



## Certificate of Analysis

Number: 5030-22060344-004A

Midland Laboratory

2200 East I-20

Midland, TX 79706

Phone 432-689-7252

Krystle Fitzwater  
SPL  
200 E. Main St.  
Artesia, NM 88210

July 08, 2022

Station Name: PHANTOM 31 501H  
Method: GPA 2103M  
Cylinder No: 1111-001376  
Analyzed: 06/16/2022 16:17:25 by DMA

Sampled By: MICHAEL M  
Sample Of: Oil Spot  
Sample Date: 06/11/2022 10:19  
Sample Conditions: 110 psig, @ 105 °F

## Analytical Data

Components	Mol. %	MW	Wt. %	Sp. Gravity	L.V. %
Nitrogen	0.005	28.013	0.001	0.8069	0.001
Methane	3.111	16.043	0.345	0.3000	0.873
Carbon Dioxide	0.039	44.010	0.012	0.8172	0.011
Ethane	2.511	30.069	0.522	0.3563	1.112
Propane	4.081	44.096	1.244	0.5072	1.862
Iso-Butane	1.381	58.122	0.555	0.5628	0.748
n-Butane	4.886	58.122	1.963	0.5842	2.550
Iso-Pentane	2.661	72.149	1.327	0.6251	1.611
n-Pentane	4.207	72.149	2.098	0.6307	2.525
i-Hexanes	3.252	86.175	1.937	0.6641	2.214
n-Hexane	3.645	86.175	2.171	0.6641	2.481
2,2,4-Trimethylpentane	0.029	114.229	0.023	0.6964	0.025
Benzene	0.206	78.112	0.111	0.8844	0.095
Heptanes	5.483	100.202	3.798	0.6882	4.189
Toluene	1.145	92.138	0.729	0.8719	0.635
Octanes	8.983	114.229	7.093	0.7066	7.620
Ethylbenzene	0.150	106.165	0.110	0.8716	0.096
Xylenes	0.970	106.167	0.712	0.8761	0.617
Nonanes	7.005	128.255	6.210	0.7222	6.526
Decanes Plus	46.250	215.952	69.039	0.8161	64.209
	100.000		100.000		100.000

## Calculated Physical Properties

	Total	C10+
Specific Gravity at 60°F	0.7590	0.8161
API Gravity at 60°F	54.930	41.889
Molecular Weight	144.668	215.952
Pounds per Gallon (in Vacuum)	6.328	6.804
Pounds per Gallon (in Air)	6.321	6.796
Cu. Ft. Vapor per Gallon @ 14.696 psia	16.599	11.956

Data reviewed by: Marco Barrientos

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.



## Certificate of Analysis

Number: 5030-22060344-004A

Midland Laboratory

2200 East I-20

Midland, TX 79706

Phone 432-689-7252

Krystle Fitzwater  
SPL  
200 E. Main St.  
Artesia, NM 88210

July 08, 2022

Station Name: PHANTOM 31 501H  
Method: GPA 2103M  
Cylinder No: 1111-001376  
Analyzed: 06/16/2022 16:17:25 by DMA

Sampled By: MICHAEL M  
Sample Of: Oil Spot  
Sample Date: 06/11/2022 10:19  
Sample Conditions: 110 psig, @ 105 °F

## Analytical Data

Components	Mol. %	Wt. %	L.V. %
Nitrogen	0.005	0.001	0.001
Methane	3.111	0.345	0.873
Carbon Dioxide	0.039	0.012	0.011
Ethane	2.511	0.522	1.112
Propane	4.081	1.244	1.862
Iso-Butane	1.381	0.555	0.748
n-Butane	4.886	1.963	2.550
Iso-Pentane	2.661	1.327	1.611
n-Pentane	4.207	2.098	2.525
i-Hexanes	3.252	1.937	2.214
n-Hexane	3.645	2.171	2.481
2,2,4-Trimethylpentane	0.029	0.023	0.025
Benzene	0.206	0.111	0.095
Heptanes	5.483	3.798	4.189
Toluene	1.145	0.729	0.635
Octanes	8.983	7.093	7.620
Ethylbenzene	0.150	0.110	0.096
Xylenes	0.970	0.712	0.617
Nonanes	7.005	6.210	6.526
C10	7.317	6.313	6.393
C11	5.207	4.961	4.945
C12	4.480	4.677	4.600
C13	4.001	4.546	4.420
C14	3.209	3.943	3.795
C15	3.011	3.978	3.794
C16	2.076	2.960	2.796
C17	2.070	3.150	2.947
C18	1.697	2.735	2.544
C19	1.423	2.403	2.222
C20	1.173	2.072	1.905
C21	1.052	1.966	1.797
C22	0.934	1.800	1.636
C23	0.780	1.563	1.413
C24	0.700	1.456	1.310
C25	0.624	1.350	1.211
C26	0.576	1.290	1.152
C27	0.538	1.243	1.105
C28	0.451	1.078	0.955
C29	0.381	0.935	0.825
C30 Plus	4.550	14.620	12.444
	100.000	100.000	100.000



## Certificate of Analysis

Number: 5030-22060344-004A

Midland Laboratory

2200 East I-20

Midland, TX 79706

Phone 432-689-7252

Krystle Fitzwater  
SPL  
200 E. Main St.  
Artesia, NM 88210

July 08, 2022

Station Name: PHANTOM 31 501H  
Method: GPA 2103M  
Cylinder No: 1111-001376  
Analyzed: 06/16/2022 16:17:25 by DMA

Sampled By: MICHAEL M  
Sample Of: Oil Spot  
Sample Date: 06/11/2022 10:19  
Sample Conditions: 110 psig, @ 105 °F

---

Calculated Physical Properties	Total	C30+
Specific Gravity at 60°F	0.7590	0.9356
API Gravity at 60°F	54.930	19.740
Molecular Weight	144.668	500.371
Pounds per Gallon (in Vacuum)	6.328	7.800
Pounds per Gallon (in Air)	6.321	7.792
Cu. Ft. Vapor per Gallon @ 14.696 psia	16.599	5.916

Data reviewed by: Marco Barrientos

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.



## Certificate of Analysis

Number: 5030-22060344-004A

## Midland Laboratory

 2200 East I-20  
 Midland, TX 79706  
 Phone 432-689-7252

 Krystle Fitzwater  
 SPL  
 200 E. Main St.  
 Artesia, NM 88210

July 08, 2022

 Station Name: PHANTOM 31 501H  
 Method: Proprietary  
 Cylinder No: 1111-001376  
 Analyzed: 06/16/2022 by DMA

 Sampled By: MICHAEL M  
 Sample Of: Oil Spot  
 Sample Date: 06/11/2022 10:19  
 Sample Conditions: 110 psig, @ 105 °F

## Flash Liberation of Hydrocarbon Liquid Study

## Conditions

	Pressure (psig)	Temperature (°F)
Separator Hydrocarbon Liquid	110	105
Stock Tank	0.0	60
	Condition	Units/Description
Base Conditions, Pressure	14.696	psi

## Flash Liberation of Hydrocarbon Liquid Results

	Result	Units/Description
Gas Oil Ratio (GOR)	56.4	SCF flashed vapor/bbl stock tank oil
Gas Specific Gravity	1.1905	Air = 1.000
Shrinkage Factor	1.033	Separator Volume/Stock Tank Volume

## Stock Tank Fluid Properties

	Result	Units/Description
Shrinkage Factor	0.9681	Fraction of first stage separator liquid

## Cylinder Pressure Check

	Pressure (psig)	Temperature (°F)
Sample Conditions	110	105
Test Sample	14.65	67.4

## Quality Control Summary

	% Difference	Acceptable Range
Duplicate Results		
Shrink Recovery Factor (% difference)	0.1	<5%
Gas Oil Ratio (% difference)	0	<5%
Cylinder Type	Cylinder piston 500cc	

Date	Meter	Meter Type	Yesterday's Volume
2/1/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/2/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/3/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/4/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/5/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/6/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/7/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/8/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/9/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/10/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/11/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/12/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/13/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/14/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/15/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/16/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/17/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/18/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	1038
2/19/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/20/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/21/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/22/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/23/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/24/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/25/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/26/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	5
2/27/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0
2/28/2023	PHANTOM BANK BATTERY HP Flare Gas Meter	Flare Meter	0

**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 197910

DEFINITIONS

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 197910
	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 197910

**QUESTIONS**

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 197910
	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	[30-015-49332] PHANTOM BANK 31 FEDERAL COM #501H
Incident Facility	Unavailable.

**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 <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

**Equipment Involved**

Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	High Oxygen levels at gas purchaser compressor station led to high line pressure and flaring while O2 issue was resolved.

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	3
Nitrogen (N2) percentage, if greater than one percent	0
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 197910

QUESTIONS (continued)

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 197910
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/18/2023
Time vent or flare was discovered or commenced	06:12 PM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	7

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Producing Well   Natural Gas Flared   Released: 1,038 Mcf   Recovered: 0 Mcf   Lost: 1,038 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	[314437] DELAWARE BASIN MIDSTREAM, 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	No notification of emergency shut-in at gas plant.
Steps taken to limit the duration and magnitude of vent or flare	N/A
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	N/A



**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 197910

ACKNOWLEDGMENTS

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 197910
	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 197910

CONDITIONS

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 197910
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jwierzowiecki	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.	3/16/2023