

## MANLEY GAS TESTING, INC.

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

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ODESSA, TEXAS 79760  
E-MAIL: MANLEYGAST@AOL.COMCHARGE..... 150 - 0  
REC. NO. .... 3  
TEST NUMBER.. 51172DATE 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:



Date	EDDY, NM > Empire Abo Gas Plant > n. Flares D- 2301 & D-2302 > Volume of Gas to Flare_Hourly (mscf)	EDDY, NM > Fadeaway Ridge CS > n. FL-1_Flare > Volume of Gas to Flare_Hourly (mscf)
03/19/2023 12:00 AM	0.000	0.000
03/19/2023 1:00 AM	0.000	0.000
03/19/2023 2:00 AM	0.000	0.000
03/19/2023 3:00 AM	0.000	0.000
03/19/2023 4:00 AM	0.000	0.000
03/19/2023 5:00 AM	0.000	0.000
03/19/2023 6:00 AM	0.000	0.000
03/19/2023 7:00 AM	0.000	0.000
03/19/2023 8:00 AM	0.000	0.000
03/19/2023 9:00 AM	0.000	0.000
03/19/2023 10:00 AM	3.630	0.000
03/19/2023 11:00 AM	40.860	205.890
03/19/2023 12:00 PM	0.000	11.190
03/19/2023 1:00 PM	0.000	10.280
03/19/2023 2:00 PM	0.000	14.520
03/19/2023 3:00 PM	0.000	13.240
03/19/2023 4:00 PM	30.460	69.990
03/19/2023 5:00 PM	51.030	127.210
03/19/2023 6:00 PM	474.250	8.680
03/19/2023 7:00 PM	1,241.160	13.760
03/19/2023 8:00 PM	524.880	130.570
03/19/2023 9:00 PM	118.480	13.300
03/19/2023 10:00 PM	0.000	11.590
03/19/2023 11:00 PM	20.680	11.500

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

DEFINITIONS

Action 198871

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 198871
	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 198871

**QUESTIONS**

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	Action Number: 198871
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2123032899] Empire Abo Compressor Station

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	No
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.
<i>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.</i>	
Was there at least 50 MCF 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
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
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 198871

QUESTIONS (continued)

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	Action Number: 198871
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/20/2023
Time vent or flare was discovered or commenced	08:00 AM
Time vent or flare was terminated	11:59 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: Other   Separator   Natural Gas Flared   Released: 2,505 Mcf   Recovered: 0 Mcf   Lost: 2,505 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	large liquid slug in to inlet scrubber caused station ESD.
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	liquid slug causing station shutdown was not anticipated
Steps taken to limit the duration and magnitude of vent or flare	Restarted units and resumed normal operations as soon as practical
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Equipment shutdowns occur to prevent further damage to equipment. Corrective measures are to address repairs, if needed, and restart the equipment.

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ACKNOWLEDGMENTS  
  
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	Action Number: 198871
	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

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	Action Number: 198871
	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.	3/20/2023