

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. 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:



Indicate Event Type Flare Ev**Data Entry - New Mexico Flaring - FI**

Report Run Date:

Date	EDDY, NM > Empire Abo Gas Plant > n. Flares D-2301 & D-2302 > Volume of Gas to Flare_Hourly (mscf)
11/17/2022 12:00 AM	0.000
11/17/2022 1:00 AM	0.000
11/17/2022 2:00 AM	0.000
11/17/2022 3:00 AM	0.000
11/17/2022 4:00 AM	0.000
11/17/2022 5:00 AM	0.000
11/17/2022 6:00 AM	0.000
11/17/2022 7:00 AM	0.000
11/17/2022 8:00 AM	0.000
11/17/2022 9:00 AM	0.000
11/17/2022 10:00 AM	0.000
11/17/2022 11:00 AM	0.000
11/17/2022 12:00 PM	0.000
11/17/2022 1:00 PM	0.000
11/17/2022 2:00 PM	0.000
11/17/2022 3:00 PM	0.000
11/17/2022 4:00 PM	0.000
11/17/2022 5:00 PM	0.000
11/17/2022 6:00 PM	0.000
11/17/2022 7:00 PM	32.430

Indicate Event Type Flare Ev**Data Entry - New Mexico Flaring - FI**

Report Run Date:

Date	EDDY, NM > Empire Abo Gas Plant > n. Flares D-2301 & D-2302 > Volume of Gas to Flare_Hourly (mscf)
11/17/2022 8:00 PM	1,124.730
11/17/2022 9:00 PM	1,241.170
11/17/2022 10:00 PM	141.340
11/17/2022 11:00 PM	0.000
Total	2,539.670

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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 160011

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 160011
	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: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 160011

QUESTIONS

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	Action Number: 160011
	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	Unavailable.
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	No
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 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 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 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

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 160011

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/17/2022
Time vent or flare was discovered or commenced	07:00 PM
Time vent or flare was terminated	10:59 PM
Cumulative hours during this event	4

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: 2,540 Mcf Recovered: 0 Mcf Lost: 2,540 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	"Gas plant backed gas out to field due to unscheduled maintenance and third party take away shutting plant in. Compressor stations flared due to unit shutdown related to high suction pressure from backed out gas. "
Steps taken to limit the duration and magnitude of vent or flare	Expedience of restarting units helped to reduce flare volumes.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Equipment shutdowns due to high suction pressure occurs to prevent further damage to equipment. Reoccurrence is likely when inlet is pressured up beyond equipment tolerance level.

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ACKNOWLEDGMENTS

Action 160011

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	Action Number: 160011
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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 complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	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.
☒	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.
☒	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.
☒	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: 160011
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
agroves	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.	11/18/2022