

## MANLEY GAS TESTING, INC.

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

FAX(432)367-1166

ODESSA, TEXAS 79760  
E-MAIL: MANLEYGAST@AOL.COMCHARGE..... 150 - 0  
REC. NO. .... 1  
TEST NUMBER.. 23426DATE SAMPLED..... 01-29-21  
DATE RUN..... 02-10-21  
EFFECT. DATE..... 02-01-21

STATION NO. ... 06511001

PRODUCER ..... FRONTIER FIELD SERVICES

SAMPLE NAME.... LOBO COMPRESSOR FLARE GAS

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE ..... 478.0 PSIA

FLOWING TEMPERATURE ..... 90 F

SAMPLED BY: DD

CYLINDER NO. ...

FRACTIONAL ANALYSIS  
CALCULATED @ 14.650 PSIA AND 60F

|                     | MOL%    | GPM<br>(REAL) |
|---------------------|---------|---------------|
| HYDROGEN SULFIDE... | 0.200   |               |
| NITROGEN.....       | 4.390   |               |
| CARBON DIOXIDE..... | 1.384   |               |
| METHANE.....        | 71.108  |               |
| ETHANE.....         | 13.778  | 3.677         |
| PROPANE.....        | 6.199   | 1.704         |
| ISO-BUTANE.....     | 0.676   | 0.221         |
| NOR-BUTANE.....     | 1.445   | 0.455         |
| ISO-PENTANE.....    | 0.268   | 0.097         |
| NOR-PENTANE.....    | 0.231   | 0.083         |
| HEXANES +.....      | 0.321   | 0.139         |
| TOTALS .....        | 100.000 | 6.376         |

H2S PPMV = 2000

'Z' FACTOR (DRY) = 0.9964  
'Z' FACTOR (WET) = 0.9960

CALC. MOL. WT. = 22.08

## ..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY ..... 0.7649

REAL, WET ..... 0.7628

## ..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY ..... 1224

BTU/CF - REAL, WET ..... 1204

## DISTRIBUTION AND REMARKS:

N

ANALYZED BY: JT

\*\* R \*\*

~ HE ~

APPROVED: MC



Facility: Lobo CS  
Date: 10/11/2021

| 16_Flare |             |                    |
|----------|-------------|--------------------|
| Time     | Event Type  | Flare Volume (Mcf) |
| 0:00     | Malfunction | 41.3               |
| 1:00     | Malfunction | 35.9               |
| 2:00     | -           | 0.0                |
| 3:00     | -           | 0.0                |
| 4:00     | -           | 0.0                |
| 5:00     | -           | 0.0                |
| 6:00     | SSM         | 8.3                |
| 7:00     | -           | 0.0                |
| 8:00     | -           | 0.0                |
| 9:00     | -           | 0.0                |
| 10:00    | -           | 0.0                |
| 11:00    | SSM         | 3.3                |
| 12:00    | SSM         | 1.2                |
| 13:00    | SSM         | 4.0                |
| 14:00    | SSM         | 1.7                |
| 15:00    | -           | 0.0                |
| 16:00    | -           | 0.0                |
| 17:00    | -           | 0.0                |
| 18:00    | -           | 0.0                |
| 19:00    | SSM         | 0.6                |
| 20:00    | SSM         | 4.2                |
| 21:00    | -           | 0.0                |
| 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 56212

**QUESTIONS**

|                                                                                                |                                                        |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>FRONTIER FIELD SERVICES, LLC<br>10077 Grogans Mill Rd.<br>The Woodlands, TX 77380 | OGRID:<br>221115                                       |
|                                                                                                | Action Number:<br>56212                                |
|                                                                                                | Action Type:<br>[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 | [fAPP2123032826] Lobo 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, 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                                     | 71 |
| Nitrogen (N2) percentage, if greater than one percent        | 4  |
| 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 | 10/11/2021 |
| Time venting and/or flaring was discovered or commenced | 12:00 AM   |
| Time venting and/or flaring was terminated              | 09:00 PM   |
| Cumulative hours during this event                      | 9          |

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

|                                  |               |
|----------------------------------|---------------|
| Natural Gas Vented (Mcf) Details | Not answered. |
|----------------------------------|---------------|

|                                                                           |                                                                                                                                 |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Flared (Mcf) Details                                          | Cause: Equipment Failure   Gas Compressor Station   Natural Gas Flared   Released: 100 Mcf   Recovered: 0 Mcf   Lost: 100 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      | Not answered. |
| Was notification of downstream activity received by you or your operator   | Not answered. |
| Downstream OGRID that should have notified you or your operator            | Not answered. |
| 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                                                    | unit 102 shut down twice with different electrical issues. Maintenance troubleshooting electrical issues by shutting all units down at different times to reflash ECM for engines. |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | maintenance and I&E addressed electrical issues and restarted unit                                                                                                                 |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | maintenance and I&E addressed electrical issues and restarted unit. repairs made seem to have corrected issue for now.                                                             |

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CONDITIONS  
  
Action 56212

CONDITIONS

|                                                                                                |                                                        |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>FRONTIER FIELD SERVICES, LLC<br>10077 Grogans Mill Rd.<br>The Woodlands, TX 77380 | OGRID:<br>221115                                       |
|                                                                                                | Action Number:<br>56212                                |
|                                                                                                | Action Type:<br>[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. | 10/15/2021     |