



Well Name: SAN JUAN 28-5 #65; BHD

API #: 7352601

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20250018

Cust No: 35825-16285

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SAN JUAN 28-5 #65; BHD

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: MV/DK

Cust. Stn. No.: 7352601

30-039-07309

AREA 13 / RUN 1309

Heat Trace:

Remarks:

Source: BRADENHEAD

Well Flowing:

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: 37 DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 04/03/2025

Sample Time: 10.50 AM

Sampled By: ROBIN DANEK

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0716	1.0767	0.1180	0.00	0.0104
CO2	0.8064	0.8102	0.1380	0.00	0.0123
Methane	82.7205	83.1117	14.0680	835.48	0.4582
Ethane	7.9763	8.0140	2.1400	141.16	0.0828
Propane	3.8737	3.8920	1.0710	97.47	0.0590
Iso-Butane	0.5194	0.5219	0.1710	16.89	0.0104
N-Butane	1.3817	1.3882	0.4370	45.08	0.0277
I-Pentane	0.3421	0.3437	0.1260	13.69	0.0085
N-Pentane	0.3258	0.3273	0.1180	13.06	0.0081
Hexane Plus	0.9825	0.9871	0.4400	51.79	0.0325
Total	100.0000	100.4728	18.8270	1214.60	0.7099

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1217.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1221.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1200.3
 DRY BTU @ 15.025: 1246.1
 REAL SPECIFIC GRAVITY: 0.712

CYLINDER #: 7078
 CYLINDER PRESSURE: 26 PSIG
 ANALYSIS DATE: 04/10/2025
 ANALYSIS TIME: 01:12:10 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: 04/16/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-5 #65; BHD
Stn. No.: 7352601
Mtr. No.: 30-039-07309

BRADENHEAD
MV/DK

04/16/2025
35825-16285

Smpl Date: 04/03/2025
Test Date: 04/10/2025
Run No: HS20250018

Nitrogen: 1.0716
CO2: 0.8064
Methane: 82.7205
Ethane: 7.9763
Propane: 3.8737
I-Butane: 0.5194
N-Butane: 1.3817
I-Pentane: 0.3421
N-Pentane: 0.3258
Hexane+: 0.9825

BTU: 1221.6
GPM: 18.8270
SPG: 0.7120



Well Name: SAN JUAN 28-5 #65; CSG

API #: 7352601

Source: CASING

Sample Type: GAS

Analysis No: HS20250019

Cust No: 35825-16290

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SAN JUAN 28-5 #65; CSG

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: MV/DK

Cust. Stn. No.: 7352601

30-039-07309

AREA 13 / RUN 1309

Heat Trace:

Remarks:

Source: CASING

Well Flowing:

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: 37 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/03/2025

Sample Time: 10.50 AM

Sampled By: ROBIN DANEK

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9064	0.9099	0.1000	0.00	0.0088
CO2	0.5290	0.5310	0.0910	0.00	0.0080
Methane	83.4774	83.7955	14.1950	843.12	0.4624
Ethane	7.8255	7.8553	2.0990	138.49	0.0812
Propane	3.8968	3.9116	1.0770	98.05	0.0593
Iso-Butane	0.4696	0.4714	0.1540	15.27	0.0094
N-Butane	1.3628	1.3680	0.4310	44.46	0.0273
I-Pentane	0.3491	0.3504	0.1280	13.97	0.0087
N-Pentane	0.3501	0.3514	0.1270	14.03	0.0087
Hexane Plus	0.8333	0.8365	0.3730	43.92	0.0276
Total	100.0000	100.3810	18.7750	1211.31	0.7015

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1214.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1218.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1196.9
 DRY BTU @ 15.025: 1242.5
 REAL SPECIFIC GRAVITY: 0.7036

CYLINDER #: 1040
 CYLINDER PRESSURE: 19 PSIG
 ANALYSIS DATE: 04/10/2025
 ANALYSIS TIME: 12:37:47 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: 04/16/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-5 #65; CSG
Stn. No.: 7352601
Mtr. No.: 30-039-07309

CASING
MV/DK

04/16/2025
35825-16290

Smpl Date: 04/03/2025
Test Date: 04/10/2025
Run No: HS20250019

Nitrogen: 0.9064
CO2: 0.5290
Methane: 83.4774
Ethane: 7.8255
Propane: 3.8968
I-Butane: 0.4696
N-Butane: 1.3628
I-Pentane: 0.3491
N-Pentane: 0.3501
Hexane+: 0.8333

BTU: 1218.1
GPM: 18.7750
SPG: 0.7036



Well Name: SAN JUAN 28-5 #65; TBG

API #: 7352601

Source: TUBING

Sample Type: GAS

Analysis No: HS20250020

Cust No: 35825-16295

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SAN JUAN 28-5 #65; TBG

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: MV/DK

Cust. Stn. No.: 7352601
3003907309

AREA 13 / RUN 1309

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Source: TUBING

Well Flowing:

Pressure: PSIA

Flow Temp: DEG. F

Ambient Temp: 37 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/03/2025

Sample Time: 10.50 AM

Sampled By: ROBIN DAMEK

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1478	0.0834	0.0160	0.00	0.0014
CO2	1.5194	0.8574	0.2600	0.00	0.0231
Methane	86.4123	48.7642	14.6900	872.76	0.4786
Ethane	6.7164	3.7902	1.8010	118.86	0.0697
Propane	2.7013	1.5244	0.7460	67.97	0.0411
Iso-Butane	0.5435	0.3067	0.1780	17.67	0.0109
N-Butane	0.9433	0.5323	0.2980	30.77	0.0189
I-Pentane	0.2679	0.1512	0.0980	10.72	0.0067
N-Pentane	0.1327	0.0749	0.0480	5.32	0.0033
Hexane Plus	0.6154	0.3473	0.2750	32.44	0.0204
Total	100.0000	56.4320	18.4100	1156.52	0.6742

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1159.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1162.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1142.5
 DRY BTU @ 15.025: 1186.0
 REAL SPECIFIC GRAVITY: 0.676

CYLINDER #: 114
 CYLINDER PRESSURE: 14 PSIG
 ANALYSIS DATE: 04/10/2025
 ANALYSIS TIME: 12:24:12 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: 04/16/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-5 #65; TBG
Stn. No.: 7352601
Mtr. No.: 3003907309

TUBING
MV/DK

04/16/2025
35825-16295

Smpl Date: 04/03/2025
Test Date: 04/10/2025
Run No: HS20250020

Nitrogen: 0.1478
CO2: 1.5194
Methane: 86.4123
Ethane: 6.7164
Propane: 2.7013
I-Butane: 0.5435
N-Butane: 0.9433
I-Pentane: 0.2679
N-Pentane: 0.1327
Hexane+: 0.6154

BTU: 1162.7
GPM: 18.4100
SPG: 0.6760

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 452798

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 452798
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	appears to be same gas on bradenhead and production casing	5/1/2025