



Well Name: FRED PHILLIPS E-1; BHD

API #:

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HR20230001

Cust No: 35750-10285

Well/Lease Information

Customer Name: HIGH RIVER RESOURCES, LLC
 Well Name: FRED PHILLIPS E-1; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: FRED PHILLIPS
 Formation: PICTURE CLIFF
 Cust. Stn. No.:

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 45 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 03/06/2023
 Sample Time: 10.00 AM
 Sampled By: BILL JULIAN
 Sampled by (CO): HIGHRIVER

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3983	0.3936	0.0440	0.00	0.0039
CO2	0.0052	0.0051	0.0010	0.00	0.0001
Methane	77.5960	76.6836	13.2070	783.72	0.4298
Ethane	9.2285	9.1200	2.4780	163.32	0.0958
Propane	6.6043	6.5266	1.8270	166.17	0.1006
Iso-Butane	1.5999	1.5811	0.5260	52.03	0.0321
N-Butane	2.2293	2.2031	0.7060	72.73	0.0447
I-Pentane	0.8393	0.8294	0.3080	33.58	0.0209
N-Pentane	0.5790	0.5722	0.2110	23.21	0.0144
Hexane Plus	0.9202	0.9094	0.4120	48.50	0.0305
Total	100.0000	98.8241	19.7200	1343.26	0.7727

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0042
 BTU/CU.FT IDEAL: 1346.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1352.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1328.5
 DRY BTU @ 15.025: 1379.1
 REAL SPECIFIC GRAVITY: 0.7757

CYLINDER #: 7
 CYLINDER PRESSURE: 44 PSIG
 ANALYSIS DATE: 03/07/2023
 ANALYSIS TIME: 02:38:44 PM
 ANALYSIS RUN BY: SARAH BALLARD

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 03/08/2023

GC Method: C6+ Gas



HIGH RIVER RESOURCES, LLC
WELL ANALYSIS COMPARISON

Lease: FRED PHILLIPS E-1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
PICTURE CLIFF

03/08/2023
35750-10285

Smpl Date: 03/06/2023
Test Date: 03/07/2023
Run No: HR20230001

Nitrogen: 0.3983

CO2: 0.0052

Methane: 77.5960

Ethane: 9.2285

Propane: 6.6043

I-Butane: 1.5999

N-Butane: 2.2293

I-Pentane: 0.8393

N-Pentane: 0.5790

Hexane+: 0.9202

BTU: 1352.0

GPM: 19.7200

SPG: 0.7757

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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

CONDITIONS

Action 201818

CONDITIONS

Operator: High River Resources Operating, LLC 2700 Farmington Ave FARMINGTON, NM 87401	OGRID: 328985
	Action Number: 201818
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	submit gas analysis production casing and tubing	3/30/2023