September 3, 2024

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

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

Sample: Urraca Federal 4H

First Stage Separator

Spot Gas Sample @ 84 psig & 102 °F

Date Sampled: 08/22/2024 Job Number: 243085.001

### **CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	1.766	
Carbon Dioxide	3.166	
Methane	68.665	
Ethane	13.270	3.636
Propane	7.993	2.256
Isobutane	1.008	0.338
n-Butane	2.294	0.741
2-2 Dimethylpropane	0.010	0.004
Isopentane	0.479	0.179
n-Pentane	0.474	0.176
Hexanes	0.330	0.139
Heptanes Plus	<u>0.545</u>	<u>0.211</u>
Totals	100.000	7.679

## **Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity	3.199	(Air=1)
Molecular Weight	92.25	
Gross Heating Value	4913	BTU/CF

## **Computed Real Characteristics Of Total Sample:**

Specific Gravity	0.826	(Air=1)
Compressibility (Z)	0.9955	
Molecular Weight	23.82	
Gross Heating Value		
Dry Basis	1353	BTU/CF
Saturated Basis	1330	BTU/CF

<sup>\*</sup>Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)

Results: 0.063 Gr/100 CF, 1.0 PPMV or 0.0001 Mol%

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) Robert E.
Analyst: RG

Processor: HH Cylinder ID: T-4636 Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

Page 1 of 3

FESCO, Ltd. Job Number: 243085.001

## CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286 TOTAL REPORT

COMPONENT	MOL %	GPM		WT %
Hydrogen Sulfide*	< 0.001			< 0.001
Nitrogen	1.766			2.077
Carbon Dioxide	3.166			5.850
Methane	68.665			46.246
Ethane	13.270	3.636		16.752
Propane	7.993	2.256		14.797
Isobutane	1.008	0.338		2.460
n-Butane	2.294	0.741		5.598
2,2 Dimethylpropane	0.010	0.004		0.030
Isopentane	0.479	0.179		1.451
n-Pentane	0.474	0.176		1.436
2,2 Dimethylbutane	0.004	0.002		0.014
Cyclopentane	0.000	0.000		0.000
2,3 Dimethylbutane	0.044	0.018		0.159
2 Methylpentane	0.107	0.045		0.387
3 Methylpentane	0.057	0.024		0.206
n-Hexane	0.118	0.050		0.427
Methylcyclopentane	0.065	0.024		0.230
Benzene	0.084	0.024		0.275
Cyclohexane	0.110	0.038		0.389
2-Methylhexane	0.015	0.007		0.063
3-Methylhexane	0.016	0.008		0.067
2,2,4 Trimethylpentane Other C7's	0.000 0.044	0.000 0.020		0.000 0.183
n-Heptane	0.029	0.020		0.103
Methylcyclohexane	0.029	0.014		0.122
Toluene	0.046	0.026		0.270
Other C8's	0.040	0.010		0.176
n-Octane	0.007	0.020		0.034
Ethylbenzene	0.002	0.001		0.009
M & P Xylenes	0.005	0.002		0.022
O-Xylene	0.002	0.001		0.009
Other C9's	0.008	0.004		0.042
n-Nonane	0.002	0.001		0.011
Other C10's	0.001	0.001		0.006
n-Decane	0.000	0.000		0.000
Undecanes (11)	0.000	0.000		0.000
Totals	100.000	7.679		100.000
Computed Real Charact				
		0.826	(Air=1)	
Compressibility (Z)		0.9955		
		23.82		
Gross Heating Value				
		1353	BTU/CF	
Saturated Basis		1330	BTU/CF	

Page 2 of 3

September 3, 2024

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

Sample: Urraca Federal 4H First Stage Separator

Spot Gas Sample @ 84 psig & 102 °F

Date Sampled: 08/22/2024 Job Number: 243085.001

### **GLYCALC FORMAT**

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	3.166		5.850
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	1.766		2.077
Methane	68.665		46.246
Ethane	13.270	3.636	16.752
Propane	7.993	2.256	14.797
Isobutane	1.008	0.338	2.460
n-Butane	2.304	0.745	5.628
Isopentane	0.479	0.179	1.451
n-Pentane	0.474	0.176	1.436
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.118	0.050	0.427
Cyclohexane	0.110	0.038	0.389
Other C6's	0.212	0.090	0.766
Heptanes	0.169	0.072	0.665
Methylcyclohexane	0.067	0.028	0.276
2,2,4 Trimethylpentane	0.000	0.000	0.000
Benzene	0.084	0.024	0.275
Toluene	0.046	0.016	0.178
Ethylbenzene	0.002	0.001	0.009
Xylenes	0.007	0.003	0.031
Octanes Plus	0.060	0.030	0.287
Totals	100.000	7.679	100.000

Specific Gravity	3.952	(Air=1)
Molecular Weight	113.94	
Gross Heating Value	5915	BTU/CF

## Real Characteristics Of Total Sample:

Real Characteristics Of Total Sample:		
Specific Gravity	0.826	(Air=1)
Compressibility (Z)	0.9955	
Molecular Weight	23.82	
Gross Heating Value		
Dry Basis	1353	BTU/CF
Saturated Basis	1330	BTU/CF

Page 3 of 3

Flaring/Venting Event Volume (MCF):	67
Flare or vent:	Vent
Date discovered:	4/7/2025
Date of event:	3/7/2025
Time event commenced:	7:47:00 AM
Time event terminated:	10:15:00 AM
Total Duration (hrs):	2.47

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

DEFINITIONS

Action 450873

#### **DEFINITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	450873
	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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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 450873

Q	UESTIONS	
Operator:		OGRID: 272000
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd.		372098 Action Number:
Houston, TX 77024		450873
		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	these issues before continuing with	h the rest of the questions.
Incident Well	[30-025-41968] URRACA 11 SB FEDERAL #004H	
Incident Facility	Unavailable.	
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers are 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	No	
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 <b>ANY</b> 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		l in venting from tank 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	69	
Nitrogen (N2) percentage, if greater than one percent	2	
Hydrogen Sulfide (H2S) PPM, rounded up	1	
Carbon Dioxide (C02) percentage, if greater than one percent	3	
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 Methane (CH4) percentage quality requirement	ifications for each gas.  Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.  Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement  Carbon Dioxide (C02) percentage quality requirement	Not answered.	
Oxygen (02) percentage quality requirement	Not answered.  Not answered.	
Oxygon (02) percentage quality requirement	ivot allowered.	

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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, Page 2

Action 450873

OUESTI	ONS (continued)
Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd. Houston, TX 77024	Action Number: 450873
	Action Type:  [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/07/2025
Time vent or flare was discovered or commenced	07:47 AM
Time vent or flare was terminated	10:15 AM
Cumulative hours during this event	2
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other   Dump Valve   Natural Gas Vented   Released: 67 Mcf   Recovered: 0 Mcf   Lost: 67 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 venting from tank thief hatches.
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.
Time housed of downstream activity requiring this vent of hare	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 under normal operations resulting in excess gas being sent to storage vessels.
Steps taken to limit the duration and magnitude of vent or flare	The dump vavle 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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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 450873

### **ACKNOWLEDGMENTS**

	Operator:	OGRID:
ı	MARATHON OIL PERMIAN LLC	372098
ı	990 Town & Country Blvd.	Action Number:
ı	Houston, TX 77024	450873
ı		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 <b>a complete</b> 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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 450873

#### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	450873
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### CONDITIONS

Created By	Condition	Condition Date
cswansonste	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