

FESCO, Ltd.
5000 W. Interstate 20 - Midland, Texas 79703

For: Civitas Resources
 555 17th Street, Suite 3700
 Denver, Colorado, 80202

Sample: Queen Keely State Com No. 153H
 First Stage Separator Gas
 Spot Gas Sample at 120 psig & 118 °F

Date Sampled: 03/08/2024 at 11:15

Job Number: 240251.107

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	1.888	
Carbon Dioxide	0.260	
Methane	64.900	
Ethane	14.801	4.062
Propane	8.835	2.498
Isobutane	1.193	0.401
n-Butane	3.380	1.093
2-2 Dimethylpropane	0.003	0.001
Isopentane	0.913	0.343
n-Pentane	1.110	0.413
Hexanes	0.778	0.329
Heptanes Plus	<u>1.939</u>	<u>0.812</u>
Totals	100.000	9.951

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.452 (Air=1)
 Molecular Weight ----- 99.36
 Gross Heating Value ----- 5218 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.907 (Air=1)
 Compressibility (Z) ----- 0.9938
 Molecular Weight ----- 26.12
 Gross Heating Value
 Dry Basis ----- 1549 BTU/CF
 Saturated Basis ----- 1523 BTU/CF

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

Results: 0.013 Gr/100 CF, 0.2 PPMV or <0.0001 Mol%

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (14) Turner
 Analyst: BMc
 Processor: BMc
 Cylinder ID: X-0191

Certified: FESCO, Ltd. - Midland, Texas



Bryan McCollum 432-332-3211

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

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	1.888		2.025
Carbon Dioxide	0.260		0.438
Methane	64.900		39.862
Ethane	14.801	4.062	17.040
Propane	8.835	2.498	14.917
Isobutane	1.193	0.401	2.655
n-Butane	3.380	1.093	7.522
2,2 Dimethylpropane	0.003	0.001	0.008
Isopentane	0.913	0.343	2.522
n-Pentane	1.110	0.413	3.066
2,2 Dimethylbutane	0.006	0.003	0.020
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.095	0.040	0.313
2 Methylpentane	0.230	0.098	0.759
3 Methylpentane	0.129	0.054	0.426
n-Hexane	0.318	0.134	1.049
Methylcyclopentane	0.174	0.062	0.561
Benzene	0.174	0.050	0.520
Cyclohexane	0.264	0.092	0.850
2-Methylhexane	0.044	0.021	0.169
3-Methylhexane	0.052	0.024	0.200
2,2,4 Trimethylpentane	0.000	0.000	0.000
Other C7's	0.145	0.065	0.551
n-Heptane	0.124	0.059	0.476
Methylcyclohexane	0.236	0.097	0.887
Toluene	0.159	0.055	0.561
Other C8's	0.187	0.089	0.789
n-Octane	0.064	0.034	0.280
Ethylbenzene	0.021	0.008	0.085
M & P Xylenes	0.044	0.017	0.179
O-Xylene	0.014	0.006	0.057
Other C9's	0.110	0.057	0.532
n-Nonane	0.026	0.015	0.128
Other C10's	0.068	0.041	0.368
n-Decane	0.011	0.007	0.060
Undecanes (11)	<u>0.022</u>	<u>0.014</u>	<u>0.125</u>
Totals	100.000	9.951	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.907	(Air=1)
Compressibility (Z) -----	0.9938	
Molecular Weight -----	26.12	

Gross Heating Value

Dry Basis -----	1549	BTU/CF
Saturated Basis -----	1523	BTU/CF

FESCO, Ltd.
5000 W. Interstate 20 - Midland, Texas 79703

Sample: Queen Keely State Com No. 153H
 First Stage Separator Gas
 Spot Gas Sample at 120 psig & 118 °F

Date Sampled: 03/08/2024 at 11:15

Job Number: 240251.107

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	0.260		0.438
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	1.888		2.025
Methane	64.900		39.862
Ethane	14.801	4.062	17.040
Propane	8.835	2.498	14.917
Isobutane	1.193	0.401	2.655
n-Butane	3.383	1.095	7.530
Isopentane	0.913	0.343	2.522
n-Pentane	1.110	0.413	3.066
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.318	0.134	1.049
Cyclohexane	0.264	0.092	0.850
Other C6's	0.460	0.195	1.518
Heptanes	0.539	0.230	1.957
Methylcyclohexane	0.236	0.097	0.887
2,2,4 Trimethylpentane	0.000	0.000	0.000
Benzene	0.174	0.050	0.520
Toluene	0.159	0.055	0.561
Ethylbenzene	0.021	0.008	0.085
Xylenes	0.058	0.023	0.236
Octanes Plus	<u>0.488</u>	<u>0.257</u>	<u>2.282</u>
Totals	100.000	9.951	100.000

Real Characteristics Of Octanes Plus:

Specific Gravity ----- 4.241 (Air=1)
 Molecular Weight ----- 122.08
 Gross Heating Value ----- 6511 BTU/CF

Real Characteristics Of Total Sample:

Specific Gravity ----- 0.907 (Air=1)
 Compressibility (Z) ----- 0.9938
 Molecular Weight ----- 26.12
 Gross Heating Value
 Dry Basis ----- 1549 BTU/CF
 Saturated Basis ----- 1523 BTU/CF

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start	End

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 329072

DEFINITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 329072
	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.

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 329072

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 329072
	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	Unavailable.
Incident Facility	[fAPP2406444915] QUEEN KEELY STATE COM CTB

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 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 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Not answered.
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	65
Nitrogen (N2) percentage, if greater than one percent	2
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

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.

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 329072

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195 Action Number: 329072 Action Type: [C-129] Venting and/or Flaring (C-129)
--	---

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/26/2024
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Tank (Any) Natural Gas Flared Released: 101 Mcf Recovered: 0 Mcf Lost: 101 Mcf.
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.	True
Please explain reason for why this event was beyond this operator's control	The location experienced a malfunction that was not anticipated and the flaring can be attributed to the downtime of the equipment/VRU
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues.

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 329072

ACKNOWLEDGMENTS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 329072
	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 complete 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 329072

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 329072
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
mlaruecdh	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.	4/2/2024