

## 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.. 26555DATE SAMPLED..... 05-01-23  
DATE RUN..... 05-18-23  
EFFEC. DATE..... 06-01-23

STATION NO. ... 06112004

PRODUCER ..... DMS

SAMPLE NAME.... LOCO HILLS INLET

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE ..... 39.0 PSIA FLOWING TEMPERATURE ..... 68 F

SAMPLED BY: DD

CYLINDER NO. ...

FRACTIONAL ANALYSIS  
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.140	
NITROGEN.....	2.370	
CARBON DIOXIDE.....	0.551	
METHANE.....	73.253	
ETHANE.....	12.639	3.375
PROPANE.....	6.278	1.727
ISO-BUTANE.....	0.853	0.279
NOR-BUTANE.....	2.018	0.636
ISO-PENTANE.....	0.500	0.183
NOR-PENTANE.....	0.501	0.182
HEXANES +.....	0.897	0.391
TOTALS .....	100.000	6.773

H2S PPMV = 1400

'Z' FACTOR (DRY) = 0.9959  
'Z' FACTOR (WET) = 0.9955

CALC. MOL. WT. = 22.50

## ..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY ..... 0.7798

REAL, WET ..... 0.7774

## ..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY .... 1302

BTU/CF - REAL, WET .... 1280

## DISTRIBUTION AND REMARKS:

N

ANALYZED BY: CM  
\*\* R \*\*APPROVED: 

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

A SAMPLE OF 06112001 DMS - LOCO HILLS 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 .....	0.435	0.421
2,3DMC4+CYC5 .....	6.113	5.150
2MPENTANE .....	13.133	12.714
3MPENTANE .....	7.355	7.120
N-HEXANE .....	14.668	14.197
2,2 DMPENTANE .....	0.114	0.128
MCYCLOPENTANE .....	10.274	9.713
2,4 DMPENTANE .....	0.000	0.000
2,2,3 TMBUTANE .....	0.021	0.023
BENZENE .....	5.591	4.906
3,3 DMPENTANE .....	0.031	0.035
CYCLOHEXANE .....	13.382	12.651
2MHEXANE .....	1.522	1.713
2,3 DMPENTANE .....	1.187	1.336
3MHEXANE .....	1.939	2.182
DIMCYCPENTANES(GROUPED)	3.531	3.895
N-HEPTANE .....	3.646	4.105
MCYCLOHEXANE .....	7.348	8.105
2,2DMHEXANE .....	0.395	0.507
2,3,3TMPENTANE .....	0.000	0.000
TOLUENE .....	4.258	4.407
2,3DMHEXANE .....	0.054	0.069
2M3EPENTANE .....	0.015	0.019
2MHEPTANE .....	0.836	1.073
4MHEPTANE .....	0.048	0.061
3,4DMHEXANE .....	0.000	0.000
3MHEPTANE .....	0.388	0.497
TRIMCYCPENTANES(GROUPED)	0.072	0.091
DIMCYCHEXANES(GROUPED)	0.716	0.902
N-OCTANE .....	0.568	0.729
2,3,5TRIMHEXANE .....	0.025	0.036
2,2,4TRIMHEXANE .....	0.055	0.079
2,2DIMHEPTANE .....	0.010	0.015
2,2,3TRIMHEXANE .....	0.009	0.014
2,5DIMHEPTANE .....	0.019	0.027
I-NONANE .....	0.000	0.000
2,4DIMHEPTANE .....	0.020	0.029
E-CYCHEXANE .....	0.266	0.335
3,3DIMHEPTANE .....	0.096	0.138
2,6DIMHEPTANE .....	0.026	0.038
E-BENZENE .....	0.076	0.090
2,3DIMHEPTANE .....	0.000	0.000
M-XYLENE .....	0.366	0.437
P-XYLENE .....	0.102	0.122
3,4DIMHEPTANE .....	0.086	0.124
3EHEPTANE .....	0.020	0.029

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

A SAMPLE OF 06112001 DMS - LOCO HILLS INLET (5/1/23)

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

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PAGE NO. 2

COMPONENT	MOL%	WT%
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4MOCTANE .....	0.106	0.153
3MOCTANE .....	0.038	0.055
O-XYLENE .....	0.061	0.073
IC4CYCPENTANE .....	0.029	0.041
N-NONANE .....	0.199	0.287
I-DECANE .....	0.009	0.014
1E1MCYC6 .....	0.007	0.011
IC3BENZENE .....	0.021	0.029
2,3DMOCTANE .....	0.056	0.089
3EOCTANE .....	0.161	0.258
NC4CYCC6 .....	0.021	0.034
NC3BENZENE .....	0.025	0.034
M+P E-TOLUENE .....	0.040	0.054
O-E-TOLUENE .....	0.025	0.034
2,2DMOCTANE .....	0.032	0.052
TERTBUTYLBENZENE .....	0.009	0.013
1,3,5TMBENZENE .....	0.005	0.006
3,6DMOCTANE .....	0.011	0.018
IC4BENZENE .....	0.033	0.050
N-DECANE .....	0.026	0.042
UNKNOWN C-6'S .....	0.000	0.000
UNKNOWN C-7'S .....	0.000	0.000
UNKNOWN C-8'S .....	0.015	0.019
UNKNOWN C-9'S .....	0.244	0.351
UNK C10'S THRU C14'S	0.011	0.021
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
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TOTAL C-6'S .....	70.951	66.872	MOL.WEIGHT = 89.022
TOTAL C-7'S .....	23.597	25.929	SP.GRAVITY = 3.0737
TOTAL C-8'S .....	3.978	5.024	BTU/FT3(DRY) = 4759.716
TOTAL C-9'S .....	1.105	1.584	BTU/FT3(WET) = 4677.774
TOTAL C-10'S .....	0.358	0.570	CU.FT./GAL = 26.014
TOTAL C-11 THRU C-14	0.011	0.021	GAL/CU.FT. = 0.038441
TOTAL C-15 THRU C-16	0.000	0.000	MOL% C6+ AROMATICS = 10.612
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 > Loco Hills CS > n. FL-1_Flare > Total Gas to Flare Substituted (mscf)
01/25/2024 12:00 AM	0
01/25/2024 1:00 AM	0
01/25/2024 2:00 AM	0
01/25/2024 3:00 AM	0
01/25/2024 4:00 AM	0
01/25/2024 5:00 AM	0
01/25/2024 6:00 AM	0
01/25/2024 7:00 AM	0
01/25/2024 8:00 AM	0.91
01/25/2024 9:00 AM	54.13
01/25/2024 10:00 AM	178.06
01/25/2024 11:00 AM	356.99
01/25/2024 12:00 PM	381.98
01/25/2024 1:00 PM	140.48
01/25/2024 2:00 PM	57.45
01/25/2024 3:00 PM	145.49
01/25/2024 4:00 PM	367.27
01/25/2024 5:00 PM	378.38
01/25/2024 6:00 PM	132.87
01/25/2024 7:00 PM	84.78
01/25/2024 8:00 PM	117.94

## Substituted Flare Volumes

Data Entry - New Mexico Flaring - Flare

Report Run Date:

Date	EDDY, NM > Loco Hills CS > n. FL-1_Flare > Total Gas to Flare Substituted (mscf)
01/25/2024 9:00 PM	86.11
01/25/2024 10:00 PM	182.4
01/25/2024 11:00 PM	255.55

**District I**  
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**District II**  
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**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**

DEFINITIONS  
  
Action 310219

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310219
	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: <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 310219

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310219
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

<b>Prerequisites</b> 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.	

<b>Determination of Reporting Requirements</b> 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

<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> Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	3
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.





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QUESTIONS, Page 2

Action 310219

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310219
	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	01/26/2024
Time vent or flare was discovered or commenced	03:38 PM
Time vent or flare was terminated	11:59 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: 2,921 Mcf   Recovered: 0 Mcf   Lost: 2,921 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 310219

ACKNOWLEDGMENTS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310219
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<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  
  
Action 310219

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 310219
	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