HOWARD

Athens, TX (903) 677-0700 . Beeville, TX (361) 354-5200 . Midland, TX (432) 704-5351

GAS EXTENDED ANALYSIS REPORT

LAB REPORT NUMBER: 200224-9999-02-022420-01

PHYSICAL CONSTANTS PER GPA 2145-09 & TP-17 (1998)

CUSTOMER :	MAVERICK	DATE ON:	02/24/2020
STATION:	CENTRAL TANK BATTERY	DATE ANALYZED:	02/24/2020
PRODUCER:	MAVERICK	EFFECTIVE DATE:	02/01/2020
LEASE:	CENTRAL TANK BATTERY	DATE OFF:	

COMPONENT	MOLE %	GPM	WT. %
H2S	1.000		1.447
OXYGEN	0.005		0.007
NITROGEN	1.808		2.151
CARBON DIOXIDE	0.983		1.837
METHANE	73.987		50.411
ETHANE	10.869	2.919	13.880
PROPANE	5.294	1.465	9.915
I-BUTANE	0.663	0.218	1.637
N-BUTANE	1.878	0.595	4.636
I-PENTANE	0.439	0.161	1.345
N-PENTANE	0.526	0.191	1.612
HEXANES (C6's)	0.655	0.263	2.386
HEPTANES (C7+)	0.611	0.264	2.554
OCTANES (C8+)	1.255	0.620	6.041
NONANES (C9+)	0.024	0.011	0.123
DECANES (C10+)	0.003	0.001	0.018
TOTAL	100.000	6.708	100.000

REAL SP. GRAVITY	0.8163	REAL BTU DRY	1348.606
MOL. WT.	23.545	REAL BTU SAT	1325.127
Z FACTOR	0.9956	PRESS BASE	14.730
C2+ GPM	6.708	C4+ GPM	2.324
C3+ GPM	3.789	C5+ GPM	1.511
C6-C10+ MOL WT	113.355	C6-C10+ GRAVITY	3.903

SAMPLED BY	MH	SAMPLE PRESS:	34
SAMPLE TYPE:	SPOT	SAMPLE TEMP:	70
CYLINDER NO.:	5220	COUNTY / STATE:	14.73
COMMENT:	SPOT	ANALYST	MIKE HOBGOOD

* SEE NEXT PAGE FOR C6+ COMPOSITIONAL BREAKDOWN

02-24-2020

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STATION: CENTRAL TANK BATTER LEASE: CENTRAL TANK BATTERY

C6+ FRACTION COMPOSITION

HEXANE ISOMERS (C6'S)		MOLE %	GPM	WT. %
2,2-Dimethylbutane	P	0.009	0.004	0.031
2,3-Dimethylbutane	PN	0.000	0.000	0.000
2-Methylpentane	P	0.173	0.072	0.632
3-Methylpentane	P	0.103	0.042	0.376
Methylcyclopentane	N	0.000	0.000	0.000
Benzene	A	0.000	0.000	0.000
Cyclohexane	N	0.116	0.040	0.414
n-Hexane	P	0.255	0.105	0.933
HEPTANE ISOMERS (C7'S)				
3,3-Dimethylpentane	P	0.001	0.000	0.002
2,2-Dimethylpentane	P	0.003	0.001	0.013
2,4-Dimethylpentane	P	0.019	0.009	0.083
2 & 3-Methylhexane	P	0.081	0.038	0.345
2,3-Dimethylpentane	P	0.057	0.026	0.241
1,t-3-Dimethylcyclopentane	N	0.000	0.000	0.000
1,c-3-Dimethylcyclopentane	N	0.000	0.000	0.000
3-Ethlypentane	N	0.000	0.000	0.000
1,t-2-Dimethylcyclopentane	N	0.000	0.000	0.000
Toluene	A	0.143	0.048	0.558
Methylcyclohexane	N	0.001	0.000	0.004
Ethylcyclopentane	N	0.000	0.000	0.000
n-Heptane	P	0.307	0.142	1.308
OCTANE ISOMERS (C8'S)				
2,4 & 2,5-Dimethylhexane	P	0.044	0.023	0.215
2,2,4-Trimethylpentane	N	0.000	0.000	0.000
1,t-2,c-4-Trimethylcyclopentane	N	0.000	0.000	0.000
1,t-2,c-3-Trimethylcyclopentane	N	0.000	0.000	0.000
2-Methylheptane	P	0.267	0.138	1.295
1,c-2,t-4-Trimethylcyclopentane	N	0.000	0.000	0.000
3-Methylheptane	P	0.148	0.076	0.719
1,c-3-Dimethylcyclohexane	N	0.040	0.018	0.190
1,t-4-Dimethylcyclohexane	N	0.000	0.000	0.000
methyl-ethylcyclopentanes	N	0.000	0.000	0.000
1,t-3 & 1,c-4 Dimethylcyclohexane	N	0.083	0.038	0.396
1,c-2-Dimethylcyclohexane	N	0.027	0.012	0.000
Ethylcyclohexane	N	0.138	0.062	0.658
Ethylbenzene	A	0.019	0.008	0.088
m & p-Xylene	A	0.017	0.006	0.075
o-Xylene	A	0.028	0.011	0.126
Cyclooctane	P	0.002	0.001	0.009
n-Octane	P	0.441	0.227	2.140

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STATION: CENTRAL TANK BATTER\ **LEASE:** CENTRAL TANK BATTERY

C6+ FRACTION COMPOSITION

NONANE ISOMERS (C9'S)		MOLE %	GPM	WT. %
Trimethylhexanes	P	0.000	0.000	0.000
Dimethylpentanes	P	0.000	0.000	0.000
Isopropylcyclopentane	N	0.000	0.000	0.000
n-Propylcyclopentane	N	0.000	0.000	0.000
3-Methyloctane	P	0.000	0.000	0.000
Trimethylcyclohexanes	N	0.000	0.000	0.000
Isopropylbenzene	A	0.007	0.003	0.034
Isopropylcyclohexane	N	0.000	0.000	0.000
n-Propylcyclohexane	N	0.002	0.001	0.009
n-Propyllbenzene	A	0.003	0.001	0.013
m-Ethyltoluene	A	0.000	0.000	0.000
p-Ethyltoluene	A	0.000	0.000	0.000
1,3,5-Trimethylbenzene	A	0.001	0.000	0.004
4 & 5-Methylnonane	P	0.000	0.000	0.000
o-Ethyltoluene & 3-Methylnonane	AP	0.000	0.000	0.000
1,2,3-Trimethylbenzene	A	0.000	0.000	0.000
1,2,4-Trimethylbenzene	A	0.007	0.003	0.034
n-Nonane	P	0.005	0.003	0.029
DECANE ISOMERS (C10'S)				
2-Methylnonane	P	0.000	0.000	0.000
tert-Butylbenzene	A	0.002	0.001	0.014
Isobutylcyclohexane & tert-Butylcyclohexane		0.000	0.000	0.000
Isobutylbenzene	A	0.000	0.000	0.000
sec-Butylbenzene	A	0.000	0.000	0.000
n-Butylcyclohexane	N	0.001	0.000	0.004
1,3-Diethylbenzene	A	0.000	0.000	0.000
1,2-Diethylbenzene & n-Butylbenzene	A	0.000	0.000	0.000
1,4-Diethylbenzene	A	0.000	0.000	0.000
n-Decane	P	0.000	0.000	0.000
UNDECANE ISOMERS (C11'S)				
n-Undecane	P	0.000	0.000	0.000
DODECANE ISOMERS (C12'S)				
n-Dodecane +	P	0.000	0.000	0.000

X Michael Holsomb

ANALYST

- **Operators:** Breitburn Operating L.P.
- **Name and Type of Facility:** Encore M State Satellite Production Facility, NOI 9375, Agency Interest No. 40161 – PRN20210001
- **Equipment Involved:** Upset flare, EPNFlare
- **Compositional analysis:** See below

Analysis

	GPM	Mol
c1	0.000	75.7134
co2	0.000	0.7715
h2s	0.000	0.2815
c2	2.845	10.6569
c3	1.862	6.7704
ic4	0.196	0.6004
nc4	0.511	1.6235
ic5	0.219	0.6004
nc5	0.177	0.4899
c6	0.317	0.7107
nit	0.000	1.7814
Total	**6.127**	**100.00**

- **Date and time that flaring occurs:** 1/6/2022
- **Estimated Volume of flaring:** 700mcf, 8 hours estimated
- **Cause and Nature of flaring:** Kinder Morgan was preforming maintenance on their El Paso residue pipeline that prevented Targa from delivering them gas. Targa only has one residue pipeline connected to their plant tailgate so if Kinder Morgan has maintenance Maverick will see high pressures and potentially flare or shut-in as Targa is the only gas outlet at our M State Satellite facility. Targa could not reroute the gas on their system upstream of their processing plant to another plant which forced us to flare for ~8 hours.
- **Steps taken to limit duration and magnitude of venting: EPN Flare is only used during upsets and emergencies. The flare is operated with best management practices during flaring events.**
- **Corrective actions taken to eliminate the cause and recurrence of: Maverick is currently looking into potential future solutions to reroute gas to avoid flaring.**

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District III
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District IV
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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

Operator: BREITBURN OPERATING LP 1111 Bagby St. Suite 1600 Houston, TX 77002	OGRID: 370080
	Action Number: 70940
	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 70940

QUESTIONS

Operator: BREITBURN OPERATING LP 1111 Bagby St. Suite 1600 Houston, TX 77002	OGRID: 370080
	Action Number: 70940
	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	**[30-025-38961] ENCORE M STATE #001**
Incident Facility	*Not answered.*

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Upset Flare

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	10,000
Carbon Dioxide (C02) percentage, if greater than one percent	1
Oxygen (02) 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 (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: BREITBURN OPERATING LP 1111 Bagby St. Suite 1600 Houston, TX 77002	OGRID: 370080
	Action Number: 70940
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/06/2022
Time vent or flare was discovered or commenced	06:30 AM
Time vent or flare was terminated	05:42 PM
Cumulative hours during this event	11

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance | Other (Specify) | Natural Gas Flared | Released: 1,000 Mcf | Recovered: 0 Mcf | Lost: 1,000 Mcf]
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	1000mcf was flared.
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	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this vent or flare	12/29/2021
Time notified of downstream activity requiring this vent or flare	05:14 PM

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	The reason for the flaring is Kinder Morgan was preforming maintenance on their El Paso residue pipeline that prevented Targa from delivering them gas. Targa only has one residue pipeline connected to their plant tailgate so if Kinder Morgan has maintenance Maverick will see high pressures and potentially flare or shut-in as Targa is the only gas outlet at our M State facility. Targa could not reroute the gas on their system upstream of their processing plant to another plant which forced us to flare for ~8 hours.
Steps taken to limit the duration and magnitude of vent or flare	Operator was onsite to manage flaring occurred with best management practices. We were forced to flare as Targa could not reroute gas on the system due to Kinder Morgan maintenance.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Maverick is currently looking into ways to establish another connection to prevent these flaring events.

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ACKNOWLEDGMENTS

Operator: BREITBURN OPERATING LP 1111 Bagby St. Suite 1600 Houston, TX 77002	OGRID: 370080
	Action Number: 70940
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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 70940

CONDITIONS

Operator: BREITBURN OPERATING LP 1111 Bagby St. Suite 1600 Houston, TX 77002	OGRID: 370080
	Action Number: 70940
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
rdonina	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.	1/20/2022