August 08, 2024

FESCO, Ltd. 1100 Fesco Ave. - Alice, Texas 78332

For: Marathon Oil Permian, LLC 990 Town and Country Blvd. Houston, Texas 77024-2217

Sample: Honey Mustard 22 WXY Federal Com 8H

First Stage Separator

Spot Gas Sample @ 110 psig & 98 °F

Date Sampled: 07/26/2024 Job Number: 242873.011

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	1.123	
Carbon Dioxide	0.079	
Methane	76.250	
Ethane	11.990	3.283
Propane	5.945	1.677
Isobutane	0.778	0.261
n-Butane	1.925	0.621
2-2 Dimethylpropane	0.018	0.007
Isopentane	0.450	0.169
n-Pentane	0.524	0.194
Hexanes	0.364	0.154
Heptanes Plus	<u>0.554</u>	0.240
Totals	100.000	6.606

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity	3.466	(Air=1)
Molecular Weight	99.97	
Gross Heating Value	5406	BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity	0.761	(Air=1)
Compressibility (Z)	0.9959	
Molecular Weight	21.96	
Gross Heating Value		
Dry Basis	1341	BTU/CF
Saturated Basis	1318	BTU/CF

^{*}Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)

Results: <0.013 Gr/100 CF, <0.2 PPMV or <0.001 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) Elizondo
Analyst: LG
Processor: BC
Cylinder ID: T-4181

Certified: FESCO, Ltd. - Alice, Texas

Alice, Texas

Conan Pierce 361-661-7015

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FESCO, Ltd. Job Number: 242873.011

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286 TOTAL REPORT

COMPONENT	MOL %	GPM		WT %
Hydrogen Sulfide*	< 0.001			< 0.001
Nitrogen	1.123			1.432
Carbon Dioxide	0.079			0.158
Methane	76.250			55.698
Ethane	11.990	3.283		16.415
Propane	5.945	1.677		11.936
Isobutane	0.778	0.261		2.059
n-Butane	1.925	0.621		5.094
2,2 Dimethylpropane	0.018	0.007		0.059
Isopentane	0.450	0.169		1.478
n-Pentane	0.524	0.194		1.721
2,2 Dimethylbutane	0.005	0.002		0.020
Cyclopentane	0.000	0.000		0.000
2,3 Dimethylbutane	0.036	0.015		0.141
2 Methylpentane	0.110	0.047		0.432
3 Methylpentane	0.059	0.025		0.231
n-Hexane	0.154	0.065		0.604
Methylcyclopentane	0.070	0.025		0.268
Benzene	0.010	0.003		0.036
Cyclohexane	0.080	0.028		0.307
2-Methylhexane	0.020	0.010		0.091
3-Methylhexane	0.023	0.011		0.105
2,2,4 Trimethylpentane	0.015	0.008		0.078
Other C7's	0.046	0.020		0.208
n-Heptane	0.052	0.025		0.237
Methylcyclohexane	0.075	0.031		0.335
Toluene	0.015	0.005		0.063
Other C8's	0.072	0.034		0.361
n-Octane	0.016	0.008		0.083
Ethylbenzene	0.002	0.001		0.010
M & P Xylenes	0.008	0.003		0.039
O-Xylene	0.002	0.001		0.010
Other C9's	0.029	0.015		0.167
n-Nonane	0.006	0.003		0.035
Other C10's	0.007	0.004		0.045
n-Decane	0.002	0.001		0.013
Undecanes (11)	0.004	0.003		<u>0.031</u>
Totals	100.000	6.606		100.000
Computed Real Charact	eristics of Total Sample			
	'	0.761	(Air=1)	
Compressibility (Z)		0.9959		
Molecular Weight		21.96		
Gross Heating Value				
Dry Basis		1341	BTU/CF	
Saturated Basis		1318	BTU/CF	

Page 2 of 3

August 08, 2024

FESCO, Ltd. 1100 Fesco Ave. - Alice, Texas 78332

Sample: Honey Mustard 22 WXY Federal Com 8H

First Stage Separator

Spot Gas Sample @ 110 psig & 98 °F

Date Sampled: 07/26/2024 Job Number: 242873.011

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	0.079		0.158
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	1.123		1.432
Methane	76.250		55.698
Ethane	11.990	3.283	16.415
Propane	5.945	1.677	11.936
Isobutane	0.778	0.261	2.059
n-Butane	1.943	0.628	5.153
Isopentane	0.450	0.169	1.478
n-Pentane	0.524	0.194	1.721
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.154	0.065	0.604
Cyclohexane	0.080	0.028	0.307
Other C6's	0.210	0.089	0.824
Heptanes	0.211	0.091	0.909
Methylcyclohexane	0.075	0.031	0.335
2,2,4 Trimethylpentane	0.015	0.008	0.078
Benzene	0.010	0.003	0.036
Toluene	0.015	0.005	0.063
Ethylbenzene	0.002	0.001	0.010
Xylenes	0.010	0.004	0.049
Octanes Plus	<u>0.136</u>	<u>0.070</u>	<u>0.735</u>
Totals	100.000	6.606	100.000

Specific Gravity	4.120	(Air=1)
Molecular Weight	118.84	
Gross Heating Value	6255	BTU/CF

Real Characteristics Of Total Sample:

real Characteristics Of Total Sample.		
Specific Gravity	0.761	(Air=1)
Compressibility (Z)	0.9959	
Molecular Weight	21.96	
Gross Heating Value		
Dry Basis	1341	BTU/CF
Saturated Basis	1318	BTU/CF

Page 3 of 3

Flaring/Venting Event Volume (MCF):	50
Flare or vent:	Vent
Date discovered:	4/7/2025
Date of event:	3/29/2025
Time event commenced:	7:46:00 AM
Time event terminated:	10:35:00 AM
Total Duration (hrs):	2.80

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DEFINITIONS

Action 450910

DEFINITIONS

ı	Operator:	OGRID:
ı	MARATHON OIL PERMIAN LLC	372098
ı	990 Town & Country Blvd.	Action Number:
ı	Houston, TX 77024	450910
ı		Action Type:
ı		[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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 450910

Ο	JESTIONS
Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd. Houston, TX 77024	Action Number: 450910
	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 t	hese issues before continuing with the rest of the questions.
Incident Well	Unavailable.
Incident Facility	[fAPP2233335049] HONEY MUSTARD 22 FED COM TB
Determination of Department Department	
Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at Was this vent or flare caused by an emergency or malfunction	
Did this vent or flare last eight hours or more cumulatively within any 24-hour	Yes No
period from a single event	
Is this considered a submission for a vent or flare 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 v	enting 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	Dump Valve
Additional details for Equipment Involved. Please specify	A hung dump valve resulted in excess gas being sent to the storage tanks and venting through the thief hatches.
Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	ifications 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.

Not answered.

Oxygen (02) percentage quality requirement

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 450910

QUESTI	ONS (continued)
Operator:	OGRID:
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd.	372098 Action Number:
Houston, TX 77024	450910
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/29/2025
Time vent or flare was discovered or commenced	07:46 AM
Time vent or flare was terminated	10:35 AM
Cumulative hours during this event	3
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Dump Valve Natural Gas Vented Released: 50 Mcf Recovered: 0 Mcf Lost: 50 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	A hung dump valve resulted in excess gas being sent to the storage vessels and venting through the thief hatch.
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	No
Downstream OGRID that should have notified this operator	Not answered. 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	The dump valve malfunctioned during normal operations.
Steps taken to limit the duration and magnitude of vent or flare	Once identified, the dump was repaired and returned to normal operations.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The dump valve was repaired and returned to normal operations.

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ACKNOWLEDGMENTS

Action 450910

ACKNOWLEDGMENTS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	450910
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
V	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.
V	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 450910

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	450910
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cswansonsteege	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.	4/10/2025