

April 14, 2023

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

For: Enterprise Field Services, LLC
P. O. Box 1508
Carlsbad, New Mexico 88221

Sample: Sand Dunes Central
Inlet
Spot Gas Sample @ 65 psig & 67 °F

Date Sampled: 03/29/2023

Job Number: 231746.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	1.707	
Carbon Dioxide	1.538	
Methane	71.523	
Ethane	13.087	3.585
Propane	7.162	2.021
Isobutane	0.924	0.310
n-Butane	2.291	0.740
2-2 Dimethylpropane	0.005	0.002
Isopentane	0.478	0.179
n-Pentane	0.512	0.190
Hexanes	0.326	0.138
Heptanes Plus	<u>0.447</u>	<u>0.186</u>
Totals	100.000	7.349

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.340 (Air=1)
Molecular Weight ----- 96.33
Gross Heating Value ----- 5204 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.798 (Air=1)
Compressibility (Z) ----- 0.9957
Molecular Weight ----- 23.02
Gross Heating Value
Dry Basis ----- 1352 BTU/CF
Saturated Basis ----- 1330 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
Results: 0.031 Gr/100 CF, 0.5 PPMV or <0.0001 Mol%

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (24) D. Field
Analyst: JS
Processor: KV
Cylinder ID: ST-5806

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

FESCO, Ltd.

Job Number: 231746.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	1.707		2.077
Carbon Dioxide	1.538		2.940
Methane	71.523		49.841
Ethane	13.087	3.585	17.094
Propane	7.162	2.021	13.719
Isobutane	0.924	0.310	2.333
n-Butane	2.291	0.740	5.784
2,2 Dimethylpropane	0.005	0.002	0.016
Isopentane	0.478	0.179	1.498
n-Pentane	0.512	0.190	1.605
2,2 Dimethylbutane	0.005	0.002	0.019
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.036	0.015	0.135
2 Methylpentane	0.102	0.043	0.382
3 Methylpentane	0.054	0.023	0.202
n-Hexane	0.129	0.054	0.483
Methylcyclopentane	0.061	0.022	0.223
Benzene	0.022	0.006	0.075
Cyclohexane	0.080	0.028	0.292
2-Methylhexane	0.016	0.008	0.070
3-Methylhexane	0.018	0.008	0.078
2,2,4 Trimethylpentane	0.012	0.006	0.060
Other C7's	0.037	0.016	0.159
n-Heptane	0.039	0.018	0.170
Methylcyclohexane	0.063	0.026	0.269
Toluene	0.017	0.006	0.068
Other C8's	0.045	0.021	0.215
n-Octane	0.012	0.006	0.060
Ethylbenzene	0.001	0.000	0.005
M & P Xylenes	0.005	0.002	0.023
O-Xylene	0.001	0.000	0.005
Other C9's	0.014	0.007	0.077
n-Nonane	0.003	0.002	0.017
Other C10's	0.000	0.000	0.000
n-Decane	0.001	0.001	0.006
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	7.349	100.000

Computed Real Characteristics of Total Sample

Specific Gravity -----	0.798	(Air=1)
Compressibility (Z) -----	0.9957	
Molecular Weight -----	23.02	
Gross Heating Value		
Dry Basis -----	1352	BTU/CF
Saturated Basis -----	1330	BTU/CF

April 14, 2023

FESCO, Ltd.
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Sample: Sand Dunes Central
Inlet
Spot Gas Sample @ 65 psig & 67 °F

Date Sampled: 03/29/2023

Job Number: 231746.001

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	1.538		2.940
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	1.707		2.077
Methane	71.523		49.841
Ethane	13.087	3.585	17.094
Propane	7.162	2.021	13.719
Isobutane	0.924	0.310	2.333
n-Butane	2.296	0.742	5.800
Isopentane	0.478	0.179	1.498
n-Pentane	0.512	0.190	1.605
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.129	0.054	0.483
Cyclohexane	0.080	0.028	0.292
Other C6's	0.197	0.083	0.738
Heptanes	0.171	0.073	0.700
Methylcyclohexane	0.063	0.026	0.269
2,2,4 Trimethylpentane	0.012	0.006	0.060
Benzene	0.022	0.006	0.075
Toluene	0.017	0.006	0.068
Ethylbenzene	0.001	0.000	0.005
Xylenes	0.006	0.002	0.028
Octanes Plus	<u>0.075</u>	<u>0.037</u>	<u>0.375</u>
Totals	100.000	7.349	100.000

Real Characteristics Of Octanes Plus:

Specific Gravity ----- 3.988 (Air=1)
Molecular Weight ----- 115.00
Gross Heating Value ----- 6022 BTU/CF

Real Characteristics Of Total Sample:

Specific Gravity ----- 0.798 (Air=1)
Compressibility (Z) ----- 0.9957
Molecular Weight ----- 23.02
Gross Heating Value
Dry Basis ----- 1352 BTU/CF
Saturated Basis ----- 1330 BTU/CF



April 22, 2023

FESCO Ltd.
1100 Fesco Avenue - Alice, Texas 78332

For: Enterprise Field Services, LLC
P. O. Box 1508
Carlsbad, New Mexico 88221

LABORATORY TEST RESULTS

Lease/Well	Sand Dunes Central	Job Number	J231746	
		Date Sampled	3/29/2023	
Sample ID	Test	Results	Units	Test Method
Inlet	Total Sulfur	1.0	ppm wt	ASTM D-6667
		0.00010	wt %	

FESCO Ltd. - Alice, Texas

Conan Pierce 361-661-7015

Compressor Blowdown Emissions

Site Name Sand Dunes Central TOTAL 13.9473
 Unit Number 1000

	<u>Pipe Diameter</u>	<u>Pipe Length</u>	<u>Pressure</u>	<u>Volume</u>
	<u>inches</u>	<u>feet</u>	<u>psi</u>	<u>Calc</u>
				<u>mscf</u>
1st Stage Piping	12	264.5	205	3.597318
1st Stage Scrubber	40	8.75	50	0.389397
1st Stage Cooler	1.5		205	0
Length		55		
Number of Tubes		91		
2nd Stage Piping	8	224.5	585	3.70417
2nd Stage Scrubber	30	8	205	0.680022
2nd Stage Cooler	1		585	
Length		55		
Number of Tubes		88		
3rd Stage Piping	6	227	1035	3.687687
3rd Stage Scrubber	30	8	585	1.85621
3rd Stage Cooler	1		1035	0
Length		55		
Number of Tubes		86		
Discharge Piping	6	2	1035	0.032491
Pulse bottles				
1 suction	30	10.8333	50	
1 discharge	24	15	205	
2 suction	24	7	205	
2 discharge	20	11.1666667	585	
3 suction	20	2.08333	585	
3 discharge	18	5.33	1035	

<u>#of tubes</u>	<u>volume</u> <u>per tube</u>	<u>cooler</u> <u>total</u>	<u>all cooler</u> <u>total</u>	<u>All PB</u> <u>total</u>	<u>scrubber</u> <u>pipng</u> <u>total</u>	<u>Unit total</u>	
			4.445794	3.613691	13.9473	22.00679	55.7892
91	0.011688	1.063608					
88	0.014179	1.247752					
86	0.024819	2.134434					
PB total							
0.271187							
0.816027							
0.380812							
1.151538							
0.214839							
0.779288							

District I
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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 277362

DEFINITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 277362
	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 277362

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 277362
	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	[fAPP2122928745] Enterprise Carlsbad GS

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	Gas Compressor Station
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	72
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	2
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.

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QUESTIONS, Page 2

Action 277362

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 277362
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/16/2023
Time vent or flare was discovered or commenced	04:43 AM
Time vent or flare was terminated	04:44 AM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Normal Operations Gas Compressor Station Natural Gas Vented Released: 55 Mcf Recovered: 0 Mcf Lost: 55 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.	True
Please explain reason for why this event was beyond this operator's control	Hazardous gases were detected the the facility went in to emergency shut down.
Steps taken to limit the duration and magnitude of vent or flare	None.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	None.

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ACKNOWLEDGMENTS

Action 277362

ACKNOWLEDGMENTS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 277362
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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 277362

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 277362
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
tjlong	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.	10/19/2023