



Well Name: MCCORD 14E; BHD

API #: 3004526747

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS2021209

Cust No: 35825-13935

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: MCCORD 14E; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NM-030555

Formation: DK

Cust. Stn. No.: 3004526747

92012-01

AREA 2 / RUN 0205

Heat Trace:

Remarks:

Source: BRADENHEAD

Well Flowing: Y

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 08/20/2021

Sample Time: 4.30 PM

Sampled By: JOHN RUSSELL

Sampled by (CO):

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1319	0.1301	0.0150	0.00	0.0013
CO2	0.0122	0.0120	0.0020	0.00	0.0002
Methane	99.1057	97.7253	16.8310	1000.97	0.5489
Ethane	0.6209	0.6123	0.1660	10.99	0.0064
Propane	0.0613	0.0604	0.0170	1.54	0.0009
Iso-Butane	0.0152	0.0150	0.0050	0.49	0.0003
N-Butane	0.0195	0.0192	0.0060	0.64	0.0004
I-Pentane	0.0063	0.0062	0.0020	0.25	0.0002
N-Pentane	0.0040	0.0039	0.0010	0.16	0.0001
Hexane Plus	0.0230	0.0227	0.0100	1.21	0.0008
Total	100.0000	98.6071	17.0550	1016.25	0.5595

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 1018.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1020.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1002.8
 DRY BTU @ 15.025: 1041.0
 REAL SPECIFIC GRAVITY: 0.5604

CYLINDER #: 6122
 CYLINDER PRESSURE: 53 PSIG
 ANALYSIS DATE: 09/02/2021
 ANALYSIS TIME: 11:23:16 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 09/07/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCORD 14E; BHD	BRADENHEAD	09/07/2021
Stn. No.:	3004526747	DK	35825-13935
Mtr. No.:	92012-01		

Smpl Date: 08/20/2021
Test Date: 09/02/2021
Run No: HS2021209

Nitrogen: 0.1319
CO2: 0.0122
Methane: 99.1057
Ethane: 0.6209
Propane: 0.0613
I-Butane: 0.0152
N-Butane: 0.0195
I-Pentane: 0.0063
N-Pentane: 0.0040
Hexane+: 0.0230

BTU: 1020.6
GPM: 17.0550
SPG: 0.5604



Well Name: MCCORD 14E; CSG

API #: 3004526747

Source: CASING

Sample Type: GAS

Analysis No: HS2021210

Cust No: 35825-13940

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: MCCORD 14E; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NM-030555

Formation: DK

Cust. Stn. No.: 3004526747

92012-01

AREA 2 / RUN 0205

Heat Trace:

Remarks:

Source: CASING

Well Flowing: Y

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 08/20/2021

Sample Time: 4.30 PM

Sampled By: JOHN RUSSELL

Sampled by (CO):

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4830	0.4814	0.0530	0.00	0.0047
CO2	1.5560	1.5509	0.2660	0.00	0.0236
Methane	77.9484	77.6924	13.2610	787.28	0.4318
Ethane	11.1744	11.1377	2.9990	197.75	0.1160
Propane	4.8714	4.8554	1.3470	122.57	0.0742
Iso-Butane	0.7642	0.7617	0.2510	24.85	0.0153
N-Butane	1.3289	1.3245	0.4200	43.35	0.0267
I-Pentane	0.4697	0.4682	0.1720	18.79	0.0117
N-Pentane	0.3844	0.3831	0.1400	15.41	0.0096
Hexane Plus	1.0196	1.0163	0.4560	53.74	0.0337
Total	100.0000	99.6716	19.3650	1263.75	0.7473

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1266.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1271.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1249.4
 DRY BTU @ 15.025: 1297.0
 REAL SPECIFIC GRAVITY: 0.7498

CYLINDER #: 4050
 CYLINDER PRESSURE: 91 PSIG
 ANALYSIS DATE: 09/02/2021
 ANALYSIS TIME: 11:04:57 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 09/07/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCORD 14E; CSG
Stn. No.: 3004526747
Mtr. No.: 92012-01

CASING
DK

09/07/2021
35825-13940

Smpl Date: 08/20/2021
Test Date: 09/02/2021
Run No: HS2021210

Nitrogen: 0.4830
CO2: 1.5560
Methane: 77.9484
Ethane: 11.1744
Propane: 4.8714
I-Butane: 0.7642
N-Butane: 1.3289
I-Pentane: 0.4697
N-Pentane: 0.3844
Hexane+: 1.0196

BTU: 1271.5
GPM: 19.3650
SPG: 0.7498



Well Name: MCCORD 14E; TBG

API #: 3004526747

Source: TUBING

Sample Type: GAS

Analysis No: HS2021211

Cust No: 35825-13945

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: MCCORD 14E; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NM-030555

Formation: DK

Cust. Stn. No.: 3004526747

92012-01

AREA 2 / RUN 0205

Heat Trace:

Remarks:

Source: TUBING

Well Flowing: Y

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 08/20/2021

Sample Time: 4.30 PM

Sampled By: JOHN RUSSELL

Sampled by (CO):

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4904	0.4884	0.0540	0.00	0.0047
CO2	1.5310	1.5246	0.2620	0.00	0.0233
Methane	78.2983	77.9729	13.3210	790.81	0.4337
Ethane	11.1219	11.0757	2.9850	196.82	0.1155
Propane	4.8259	4.8058	1.3340	121.42	0.0735
Iso-Butane	0.7506	0.7475	0.2460	24.41	0.0151
N-Butane	1.3021	1.2967	0.4120	42.48	0.0261
I-Pentane	0.4271	0.4253	0.1570	17.09	0.0106
N-Pentane	0.3785	0.3769	0.1380	15.17	0.0094
Hexane Plus	0.8742	0.8706	0.3910	46.08	0.0289
Total	100.0000	99.5844	19.3000	1254.29	0.7408

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1257.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1261.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1239.9
 DRY BTU @ 15.025: 1287.2
 REAL SPECIFIC GRAVITY: 0.7433

CYLINDER #: 4011
 CYLINDER PRESSURE: 81 PSIG
 ANALYSIS DATE: 09/02/2021
 ANALYSIS TIME: 10:46:28 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 09/07/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCORD 14E; TBG	TUBING	09/07/2021
Stn. No.:	3004526747	DK	35825-13945
Mtr. No.:	92012-01		

Smpl Date: 08/20/2021
Test Date: 09/02/2021
Run No: HS2021211

Nitrogen: 0.4904
CO2: 1.5310
Methane: 78.2983
Ethane: 11.1219
Propane: 4.8259
I-Butane: 0.7506
N-Butane: 1.3021
I-Pentane: 0.4271
N-Pentane: 0.3785
Hexane+: 0.8742

BTU: 1261.9
GPM: 19.3000
SPG: 0.7433

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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 46674

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 46674
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	10/18/2021