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575.397.3713 2609 W MARLAND HOBBS, NEW MEXICO 88240

EXTENDED GAS REPORT SUMMARY OF CHROMATOGRAPHIC ANALYSIS

Sample Name:	Bell Lake South Inlet	For:	12281G
Sample Date:	08/05/2021	Cyl. Ident.:	2021044517
Sampled By:	DJ	Company:	Mark West
Time Sampled:	12:40	Analysis Date:	08/10/2021
Sample Temp:	0.0 F	Analysis By:	BH
Sample Press:	45.0	Data File:	LS_6231.D

H2S (PPM) = 0.2

Component	Mole%	GPM REAL	GPM IDEAL
H2S	0.000		
Nitrogen	1.571		
Methane	72.179		
CO2	0.552		
Ethane	12.775	3.416	3.408
Propane	7.090	1.953	1.948
Isobutane	0.985	0.322	0.322
N-Butane	2.449	0.772	0.770
Isopentane	0.593	0.217	0.216
N-Pentane	0.650	0.236	0.235
Hexanes+	1.156	0.469	0.469
Total	100.000	7.385	7.368

CALCULATED PARAMETERS

TOTAL ANALYSIS SUMMARY

MOLE WT: 23.189
VAPOR PRESS PSIA: 3726.8
SPECIFIC GRAVITY
AIR = 1 (REAL): 0.8036
AIR = 1 (IDEAL): 0.8005
H2O = 1 (IDEAL): 0.370

REPORTED BASIS: 14.73
Unnormalized Total: 99.455

HEATING VALUE

BTU/CUFT (DRY) 1361.8
BTU/CUFT (WET) 1338.7

BTEX SUMMARY

WT% BENZENE 6.557
WT% TOLUENE 4.868
WT% E BENZENE 0.498
WT% XYLENES 1.593

LAB MANAGER

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Sample Name: Bell Lake South Inlet
Company: Mark West

Data File: LS_6231.D***ANALYSIS OF HEXANES PLUS**

Component	MOLE%	WT%
2,2 DIMETHYL BUTANE	0.008	0.028
CYCLOPENTANE	0.055	0.187
2-METHYLPENTANE	0.133	0.496
3-METHYLPENTANE	0.074	0.277
HEXANE (C6)	0.168	0.622
DIMETHYLPENTANES	0.013	0.055
METHYLCYCLOPENTANE	0.087	0.316
2,2,3 TRIMETHYLBUTANE	0.001	0.005
BENZENE	0.073	0.246
CYCLOHEXANE	0.119	0.431
2-METHYLHEXANE	0.021	0.090
3-METHYLHEXANE	0.032	0.139
DIMETHYLCYCLOPENTANES	0.012	0.050
HEPTANE (C7)	0.048	0.207
METHYLCYCLOHEXANE	0.086	0.367
2,5 DIMETHYLHEXANE	0.001	0.007
TOLUENE	0.055	0.217
2-METHYLHEPTANE	0.014	0.068
OTHER OCTANES	0.037	0.183
OCTANE (C8)	0.013	0.065
ETHYLCYCLOHEXANE	0.006	0.029
ETHYL BENZENE	0.005	0.022
M,P-XYLENE	0.012	0.055
O-XYLENE	0.004	0.018
OTHER NONANES	0.018	0.090
NONANE (C-9)	0.007	0.036
IC3 BENZENE	0.002	0.009
CYCLOOCTANE	0.001	0.006
NC3 BENZENE	0.001	0.003
TM BENZENE(S)	0.002	0.012
IC4 BENZENE	0.001	0.005
NC4 BENZENE	0.001	0.006
DECANES + (C10+)	0.017	0.118

***HEXANES PLUS SUMMARY**

AVG MOLE WT	92.249
VAPOR PRESS PSIA	9.860
API GRAVITY @ 60F	63.4
SPECIFIC GRAVITY	
AIR = 1 (IDEAL):	2.975
H2O = 1 (IDEAL):	0.726

COMPONENT RATIOS

HEXANES (C6) MOLE%	37.918
HEPTANES (C7) MOLE%	37.541
OCTANES (C8) MOLE%	17.882
NONANES (C9) MOLE%	4.312
DECANES+ (C10+) MOLE%	2.347
HEXANES (C6) WT%	35.000
HEPTANES (C7) WT%	36.349
OCTANES (C8) WT%	19.701
NONANES (C9) WT%	5.453
DECANES+ (C10+) WT%	3.497

Remarks: spot

* Hexane+ portion calculated by Allocation Process

Summary of Excess Emission at South Bell Lake Flare

Month	Total Excess		Total Excess		Total Excess	
	Total Excess Emissions (lbs)	VOC Emissions (lbs)	Total Excess Emissions (tons)	VOC Emissions (tons)	Total Excess Emissions (scf)	
May	5503.42	3296.70	2.75	1.65	60555	
Jun	10822.52	6387.59	5.41	3.19	121000	
Jul	15966.52	9712.63	7.98	4.86	174319	
Aug	2419.53	1490.40	1.21	0.75	23231.25	
Totals	34711.99	20887.32	17.36	10.44	379105.25	379.11 Mscf

Constituent	Wt % of Total Emissions
Methane	18.59%
N2	0.60%
H2S	0.00%
CO2	2.30%
O2	0.00%
VOC	59.29%

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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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

QUESTIONS

Action 59493

QUESTIONS

Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 59493
	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	Not answered.
Incident Facility	[fAPP2125136221] Permian Natural Gas 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 or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring event	Yes, minor 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring 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	Tank (Any)
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	19
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	10/29/2021
Time venting and/or flaring was discovered or commenced	02:00 PM
Time venting and/or flaring was terminated	05:00 PM
Cumulative hours during this event	1,560

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Cause: Normal Operations Tank (Any) Natural Gas Vented Released: 379 Mcf Recovered: 0 Mcf Lost: 379 Mcf
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Natural Gas Flared (Mcf) Details	Not answered.
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 or is this venting and/or flaring a result of downstream activity	Not answered.
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Assumptions used as a basis for design were not observed in the actual operating conditions of the site. Tank exceeded control set point of the thief hatch.
Steps taken to limit the duration and magnitude of venting and/or flaring	Troubleshooting, flow reduced, curtailed production and installed vapor recovery unit.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Installation of VRU (9/8/21); plan to install increased capacity flare as a back-up upon NMED air permit authorization.

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CONDITIONS

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Operator: MarkWest Energy West Texas Gas Company, L.L.C 1515 Arapahoe Street Denver, CO 80202	OGRID: 329252
	Action Number: 59493
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jobrien	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.	11/2/2021