



Well Name: MCCORD B 1F; BHD
 API #: 3004534200
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021153
 Cust No: 35825-13855

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCORD B 1F; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: SF078213
 Formation:
 Cust. Stn. No.: 3004534200

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 170 PSIG
 Flow Temp: 92 DEG. F
 Ambient Temp: 92 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/26/2021
 Sample Time: 3.20 PM
 Sampled By: JACINTO C.
 Sampled by (CO): HILCORP

AREA 2 / RUN 0206

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0724	1.0621	0.1180	0.00	0.0104
CO2	0.0056	0.0055	0.0010	0.00	0.0001
Methane	82.1189	81.3286	13.9670	829.40	0.4549
Ethane	7.8497	7.7742	2.1060	138.92	0.0815
Propane	4.9013	4.8541	1.3550	123.32	0.0746
Iso-Butane	1.3143	1.3017	0.4310	42.74	0.0264
N-Butane	1.3554	1.3424	0.4290	44.22	0.0272
I-Pentane	0.5306	0.5255	0.1950	21.23	0.0132
N-Pentane	0.3612	0.3577	0.1310	14.48	0.0090
Hexane Plus	0.4906	0.4859	0.2190	25.86	0.0162
Total	100.0000	99.0377	18.9520	1240.16	0.7135

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1243.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1247.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1225.7
 DRY BTU @ 15.025: 1272.4
 REAL SPECIFIC GRAVITY: 0.7157

CYLINDER #: 6078
 CYLINDER PRESSURE: 152 PSIG
 ANALYSIS DATE: 08/03/2021
 ANALYSIS TIME: 10:45:06 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 08/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCORD B 1F; BHD
Stn. No.: 3004534200
Mtr. No.:

BRADENHEAD

08/06/2021
35825-13855

Smpl Date: 07/26/2021
Test Date: 08/03/2021
Run No: HS2021153

Nitrogen: 1.0724
CO2: 0.0056
Methane: 82.1189
Ethane: 7.8497
Propane: 4.9013
I-Butane: 1.3143
N-Butane: 1.3554
I-Pentane: 0.5306
N-Pentane: 0.3612
Hexane+: 0.4906

BTU: 1247.4
GPM: 18.9520
SPG: 0.7157



Well Name: MCCORD B 1F; CSG

API #: 3004534200

Source: CASING

Sample Type: GAS

Analysis No: HS2021154

Cust No: 35825-13860

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCORD B 1F; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: SF078213
 Formation:
 Cust. Stn. No.: 3004534200

Source: CASING
 Well Flowing: Y
 Pressure: 198 PSIG
 Flow Temp: 92 DEG. F
 Ambient Temp: 92 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/26/2021
 Sample Time: 3.27 PM
 Sampled By: JACINTO C.
 Sampled by (CO): HILCORP

AREA 2 / RUN 0206

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5677	0.5700	0.0630	0.00	0.0055
CO2	1.6243	1.6308	0.2780	0.00	0.0247
Methane	76.3456	76.6532	12.9910	771.09	0.4229
Ethane	11.3296	11.3753	3.0410	200.50	0.1176
Propane	5.6535	5.6763	1.5630	142.25	0.0861
Iso-Butane	0.8369	0.8403	0.2750	27.22	0.0168
N-Butane	1.7854	1.7926	0.5650	58.25	0.0358
I-Pentane	0.6157	0.6182	0.2260	24.63	0.0153
N-Pentane	0.5967	0.5991	0.2170	23.92	0.0149
Hexane Plus	0.6446	0.6472	0.2890	33.98	0.0213
Total	100.0000	100.4030	19.5080	1281.83	0.7609

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1284.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1289.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1267.4
 DRY BTU @ 15.025: 1315.6
 REAL SPECIFIC GRAVITY: 0.7636

CYLINDER #: 6097
 CYLINDER PRESSURE: 188 PSIG
 ANALYSIS DATE: 08/03/2021
 ANALYSIS TIME: 10:52:39 AM
 ANALYSIS RUN BY: PATRICIA KING

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: 08/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCORD B 1F; CSG
Stn. No.: 3004534200
Mtr. No.:

CASING

08/06/2021
35825-13860

Smpl Date: 07/26/2021
Test Date: 08/03/2021
Run No: HS2021154

Nitrogen: 0.5677
CO2: 1.6243
Methane: 76.3456
Ethane: 11.3296
Propane: 5.6535
I-Butane: 0.8369
N-Butane: 1.7854
I-Pentane: 0.6157
N-Pentane: 0.5967
Hexane+: 0.6446

BTU: 1289.8
GPM: 19.5080
SPG: 0.7636



Well Name: MCCORD B 1F; TBG

API #: 3004534200

Source: TUBING

Sample Type: GAS

Analysis No: HS2021155

Cust No: 35825-13865

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCORD B 1F; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: SF078213
 Formation:
 Cust. Stn. No.: 3004534200

Source: TUBING
 Well Flowing: Y
 Pressure: 189 PSIG
 Flow Temp: 92 DEG. F
 Ambient Temp: 92 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/26/2021
 Sample Time: 3.27 PM
 Sampled By: JACINTO C.
 Sampled by (CO): HILCORP

AREA 2 / RUN 0206

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5677	0.5700	0.0630	0.00	0.0055
CO2	1.6243	1.6308	0.2780	0.00	0.0247
Methane	76.3456	76.6532	12.9910	771.09	0.4229
Ethane	11.3296	11.3753	3.0410	200.50	0.1176
Propane	5.6535	5.6763	1.5630	142.25	0.0861
Iso-Butane	0.8369	0.8403	0.2750	27.22	0.0168
N-Butane	1.7854	1.7926	0.5650	58.25	0.0358
I-Pentane	0.6157	0.6182	0.2260	24.63	0.0153
N-Pentane	0.5967	0.5991	0.2170	23.92	0.0149
Hexane Plus	0.6446	0.6472	0.2890	33.98	0.0213
Total	100.0000	100.4030	19.5080	1281.83	0.7609

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1284.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1289.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1267.4
 DRY BTU @ 15.025: 1315.6
 REAL SPECIFIC GRAVITY: 0.7636

CYLINDER #: 6006
 CYLINDER PRESSURE: 174 PSIG
 ANALYSIS DATE: 08/03/2021
 ANALYSIS TIME: 11:00:00 AM
 ANALYSIS RUN BY: PATRICIA KING

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: 08/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCORD B 1F; TBG
Stn. No.: 3004534200
Mtr. No.:

TUBING

08/06/2021
35825-13865

Smpl Date: 07/26/2021
Test Date: 08/03/2021
Run No: HS2021155

Nitrogen: 0.5677
CO2: 1.6243
Methane: 76.3456
Ethane: 11.3296
Propane: 5.6535
I-Butane: 0.8369
N-Butane: 1.7854
I-Pentane: 0.6157
N-Pentane: 0.5967
Hexane+: 0.6446

BTU: 1289.8
GPM: 19.5080
SPG: 0.7636

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

COMMENTS

Action 40808

COMMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 40808
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

COMMENTS

Created By	Comment	Comment Date
mkuehling	for record	8/16/2021

District I

1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 40808

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Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 40808
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	8/16/2021