



Well Name: BECK 1S; BHD

API #: 3004533811

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20240201

Cust No: 35825-16160

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: BECK 1S; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: WIH36719
 Formation:
 Cust. Stn. No.: 3004533811

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 7 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/14/2024
 Sample Time: 11.52 AM
 Sampled By: STEVE W.
 Sampled by (CO): HILCORP

Heat Trace: N
 AREA 2 / RUN 0210

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0804	0.0188	0.0090	0.00	0.0008
CO2	0.6273	0.1466	0.1070	0.00	0.0095
Methane	97.1296	22.6990	16.4970	981.01	0.5380
Ethane	2.1271	0.4971	0.5700	37.64	0.0221
Propane	0.0137	0.0032	0.0040	0.34	0.0002
Iso-Butane	0.0056	0.0013	0.0020	0.18	0.0001
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0163	0.0038	0.0070	0.86	0.0005
Total	100.0000	23.3698	17.1960	1020.04	0.5713

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 1022.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1024.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1006.7
 DRY BTU @ 15.025: 1045.0
 REAL SPECIFIC GRAVITY: 0.5722

CYLINDER #: 2117
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 08/14/2024
 ANALYSIS TIME: 11:53:24 AM
 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: 08/15/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	BECK 1S; BHD	BRADENHEAD	08/15/2024
Stn. No.:	3004533811		35825-16160
Mtr. No.:			

Smpl Date: 08/14/2024
Test Date: 08/14/2024
Run No: HS20240201

Nitrogen:	0.0804
CO2:	0.6273
Methane:	97.1296
Ethane:	2.1271
Propane:	0.0137
I-Butane:	0.0056
N-Butane:	0.0000
I-Pentane:	0.0000
N-Pentane:	0.0000
Hexane+:	0.0163
BTU:	1024.5
GPM:	17.1960
SPG:	0.5722



Well Name: BECK 1S; CSG

API #: 3004533811

Source: CASING

Sample Type: GAS

Analysis No: HS20240202

Cust No: 35825-16165

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: BECK 1S; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: WIH36719
 Formation:
 Cust. Stn. No.: 3004533811

Source: CASING
 Well Flowing: Y
 Pressure: 7 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 82 DEG. F
 Flow Rate: 60 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/08/2024
 Sample Time: 11.00 AM
 Sampled By: STEVE W.
 Sampled by (CO): HILCORP

Heat Trace: N
 AREA 2 / RUN 0210

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2184	0.0795	0.0240	0.00	0.0021
CO2	0.7281	0.2650	0.1240	0.00	0.0111
Methane	96.6375	35.1703	16.4130	976.04	0.5353
Ethane	2.2278	0.8108	0.5970	39.43	0.0231
Propane	0.0365	0.0133	0.0100	0.92	0.0006
Iso-Butane	0.0091	0.0033	0.0030	0.30	0.0002
N-Butane	0.0124	0.0045	0.0040	0.40	0.0002
I-Pentane	0.0044	0.0016	0.0020	0.18	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.1258	0.0458	0.0560	6.63	0.0042
Total	100.0000	36.3941	17.2330	1023.89	0.5768

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 1026.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1028.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1010.5
 DRY BTU @ 15.025: 1049.0
 REAL SPECIFIC GRAVITY: 0.5778

CYLINDER #: 1475
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 08/14/2024
 ANALYSIS TIME: 11:37:08 AM
 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: 08/15/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	BECK 1S; CSG	CASING	08/15/2024
Stn. No.:	3004533811		35825-16165
Mtr. No.:			

Smpl Date:	08/08/2024
Test Date:	08/14/2024
Run No:	HS20240202
Nitrogen:	0.2184
CO2:	0.7281
Methane:	96.6375
Ethane:	2.2278
Propane:	0.0365
I-Butane:	0.0091
N-Butane:	0.0124
I-Pentane:	0.0044
N-Pentane:	0.0000
Hexane+:	0.1258
BTU:	1028.4
GPM:	17.2330
SPG:	0.5778



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HS20240203
Cust No: 35825-16170

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	METER RUN
Well Name:	BECK 1S; TBG	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	12 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	WIH36719	Ambient Temp:	82 DEG. F
Formation:		Flow Rate:	60 MCF/D
Cust. Stn. No.:	3004533811	Sample Method:	Purge & Fill
		Sample Date:	08/08/2024
		Sample Time:	11.00 AM
		Sampled By:	STEVE W.
		Sampled by (CO):	HILCORP

Heat Trace: AREA 2 / RUN 0210

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1797	0.0545	0.0200	0.00	0.0017
CO2	0.3047	0.0924	0.0520	0.00	0.0046
Methane	96.7722	29.3481	16.4360	977.40	0.5360
Ethane	2.6804	0.8129	0.7180	47.44	0.0278
Propane	0.0185	0.0056	0.0050	0.47	0.0003
Iso-Butane	0.0023	0.0007	0.0010	0.07	0.0000
N-Butane	0.0043	0.0013	0.0010	0.14	0.0001
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0379	0.0115	0.0170	2.00	0.0013
Total	100.0000	30.3270	17.2500	1027.51	0.5719

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0021	CYLINDER #:	7069
BTU/CU.FT IDEAL:	1029.9	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1032.1	ANALYSIS DATE:	08/14/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1014.1	ANALYSIS TIME:	11:44:20 AM
DRY BTU @ 15.025:	1052.8	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.5729		

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: 08/15/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	BECK 1S; TBG	METER RUN	08/15/2024
Stn. No.:	3004533811		35825-16170
Mtr. No.:			

Smpl Date:	08/08/2024
Test Date:	08/14/2024
Run No:	HS20240203
Nitrogen:	0.1797
CO2:	0.3047
Methane:	96.7722
Ethane:	2.6804
Propane:	0.0185
I-Butane:	0.0023
N-Butane:	0.0043
I-Pentane:	0.0000
N-Pentane:	0.0000
Hexane+:	0.0379
BTU:	1032.1
GPM:	17.2500
SPG:	0.5729

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 374267

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 374267
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas bradenhead and production casing	8/26/2024