



Well Name: REID 1; BHD
 API #: 3004510696
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230030
 Cust No: 35825-14785

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	REID 1; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	31 PSIG
Location:		Flow Temp:	85 DEG. F
Lease/PA/CA:		Ambient Temp:	68 DEG. F
Formation:		Flow Rate:	10 MCF/D
Cust. Stn. No.:	3004510696	Sample Method:	Purge & Fill
	3221030	Sample Date:	05/09/2023
	AREA 02 / RUN 0203	Sample Time:	11.00 AM
Heat Trace:	N	Sampled By:	SHAWN FINCHER
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.6765	2.5143	0.2950	0.00	0.0259
CO2	0.0159	0.0149	0.0030	0.00	0.0002
Methane	86.4367	81.1988	14.6910	873.01	0.4788
Ethane	5.4329	5.1037	1.4570	96.15	0.0564
Propane	3.1270	2.9375	0.8640	78.68	0.0476
Iso-Butane	0.7740	0.7271	0.2540	25.17	0.0155
N-Butane	0.7993	0.7509	0.2530	26.08	0.0160
I-Pentane	0.3021	0.2838	0.1110	12.09	0.0075
N-Pentane	0.1779	0.1671	0.0650	7.13	0.0044
Hexane Plus	0.2577	0.2421	0.1150	13.58	0.0085
Total	100.0000	93.9402	18.1080	1131.88	0.6610

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0028	CYLINDER #:	6081
BTU/CU.FT IDEAL:	1134.5	CYLINDER PRESSURE:	32 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1137.7	ANALYSIS DATE:	05/12/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1117.9	ANALYSIS TIME:	09:15:14 AM
DRY BTU @ 15.025:	1160.5	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6626		

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: 05/18/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	REID 1; BHD	BRADENHEAD	05/18/2023
Stn. No.:	3004510696		35825-14785
Mtr. No.:	3221030		

Smpl Date: 05/09/2023
Test Date: 05/12/2023
Run No: HS20230030

Nitrogen: 2.6765
CO2: 0.0159
Methane: 86.4367
Ethane: 5.4329
Propane: 3.1270
I-Butane: 0.7740
N-Butane: 0.7993
I-Pentane: 0.3021
N-Pentane: 0.1779
Hexane+: 0.2577

BTU: 1137.7
GPM: 18.1080
SPG: 0.6626



Well Name: REID 1; CSG

API #: 3004510696

Source: CASING

Sample Type: GAS

Analysis No: HS20230031

Cust No: 35825-14790

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: REID 1; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: SF - 078243
 Formation:
 Cust. Stn. No.: 3004510696

Source: CASING
 Well Flowing: Y
 Pressure: 163 PSIG
 Flow Temp: 85 DEG. F
 Ambient Temp: 68 DEG. F
 Flow Rate: 10 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/09/2023
 Sample Time: 11.00 AM
 Sampled By: SHAWN FINCHER
 Sampled by (CO): HILCORP

AREA 02 / RUN 0203

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2285	0.2240	0.0250	0.00	0.0022
CO2	0.4174	0.4091	0.0710	0.00	0.0063
Methane	82.0009	80.3777	13.9470	828.21	0.4542
Ethane	9.4190	9.2326	2.5270	166.69	0.0978
Propane	4.5264	4.4368	1.2510	113.89	0.0689
Iso-Butane	0.9457	0.9270	0.3100	30.75	0.0190
N-Butane	1.1674	1.1443	0.3690	38.08	0.0234
I-Pentane	0.4300	0.4215	0.1580	17.20	0.0107
N-Pentane	0.2952	0.2894	0.1070	11.83	0.0074
Hexane Plus	0.5695	0.5582	0.2550	30.02	0.0188
Total	100.0000	98.0206	19.0200	1236.68	0.7088

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1239.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1243.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1222.3
 DRY BTU @ 15.025: 1268.8
 REAL SPECIFIC GRAVITY: 0.711

CYLINDER #: 6112
 CYLINDER PRESSURE: 118 PSIG
 ANALYSIS DATE: 05/12/2023
 ANALYSIS TIME: 08:59:37 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 05/18/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	REID 1; CSG	CASING	05/18/2023
Stn. No.:	3004510696		35825-14790
Mtr. No.:			

Smpl Date:	05/09/2023
Test Date:	05/12/2023
Run No:	HS20230031

Nitrogen:	0.2285
CO2:	0.4174
Methane:	82.0009
Ethane:	9.4190
Propane:	4.5264
I-Butane:	0.9457
N-Butane:	1.1674
I-Pentane:	0.4300
N-Pentane:	0.2952
Hexane+:	0.5695
BTU:	1243.9
GPM:	19.0200
SPG:	0.7110



Well Name: REID 1; TBG

API #: 3004510696

Source: TUBING

Sample Type: GAS

Analysis No: HS20230032

Cust No: 35825-14800

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: REID 1; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: SF - 078243

Formation:

Cust. Stn. No.: 3004510696
3221030

AREA 02 / RUN 0203

Heat Trace: N

Remarks:

Source: TUBING

Well Flowing: Y

Pressure: 61 PSIG

Flow Temp: 85 DEG. F

Ambient Temp: 68 DEG. F

Flow Rate: 10 MCF/D

Sample Method: Purge & Fill

Sample Date: 05/09/2023

Sample Time: 11.00 AM

Sampled By: SHAWN FINCHER

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1653	0.1620	0.0180	0.00	0.0016
CO2	0.6377	0.6249	0.1090	0.00	0.0097
Methane	82.2056	80.5585	13.9800	830.28	0.4553
Ethane	10.4052	10.1967	2.7910	184.14	0.1080
Propane	3.7493	3.6742	1.0360	94.34	0.0571
Iso-Butane	0.6783	0.6647	0.2230	22.06	0.0136
N-Butane	0.8936	0.8757	0.2830	29.15	0.0179
I-Pentane	0.3265	0.3200	0.1200	13.06	0.0081
N-Pentane	0.2151	0.2108	0.0780	8.62	0.0054
Hexane Plus	0.7234	0.7089	0.3240	38.13	0.0239
Total	100.0000	97.9964	18.9620	1219.78	0.7007

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1222.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1226.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1205.5
 DRY BTU @ 15.025: 1251.4
 REAL SPECIFIC GRAVITY: 0.7028

CYLINDER #: 4192
 CYLINDER PRESSURE: 56 PSIG
 ANALYSIS DATE: 05/12/2023
 ANALYSIS TIME: 09:21:47 AM
 ANALYSIS RUN BY: KERRA GONZALEZ

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: 05/18/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	REID 1; TBG	TUBING	05/18/2023
Stn. No.:	3004510696		35825-14800
Mtr. No.:	3221030		

Smpl Date: 05/09/2023
Test Date: 05/12/2023
Run No: HS20230032

Nitrogen:	0.1653
CO2:	0.6377
Methane:	82.2056
Ethane:	10.4052
Propane:	3.7493
I-Butane:	0.6783
N-Butane:	0.8936
I-Pentane:	0.3265
N-Pentane:	0.2151
Hexane+:	0.7234
BTU:	1226.8
GPM:	18.9620
SPG:	0.7028

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 222658

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 222658
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	similar	10/6/2023