

# MANLEY GAS TESTING, INC.

P.O. DRAWER 193  
OFFICE(432)367-3024

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ODESSA, TEXAS 79760  
E-MAIL: MANLEYGAST@AOL.COM

CHARGE..... 150 - 0  
REC. NO. .... 3  
TEST NUMBER.. 51172

DATE SAMPLED..... 02-19-21  
DATE RUN..... 02-23-21  
EFFECT. DATE..... 03-01-21

STATION NO. ... 633045

PRODUCER ..... DURANGO MIDSTREAM

SAMPLE NAME.... ABO TOTAL FLARE GAS METER

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE ..... 22.7 PSIA      FLOWING TEMPERATURE ..... 61 F

SAMPLED BY:      FT      CYLINDER NO. ...

## FRACTIONAL ANALYSIS CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.900	
NITROGEN.....	1.592	
CARBON DIOXIDE.....	1.001	
METHANE.....	71.994	
ETHANE.....	13.162	3.515
PROPANE.....	6.297	1.732
ISO-BUTANE.....	0.850	0.278
NOR-BUTANE.....	2.019	0.636
ISO-PENTANE.....	0.539	0.197
NOR-PENTANE.....	0.568	0.206
HEXANES +.....	1.078	0.470
TOTALS .....	100.000	7.034

H2S PPMV = 9000

'Z' FACTOR (DRY) = 0.9957  
'Z' FACTOR (WET) = 0.9953

CALC. MOL. WT. = 22.94

### ..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY ..... 0.7954

REAL, WET ..... 0.7927

### ..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY .... 1314

BTU/CF - REAL, WET .... 1291

### DISTRIBUTION AND REMARKS:

N

ANALYZED BY: JT  
\*\* R \*\*

APPROVED:





## Daily Flare Report

Values used for calculations  
 Flares D-2301 &  
 D-2302  
 HHV (Btu/scf): 1,314  
 VOC weight fraction: 0.2698  
 Molecular Weight: 22.94  
 H2S concentration: 9,000 ppm

Facility: Empire Abo Gas Plant  
 Date: 8/9/2022

Flares D-2301 & D-2302			Nox		CO		VOC		SO2		H2S	
Time	Event Type	Flare Volume (Mcf)	Total Emissions (lbs/hr)	Excess Emissions (lbs)	Total Emissions (lbs/hr)	Excess Emissions (lbs)	Total Emissions (lbs/hr)	Excess Emissions (lbs)	Total Emissions (lbs/hr)	Excess Emissions (lbs)	Total Emissions (lbs/hr)	Excess Emissions (lbs)
0:00	Malfunction	300.8	54.54	0.0	146.2	0.0	98.2	0.0	448.7	0.0	4.9	0.0
1:00	Malfunction	222.1	40.28	0.0	108.0	0.0	72.5	0.0	331.4	0.0	3.6	0.0
2:00	Malfunction	179.3	32.51	0.0	87.2	0.0	58.5	0.0	267.4	0.0	2.9	0.0
3:00	Malfunction	158.2	28.69	0.0	76.9	0.0	51.7	0.0	236.0	0.0	2.6	0.0
4:00	Malfunction	146.5	26.57	0.0	71.2	0.0	47.9	0.0	218.6	0.0	2.4	0.0
5:00	Malfunction	4.3	0.79	0.0	2.1	0.0	1.4	0.0	6.5	0.0	0.1	0.0
6:00	Malfunction	11.1	2.01	0.0	5.4	0.0	3.6	0.0	16.5	0.0	0.2	0.0
7:00	Malfunction	17.8	3.23	0.0	8.7	0.0	5.8	0.0	26.6	0.0	0.3	0.0
8:00	Malfunction	24.6	4.46	0.0	12.0	0.0	8.0	0.0	36.7	0.0	0.4	0.0
9:00	Malfunction	135.2	24.51	0.0	65.7	0.0	44.1	0.0	201.6	0.0	2.2	0.0
10:00	Malfunction	126.6	22.96	0.0	61.6	0.0	41.3	0.0	188.9	0.0	2.0	0.0
11:00	Malfunction	119.3	21.63	0.0	58.0	0.0	39.0	0.0	177.9	0.0	1.9	0.0
12:00	Malfunction	109.9	19.93	0.0	53.4	0.0	35.9	0.0	164.0	0.0	1.8	0.0
13:00	Malfunction	117.9	21.38	0.0	57.3	0.0	38.5	0.0	175.9	0.0	1.9	0.0
14:00	Malfunction	117.0	21.21	0.0	56.9	0.0	38.2	0.0	174.5	0.0	1.9	0.0
15:00	Malfunction	99.6	18.05	0.0	48.4	0.0	32.5	0.0	148.5	0.0	1.6	0.0
16:00	Malfunction	89.7	16.27	0.0	43.6	0.0	29.3	0.0	133.9	0.0	1.5	0.0
17:00	Malfunction	82.4	14.94	0.0	40.0	0.0	26.9	0.0	122.9	0.0	1.3	0.0
18:00	Malfunction	78.8	14.29	0.0	38.3	0.0	25.7	0.0	117.5	0.0	1.3	0.0
19:00	Malfunction	79.5	14.41	0.0	38.6	0.0	26.0	0.0	118.5	0.0	1.3	0.0
20:00	Malfunction	76.9	13.95	0.0	37.4	0.0	25.1	0.0	114.7	0.0	1.2	0.0
21:00	Malfunction	73.4	13.32	0.0	35.7	0.0	24.0	0.0	109.6	0.0	1.2	0.0
22:00	Malfunction	71.1	12.89	0.0	34.6	0.0	23.2	0.0	106.1	0.0	1.2	0.0
23:00	Malfunction	72.3	13.11	0.0	35.2	0.0	23.6	0.0	107.9	0.0	1.2	0.0



**Facility:** Fadeaway Ridge CS  
**Date:** 8/9/2022

FL-1_Flare		
Time	Event Type	Flare Volume (Mcf)
0:00	Malfunction	382.0
1:00	Malfunction	338.7
2:00	-	0.0
3:00	-	0.0
4:00	-	0.0
5:00	-	0.0
6:00	-	0.0
7:00	-	0.0
8:00	-	0.0
9:00	Malfunction	11.7
10:00	Malfunction	9.0
11:00	-	0.0
12:00	-	0.0
13:00	-	0.0
14:00	-	0.0
15:00	-	0.0
16:00	-	0.0
17:00	-	0.0
18:00	-	0.0
19:00	-	0.0
20:00	-	0.0
21:00	-	0.0
22:00	-	0.0
23:00	-	0.0



Facility: Lobo CS

Date: 8/9/2022

16_Flare		
Time	Event Type	Flare Volume (Mcf)
0:00	SSM	67.2
1:00	SSM	27.3
2:00	SSM	24.5
3:00	-	0.0
4:00	-	0.0
5:00	SSM	15.6
6:00	SSM	30.8
7:00	SSM	32.6
8:00	SSM	5.9
9:00	SSM	25.0
10:00	SSM	70.8
11:00	SSM	33.3
12:00	SSM	36.0
13:00	SSM	22.1
14:00	SSM	2.1
15:00	-	0.0
16:00	-	0.0
17:00	SSM	101.9
18:00	SSM	94.1
19:00	SSM	188.0
20:00	SSM	164.6
21:00	SSM	111.5
22:00	SSM	112.8
23:00	SSM	102.8

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

DEFINITIONS

Action 132738

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 132738
	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 132738

**QUESTIONS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 132738
	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	[fAPP2123032899] Empire Abo 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 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 <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	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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 132738

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 132738
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/10/2022
Time vent or flare was discovered or commenced	09:00 AM
Time vent or flare 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.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Pipeline (Any)   Natural Gas Flared   Released: 2,514 Mcf   Recovered: 0 Mcf   Lost: 2,514 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	open flare up manually relieve field pressure due to station ESD for pipeline fire
Steps taken to limit the duration and magnitude of vent or flare	Relieving pipeline pressure, will return to normal operations once safe to do so.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Relieving pipeline pressure, will return to normal operations once safe to do so.

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ACKNOWLEDGMENTS

Action 132738

**ACKNOWLEDGMENTS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 132738
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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

Action 132738

**CONDITIONS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 132738
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
mtaylor	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.	8/10/2022