

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+ 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

HEXANE ISOMERS (C6'S)		MOLE %	GPM	WT. %
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	Α	0.000	0.000	0.000
Cyclohexane	N	0.012	0.004	0.028
n-Hexane	Р	1.103	0.459	2.575
HEPTANE ISOMERS (C7'S)				
3,3-Dimethylpentane	Р	0.001	0.000	0.002
2,2-Dimethylpentane	Р	0.000	0.000	0.000
2,4-Dimethylpentane	Р	0.142	0.067	0.386
2 & 3-Methylhexane	Р	0.258	0.120	0.700
2,3-Dimethylpentane	Р	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-Ethlypentane	N	0.000	0.000	0.000
1,t-2-Dimethylcyclopentane	N	0.000	0.000	0.000
Toluene	Α	0.018	0.006	0.046
Methylcyclohexane	N	0.408	0.166	1.085
Ethylcyclopentane	Ν	0.000	0.000	0.000
n-Heptane	Р	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	Ν	0.000	0.000	0.000
1,t-2,c-3-Trimethylcyclopentane	Ν	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	Α	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

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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	N	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

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X Michael Solzand

Production DatSite 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 hrs	
7/4/2021 Rana Salada Pad A CTB	539 vru down 24 hrs	
7/3/2021 Rana Salada Pad A CTB	541 vru down 24 hrs	
7/2/2021 Rana Salada Pad A CTB	539 vru down 24 hrs	
7/1/2021 Rana Salada Pad A CTB	555 vru down 24 hrs	
6/30/2021 Rana Salada Pad A CTB	533 vru down 24 hrs	
6/29/2021 Rana Salada Pad A CTB	522 vru down 24 hrs	
6/28/2021 Rana Salada Pad A CTB	509 vru down 24 hrs	
6/27/2021 Rana Salada Pad A CTB	534 vru down 24 hrs	
6/26/2021 Rana Salada Pad A CTB	548 vru down 24 hrs	
6/25/2021 Rana Salada Pad A CTB	523 vru down 24 hrs	
6/24/2021 Rana Salada Pad A CTB	495 vru down 22 hrs	
6/23/2021 Rana Salada Pad A CTB	137 vru down 2 hrs	
6/22/2021 Rana Salada Pad A CTB	503 vru down untill re	paired. down 24 hrs
6/21/2021 Rana Salada Pad A CTB	506 vru down until rep	
6/20/2021 Rana Salada Pad A CTB	503 vru down until rep	paired. down 24 hrs
6/19/2021 Rana Salada Pad A CTB	240 flare due to vru go	oing 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 vru go	oing 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 down	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 to VF	U mechanic turning off unit to replace a seal on VRU Pump
6/11/2021 Rana Salada Pad A CTB	273 flare due to unit 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 running d	ue to high line psi
6/4/2021 Rana Salada Pad E CTB	646 vru down due to h	
6/2/2021 Rana Salada Pad A CTB	622 compressors were	·
6/2/2021 Rana Salada Pad E CTB		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 down 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 38329

QUESTIONS

Operator:	OGRID:
NOVO OIL & GAS NORTHERN DELAWARE, LLC	372920
1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	38329
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.		
Was or is this venting or flaring caused by an emergency or malfunction	Yes	
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No	
Is this considered a submission for a notification of a major venting or flaring	Yes, major venting or flaring of natural gas.	
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during vo	nting or flaring that is or may be a major or minor release under	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes	
Did this venting 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	

Unregistered Facility Site		
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.		
Facility or Site Name	Rana Salada 0605 Pad E	
Facility Type	Tank Battery - (TB)	

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	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 specifications 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 or flaring was discovered or commenced	06/05/2021	
Time venting or flaring was discovered or commenced	08:00 AM	
Is the venting or flaring event complete	Yes	
Date venting or flaring was terminated	06/05/2021	
Time venting or flaring was terminated	12:00 PM	
Total duration of venting or flaring in hours, if venting or flaring has terminated	4	
Longest duration of cumulative hours within any 24-hour period during this event	4	

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: High Line Pressure Tank (Any) Natural Gas Vented Spilled: 660 Mcf Recovered: 0 Mcf Lost: 660 Mcf]
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Tank (Any) Natural Gas Flared Spilled: 660 Mcf Recovered: 0 Mcf Lost: 660 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Measured by LP flare meter
Is this a gas only submission (i.e. only 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 or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting or flaring	06/05/2021
Time notified of downstream activity requiring this venting or flaring	08:00 AM

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	High line pressure
Steps taken to limit the duration and magnitude of venting or flaring	monitored flare while pressure was elevated
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	planning to upsize vru

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1001 West Wilshire Blvd	Action Number:
Oklahoma City, OK 73116	38329
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/27/2021