June 22, 2023

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

For: Santo Petroleum, LLC
P. O. Box 1020
Artesia, New Mexico 88210

Sample: Barney 404H
3 Phase Separator
Spot Gas Sample @ 100 psig & 112 °F

Date Sampled: 05/31/2023 Job Number: 232360.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	< 0.001	
Nitrogen	0.769	
Carbon Dioxide	0.105	
Methane	69.479	
Ethane	14.823	4.063
Propane	8.348	2.357
Isobutane	1.151	0.386
n-Butane	2.781	0.899
2-2 Dimethylpropane	0.020	0.008
Isopentane	0.641	0.240
n-Pentane	0.714	0.265
Hexanes	0.457	0.193
Heptanes Plus	0.712	0.304
Totals	100.000	8.715

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ---------------------------	3.424	(Air=1)
Molecular Weight -------------------------	98.67	
Gross Heating Value ---------------------	5331	BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ---------------------------	0.830	(Air=1)
Compressibility (Z) -----------------------	0.9950	
Molecular Weight -------------------------	23.92	
Gross Heating Value		
Dry Basis --------------------------------	1455	BTU/CF
Saturated Basis -------------------------	1430	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: (14) D. Turner
Analyst: JS
Processor: DS
Cylinder ID: T-2279

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

FESCO, Ltd. Job Number: 232360.001

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286
TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	0.769		0.901
Carbon Dioxide	0.105		0.193
Methane	69.479		46.597
Ethane	14.823	4.063	18.634
Propane	8.348	2.357	15.390
Isobutane	1.151	0.386	2.797
n-Butane	2.781	0.899	6.758
2,2 Dimethylpropane	0.020	0.008	0.060
Isopentane	0.641	0.240	1.933
n-Pentane	0.714	0.265	2.154
2,2 Dimethylbutane	0.007	0.003	0.025
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.047	0.020	0.169
2 Methylpentane	0.139	0.059	0.501
3 Methylpentane	0.076	0.032	0.274
n-Hexane	0.188	0.079	0.677
Methylcyclopentane	0.093	0.034	0.327
Benzene	0.017	0.005	0.056
Cyclohexane	0.108	0.038	0.380
2-Methylhexane	0.026	0.012	0.109
3-Methylhexane	0.029	0.014	0.121
2,2,4 Trimethylpentane	0.019	0.010	0.091
Other C7's	0.061	0.027	0.253
n-Heptane	0.064	0.030	0.268
Methylcyclohexane	0.100	0.041	0.410
Toluene	0.023	0.008	0.089
Other C8's	0.091	0.043	0.419
n-Octane	0.019	0.010	0.091
Ethylbenzene	0.001	0.000	0.004
M & P Xylenes	0.010	0.004	0.044
O-Xylene	0.002	0.001	0.009
Other C9's	0.035	0.018	0.185
n-Nonane	0.005	0.003	0.027
Other C10's	0.007	0.004	0.041
n-Decane	0.001	0.001	0.006
Undecanes (11)	0.001	0.001	0.007
Totals	100.000	8.715	100.000

Computed Real Characteristics of Total Sample

Specific Gravity ------------------------------------	0.830	(Air=1)
Compressibility (Z) --------------------------------	0.9950	
Molecular Weight ----------------------------------	23.92	

Gross Heating Value

Dry Basis --	1455	BTU/CF
Saturated Basis --------------------------------	1430	BTU/CF

June 22, 2023

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

Sample: Barney 404H
3 Phase Separator
Spot Gas Sample @ 100 psig & 112 °F

Date Sampled: 05/31/2023 Job Number: 232360.001

GLYCALC FORMAT

COMPONENT	MOL%	GPM	Wt %
Carbon Dioxide	0.105		0.193
Hydrogen Sulfide	< 0.001		< 0.001
Nitrogen	0.769		0.901
Methane	69.479		46.597
Ethane	14.823	4.063	18.634
Propane	8.348	2.357	15.390
Isobutane	1.151	0.386	2.797
n-Butane	2.801	0.906	6.818
Isopentane	0.641	0.240	1.933
n-Pentane	0.714	0.265	2.154
Cyclopentane	0.000	0.000	0.000
n-Hexane	0.188	0.079	0.677
Cyclohexane	0.108	0.038	0.380
Other C6's	0.269	0.114	0.969
Heptanes	0.273	0.117	1.078
Methylcyclohexane	0.100	0.041	0.410
2,2,4 Trimethylpentane	0.019	0.010	0.091
Benzene	0.017	0.005	0.056
Toluene	0.023	0.008	0.089
Ethylbenzene	0.001	0.000	0.004
Xylenes	0.012	0.005	0.053
Octanes Plus	0.159	0.080	0.776
Totals	100.000	8.715	100.000

Real Characteristics Of Octanes Plus:

Specific Gravity -----------------------	4.047	(Air=1)
Molecular Weight ----------------------	116.65	
Gross Heating Value -----------------	6109	BTU/CF

Real Characteristics Of Total Sample:

Specific Gravity --------------------------	0.830	(Air=1)
Compressibility (Z) ----------------------	0.9950	
Molecular Weight -----------------------	23.92	
Gross Heating Value		
Dry Basis --------------------------------	1455	BTU/CF
Saturated Basis -----------------------	1430	BTU/CF

June 26, 2023

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

For: Santo Petroleum, LLC
P. O. Box 1020
Artesia, New Mexico 88210

Sample: Barney 404H
3 Phase Separator Hydrocarbon Liquid
Sampled @ 100 psig & 112 °F

Date Sampled: 05/31/2023 Job Number: 232360.002

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2186-M

COMPONENT	MOL %	LIQ VOL %	WT %
Nitrogen	0.038	0.007	0.007
Carbon Dioxide	0.014	0.004	0.004
Methane	2.588	0.738	0.286
Ethane	2.907	1.309	0.603
Propane	5.092	2.362	1.549
Isobutane	1.527	0.841	0.612
n-Butane	5.180	2.750	2.077
2,2 Dimethylpropane	0.090	0.058	0.045
Isopentane	2.791	1.719	1.389
n-Pentane	4.024	2.456	2.003
2,2 Dimethylbutane	0.070	0.049	0.041
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.589	0.407	0.350
2 Methylpentane	1.805	1.261	1.073
3 Methylpentane	1.077	0.740	0.640
n-Hexane	3.327	2.304	1.978
Heptanes Plus	68.881	82.993	87.340
Totals:	100.000	100.000	100.000

Characteristics of Heptanes Plus:

Specific Gravity ----------------------------------	0.8139	(Water=1)
°API Gravity ---------------------------------------	42.35	@ 60°F
Molecular Weight ------------------------------	183.8	
Vapor Volume ----------------------------------	13.70	CF/Gal
Weight ---	6.78	Lbs/Gal

Characteristics of Total Sample:

Specific Gravity ----------------------------------	0.7734	(Water=1)
°API Gravity ---------------------------------------	51.46	@ 60°F
Molecular Weight------------------------------	144.9	
Vapor Volume ----------------------------------	16.51	CF/Gal
Weight ---	6.44	Lbs/Gal

Base Conditions: 15.025 PSI & 60 °F

Certified: FESCO, Ltd. - Alice, Texas

Sampled By: (14) D. Turner
Analyst: JL
Processor: ANBdjv
Cylinder ID: W-0449

Conan Pierce 361-661-7015

FESCO, Ltd. Job Number: 232360.002

TANKS DATA INPUT REPORT - GPA 2186-M

COMPONENT	Mol %	LiqVol %	Wt %
Carbon Dioxide	0.014	0.004	0.004
Nitrogen	0.038	0.007	0.007
Methane	2.588	0.738	0.286
Ethane	2.907	1.309	0.603
Propane	5.092	2.362	1.549
Isobutane	1.527	0.841	0.612
n-Butane	5.270	2.808	2.122
Isopentane	2.791	1.719	1.389
n-Pentane	4.024	2.456	2.003
Other C-6's	3.541	2.457	2.105
Heptanes	8.759	6.053	5.639
Octanes	11.486	8.834	8.457
Nonanes	5.695	5.173	4.979
Decanes Plus	39.253	60.508	65.658
Benzene	0.246	0.116	0.132
Toluene	0.849	0.479	0.539
E-Benzene	0.455	0.295	0.333
Xylenes	1.500	0.976	1.099
n-Hexane	3.327	2.304	1.978
2,2,4 Trimethylpentane	0.638	0.559	0.503
Totals:	100.000	100.000	100.000

Characteristics of Total Sample:

Specific Gravity ----------	0.7734	(Water=1)
°API Gravity ----------	51.46	@ 60°F
Molecular Weight----------	144.9	
Vapor Volume ----------	16.51	CF/Gal
Weight ----------	6.44	Lbs/Gal

Characteristics of Decanes (C10) Plus:

Specific Gravity ----------	0.8392	(Water=1)
Molecular Weight----------	242.4	

Characteristics of Atmospheric Sample:

°API Gravity ----------	47.53	@ 60°F
Reid Vapor Pressure Equivalent (D-6377)----------	9.63	psi

QUALITY CONTROL CHECK			
	Sampling Conditions	Test Samples	
Cylinder Number	------	W-0449	------
Pressure, PSIG	100	100	------
Skin Temperature, °F	112	112	------

* Sample used for analysis

FESCO, Ltd. Job Number: 232360.002

TOTAL EXTENDED REPORT - GPA 2186-M

COMPONENT	Mol %	LiqVol %	Wt %
Nitrogen	0.038	0.007	0.007
Carbon Dioxide	0.014	0.004	0.004
Methane	2.588	0.738	0.286
Ethane	2.907	1.309	0.603
Propane	5.092	2.362	1.549
Isobutane	1.527	0.841	0.612
n-Butane	5.180	2.750	2.077
2,2 Dimethylpropane	0.090	0.058	0.045
Isopentane	2.791	1.719	1.389
n-Pentane	4.024	2.456	2.003
2,2 Dimethylbutane	0.070	0.049	0.041
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.589	0.407	0.350
2 Methylpentane	1.805	1.261	1.073
3 Methylpentane	1.077	0.740	0.640
n-Hexane	3.327	2.304	1.978
Methylcyclopentane	1.512	0.901	0.878
Benzene	0.246	0.116	0.132
Cyclohexane	2.181	1.250	1.267
2-Methylhexane	0.867	0.679	0.599
3-Methylhexane	0.840	0.649	0.581
2,2,4 Trimethylpentane	0.638	0.559	0.503
Other C-7's	1.134	0.845	0.776
n-Heptane	2.225	1.728	1.538
Methylcyclohexane	3.988	2.700	2.702
Toluene	0.849	0.479	0.539
Other C-8's	5.535	4.442	4.209
n-Octane	1.962	1.693	1.546
E-Benzene	0.455	0.295	0.333
M & P Xylenes	1.184	0.773	0.867
O-Xylene	0.317	0.203	0.232
Other C-9's	4.354	3.903	3.793
n-Nonane	1.341	1.271	1.187
Other C-10's	4.680	4.610	4.562
n-decane	1.037	1.072	1.018
Undecanes(11)	4.484	4.532	4.548
Dodecanes(12)	3.370	3.679	3.744
Tridecanes(13)	3.368	3.942	4.066
Tetradecanes(14)	2.832	3.551	3.713
Pentadecanes(15)	2.408	3.235	3.423
Hexadecanes(16)	1.859	2.668	2.848
Heptadecanes(17)	1.694	2.571	2.770
Octadecanes(18)	1.576	2.518	2.729
Nonadecanes(19)	1.393	2.319	2.527
Eicosanes(20)	1.086	1.879	2.061
Heneicosanes(21)	0.935	1.702	1.877
Docosanes(22)	0.802	1.523	1.689
Tricosanes(23)	0.724	1.425	1.589
Tetracosanes(24)	0.613	1.249	1.400
Pentacosanes(25)	0.548	1.158	1.303
Hexacosanes(26)	0.487	1.067	1.206
Heptacosanes(27)	0.458	1.040	1.182
Octacosanes(28)	0.383	0.900	1.026
Nonacosanes(29)	0.338	0.821	0.939
Triacontanes(30)	0.291	0.728	0.836
Hentriacontanes Plus(31+)	3.884	12.318	14.605
Total	100.000	100.000	100.000

Preliminary Production Data

Well Name	Production Date	Gas Flare
BARNEY CTB	2/7/2024	3338 mcf

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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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

Operator: SPC RESOURCES, LLC P.O. Box 1020 Artesia, NM 88211	OGRID: 372262
	Action Number: 316305
	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 316305

QUESTIONS

Operator: SPC RESOURCES, LLC P.O. Box 1020 Artesia, NM 88211	OGRID: 372262
	Action Number: 316305
	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	**[fAPP2130655643] Barney CTB**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
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	Yes
Is this considered a submission for a vent or flare event	**Yes, major 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 withing 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	69
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 specifications 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.*
Oxygen (02) percentage quality requirement	*Not answered.*

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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 (continued)

Operator: SPC RESOURCES, LLC P.O. Box 1020 Artesia, NM 88211	OGRID: 372262
	Action Number: 316305
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/07/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure | Pipeline (Any) | Natural Gas Flared | Released: 3,338 Mcf | Recovered: 0 Mcf | Lost: 3,338 Mcf.
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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[151618] ENTERPRISE FIELD SERVICES L.L.C.
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	Enterprise high line pressure
Steps taken to limit the duration and magnitude of vent or flare	Open valves to divert gas to a second midstream company to relive pressure off the line.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Open valves to divert gas to a second midstream company to relive pressure off the line.

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ACKNOWLEDGMENTS

Operator: SPC RESOURCES, LLC P.O. Box 1020 Artesia, NM 88211	OGRID: 372262
	Action Number: 316305
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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

Operator: SPC RESOURCES, LLC P.O. Box 1020 Artesia, NM 88211	OGRID: 372262
	Action Number: 316305
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
chasketteag	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.	2/21/2024