



www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

12043G	TF 933	Red Hills 401H	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2022050685	2434	MW - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Jan 18, 2022 14:00	Jan 18, 2022 14:00	Jan 25, 2022 08:50	Jan 25, 2022
Date Sampled	Date Effective	Date Received	Date Reported
70.00	1,909.00	System Administrator	100 @ 109
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Kaiser Francis	Total Flow Updated: 01-27-22		NG
Operator			Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	1.0310	1.031	
CO2 (CO2)	0.6460	0.646	
Methane (C1)	70.4040	70.404	
Ethane (C2)	13.3080	13.308	3.5580
Propane (C3)	7.7420	7.742	2.1320
I-Butane (IC4)	1.0850	1.085	0.3550
N-Butane (NC4)	2.8230	2.823	0.8900
I-Pentane (IC5)	0.6910	0.691	0.2530
N-Pentane (NC5)	0.7950	0.795	0.2880
Hexanes Plus (C6+)	1.4750	1.475	0.6400
TOTAL	100.0000	100.0000	8.1160

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information

Device Type: Gas Chromatograph Device Make: Shimadzu
Device Model: GC-2014 Last Cal Date: Jan 24, 2022

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,408.8	1,385.8	1,412.1	1,389.0000

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.8326	0.8289
Molecular Weight	
24.0012	

C6+ Group Properties

Assumed Composition

C6 - 60.000%	C7 - 30.000%	C8 - 10.000%
--------------	--------------	--------------

Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Jan 25, 2022

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Brooke Rush

VALIDATOR COMMENTS:

OK

RH FP2 BSS Flare Meter (old)

Date	Close Reading	Open Reading	Static Pressure Psia	Differential	Gas Flowed
8/6/2021	12316.10	11901.00	0.00	0.00	415.10
8/2/2021	11844.30	11791.20	0.00	0.00	53.10
8/1/2021	11791.20	11694.80	0.00	0.00	96.40
7/31/2021	11694.80	11665.80	0.00	0.00	29.00
7/30/2021	11665.80	11643.80	0.00	0.00	22.00
7/29/2021	11643.80	11623.80	0.00	0.00	20.00
7/28/2021	11623.80	11604.00	0.00	0.00	19.80
7/27/2021	11604.00	11592.70	0.00	0.00	11.30
7/26/2021	11592.70	11582.50	0.00	0.00	10.20
7/25/2021	11582.50	11571.20	0.00	0.00	11.30
7/24/2021	11571.20	11540.00	0.00	0.00	31.20
7/23/2021	11540.00	11495.50	0.00	0.00	44.50
7/22/2021	11495.50	11456.20	0.00	0.00	39.30
7/21/2021	11456.20	11284.60	0.00	0.00	171.60
7/20/2021	11284.60	10938.10	0.00	0.00	346.50
7/19/2021	10938.10	10804.10	0.00	0.00	134.00
7/18/2021	10804.10	10759.70	0.00	0.00	44.40
7/17/2021	10759.70	10611.90	0.00	0.00	147.80
7/16/2021	10611.90	10609.80	0.00	0.00	2.10
7/15/2021	10609.80	10607.70	0.00	0.00	2.10
7/14/2021	10607.70	10605.50	0.00	0.00	2.20
7/13/2021	10605.50	10603.50	0.00	0.00	2.00
7/12/2021	10603.50	10601.50	0.00	0.00	2.00
7/11/2021	10601.50	10600.00	0.00	0.00	1.50
7/10/2021	10600.00	10457.00	0.00	0.00	143.00
7/9/2021	10457.00	10455.00	0.00	0.00	2.00
7/8/2021	10455.00	10382.10	0.00	0.00	72.90
7/7/2021	10382.10	10369.00	0.00	0.00	13.10
7/6/2021	10369.00	10367.20	0.00	0.00	1.80
7/5/2021	10367.20	10342.10	0.00	0.00	25.10
7/4/2021	10342.10	10269.80	0.00	0.00	72.30
7/3/2021	10269.80	10244.00	0.00	0.00	25.80
7/2/2021	10244.00	10122.10	0.00	0.00	121.90
7/1/2021	10122.10	10119.20	0.00	0.00	2.90
6/30/2021	10119.20	10111.60	0.00	0.00	7.60
6/29/2021	10111.60	10083.60	0.00	0.00	28.00
6/28/2021	10083.60	10058.70	0.00	0.00	24.90
6/27/2021	10058.70	9995.74	0.00	0.00	62.96
6/26/2021	9995.74	9948.91	0.00	0.00	46.83
6/25/2021	9948.91	9809.42	0.00	0.00	139.49
6/24/2021	9809.42	9745.04	0.00	0.00	64.38
6/23/2021	9745.04	9686.96	0.00	0.00	58.08
6/22/2021	9686.96	9481.78	0.00	0.00	205.18
6/21/2021	9481.78	9114.12	0.00	0.00	367.66
6/20/2021	9114.12	9060.92	0.00	0.00	53.20

6/19/2021	9060.92	9012.65	0.00	0.00	48.27
6/18/2021	9012.65	8963.56	0.00	0.00	49.09
6/17/2021	8963.56	8914.07	0.00	0.00	49.49
6/16/2021	8914.07	8864.64	0.00	0.00	49.43
6/15/2021	8864.64	8814.89	0.00	0.00	49.75
6/14/2021	8814.89	8765.09	0.00	0.00	49.80
6/13/2021	8765.09	8715.98	0.00	0.00	49.11
6/12/2021	8715.98	8568.94	0.00	0.00	147.04
6/9/2021	8553.71	8453.67	0.00	0.00	100.04
6/8/2021	8453.67	8381.81	0.00	0.00	71.86
6/7/2021	8381.81	8329.72	0.00	0.00	52.09
5/28/2021	8296.40	8239.53	0.00	0.00	56.87
5/27/2021	8239.53	8128.52	0.00	0.00	111.01
5/25/2021	8126.43	7912.24	0.00	0.00	214.19
5/24/2021	7912.24	7902.92	0.00	0.00	9.32

[illegible]

2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2

RH FP2 WC Flare Meter (old)

Date	Close Reading	Open Reading	Static Pressure Psia	Differential	Gas Flowed
8/6/2021	84617.60	83411.40	0.00	0.00	1,206.20
8/5/2021	83411.40	83191.60	0.00	0.00	219.80
8/4/2021	83191.60	82969.00	0.00	0.00	222.60
8/3/2021	82969.00	82744.00	0.00	0.00	225.00
8/2/2021	82744.00	82310.50	0.00	0.00	433.50
8/1/2021	82310.50	81659.10	0.00	0.00	651.40
7/31/2021	81659.10	81336.30	0.00	0.00	322.80
7/30/2021	81336.30	81057.50	0.00	0.00	278.80
7/29/2021	81057.50	80780.80	0.00	0.00	276.70
7/28/2021	80780.80	80490.70	0.00	0.00	290.10
7/27/2021	80490.70	80255.60	0.00	0.00	235.10
7/26/2021	80255.60	80018.50	0.00	0.00	237.10
7/25/2021	80018.50	79776.10	0.00	0.00	242.40
7/24/2021	79776.10	79358.00	0.00	0.00	418.10
7/23/2021	79358.00	78347.70	0.00	0.00	1,010.30
7/22/2021	78347.70	77502.30	0.00	0.00	845.40
7/21/2021	77502.30	76280.70	0.00	0.00	1,221.60
7/20/2021	76280.70	75596.80	0.00	0.00	683.90
7/17/2021	75593.40	75446.10	0.00	0.00	147.30
7/8/2021	75369.40	75285.10	0.00	0.00	84.30
7/7/2021	75285.10	75075.50	0.00	0.00	209.60
7/6/2021	75075.50	74747.20	0.00	0.00	328.30
7/5/2021	74747.20	74183.00	0.00	0.00	564.20
7/4/2021	74183.00	73242.40	0.00	0.00	940.60
7/3/2021	73242.40	72438.90	0.00	0.00	803.50
7/2/2021	72438.90	71286.70	0.00	0.00	1,152.20
7/1/2021	71286.70	71012.80	0.00	0.00	273.90
6/30/2021	71012.80	70717.10	0.00	0.00	295.70
6/29/2021	70717.10	70334.00	0.00	0.00	383.10
6/28/2021	70334.00	69947.20	0.00	0.00	386.80
6/27/2021	69947.20	69055.30	0.00	0.00	891.90
6/26/2021	69055.30	68460.40	0.00	0.00	594.90
6/25/2021	68460.40	67938.30	0.00	0.00	522.10
6/24/2021	67938.30	67521.30	0.00	0.00	417.00
6/23/2021	67521.30	66561.00	0.00	0.00	960.30
6/22/2021	66561.00	65650.60	0.00	0.00	910.40
6/21/2021	65650.60	63437.80	0.00	0.00	2,212.80
6/20/2021	63437.80	62996.70	0.00	0.00	441.10
6/19/2021	62996.70	62546.00	0.00	0.00	450.70
6/18/2021	62546.00	62115.40	0.00	0.00	430.60
6/17/2021	62115.40	61379.50	0.00	0.00	735.90
6/16/2021	61379.50	60263.00	0.00	0.00	1,116.50
6/15/2021	60263.00	59836.00	0.00	0.00	427.00
6/14/2021	59836.00	59388.10	0.00	0.00	447.90
6/13/2021	59388.10	58896.30	0.00	0.00	491.80

6/12/2021	58896.30	57801.20	0.00	0.00	1,095.10
6/11/2021	57801.20	57643.70	0.00	0.00	157.50
6/10/2021	57643.70	57308.80	0.00	0.00	334.90
6/9/2021	57308.80	55893.70	0.00	0.00	1,415.10
6/8/2021	55893.70	55606.00	0.00	0.00	287.70
6/7/2021	55606.00	55184.40	0.00	0.00	421.60
6/6/2021	55184.40	54981.70	0.00	0.00	202.70
6/5/2021	54981.70	54798.40	0.00	0.00	183.30
6/4/2021	54798.40	54608.60	0.00	0.00	189.80
6/3/2021	54608.60	54393.60	0.00	0.00	215.00
6/2/2021	54393.60	54120.00	0.00	0.00	273.60
6/1/2021	54120.00	53961.10	0.00	0.00	158.90
5/31/2021	53961.10	53837.00	0.00	0.00	124.10
5/30/2021	53837.00	53705.50	0.00	0.00	131.50
5/29/2021	53705.50	53037.50	0.00	0.00	668.00
5/28/2021	53037.50	52368.20	0.00	0.00	669.30
5/27/2021	52368.20	51943.70	0.00	0.00	424.50
5/26/2021	51943.70	51780.40	0.00	0.00	163.30
5/25/2021	51780.40	50158.10	0.00	0.00	1,622.30
5/24/2021	50158.10	49521.00	0.00	0.00	637.10

[illegible]

2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2

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 201504

DEFINITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 201504
	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 201504

QUESTIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 201504
	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	[fAPP2205544395] RH CTB 2

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, 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 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	70
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	1
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 201504

QUESTIONS (continued)

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 201504
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/05/2021
Time vent or flare was discovered or commenced	02:31 AM
Time vent or flare was terminated	07:31 AM
Cumulative hours during this event	5

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: 1,621 Mcf Recovered: 0 Mcf Lost: 1,621 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	[258315] MARKWEST ENERGY OPERATING CO LLC
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	HLP due to emergency shut down of compressor station was beyond our control
Steps taken to limit the duration and magnitude of vent or flare	Curtailed production and/or shut-in wells
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Ongoing effort with downstream partners to increase reliability

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 201504

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 201504
	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.

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 201504

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 201504
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
yvonned	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.	3/28/2023