

November 28, 2022

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

**For:** Marathon Oil Permian, LLC  
5555 San Felipe Street  
Houston, Texas 77056

**Sample:** Thunderbird 1 TB Federal Com No. 014H  
Sales Gas  
Spot Gas Sample @ 120 psig & 115 °F

Date Sampled: 11/02/2022

Job Number: 223372.011

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	0.002	
Nitrogen	1.470	
Carbon Dioxide	0.232	
Methane	67.078	
Ethane	14.813	4.061
Propane	9.231	2.607
Isobutane	1.072	0.360
n-Butane	3.144	1.016
2-2 Dimethylpropane	0.005	0.002
Isopentane	0.669	0.251
n-Pentane	0.759	0.282
Hexanes	0.580	0.245
Heptanes Plus	<u>0.945</u>	<u>0.399</u>
Totals	100.000	9.223

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity -----	3.406	(Air=1)
Molecular Weight -----	98.13	
Gross Heating Value -----	5299	BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity -----	0.858	(Air=1)
Compressibility (Z) -----	0.9947	
Molecular Weight -----	24.71	
Gross Heating Value		
Dry Basis -----	1483	BTU/CF
Saturated Basis -----	1458	BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)  
Results: 1.509 Gr/100 CF, 24.0 PPMV or 0.002 Mol %

Base Conditions: 15.025 PSI &amp; 60 Deg F

Sampled By: (24) D. Field  
Analyst: KV  
Processor: KV  
Cylinder ID: T-3442

Certified: FESCO, Ltd. - Alice, Texas

---

Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 223372.011

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**  
**TOTAL REPORT**

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.002		0.003
Nitrogen	1.470		1.666
Carbon Dioxide	0.232		0.413
Methane	67.078		43.546
Ethane	14.813	4.061	18.024
Propane	9.231	2.607	16.472
Isobutane	1.072	0.360	2.521
n-Butane	3.144	1.016	7.395
2,2 Dimethylpropane	0.005	0.002	0.015
Isopentane	0.669	0.251	1.953
n-Pentane	0.759	0.282	2.216
2,2 Dimethylbutane	0.005	0.002	0.017
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.070	0.029	0.244
2 Methylpentane	0.173	0.074	0.603
3 Methylpentane	0.100	0.042	0.349
n-Hexane	0.232	0.098	0.809
Methylcyclopentane	0.130	0.047	0.443
Benzene	0.043	0.012	0.136
Cyclohexane	0.161	0.056	0.548
2-Methylhexane	0.028	0.013	0.114
3-Methylhexane	0.035	0.016	0.142
2,2,4 Trimethylpentane	0.028	0.015	0.129
Other C7's	0.076	0.034	0.305
n-Heptane	0.072	0.034	0.292
Methylcyclohexane	0.122	0.050	0.485
Toluene	0.036	0.012	0.134
Other C8's	0.095	0.045	0.424
n-Octane	0.027	0.014	0.125
Ethylbenzene	0.004	0.002	0.017
M & P Xylenes	0.010	0.004	0.043
O-Xylene	0.003	0.001	0.013
Other C9's	0.042	0.022	0.215
n-Nonane	0.008	0.005	0.042
Other C10's	0.016	0.010	0.091
n-Decane	0.003	0.002	0.017
Undecanes (11)	<u>0.006</u>	<u>0.004</u>	<u>0.039</u>
Totals	100.000	9.223	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.858	(Air=1)
Compressibility (Z) -----	0.9947	
Molecular Weight -----	24.71	
Gross Heating Value		
Dry Basis -----	1483	BTU/CF
Saturated Basis -----	1458	BTU/CF

November 28, 2022

**FESCO, Ltd.****1100 Fesco Ave. - Alice, Texas 78332****Sample:** Thunderbird 1 TB Federal Com No. 014H

Sales Gas

Spot Gas Sample @ 120 psig &amp; 115 °F

Date Sampled: 11/02/2022

Job Number: 223372.011

**GLYCALC FORMAT**

<b>COMPONENT</b>	<b>MOL%</b>	<b>GPM</b>	<b>Wt %</b>
Carbon Dioxide	0.232		0.413
Hydrogen Sulfide	0.002		0.003
Nitrogen	1.470		1.666
Methane	67.078		43.546
Ethane	14.813	4.061	18.024
Propane	9.231	2.607	16.472
Isobutane	1.072	0.360	2.521
n-Butane	3.149	1.018	7.410
Isopentane	0.669	0.251	1.953
n-Pentane	0.759	0.282	2.216
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.232	0.098	0.809
Cyclohexane	0.161	0.056	0.548
Other C6's	0.348	0.147	1.213
Heptanes	0.341	0.145	1.296
Methylcyclohexane	0.122	0.050	0.485
2,2,4 Trimethylpentane	0.028	0.015	0.129
Benzene	0.043	0.012	0.136
Toluene	0.036	0.012	0.134
Ethylbenzene	0.004	0.002	0.017
Xylenes	0.013	0.005	0.056
Octanes Plus	<u>0.197</u>	<u>0.102</u>	<u>0.953</u>
Totals	100.000	9.223	100.000

**Real Characteristics Of Octanes Plus:**

Specific Gravity ----- 4.144 (Air=1)  
Molecular Weight ----- 119.40  
Gross Heating Value ----- 6307 BTU/CF

**Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.858 (Air=1)  
Compressibility (Z) ----- 0.9947  
Molecular Weight ----- 24.71  
Gross Heating Value  
Dry Basis ----- 1483 BTU/CF  
Saturated Basis ----- 1458 BTU/CF

November 28, 2022

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

**For:** Marathon Oil Permian, LLC  
5555 San Felipe Street  
Houston, Texas 77056

**Sample:** Thunderbird 1 TB Federal Com No. 014H  
First Stage Separator  
Spot Gas Sample @ 143 psig & 128 °F

Date Sampled: 11/02/2022

Job Number: 223372.001

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	0.003	
Nitrogen	1.504	
Carbon Dioxide	0.300	
Methane	68.729	
Ethane	14.337	3.930
Propane	8.435	2.382
Isobutane	0.965	0.324
n-Butane	2.802	0.905
2-2 Dimethylpropane	0.001	0.000
Isopentane	0.605	0.227
n-Pentane	0.710	0.264
Hexanes	0.576	0.243
Heptanes Plus	<u>1.033</u>	<u>0.439</u>
Totals	100.000	8.714

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity -----	3.428	(Air=1)
Molecular Weight -----	98.79	
Gross Heating Value -----	5331	BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity -----	0.842	(Air=1)
Compressibility (Z) -----	0.9950	
Molecular Weight -----	24.27	
Gross Heating Value		
Dry Basis -----	1456	BTU/CF
Saturated Basis -----	1431	BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)  
Results: 2.013 Gr/100 CF, 32.0 PPMV or 0.003 Mol %

Base Conditions: 15.025 PSI &amp; 60 Deg F

Sampled By: (24) D. Field  
Analyst: KV  
Processor: KV  
Cylinder ID: T-3506

Certified: FESCO, Ltd. - Alice, Texas

---

Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 223372.001

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**  
**TOTAL REPORT**

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.003		0.004
Nitrogen	1.504		1.736
Carbon Dioxide	0.300		0.544
Methane	68.729		45.436
Ethane	14.337	3.930	17.765
Propane	8.435	2.382	15.328
Isobutane	0.965	0.324	2.311
n-Butane	2.802	0.905	6.711
2,2 Dimethylpropane	0.001	0.000	0.003
Isopentane	0.605	0.227	1.799
n-Pentane	0.710	0.264	2.111
2,2 Dimethylbutane	0.005	0.002	0.018
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.068	0.029	0.241
2 Methylpentane	0.170	0.072	0.604
3 Methylpentane	0.099	0.041	0.352
n-Hexane	0.234	0.099	0.831
Methylcyclopentane	0.132	0.048	0.458
Benzene	0.044	0.013	0.142
Cyclohexane	0.171	0.060	0.593
2-Methylhexane	0.030	0.014	0.124
3-Methylhexane	0.038	0.018	0.157
2,2,4 Trimethylpentane	0.029	0.015	0.137
Other C7's	0.080	0.036	0.327
n-Heptane	0.079	0.037	0.326
Methylcyclohexane	0.135	0.056	0.546
Toluene	0.041	0.014	0.156
Other C8's	0.108	0.051	0.491
n-Octane	0.032	0.017	0.151
Ethylbenzene	0.005	0.002	0.022
M & P Xylenes	0.013	0.005	0.057
O-Xylene	0.004	0.002	0.017
Other C9's	0.051	0.027	0.265
n-Nonane	0.010	0.006	0.053
Other C10's	0.020	0.012	0.116
n-Decane	0.004	0.003	0.023
Undecanes (11)	<u>0.007</u>	<u>0.005</u>	<u>0.045</u>
Totals	100.000	8.714	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.842	(Air=1)
Compressibility (Z) -----	0.9950	
Molecular Weight -----	24.27	
Gross Heating Value		
Dry Basis -----	1456	BTU/CF
Saturated Basis -----	1431	BTU/CF

November 28, 2022

**FESCO, Ltd.****1100 Fesco Ave. - Alice, Texas 78332****Sample:** Thunderbird 1 TB Federal Com No. 014H

First Stage Separator

Spot Gas Sample @ 143 psig &amp; 128 °F

Date Sampled: 11/02/2022

Job Number: 223372.001

**GLYCALC FORMAT**

<b>COMPONENT</b>	<b>MOL%</b>	<b>GPM</b>	<b>Wt %</b>
Carbon Dioxide	0.300		0.544
Hydrogen Sulfide	0.003		0.004
Nitrogen	1.504		1.736
Methane	68.729		45.436
Ethane	14.337	3.930	17.765
Propane	8.435	2.382	15.328
Isobutane	0.965	0.324	2.311
n-Butane	2.803	0.906	6.714
Isopentane	0.605	0.227	1.799
n-Pentane	0.710	0.264	2.111
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.234	0.099	0.831
Cyclohexane	0.171	0.060	0.593
Other C6's	0.342	0.144	1.215
Heptanes	0.359	0.153	1.392
Methylcyclohexane	0.135	0.056	0.546
2,2,4 Trimethylpentane	0.029	0.015	0.137
Benzene	0.044	0.013	0.142
Toluene	0.041	0.014	0.156
Ethylbenzene	0.005	0.002	0.022
Xylenes	0.017	0.007	0.074
Octanes Plus	<u>0.232</u>	<u>0.120</u>	<u>1.144</u>
Totals	100.000	8.714	100.000

**Real Characteristics Of Octanes Plus:**

Specific Gravity ----- 4.153 (Air=1)  
Molecular Weight ----- 119.69  
Gross Heating Value ----- 6329 BTU/CF

**Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.842 (Air=1)  
Compressibility (Z) ----- 0.9950  
Molecular Weight ----- 24.27  
Gross Heating Value  
Dry Basis ----- 1456 BTU/CF  
Saturated Basis ----- 1431 BTU/CF

November 30, 2022

**FESCO, Ltd.**  
**1100 FESCO Avenue - Alice, Texas 78332**

**For:** Marathon Oil Permian, LLC  
 5555 San Felipe Street  
 Houston, Texas 77056

**Sample:** Thunderbird 1 TB Federal Com No. 014H  
 First Stage Separator Hydrocarbon Liquid  
 Sampled @ 143 psig & 128 °F

Date Sampled: 11/02/2022

Job Number: 223372.002

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2186-M**

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.043	0.008	0.008
Carbon Dioxide	0.031	0.009	0.009
Methane	3.175	0.902	0.344
Ethane	3.449	1.547	0.700
Propane	6.237	2.882	1.858
Isobutane	1.433	0.786	0.563
n-Butane	5.677	3.002	2.229
2,2 Dimethylpropane	0.079	0.051	0.039
Isopentane	2.677	1.642	1.305
n-Pentane	4.004	2.434	1.951
2,2 Dimethylbutane	0.037	0.026	0.022
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.510	0.350	0.297
2 Methylpentane	1.753	1.221	1.021
3 Methylpentane	1.036	0.710	0.603
n-Hexane	3.073	2.119	1.789
Heptanes Plus	<u>66.785</u>	<u>82.310</u>	<u>87.263</u>
Totals:	100.000	100.000	100.000

**Characteristics of Heptanes Plus:**

Specific Gravity -----	0.8342 (Water=1)
°API Gravity -----	38.13 @ 60°F
Molecular Weight -----	193.4
Vapor Volume -----	13.34 CF/Gal
Weight -----	6.95 Lbs/Gal

**Characteristics of Total Sample:**

Specific Gravity -----	0.7868 (Water=1)
°API Gravity -----	48.34 @ 60°F
Molecular Weight -----	148.0
Vapor Volume -----	16.45 CF/Gal
Weight -----	6.56 Lbs/Gal

Base Conditions: 15.025 PSI &amp; 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Sampled By: (24) D. Field  
 Analyst: JG  
 Processor: HHdjv  
 Cylinder ID: W-1658

---

 Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 223372.002

**TANKS DATA INPUT REPORT - GPA 2186-M**

COMPONENT	Mol %	LiqVol %	Wt %
Carbon Dioxide	0.031	0.009	0.009
Nitrogen	0.043	0.008	0.008
Methane	3.175	0.902	0.344
Ethane	3.449	1.547	0.700
Propane	6.237	2.882	1.858
Isobutane	1.433	0.786	0.563
n-Butane	5.757	3.053	2.268
Isopentane	2.677	1.642	1.305
n-Pentane	4.004	2.434	1.951
Other C-6's	3.336	2.306	1.942
Heptanes	8.538	5.768	5.336
Octanes	10.143	7.643	7.277
Nonanes	5.135	4.582	4.395
Decanes Plus	38.445	61.463	67.207
Benzene	0.514	0.241	0.271
Toluene	1.392	0.782	0.866
E-Benzene	0.392	0.254	0.281
Xylenes	1.623	1.050	1.164
n-Hexane	3.073	2.119	1.789
2,2,4 Trimethylpentane	0.603	0.526	0.466
Totals:	100.000	100.000	100.000

**Characteristics of Total Sample:**

Specific Gravity -----	0.7868	(Water=1)
°API Gravity -----	48.34	@ 60°F
Molecular Weight-----	148.0	
Vapor Volume -----	16.45	CF/Gal
Weight -----	6.56	Lbs/Gal

**Characteristics of Decanes (C10) Plus:**

Specific Gravity -----	0.8604	(Water=1)
Molecular Weight-----	258.8	

**Characteristics of Atmospheric Sample:**

°API Gravity -----	42.13	@ 60°F
Reid Vapor Pressure Equivalent (D-6377)-----	7.46	psi

QUALITY CONTROL CHECK			
	Sampling Conditions	Test Samples	
Cylinder Number	-----	W-1658*	-----
Pressure, PSIG	143	143	-----
Probe Temperature, °F	128	128	-----

\* Sample used for analysis



FESCO, Ltd.

Job Number: 223372.002

**TOTAL EXTENDED REPORT - GPA 2186-M**

COMPONENT	Mol %	LiqVol %	Wt %
Nitrogen	0.043	0.008	0.008
Carbon Dioxide	0.031	0.009	0.009
Methane	3.175	0.902	0.344
Ethane	3.449	1.547	0.700
Propane	6.237	2.882	1.858
Isobutane	1.433	0.786	0.563
n-Butane	5.677	3.002	2.229
2,2 Dimethylpropane	0.079	0.051	0.039
Isopentane	2.677	1.642	1.305
n-Pentane	4.004	2.434	1.951
2,2 Dimethylbutane	0.037	0.026	0.022
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.510	0.350	0.297
2 Methylpentane	1.753	1.221	1.021
3 Methylpentane	1.036	0.710	0.603
n-Hexane	3.073	2.119	1.789
Methylcyclopentane	1.475	0.876	0.839
Benzene	0.514	0.241	0.271
Cyclohexane	2.519	1.438	1.432
2-Methylhexane	0.561	0.438	0.380
3-Methylhexane	0.729	0.561	0.493
2,2,4 Trimethylpentane	0.603	0.526	0.466
Other C-7's	1.394	1.017	0.934
n-Heptane	1.860	1.439	1.259
Methylcyclohexane	3.843	2.591	2.549
Toluene	1.392	0.782	0.866
Other C-8's	4.901	3.850	3.649
n-Octane	1.399	1.202	1.079
E-Benzene	0.392	0.254	0.281
M & P Xylenes	1.178	0.767	0.845
O-Xylene	0.445	0.284	0.319
Other C-9's	3.975	3.487	3.389
n-Nonane	1.160	1.095	1.005
Other C-10's	4.312	4.158	4.115
n-decane	0.980	1.009	0.942
Undecanes(11)	4.080	4.036	4.051
Dodecanes(12)	3.218	3.438	3.499
Tridecanes(13)	3.120	3.574	3.688
Tetradecanes(14)	2.614	3.209	3.355
Pentadecanes(15)	2.359	3.101	3.282
Hexadecanes(16)	1.778	2.497	2.665
Heptadecanes(17)	1.570	2.332	2.513
Octadecanes(18)	1.456	2.278	2.469
Nonadecanes(19)	1.327	2.162	2.357
Eicosanes(20)	1.071	1.814	1.989
Heneicosanes(21)	0.931	1.660	1.831
Docosanes(22)	0.840	1.560	1.731
Tricosanes(23)	0.749	1.441	1.608
Tetracosanes(24)	0.622	1.241	1.391
Pentacosanes(25)	0.569	1.178	1.326
Hexacosanes(26)	0.530	1.137	1.286
Heptacosanes(27)	0.490	1.089	1.238
Octacosanes(28)	0.452	1.039	1.185
Nonacosanes(29)	0.397	0.942	1.078
Triacontanes(30)	0.368	0.900	1.033
Hentriacontanes Plus(31+)	<u>4.614</u>	<u>15.667</u>	<u>18.576</u>
Total	100.000	100.000	100.000

Flaring/Venting Event Volume (MCF):	121.68
Flare or vent:	Flare
Date:	12/10/2022
Time discovered:	8:30:00 AM
Time terminated:	12:00:00 PM
Total Duration (hrs):	3.5

**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**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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**

DEFINITIONS  
  
Action 165168

DEFINITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 165168
	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: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
--

**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**

1000 Rio Brazos Rd., Aztec, NM 87410  
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 165168

**QUESTIONS**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 165168
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	[30-025-46134] THUNDERBIRD 1 36 TB FEDERAL COM #014H
Incident Facility	Unavailable.

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	No
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.
<i>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.</i>	
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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	67
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	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

**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**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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, Page 2

Action 165168

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 165168
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/10/2022
Time vent or flare was discovered or commenced	08:30 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Downhole Well Maintenance   Producing Well   Natural Gas Vented   Released: 122 Mcf   Recovered: 0 Mcf   Lost: 122 Mcf.
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 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.	False
Please explain reason for why this event was beyond this operator's control	WO rig supervisor was trying to reduce wellhead pressure prior to nipping down the production tree and nipping up the BOP. The pressure reduction was conducted for safety reasons.
Steps taken to limit the duration and magnitude of vent or flare	The WO supervisor did not blow the well down to zero psi but rather limited the blow down period.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	In the future the WO supervisor will seek prior approval before blowing down any wells with high pressure. Communication with the CTB operator will be improved to reduce oversight.

**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**

1000 Rio Brazos Rd., Aztec, NM 87410  
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**

ACKNOWLEDGMENTS

Action 165168

**ACKNOWLEDGMENTS**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 165168
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.

**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**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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**

CONDITIONS  
  
Action 165168

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 165168
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
icastro	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.	12/19/2022