

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. 20
TEST NUMBER.. 25524DATE SAMPLED..... 11-17-22
DATE RUN..... 11-18-22
EFFECT. DATE..... 12-01-22

STATION NO. ... 06112001

PRODUCER DURANGO MIDSTREAM

SAMPLE NAME.... LOCO HILLS INLET

TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE 38.0 PSIA

FLOWING TEMPERATURE 65 F

SAMPLED BY: DD

CYLINDER NO. ...

**FRACTIONAL ANALYSIS
CALCULATED @ 14.650 PSIA AND 60F**

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.300	
NITROGEN.....	3.039	
CARBON DIOXIDE.....	0.500	
METHANE.....	71.987	
ETHANE.....	12.933	3.453
PROPANE.....	6.643	1.827
ISO-BUTANE.....	0.835	0.273
NOR-BUTANE.....	1.985	0.625
ISO-PENTANE.....	0.487	0.178
NOR-PENTANE.....	0.460	0.167
HEXANES +.....	0.831	0.363
TOTALS	100.000	6.886

H2S PPMV = 3000

'Z' FACTOR (DRY) = 0.9959

'Z' FACTOR (WET) = 0.9955

CALC. MOL. WT. = 22.63

..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY 0.7845

REAL, WET 0.7820

..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY 1296

BTU/CF - REAL, WET 1274

DISTRIBUTION AND REMARKS:

N

ANALYZED BY: JT

** R **

~ HE ~

APPROVED: 

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

A SAMPLE OF 06112001/06511003 LOCO HILLS INLET & FLARE GAS

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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	0.501	0.406
2,3DMC4+CYC5	1.032	0.729
2MPENTANE	3.649	2.962
3MPENTANE	2.121	1.722
N-HEXANE	5.274	4.282
2,2 DMPENTANE	0.205	0.194
MCYCLOPENTANE	3.014	2.390
2,4 DMPENTANE	0.000	0.000
2,2,3 TMBUTANE	0.097	0.092
BENZENE	1.132	0.833
3,3 DMPENTANE	0.138	0.130
CYCLOHEXANE	5.248	4.161
2MHEXANE	2.134	2.014
2,3 DMPENTANE	0.896	0.845
3MHEXANE	2.307	2.177
DIMCYCPENTANES(GROUPED)	2.617	2.419
N-HEPTANE	5.343	5.043
MCYCLOHEXANE	11.504	10.639
2,2DMHEXANE	1.336	1.437
2,3,3TMPENTANE	0.000	0.000
TOLUENE	4.683	4.065
2,3DMHEXANE	0.642	0.690
2M3EPENTANE	0.000	0.000
2MHEPTANE	5.315	5.719
4MHEPTANE	0.000	0.000
3,4DMHEXANE	0.294	0.317
3MHEPTANE	3.490	3.755
TRIMCYCPENTANES(GROUPED)	0.293	0.310
DIMCYCHEXANES(GROUPED)	4.685	4.951
N-OCTANE	4.160	4.476
2,3,5TRIMHEXANE	0.082	0.099
2,2,4TRIMHEXANE	0.696	0.841
2,2DIMHEPTANE	0.060	0.072
2,2,3TRIMHEXANE	0.180	0.217
2,5DIMHEPTANE	0.000	0.000
I-NONANE	0.000	0.000
2,4DIMHEPTANE	0.000	0.000
E-CYCHEXANE	1.992	2.105
3,3DIMHEPTANE	0.697	0.842
2,6DIMHEPTANE	0.253	0.305
E-BENZENE	0.611	0.611
2,3DIMHEPTANE	0.000	0.000
M-XYLENE	2.880	2.880
P-XYLENE	1.362	1.362
3,4DIMHEPTANE	0.903	1.091
3EHEPTANE	0.174	0.210

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

A SAMPLE OF 06112001/06511003 LOCO HILLS INLET & FLARE GAS

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

PAGE NO. 2

COMPONENT	MOL%	WT%
4MOCTANE	0.539	0.651
3MOCTANE	0.182	0.220
O-XYLENE	1.161	1.161
IC4CYCPENTANE	0.000	0.000
N-NONANE	1.341	1.619
I-DECANE	0.146	0.196
1E1MCYC6	0.507	0.603
IC3BENZENE	0.757	0.857
2,3DMOCTANE	2.638	3.536
3EOCTANE	3.043	4.079
NC4CYCC6	0.000	0.000
NC3BENZENE	0.514	0.582
M+P E-TOLUENE	0.418	0.473
O-E-TOLUENE	0.726	0.822
2,2DMOCTANE	1.082	1.450
TERTBUTYLBENZENE	0.352	0.445
1,3,5TMBENZENE	0.440	0.498
3,6DMOCTANE	1.083	1.452
IC4BENZENE	1.251	1.581
N-DECANE	0.976	1.308
UNKNOWN C-6'S	0.000	0.000
UNKNOWN C-7'S	0.000	0.000
UNKNOWN C-8'S	0.067	0.072
UNKNOWN C-9'S	0.619	0.748
UNK C10'S THRU C14'S	0.158	0.254
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	21.971	17.485	MOL.WEIGHT = 106.169
TOTAL C-7'S	29.924	27.618	SP.GRAVITY = 3.6657
TOTAL C-8'S	28.288	29.846	BTU/FT3(DRY) = 5662.299
TOTAL C-9'S	9.088	10.750	BTU/FT3(WET) = 5564.652
TOTAL C-10'S	10.571	14.047	CU.FT./GAL = 22.261
TOTAL C-11 THRU C-14	0.158	0.254	GAL/CU.FT. = 0.044923
TOTAL C-15 THRU C-16	0.000	0.000	MOL% C6+ AROMATICS = 16.287
TOTAL C-17 THRU C-20	0.000	0.000	
TOTAL	100.000	100.000	

Flare Volumes, April 10, 2023

Date	Loco Hills Flare Volumes (mcf)
04/10/2023 12:00 AM	0.00
04/10/2023 1:00 AM	0.00
04/10/2023 2:00 AM	19.80
04/10/2023 3:00 AM	24.47
04/10/2023 4:00 AM	12.81
04/10/2023 5:00 AM	27.54
04/10/2023 6:00 AM	17.20
04/10/2023 7:00 AM	32.95
04/10/2023 8:00 AM	28.41
04/10/2023 9:00 AM	0.00
04/10/2023 10:00 AM	0.00
04/10/2023 11:00 AM	0.00
04/10/2023 12:00 PM	0.00
04/10/2023 1:00 PM	0.00
04/10/2023 2:00 PM	0.00
04/10/2023 3:00 PM	0.00
04/10/2023 4:00 PM	83.58
04/10/2023 5:00 PM	152.32
04/10/2023 6:00 PM	101.45
04/10/2023 7:00 PM	124.28
04/10/2023 8:00 PM	11.46
04/10/2023 9:00 PM	46.14
04/10/2023 10:00 PM	0.00
04/10/2023 11:00 PM	0.00

682.41

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District I
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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
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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 206299

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 206299
	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 206299

QUESTIONS

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	Action Number: 206299
	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	[fAPP2123032733] Loco Hills 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	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	Gas Compressor Station
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	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 206299

QUESTIONS (continued)

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	Action Number: 206299
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/10/2023
Time vent or flare was discovered or commenced	02:00 AM
Time vent or flare was terminated	10:00 PM
Cumulative hours during this event	13

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Power Failure Gas Compressor Station Natural Gas Flared Released: 682 Mcf Recovered: 0 Mcf Lost: 682 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	Storms caused power to go out at gas plant. When the gas plant went down on power loss, pressures rose across the field. At compressor stations, pressure was lowered through flaring to prevent overpressurization of pipe which can lead to pipeline ruptures.
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 due to high suction pressure occur to prevent damage to equipment. Reoccurrence is likely when inlet is pressured up beyond equipment tolerance level.

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ACKNOWLEDGMENTS

Action 206299

ACKNOWLEDGMENTS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 206299
	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 206299

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 206299
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
remoore	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.	4/11/2023