

# 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. .... 5  
TEST NUMBER.. 23697

DATE SAMPLED..... 04-09-21  
DATE RUN..... 04-21-21  
EFFECT. DATE..... 05-01-21

STATION NO. ... 06511003

PRODUCER ..... DURANGO MIDSTREAM

SAMPLE NAME.... LOCO HILLS FLARE GAS

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE ..... 24.0 PSIA

FLOWING TEMPERATURE ..... 64 F

SAMPLED BY: DD

CYLINDER NO. ...

## FRACTIONAL ANALYSIS CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.400	
NITROGEN.....	1.907	
CARBON DIOXIDE.....	0.729	
METHANE.....	72.984	
ETHANE.....	13.004	3.473
PROPANE.....	6.215	1.709
ISO-BUTANE.....	0.763	0.249
NOR-BUTANE.....	1.861	0.585
ISO-PENTANE.....	0.468	0.171
NOR-PENTANE.....	0.480	0.174
HEXANES +.....	1.189	0.518
TOTALS .....	100.000	6.879

H2S PPMV = 4000

'Z' FACTOR (DRY) = 0.9958  
'Z' FACTOR (WET) = 0.9954

CALC. MOL. WT. = 22.66

## ..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY ..... 0.7856

REAL, WET ..... 0.7831

## ..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY .... 1309

BTU/CF - REAL, WET .... 1287

## DISTRIBUTION AND REMARKS:

J

ANALYZED BY: JT

\* R \*\*

HE ~

APPROVED:





Facility: Fadeaway Ridge CS  
 Date: 8/26/2021

FL-1_Flare		
Time	Event Type	Flare Volume (Mcf)
0:00	-	0.0
1:00	-	0.0
2:00	SSM	13.8
3:00	SSM	0.8
4:00	SSM	4.9
5:00	SSM	34.5
6:00	-	0.0
7:00	-	0.0
8:00	-	0.0
9:00	-	0.0
10:00	SSM	0.5
11:00	SSM	31.7
12:00	-	0.0
13:00	-	0.0
14:00	SSM	5.5
15:00	-	0.0
16:00	-	0.0
17:00	Malfunction	31.3
18:00	-	0.0
19:00	-	0.0
20:00	Malfunction	0.3
21:00	-	0.0
22:00	-	0.0
23:00	-	0.0



**Facility:** Loco Hills CS  
**Date:** 8/26/2021

FL-1_Flare		
Time	Event Type	Flare Volume (Mcf)
0:00	-	0.0
1:00	-	0.0
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	SSM	4.0
10:00	SSM	69.4
11:00	SSM	100.4
12:00	SSM	84.2
13:00	SSM	19.3
14:00	-	0.0
15:00	-	0.0
16:00	-	0.0
17:00	Malfunction	220.9
18:00	Malfunction	321.8
19:00	Malfunction	324.6
20:00	Malfunction	326.8
21:00	Malfunction	250.0
22:00	-	0.0
23:00	-	0.0



Facility: Lobo CS  
Date: 8/26/2021

16_Flare		
Time	Event Type	Flare Volume (Mcf)
0:00	-	0.0
1:00	-	0.0
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	SSM	18.9
9:00	SSM	286.0
10:00	SSM	300.0
11:00	SSM	299.4
12:00	SSM	287.2
13:00	SSM	148.8
14:00	SSM	2.5
15:00	-	0.0
16:00	Malfunction	38.0
17:00	Malfunction	285.8
18:00	Malfunction	302.2
19:00	Malfunction	304.7
20:00	Malfunction	304.3
21:00	Malfunction	274.3
22:00	Malfunction	56.5
23:00	-	0.0



Facility: Empire Abo Gas Plant  
Date: 8/26/2021

Flares D-2301 & D-2302		
Time	Event Type	Flare Volume (Mcf)
0:00	-	0.0
1:00	-	0.0
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	-	0.0
10:00	-	0.0
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	Malfunction	153.4
18:00	-	0.0
19:00	-	0.0
20:00	-	0.0
21:00	Malfunction	1.0
22:00	-	0.0
23:00	-	0.0



Facility: BKU CS  
Date: 8/26/2021

FL-1_Flare		
Time	Event Type	Flare Volume (Mcf)
0:00	-	0.0
1:00	-	0.0
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	SSM	50.7
10:00	SSM	187.4
11:00	SSM	211.1
12:00	SSM	166.5
13:00	-	0.0
14:00	-	0.0
15:00	-	0.0
16:00	-	0.0
17:00	Malfunction	264.2
18:00	Malfunction	324.2
19:00	Malfunction	319.0
20:00	Malfunction	313.7
21:00	Malfunction	202.5
22:00	-	0.0
23:00	-	0.0

**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 44939

**QUESTIONS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 44939
	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	[fAPP2123032733] Loco Hills 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 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 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	73
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
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.

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

Date venting and/or flaring was discovered or commenced	08/26/2021
Time venting and/or flaring was discovered or commenced	09:00 AM
Time venting and/or flaring was terminated	11:00 PM
Cumulative hours during this event	10

**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 Scheduled Maintenance   Gas Plant   Natural Gas Flared   Released: 277 Mcf   Recovered: 0 Mcf   Lost: 277 Mcf ]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	additional 1444.1 mcf flared due to purchase power loss at gas plant.
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.	True
Please explain reason for why this event was beyond your operator's control	Plant had scheduled maintenance to perform an electrical tie in and replace some valves. Then at approximately 4PM the plant lost power due purchase power loss, an event that cannot be premeditated.
Steps taken to limit the duration and magnitude of venting and/or flaring	resumed normal operations as soon as plant restored normal operations.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	resumed normal operations as soon as plant restored normal operations.



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CONDITIONS  
  
Action 44939

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Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 44939
	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.	8/27/2021