

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.. 26553DATE SAMPLED..... 05-01-23
DATE RUN..... 05-18-23
EFFEC. DATE..... 06-01-23

STATION NO. ... 06512004

PRODUCER DMS

SAMPLE NAME.... BKU COMPRESSOR INLET

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE 35.0 PSIA

FLOWING TEMPERATURE 68 F

SAMPLED BY: DD

CYLINDER NO. ...

FRACTIONAL ANALYSIS
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.800	
NITROGEN.....	1.862	
CARBON DIOXIDE.....	1.642	
METHANE.....	67.391	
ETHANE.....	15.266	4.078
PROPANE.....	7.583	2.087
ISO-BUTANE.....	1.002	0.328
NOR-BUTANE.....	2.290	0.721
ISO-PENTANE.....	0.543	0.198
NOR-PENTANE.....	0.569	0.206
HEXANES +.....	1.052	0.458
TOTALS	100.000	8.076

H2S PPMV = 8000

'Z' FACTOR (DRY) = 0.9953

'Z' FACTOR (WET) = 0.9949

CALC. MOL. WT. = 23.95

..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY 0.8308

REAL, WET 0.8275

..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY 1349

BTU/CF - REAL, WET 1326

DISTRIBUTION AND REMARKS:

N

ANALYZED BY: CM

** R **

~ HE ~

APPROVED:



MANLEY GAS TESTING INC.
120 DOCK ROAD - ODESSA, TEXAS-432-367-3024

A SAMPLE OF 06512004 DMS - BKU INLET (5/1/23)

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CAPILLARY EXTENDED
C-6+ ANALYSIS
(NORMALIZED TO 100%)

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PAGE NO. 1

COMPONENT	MOL%	WT%
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NEOHEXANE	0.412	0.397
2,3DMC4+CYC5	5.886	4.931
2MPENTANE	13.160	12.669
3MPENTANE	7.450	7.172
N-HEXANE	15.386	14.815
2,2 DMPENTANE	0.117	0.131
MCYCLOPENTANE	10.140	9.534
2,4 DMPENTANE	0.000	0.000
2,2,3 TMBUTANE	0.021	0.024
BENZENE	5.290	4.616
3,3 DMPENTANE	0.027	0.030
CYCLOHEXANE	11.965	11.249
2MHEXANE	1.557	1.743
2,3 DMPENTANE	1.167	1.306
3MHEXANE	1.998	2.236
DIMCYCPENTANES(GROUPED)	3.823	4.194
N-HEPTANE	3.911	4.378
MCYCLOHEXANE	7.132	7.822
2,2DMHEXANE	0.411	0.524
2,3,3TMPENTANE	0.000	0.000
TOLUENE	4.047	4.166
2,3DMHEXANE	0.060	0.076
2M3EPENTANE	0.016	0.021
2MHEPTANE	0.962	1.228
4MHEPTANE	0.049	0.063
3,4DMHEXANE	0.000	0.000
3MHEPTANE	0.438	0.559
TRIMCYCPENTANES(GROUPED)	0.083	0.104
DIMCYCHEXANES(GROUPED)	0.808	1.012
N-OCTANE	0.684	0.873
2,3,5TRIMHEXANE	0.032	0.045
2,2,4TRIMHEXANE	0.060	0.087
2,2DIMHEPTANE	0.013	0.018
2,2,3TRIMHEXANE	0.012	0.017
2,5DIMHEPTANE	0.021	0.030
I-NONANE	0.000	0.000
2,4DIMHEPTANE	0.023	0.033
E-CYCHEXANE	0.289	0.362
3,3DIMHEPTANE	0.117	0.168
2,6DIMHEPTANE	0.032	0.046
E-BENZENE	0.068	0.081
2,3DIMHEPTANE	0.025	0.035
M-XYLENE	0.420	0.498
P-XYLENE	0.135	0.160
3,4DIMHEPTANE	0.115	0.164
3EHEPTANE	0.026	0.037

MANLEY GAS TESTING INC.
120 DOCK ROAD - ODESSA, TEXAS-432-367-3024

A SAMPLE OF 06512004 DMS - BKU INLET (5/1/23)

CAPILLARY EXTENDED
C-6+ ANALYSIS
(NORMALIZED TO 100%)

PAGE NO. 2

COMPONENT	MOL%	WT%
4MOCTANE	0.129	0.186
3MOCTANE	0.052	0.075
O-XYLENE	0.080	0.094
IC4CYCPENTANE	0.037	0.052
N-NONANE	0.305	0.437
I-DECANE	0.012	0.018
1E1MCYC6	0.010	0.014
IC3BENZENE	0.026	0.035
2,3DMOCTANE	0.076	0.121
3EOCTANE	0.179	0.285
NC4CYCC6	0.032	0.050
NC3BENZENE	0.036	0.048
M+P E-TOLUENE	0.060	0.081
O-E-TOLUENE	0.044	0.058
2,2DMOCTANE	0.047	0.075
TERTBUTYLBENZENE	0.011	0.017
1,3,5TMBENZENE	0.007	0.009
3,6DMOCTANE	0.018	0.029
IC4BENZENE	0.054	0.080
N-DECANE	0.048	0.077
UNKNOWN C-6'S	0.000	0.000
UNKNOWN C-7'S	0.000	0.000
UNKNOWN C-8'S	0.017	0.021
UNKNOWN C-9'S	0.312	0.447
UNK C10'S THRU C14'S	0.020	0.037
UNK C15'S THRU C16'S	0.000	0.000
UNK C17'S THRU C20'S	0.000	0.000
TOTAL	100.000	100.000

COMPONENT GROUPINGS (PARAFFINS-NAPTHENES-AROMATICS)

	MOL%	WT%	* C6+ CHARACTERIZATION
TOTAL C-6'S	69.689	65.383	MOL.WEIGHT = 89.519
TOTAL C-7'S	23.800	26.030	SP.GRAVITY = 3.0909
TOTAL C-8'S	4.520	5.676	BTU/FT3(DRY) = 4791.211
TOTAL C-9'S	1.494	2.122	BTU/FT3(WET) = 4708.721
TOTAL C-10'S	0.477	0.752	CU.FT./GAL = 25.801
TOTAL C-11 THRU C-14	0.020	0.037	GAL/CU.FT. = 0.038758
TOTAL C-15 THRU C-16	0.000	0.000	MOL% C6+ AROMATICS = 10.278
TOTAL C-17 THRU C-20	0.000	0.000	
TOTAL	100.000	100.000	

Substituted Flare Volumes**Data Entry - New Mexico Flaring - FI**

Report Run Date:

Date	EDDY, NM > BKU CS > n. FL- 1_Flare > Total Gas to Flare Substituted (mscf)
01/13/2024 12:00 AM	496.58
01/13/2024 1:00 AM	464.77
01/13/2024 2:00 AM	462.22
01/13/2024 3:00 AM	442.93
01/13/2024 4:00 AM	431.35
01/13/2024 5:00 AM	579.38
01/13/2024 6:00 AM	248.25
01/13/2024 7:00 AM	153.47
01/13/2024 8:00 AM	141.77
01/13/2024 9:00 AM	118.13
01/13/2024 10:00 AM	4.9
01/13/2024 11:00 AM	0
01/13/2024 12:00 PM	60.07
01/13/2024 1:00 PM	329.37
01/13/2024 2:00 PM	346.47
01/13/2024 3:00 PM	366.35
01/13/2024 4:00 PM	308.98
01/13/2024 5:00 PM	217.71
01/13/2024 6:00 PM	235.52
01/13/2024 7:00 PM	237.89

Substituted Flare Volumes

Data Entry - New Mexico Flaring - FI

Report Run Date:

Date	EDDY, NM > BKU CS > n. FL- 1_Flare > Total Gas to Flare Substituted (mscf)
01/13/2024 8:00 PM	109.35
01/13/2024 9:00 PM	85.21
01/13/2024 10:00 PM	152.7
01/13/2024 11:00 PM	86.64

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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

DEFINITIONS

Action 303372

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 303372
	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 303372

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 303372
	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	[fAPP2123229442] Frontier Field Services Gathering System

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	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.
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 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	67
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (C02) percentage, if greater than one percent	2
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 303372

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 303372
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/15/2024
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	19

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: 6,080 Mcf Recovered: 0 Mcf Lost: 6,080 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.	False
Please explain reason for why this event was beyond this operator's control	High inlet pressure forcing station to flare for safety reasons.
Steps taken to limit the duration and magnitude of vent or flare	Resumed normal operations once pressures were safe to do so
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Resumed normal operations once pressures were safe to do so. high pressures result in flaring for safety reasons. Recurrence likely when pressures are high.

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ACKNOWLEDGMENTS

Action 303372

ACKNOWLEDGMENTS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 303372
	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

Action 303372

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 303372
	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.	1/15/2024