64	
5/30/2021 Rana Salada Pad E CTB	57	
5/28/2021 Rana Salada Pad E CTB	69	
5/26/2021 Rana Salada Pad A CTB	130 vru was dow	on compreaaor fail
5/25/2021 Rana Salada Pad A CTB	116	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 44139

QUESTIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC	OGRID: 372920
1001 West Wilshire Blvd Oklahoma City, OK 73116	Action Number: 44139
	Action Type: [C-129] Venting and/or Flaring (C-129)
OUESTIONS	

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	[fAPP2123650946] Rana Salada Pad A CTB	

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at	nd may provide addional guidance.
Was or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a notification of a major venting and/or flaring	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 v	renting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring 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	Tank (Any)
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	32	
Nitrogen (N2) percentage, if greater than one percent	0	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	0	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci-	ifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Dioxide (C02) percentage quality requirement	Not answered.	
Oxygen (02) percentage quality requirement	Not answered.	

Date(s) and Time(s)	
Date venting and/or flaring was discovered or commenced	08/01/2021
Time venting and/or flaring was discovered or commenced	08:00 AM
Time venting and/or flaring was terminated	08:00 PM
Cumulative hours during this event	24

ir and Maintenance Other (Specify) Natural Gas Vented Released: 70 Mcf Mcf Lost: 70 Mcf]

Natural Gas Flared (Mcf) Details	Cause: Repair and Maintenance Other (Specify) Natural Gas Flared Released: 70 Mcf Recovered: 0 Mcf Lost: 70 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Flare metered by LP flare meter
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 or is this venting and/or flaring a result of downstream activity	No
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

Steps and Actions to Prevent Waste	
For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	False
Please explain reason for why this event was beyond your operator's control	Skimming operations - moving some water back to the heater treater and in order for operators to do so back pressure needed to be lower. Which then throws off the VRU.
Steps taken to limit the duration and magnitude of venting and/or flaring	All errors corrected same day.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	All VRU's have been upsized should have no issues.

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CONDITIONS

Action 44139

CONDITIONS

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	44139
	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.	8/24/2021