



Well Name: REID A 2R; BHD
 API #: 3004523153
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230101
 Cust No: 35825-15055

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	REID A 2R; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV/PC	Flow Rate:	MCF/D
Cust. Stn. No.:	3004523153	Sample Method:	Purge & Fill
	14633273	Sample Date:	06/29/2023
		Sample Time:	11.10 AM
	AREA 8 / RUN 802	Sampled By:	
Heat Trace:		Sampled by (CO):	
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	24.0357	11.4119	2.6510	0.00	0.2325
CO2	0.0771	0.0366	0.0130	0.00	0.0012
Methane	60.3741	28.6650	10.2600	609.78	0.3344
Ethane	7.7609	3.6848	2.0810	137.34	0.0806
Propane	4.1435	1.9673	1.1440	104.25	0.0631
Iso-Butane	0.7351	0.3490	0.2410	23.90	0.0148
N-Butane	1.1862	0.5632	0.3750	38.70	0.0238
I-Pentane	0.3934	0.1868	0.1440	15.74	0.0098
N-Pentane	0.3081	0.1463	0.1120	12.35	0.0077
Hexane Plus	0.9859	0.4681	0.4410	51.97	0.0326
Total	100.0000	47.4790	17.4620	994.04	0.8004

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0027	CYLINDER #:	6143
BTU/CU.FT IDEAL:	996.3	CYLINDER PRESSURE:	7 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	999.0	ANALYSIS DATE:	07/06/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	981.6	ANALYSIS TIME:	02:45:20 PM
DRY BTU @ 15.025:	1019.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.8022		

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: 07/31/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	REID A 2R; BHD	BRADENHEAD	07/31/2023
Stn. No.:	3004523153	MV/PC	35825-15055
Mtr. No.:	14633273		

Smpl Date: 06/29/2023
Test Date: 07/06/2023
Run No: HS20230101

Nitrogen: 24.0357
CO2: 0.0771
Methane: 60.3741
Ethane: 7.7609
Propane: 4.1435
I-Butane: 0.7351
N-Butane: 1.1862
I-Pentane: 0.3934
N-Pentane: 0.3081
Hexane+: 0.9859

BTU: 999.0
GPM: 17.4620
SPG: 0.8022



Well Name: REID A 2R; CSG
 API #: 3004523153
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20230102
 Cust No: 35825-15060

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	REID A 2R; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	60 PSIG
Location:		Flow Temp:	108 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV/PC	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004523153	Sample Method:	Purge & Fill
	14633273	Sample Date:	06/29/2023
	AREA 8 / RUN 802	Sample Time:	11.05 AM
Heat Trace:	N	Sampled By:	
Remarks:		Sampled by (CO):	

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3271	0.3289	0.0360	0.00	0.0032
CO2	0.6864	0.6901	0.1180	0.00	0.0104
Methane	78.3729	78.7984	13.3350	791.57	0.4341
Ethane	10.5385	10.5957	2.8290	186.50	0.1094
Propane	5.5889	5.6192	1.5450	140.62	0.0851
Iso-Butane	1.0051	1.0106	0.3300	32.68	0.0202
N-Butane	1.5935	1.6022	0.5040	51.98	0.0320
I-Pentane	0.5337	0.5366	0.1960	21.35	0.0133
N-Pentane	0.4400	0.4424	0.1600	17.64	0.0110
Hexane Plus	0.9139	0.9189	0.4090	48.17	0.0302
Total	100.0000	100.5430	19.4620	1290.52	0.7489

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0039
BTU/CU.FT IDEAL:	1293.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1298.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1276.0
DRY BTU @ 15.025:	1324.6
REAL SPECIFIC GRAVITY:	0.7515

CYLINDER #:	4114
CYLINDER PRESSURE:	61 PSIG
ANALYSIS DATE:	07/06/2023
ANALYSIS TIME:	02:34:35 PM
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: 07/31/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	REID A 2R; CSG	CASING	07/31/2023
Stn. No.:	3004523153	MV/PC	35825-15060
Mtr. No.:	14633273		

Smpl Date: 06/29/2023
Test Date: 07/06/2023
Run No: HS20230102

Nitrogen: 0.3271
CO2: 0.6864
Methane: 78.3729
Ethane: 10.5385
Propane: 5.5889
I-Butane: 1.0051
N-Butane: 1.5935
I-Pentane: 0.5337
N-Pentane: 0.4400
Hexane+: 0.9139

BTU: 1298.6
GPM: 19.4620
SPG: 0.7515



Well Name: REID A 2R; TBG
 API #: 3004523153
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20230103
 Cust No: 35825-15065

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	REID A 2R; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	60 PSIG
Location:		Flow Temp:	108 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV/PC	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004523153	Sample Method:	Purge & Fill
	14633273	Sample Date:	06/29/2023
	AREA 8/ RUN 802	Sample Time:	10.06 AM
Heat Trace:	N	Sampled By:	
Remarks:		Sampled by (CO):	

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2288	0.2292	0.0250	0.00	0.0022
CO2	0.8137	0.8152	0.1390	0.00	0.0124
Methane	81.8679	82.0208	13.9260	826.87	0.4535
Ethane	8.7783	8.7947	2.3550	155.35	0.0911
Propane	4.4014	4.4096	1.2170	110.74	0.0670
Iso-Butane	0.7812	0.7827	0.2560	25.40	0.0157
N-Butane	1.3017	1.3041	0.4120	42.47	0.0261
I-Pentane	0.4566	0.4575	0.1680	18.27	0.0114
N-Pentane	0.3613	0.3620	0.1310	14.48	0.0090
Hexane Plus	1.0091	1.0110	0.4520	53.19	0.0334
Total	100.0000	100.1868	19.0810	1246.77	0.7218

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0036	CYLINDER #:	7020
BTU/CU.FT IDEAL:	1249.7	CYLINDER PRESSURE:	58 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1254.2	ANALYSIS DATE:	07/06/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1232.4	ANALYSIS TIME:	02:54:01 PM
DRY BTU @ 15.025:	1279.3	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7241		

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: 07/31/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	REID A 2R; TBG	TUBING	07/31/2023
Stn. No.:	3004523153	MV/PC	35825-15065
Mtr. No.:	14633273		

Smpl Date: 06/29/2023
Test Date: 07/06/2023
Run No: HS20230103

Nitrogen: 0.2288
CO2: 0.8137
Methane: 81.8679
Ethane: 8.7783
Propane: 4.4014
I-Butane: 0.7812
N-Butane: 1.3017
I-Pentane: 0.4566
N-Pentane: 0.3613
Hexane+: 1.0091

BTU: 1254.2
GPM: 19.0810
SPG: 0.7241

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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 246217

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 246217
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	9/18/2023