

SHIPPING ADDRESS:  
2800 WESTOVER STREET  
ODESSA, TEXAS 79764



BILLING ADDRESS:  
P.O. BOX 69210  
ODESSA, TEXAS 79769-0210

LABORATORY IN ODESSA  
PHONE (432) 337-4744 | FAX (432) 337-8781

08/20/21

## EXTENDED GAS ANALYSIS

LAB 60793

TARGA: VADA  
INLET: 139100009

	MOL %	GPM
HYDROGEN SULFIDE	0.3669	0.000
NITROGEN	3.6197	0.000
METHANE	75.0794	0.000
CARBON DIOXIDE	2.1242	0.000
ETHANE	8.6900	2.320
PROPANE	4.7834	1.316
ISO-BUTANE	0.7911	0.258
N-BUTANE	1.6131	0.508
ISO-PENTANE	0.5141	0.188
N-PENTANE	0.4882	0.177
NEOHEXANE	0.0114	0.005
CYCLOPENTANE	0.0559	0.017
2-METHYLPENTANE	0.1323	0.055
3-METHYLPENTANE	0.0805	0.033
N-HEXANE	0.1909	0.078
METHYLCYCLOPENTANE	0.1158	0.041
BENZENE	0.0654	0.018
CYCLOHEXANE	0.1384	0.047
2-METHYLHEXANE	0.0095	0.004
3-METHYLHEXANE	0.1193	0.055
DIMETHYLCYCLOPENTANES	0.0885	0.036
N-HEPTANE	0.1168	0.054
METHYLCYCLOHEXANE	0.1987	0.080
TRIMETHYLCYCLOPENTANES	0.0144	0.007
TOLUENE	0.1048	0.035
2-METHYLHEPTANE	0.0766	0.039
3-METHYLHEPTANE	0.0027	0.001
DIMETHYLCYCLOHEXANES	0.0477	0.022
N-OCTANE	0.0614	0.031
ETHYL BENZENE	0.0175	0.007
M&P-XYLENES	0.0551	0.021
O-XYLENE	0.0152	0.006
C9 NAPHTHENES	0.0315	0.017
C9 PARAFFINS	0.0854	0.050
N-NONANE	0.0176	0.011
N-DECANE	0.0061	0.004
UNDECANE PLUS	0.0705	0.047
TOTALS	100.0000	5.588

SPECIFIC GRAVITY 0.793  
GROSS DRY BTU/CU.FT. 1255.8  
GROSS WET BTU/CU.FT. 1234.4  
TOTAL MOL. WT. 22.867  
MOL. WT. C6+ 98.721  
SP. GRAVITY C6+ 4.020  
MOL. WT. C7+ 109.126  
SP. GRAVITY C7+ 4.721  
BASIS: 14.65 PSIA @ 60 °F

SAMPLED: 08/18/21  
30 PSI @ 84 °F  
RUN: 08/19/21

SPOT SR  
CYLINDER: 376

DISTRIBUTION: MR JOSEPH AUSTIN  
3669.4 PPM H2S

Meter ID: 139100004		Location Vada Low Pressure Flare			VRSDO.UIS	
	DP	SP	Temp	Volume	Energy	FlowTime
	inH2O	psi	F	MCF	MBTU	sec
11/26/21 0:00	127.506	26.648	51.247	75.696	91743.080	3600.000
11/26/21 1:00	127.626	27.377	51.209	76.904	93207.050	3600.000
11/26/21 2:00	98.932	22.125	50.572	58.750	71204.640	3600.000
11/26/21 3:00	81.621	16.821	50.699	47.193	57197.610	3600.000
11/26/21 4:00	111.402	19.368	50.287	59.146	71684.420	3600.000
11/26/21 5:00	92.722	16.384	50.268	49.421	59898.620	3600.000
11/26/21 6:00	120.005	19.213	50.178	60.991	73921.230	3600.000
11/26/21 7:00	123.706	19.680	51.175	62.660	75944.080	3600.000
11/26/21 8:00	126.169	24.217	51.642	70.913	85946.820	3600.000
11/26/21 9:00	131.802	32.101	51.517	85.274	103352.300	3600.000
11/26/21 10:00	132.481	32.798	51.866	86.469	104800.200	3600.000
11/26/21 11:00	133.135	33.455	52.288	87.586	106154.000	3600.000
11/26/21 12:00	133.243	33.604	52.412	87.824	106442.400	3600.000
11/26/21 13:00	115.283	29.216	52.469	59.118	71651.080	2841.000
11/26/21 14:00	92.979	21.342	55.771	45.240	54831.250	2935.000
11/26/21 15:00	132.543	24.459	53.186	73.032	88514.660	3600.000
11/26/21 16:00	131.388	22.519	52.256	69.454	84178.000	3600.000
11/26/21 17:00	128.032	19.668	51.913	63.493	76953.290	3600.000
11/26/21 18:00	127.200	19.471	51.549	62.973	76322.940	3600.000
11/26/21 19:00	126.670	18.931	51.406	61.848	74960.170	3600.000
11/26/21 20:00	127.997	20.439	51.256	64.993	78771.740	3600.000
11/26/21 21:00	125.525	19.200	51.454	62.099	75263.830	3600.000
11/26/21 22:00	124.369	18.292	51.399	60.150	72901.740	3600.000
11/26/21 23:00	127.760	20.059	51.225	64.239	77858.130	3600.000
<b>Avg/Total:</b>	120.84	23.22	51.64	1595.4647	1933703.2800	84976.0000

**District I**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**District IV**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 64038

**QUESTIONS**

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 64038
	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	[fPAC0608141749] Targa Vada Compressor Station

**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 or is this venting and/or flaring caused by an emergency or malfunction	Yes
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 venting and/or flaring 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 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	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	75
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	3,669
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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.

**Date(s) and Time(s)**

Date venting and/or flaring was discovered or commenced	11/26/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	11:59 PM
Cumulative hours during this event	24

**Measured or Estimated Volume of Vented or Flared Natural Gas**

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Gas Compressor Station   Natural Gas Flared   Released: 1,595 Mcf   Recovered: 0 Mcf   Lost: 1,595 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 or is this venting and/or flaring a result of downstream activity	Yes
Was notification of downstream activity received by you or your operator	No
Downstream OGRID that should have notified you or your operator	[224903] FRONTIER FIELD SERVICES, LLC
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.	True
Please explain reason for why this event was beyond your operator's control	Gas was routed to flare when a downstream facility operated by third party Durango shut down unexpectedly. The Durango facility is the outlet for the gas at the Vada CS. The Targa facility was being operated properly when Durango's facility shut down. Targa was informed after the shutdown occurred. Gas was routed to flare to protect personnel and equipment.
Steps taken to limit the duration and magnitude of venting and/or flaring	Gas was routed to flare until third party Durango ended their downstream shutdown.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	There were no corrective measures required by Targa. The Targa plant was being operated properly; Targa was informed after this event occurred.

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CONDITIONS  
  
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Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 64038
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
tillmana	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.	11/29/2021