

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. 4
TEST NUMBER.. 52385DATE SAMPLED..... 07-18-23
DATE RUN..... 07-19-23
EFFEC. DATE..... 08-01-23

STATION NO. ... 633000

PRODUCER DURANGO MIDSTREAM

SAMPLE NAME.... ABO #1 PLANT INLET

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE 35.0 PSIA FLOWING TEMPERATURE 80 F

SAMPLED BY: DD

CYLINDER NO. ...

FRACTIONAL ANALYSIS
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.600	
NITROGEN.....	2.019	
CARBON DIOXIDE.....	0.779	
METHANE.....	71.720	
ETHANE.....	13.419	3.583
PROPANE.....	6.631	1.824
ISO-BUTANE.....	0.859	0.281
NOR-BUTANE.....	2.009	0.633
ISO-PENTANE.....	0.502	0.184
NOR-PENTANE.....	0.493	0.179
HEXANES +.....	0.969	0.422
TOTALS	100.000	7.106

H2S PPMV = 6000

'Z' FACTOR (DRY) = 0.9958

'Z' FACTOR (WET) = 0.9954

CALC. MOL. WT. = 22.86

..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY 0.7925

REAL, WET 0.7899

..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY 1314

BTU/CF - REAL, WET 1291

DISTRIBUTION AND REMARKS:

N

ANALYZED BY: JT
** R **

APPROVED:



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

A SAMPLE OF 633000 DMS - ABO INLET 7-18-23

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

PAGE NO. 1

COMPONENT	MOL%	WT%
-----	----	----
NEOHEXANE	0.415	0.397
2,3DMC4+CYC5	4.650	3.880
2MPENTANE	11.020	10.564
3MPENTANE	6.068	5.817
N-HEXANE	12.789	12.261
2,2 DMPENTANE	0.158	0.176
MCYCLOPENTANE	8.684	8.130
2,4 DMPENTANE	0.000	0.000
2,2,3 TMBUTANE	0.032	0.035
BENZENE	9.148	7.949
3,3 DMPENTANE	0.049	0.054
CYCLOHEXANE	12.810	11.993
2MHEXANE	1.844	2.056
2,3 DMPENTANE	1.196	1.333
3MHEXANE	2.178	2.428
DIMCYCPENTANES (GROUPED)	3.837	4.189
N-HEPTANE	4.191	4.672
MCYCLOHEXANE	9.331	10.192
2,2DMHEXANE	0.397	0.504
2,3,3TMPENTANE	0.014	0.018
TOLUENE	5.001	5.126
2,3DMHEXANE	0.069	0.088
2M3EPENTANE	0.008	0.011
2MHEPTANE	0.885	1.125
4MHEPTANE	0.144	0.183
3,4DMHEXANE	0.054	0.069
3MHEPTANE	0.503	0.640
TRIMCYCPENTANES (GROUPED)	0.072	0.088
DIMCYCHEXANES (GROUPED)	0.890	1.110
N-OCTANE	0.728	0.925
2,3,5TRIMHEXANE	0.015	0.022
2,2,4TRIMHEXANE	0.048	0.068
2,2DIMHEPTANE	0.007	0.010
2,2,3TRIMHEXANE	0.008	0.012
2,5DIMHEPTANE	0.014	0.020
I-NONANE	0.000	0.000
2,4DIMHEPTANE	0.012	0.017
E-CYCHEXANE	0.209	0.261
3,3DIMHEPTANE	0.069	0.098
2,6DIMHEPTANE	0.020	0.028
E-BENZENE	0.044	0.052
2,3DIMHEPTANE	0.016	0.023
M-XYLENE	0.349	0.413
P-XYLENE	0.091	0.108
3,4DIMHEPTANE	0.072	0.103
3EHEPTANE	0.016	0.023

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120 DOCK ROAD - ODESSA, TEXAS-432-367-3024

A SAMPLE OF 633000 DMS - ABO INLET 7-18-23

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

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PAGE NO. 2

COMPONENT -----	MOL% -----	WT% -----
4MOCTANE	0.092	0.132
3MOCTANE	0.029	0.042
O-XYLENE	0.055	0.065
IC4CYCPENTANE	0.026	0.036
N-NONANE	0.188	0.268
I-DECANE	0.014	0.023
1E1MCYC6	0.018	0.026
IC3BENZENE	0.047	0.063
2,3DMOCTANE	0.124	0.196
3EOCTANE	0.301	0.476
NC4CYCC6	0.148	0.231
NC3BENZENE	0.114	0.153
M+P E-TOLUENE	0.080	0.107
O-E-TOLUENE	0.029	0.038
2,2DMOCTANE	0.055	0.087
TERTBUTYLBENZENE	0.020	0.030
1,3,5TMBENZENE	0.011	0.015
3,6DMOCTANE	0.028	0.044
IC4BENZENE	0.097	0.145
N-DECANE	0.077	0.121
UNKNOWN C-6'S	0.000	0.000
UNKNOWN C-7'S	0.000	0.000
UNKNOWN C-8'S	0.014	0.018
UNKNOWN C-9'S	0.242	0.345
UNK C10'S THRU C14'S	0.036	0.068
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

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COMPONENT GROUPINGS (PARAFFINS-NAPTHENES-AROMATICS)

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	MOL% -----	WT% -----	* C6+ CHARACTERIZATION -----
TOTAL C-6'S	65.584	60.991	MOL.WEIGHT = 89.896
TOTAL C-7'S	27.817	30.261	SP.GRAVITY = 3.1039
TOTAL C-8'S	4.526	5.678	BTU/FT3(DRY) = 4784.683
TOTAL C-9'S	1.173	1.649	BTU/FT3(WET) = 4702.306
TOTAL C-10'S	0.864	1.353	CU.FT./GAL = 26.029
TOTAL C-11 THRU C-14	0.036	0.068	GAL/CU.FT. = 0.038419
TOTAL C-15 THRU C-16	0.000	0.000	MOL% C6+ AROMATICS = 15.086
TOTAL C-17 THRU C-20	0.000	0.000	
TOTAL	100.000	100.000	

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Substituted Flare Volumes

Data Entry - New Mexico Flaring - Flare

Report Run Date:

Date	EDDY, NM > Empire Abo Gas Plant > n. Flares D-2301 & D-2302 > Total Gas to Flare Substituted (mscf)
01/28/2024 12:00 AM	431.67
01/28/2024 1:00 AM	451.2
01/28/2024 2:00 AM	451.74
01/28/2024 3:00 AM	495.48
01/28/2024 4:00 AM	349.97
01/28/2024 5:00 AM	262.44
01/28/2024 6:00 AM	42.12
01/28/2024 7:00 AM	67.67
01/28/2024 8:00 AM	7.1
01/28/2024 9:00 AM	0
01/28/2024 10:00 AM	0
01/28/2024 11:00 AM	0
01/28/2024 12:00 PM	0
01/28/2024 1:00 PM	0
01/28/2024 2:00 PM	0
01/28/2024 3:00 PM	0
01/28/2024 4:00 PM	0.25
01/28/2024 5:00 PM	164.92
01/28/2024 6:00 PM	174.51
01/28/2024 7:00 PM	0
01/28/2024 8:00 PM	0

Substituted Flare Volumes

Data Entry - New Mexico Flaring - Flare

Report Run Date:

Date	EDDY, NM > Empire Abo Gas Plant > n. Flares D-2301 & D-2302 > Total Gas to Flare Substituted (mscf)
01/28/2024 9:00 PM	0
01/28/2024 10:00 PM	0
01/28/2024 11:00 PM	0

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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 310240

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310240
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 310240

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310240
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

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 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	73
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 310240

QUESTIONS (continued)

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	Action Number: 310240
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/29/2024
Time vent or flare was discovered or commenced	07:54 AM
Time vent or flare was terminated	07:00 PM
Cumulative hours during this event	8

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: 2,899 Mcf Recovered: 0 Mcf Lost: 2,899 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	
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	Not answered.
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 310240

ACKNOWLEDGMENTS

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	Action Number: 310240
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☒	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☒	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☒	I hereby certify the statements in this amending 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 310240

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310240
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
mtaylor	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	2/1/2024