



Well Name: STATE N 1M; BHD
 API #: 3004525419
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20250056
 Cust No: 35825-14845

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: BRADENHEAD
Well Name: STATE N 1M; BHD	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 61 PSIG
Location:	Flow Temp: 85 DEG. F
Lease/PA/CA: E10405	Ambient Temp: 83 DEG. F
Formation:	Flow Rate: 0 MCF/D
Cust. Stn. No.: 3004525419	Sample Method: Purge & Fill
94827	Sample Date: 06/12/2025
AREA 8 / RUN 0804	Sample Time: 10.52 AM
Heat Trace: N	Sampled By: BRIAN EVERTT
Remarks:	Sampled by (CO): HILCORP

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9647	0.9578	0.1060	0.00	0.0093
CO2	0.0097	0.0096	0.0020	0.00	0.0001
Methane	87.2396	86.6132	14.8290	881.12	0.4832
Ethane	6.3944	6.3485	1.7150	113.16	0.0664
Propane	3.1691	3.1463	0.8750	79.74	0.0482
Iso-Butane	0.7132	0.7081	0.2340	23.19	0.0143
N-Butane	0.7940	0.7883	0.2510	25.90	0.0159
I-Pentane	0.2657	0.2638	0.0970	10.63	0.0066
N-Pentane	0.1855	0.1842	0.0670	7.44	0.0046
Hexane Plus	0.2641	0.2622	0.1180	13.92	0.0087
Total	100.0000	99.2820	18.2940	1155.10	0.6576

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	1851
BTU/CU.FT IDEAL:	1157.8	CYLINDER PRESSURE:	33 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1161.1	ANALYSIS DATE:	06/18/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1140.9	ANALYSIS TIME:	02:22:38 PM
DRY BTU @ 15.025:	1184.4	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6592		

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: 06/25/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	STATE N 1M; BHD	BRADENHEAD	06/25/2025
Stn. No.:	3004525419		35825-14845
Mtr. No.:	94827		

Smpl Date:	06/12/2025	06/05/2023
Test Date:	06/18/2025	06/07/2023
Run No:	HS20250056	HS20230052
Nitrogen:	0.9647	0.9309
CO2:	0.0097	0.0119
Methane:	87.2396	87.6980
Ethane:	6.3944	6.2633
Propane:	3.1691	3.2034
I-Butane:	0.7132	0.5618
N-Butane:	0.7940	0.6544
I-Pentane:	0.2657	0.2639
N-Pentane:	0.1855	0.1816
Hexane+:	0.2641	0.2308
BTU:	1161.1	1152.7
GPM:	18.2940	18.2310
SPG:	0.6592	0.6535



Well Name: STATE N 1M; CSG
 API #: 3004525419
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20250057
 Cust No: 35825-14850

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: CASING
Well Name: STATE N 1M; CSG	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 61 PSIG
Location:	Flow Temp: 85 DEG. F
Lease/PA/CA: E10405	Ambient Temp: 83 DEG. F
Formation:	Flow Rate: 0 MCF/D
Cust. Stn. No.: 3004525419	Sample Method: Purge & Fill
94827	Sample Date: 06/12/2025
AREA 8 / RUN 0804	Sample Time: 10.52 AM
Heat Trace: N	Sampled By: BRIAN EVERETT
Remarks:	Sampled by (CO): HILCORP

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6862	0.6868	0.0760	0.00	0.0066
CO2	0.6269	0.6275	0.1070	0.00	0.0095
Methane	79.1537	79.2288	13.4680	799.45	0.4384
Ethane	8.3355	8.3434	2.2370	147.51	0.0865
Propane	6.3573	6.3633	1.7580	159.96	0.0968
Iso-Butane	1.5839	1.5854	0.5200	51.51	0.0318
N-Butane	1.3926	1.3939	0.4410	45.43	0.0279
I-Pentane	0.4750	0.4754	0.1740	19.00	0.0118
N-Pentane	0.3034	0.3037	0.1100	12.16	0.0076
Hexane Plus	1.0855	1.0865	0.4860	57.22	0.0359
Total	100.0000	100.0947	19.3770	1292.24	0.7530

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0039	CYLINDER #:	1922
BTU/CU.FT IDEAL:	1295.2	CYLINDER PRESSURE:	97 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1300.3	ANALYSIS DATE:	06/18/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1277.7	ANALYSIS TIME:	02:40:27 PM
DRY BTU @ 15.025:	1326.3	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7556		

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: 06/25/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	STATE N 1M; CSG	CASING	06/25/2025
Stn. No.:	3004525419		35825-14850
Mtr. No.:	94827		

Smpl Date:	06/12/2025	06/05/2023
Test Date:	06/18/2025	06/07/2023
Run No:	HS20250057	HS20230053
Nitrogen:	0.6862	0.4137
CO2:	0.6269	0.5904
Methane:	79.1537	75.0321
Ethane:	8.3355	10.7925
Propane:	6.3573	7.7020
I-Butane:	1.5839	1.7706
N-Butane:	1.3926	1.7826
I-Pentane:	0.4750	0.6138
N-Pentane:	0.3034	0.4266
Hexane+:	1.0855	0.8757
BTU:	1300.3	1355.1
GPM:	19.3770	19.8650
SPG:	0.7556	0.7872



Well Name: STATE N 1M; TBG
 API #: 3004525419
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20250058
 Cust No: 35825-14855

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: TUBING
Well Name: STATE N 1M; TBG	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 61 PSIG
Location:	Flow Temp: 85 DEG. F
Lease/PA/CA: E10405	Ambient Temp: 83 DEG. F
Formation:	Flow Rate: 0 MCF/D
Cust. Stn. No.: 3004525419	Sample Method: Purge & Fill
94827	Sample Date: 06/12/2025
AREA 8 / RUN 0804	Sample Time: 10.52 AM
Heat Trace: N	Sampled By: BRIAN EVERETT
Remarks:	Sampled by (CO): HILCORP

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3508	0.3518	0.0390	0.00	0.0034
CO2	0.8450	0.8475	0.1450	0.00	0.0128
Methane	76.2456	76.4726	12.9740	770.08	0.4223
Ethane	12.2943	12.3309	3.3000	217.57	0.1276
Propane	5.9670	5.9848	1.6500	150.14	0.0908
Iso-Butane	0.9991	1.0021	0.3280	32.49	0.0200
N-Butane	1.6166	1.6214	0.5120	52.74	0.0324
I-Pentane	0.5388	0.5404	0.1980	21.56	0.0134
N-Pentane	0.4124	0.4136	0.1500	16.53	0.0103
Hexane Plus	0.7304	0.7326	0.3270	38.50	0.0242
Total	100.0000	100.2977	19.6230	1299.61	0.7574

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.004	CYLINDER #:	2030
BTU/CU.FT IDEAL:	1302.6	CYLINDER PRESSURE:	61 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1307.8	ANALYSIS DATE:	06/18/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1285.0	ANALYSIS TIME:	02:31:44 PM
DRY BTU @ 15.025:	1334.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7601		

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: 06/25/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	STATE N 1M; TBG	TUBING	06/25/2025
Stn. No.:	3004525419		35825-14855
Mtr. No.:	94827		

Smpl Date:	06/12/2025	06/05/2023
Test Date:	06/18/2025	06/07/2023
Run No:	HS20250058	HS20230054
Nitrogen:	0.3508	0.3573
CO2:	0.8450	0.7770
Methane:	76.2456	76.0185
Ethane:	12.2943	11.7864
Propane:	5.9670	6.5584
I-Butane:	0.9991	1.2406
N-Butane:	1.6166	1.6221
I-Pentane:	0.5388	0.5369
N-Pentane:	0.4124	0.3903
Hexane+:	0.7304	0.7125
BTU:	1307.8	1317.6
GPM:	19.6230	19.6660
SPG:	0.7601	0.7654

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Online Phone Directory
<https://www.emnrd.nm.gov/ocd/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 479077

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 479077
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Accepted for record	4/9/2026