



Well Name: MCCORD B 1E; BHD
 API #: 3004525583
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021150
 Cust No: 35825-13840

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	MCCORD B 1E; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	90 PSIG
Location:		Flow Temp:	90 DEG. F
Lease/PA/CA:	SF078213	Ambient Temp:	90 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004525583	Sample Method:	Purge & Fill
		Sample Date:	07/23/2021
		Sample Time:	12.50 PM
		Sampled By:	JACINTO C.
		Sampled by (CO):	HILCORP

Heat Trace: AREA 2 / RUN 0206

Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.8062	0.3440	0.1990	0.00	0.0175
CO2	0.0299	0.0057	0.0050	0.00	0.0005
Methane	94.8917	18.0725	16.1180	958.41	0.5256
Ethane	2.1291	0.4055	0.5710	37.68	0.0221
Propane	0.6511	0.1240	0.1800	16.38	0.0099
Iso-Butane	0.2431	0.0463	0.0800	7.91	0.0049
N-Butane	0.0914	0.0174	0.0290	2.98	0.0018
I-Pentane	0.0641	0.0122	0.0230	2.56	0.0016
N-Pentane	0.0110	0.0021	0.0040	0.44	0.0003
Hexane Plus	0.0824	0.0157	0.0370	4.34	0.0027
Total	100.0000	19.0454	17.2460	1030.70	0.5869

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0022	CYLINDER #:	6108
BTU/CU.FT IDEAL:	1033.1	CYLINDER PRESSURE:	0 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1035.4	ANALYSIS DATE:	08/02/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1017.4	ANALYSIS TIME:	04:51:58 PM
DRY BTU @ 15.025:	1056.1	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.5879		

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 1E; BHD
Stn. No.: 3004525583
Mtr. No.:

BRADENHEAD

08/06/2021
35825-13840

Smpl Date: 07/23/2021
Test Date: 08/02/2021
Run No: HS2021150

Nitrogen: 1.8062
CO2: 0.0299
Methane: 94.8917
Ethane: 2.1291
Propane: 0.6511
I-Butane: 0.2431
N-Butane: 0.0914
I-Pentane: 0.0641
N-Pentane: 0.0110
Hexane+: 0.0824

BTU: 1035.4
GPM: 17.2460
SPG: 0.5879



Well Name: MCCORD B 1E; CSG

API #: 3004525583

Source: CASING

Sample Type: GAS

Analysis No: HS2021151

Cust No: 35825-13845

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCORD B 1E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: SF078213
 Formation:
 Cust. Stn. No.: 3004525583

Source: CASING
 Well Flowing: Y
 Pressure: 142 PSIG
 Flow Temp: 90 DEG. F
 Ambient Temp: 90 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/23/2021
 Sample Time: 1.00 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	0.5355	0.5186	0.0590	0.00	0.0052
CO2	1.3618	1.3187	0.2330	0.00	0.0207
Methane	77.4124	74.9624	13.1720	781.87	0.4288
Ethane	11.0482	10.6986	2.9650	195.52	0.1147
Propane	5.2455	5.0795	1.4500	131.98	0.0799
Iso-Butane	0.8062	0.7807	0.2650	26.22	0.0162
N-Butane	1.6148	1.5637	0.5110	52.68	0.0324
I-Pentane	0.5646	0.5467	0.2070	22.59	0.0141
N-Pentane	0.5285	0.5118	0.1920	21.19	0.0132
Hexane Plus	0.8825	0.8546	0.3950	46.52	0.0292
Total	100.0000	96.8353	19.4490	1278.56	0.7542

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
 BTU/CU.FT IDEAL: 1281.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1286.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1264.1
 DRY BTU @ 15.025: 1312.3
 REAL SPECIFIC GRAVITY: 0.7569

CYLINDER #: 4040
 CYLINDER PRESSURE: 114 PSIG
 ANALYSIS DATE: 08/03/2021
 ANALYSIS TIME: 09:52:33 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 1E; CSG
Stn. No.: 3004525583
Mtr. No.:

CASING

08/06/2021
35825-13845

Smpl Date: 07/23/2021
Test Date: 08/03/2021
Run No: HS2021151

Nitrogen: 0.5355
CO2: 1.3618
Methane: 77.4124
Ethane: 11.0482
Propane: 5.2455
I-Butane: 0.8062
N-Butane: 1.6148
I-Pentane: 0.5646
N-Pentane: 0.5285
Hexane+: 0.8825

BTU: 1286.5
GPM: 19.4490
SPG: 0.7569



Well Name: MCCORD B 1E; TBG

API #: 3004525583

Source: TUBING

Sample Type: GAS

Analysis No: HS2021152

Cust No: 35825-13850

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCORD B 1E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: SF078213
 Formation:
 Cust. Stn. No.: 3004525583

Source: TUBING
 Well Flowing: Y
 Pressure: 138 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/23/2021
 Sample Time: 12.55 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	0.5734	0.5756	0.0630	0.00	0.0055
CO2	1.4365	1.4419	0.2460	0.00	0.0218
Methane	78.8137	79.1124	13.4060	796.02	0.4365
Ethane	10.7518	10.7925	2.8850	190.27	0.1116
Propane	4.9068	4.9254	1.3560	123.46	0.0747
Iso-Butane	0.7198	0.7225	0.2360	23.41	0.0144
N-Butane	1.3853	1.3905	0.4380	45.19	0.0278
I-Pentane	0.4252	0.4268	0.1560	17.01	0.0106
N-Pentane	0.3892	0.3907	0.1420	15.60	0.0097
Hexane Plus	0.5983	0.6006	0.2680	31.54	0.0198
Total	100.0000	100.3789	19.1960	1242.50	0.7326

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1245.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1249.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1228.2
 DRY BTU @ 15.025: 1274.9
 REAL SPECIFIC GRAVITY: 0.7349

CYLINDER #: 5005
 CYLINDER PRESSURE: 137 PSIG
 ANALYSIS DATE: 08/03/2021
 ANALYSIS TIME: 09:59:55 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 1E; TBG
Stn. No.: 3004525583
Mtr. No.:

TUBING

08/06/2021
35825-13850

Smpl Date: 07/23/2021
Test Date: 08/03/2021
Run No: HS2021152

Nitrogen: 0.5734
CO2: 1.4365
Methane: 78.8137
Ethane: 10.7518
Propane: 4.9068
I-Butane: 0.7198
N-Butane: 1.3853
I-Pentane: 0.4252
N-Pentane: 0.3892
Hexane+: 0.5983

BTU: 1249.9
GPM: 19.1960
SPG: 0.7349

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
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District III
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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 40975

COMMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 40975
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

COMMENTS

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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CONDITIONS

Action 40975

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 40975
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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