



Well Name: SAN JUAN 29-6 1A; BHD

API #: 30-039-21124

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20230075

Cust No: 35825-14940

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SAN JUAN 29-6 1A; BHD

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA: 078278

Formation:

Cust. Stn. No.: 30-039-21124
86863

AREA 12 / RUN 1200

Heat Trace: N

Remarks:

Source: BRADENHEAD

Well Flowing: Y

Pressure: 41 PSIG

Flow Temp: 95 DEG. F

Ambient Temp: DEG. F

Flow Rate: 109 MCF/D

Sample Method: Purge & Fill

Sample Date: 06/21/2023

Sample Time: 11.00 AM

Sampled By: A.J.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7152	0.7037	0.0790	0.00	0.0069
CO2	0.0092	0.0091	0.0020	0.00	0.0001
Methane	98.9861	97.3937	16.8100	999.76	0.5483
Ethane	0.2736	0.2692	0.0730	4.84	0.0028
Propane	0.0099	0.0097	0.0030	0.25	0.0002
Iso-Butane	0.0060	0.0059	0.0020	0.20	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	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	98.3913	16.9690	1005.05	0.5585

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 1007.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1009.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 991.8
 DRY BTU @ 15.025: 1029.6
 REAL SPECIFIC GRAVITY: 0.5593

CYLINDER #: 4112
 CYLINDER PRESSURE: 36 PSIG
 ANALYSIS DATE: 06/27/2023
 ANALYSIS TIME: 04:02:49 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: 07/06/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 29-6 1A; BHD
Stn. No.: 30-039-21124
Mtr. No.: 86863

BRADENHEAD

07/06/2023
35825-14940

Smpl Date: 06/21/2023
Test Date: 06/27/2023
Run No: HS20230075

Nitrogen: 0.7152
CO2: 0.0092
Methane: 98.9861
Ethane: 0.2736
Propane: 0.0099
I-Butane: 0.0060
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 1009.4
GPM: 16.9690
SPG: 0.5593



Well Name: SAN JUAN 29-6 1A; CSG
 API #: 30-039-21124
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20230076
 Cust No: 35825-14945

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 29-6 1A; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: 078278
 Formation:
 Cust. Stn. No.: 30-039-21124
 86863

Source: CASING
 Well Flowing:
 Pressure: 30 PSIG
 Flow Temp: 95 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 107 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/21/2023
 Sample Time: 11.15 AM
 Sampled By: A.J.
 Sampled by (CO): HILCORP

AREA 12 / RUN 1200

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1362	0.1256	0.0150	0.00	0.0013
CO2	2.1448	1.9775	0.3670	0.00	0.0326
Methane	85.3868	78.7248	14.5200	862.41	0.4730
Ethane	6.6716	6.1511	1.7900	118.07	0.0693
Propane	2.5448	2.3463	0.7030	64.03	0.0387
Iso-Butane	0.4829	0.4452	0.1590	15.70	0.0097
N-Butane	0.7074	0.6522	0.2240	23.08	0.0142
I-Pentane	0.3223	0.2972	0.1180	12.89	0.0080
N-Pentane	0.2447	0.2256	0.0890	9.81	0.0061
Hexane Plus	1.3585	1.2525	0.6080	71.61	0.0450
Total	100.0000	92.1980	18.5930	1177.60	0.6978

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1180.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1184.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1163.6
 DRY BTU @ 15.025: 1207.9
 REAL SPECIFIC GRAVITY: 0.6999

CYLINDER #: 6001
 CYLINDER PRESSURE: 27 PSIG
 ANALYSIS DATE: 06/27/2023
 ANALYSIS TIME: 03:52:17 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: 07/06/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 29-6 1A; CSG
Stn. No.: 30-039-21124
Mtr. No.: 86863

CASING

07/06/2023
35825-14945

Smpl Date: 06/21/2023
Test Date: 06/27/2023
Run No: HS20230076

Nitrogen: 0.1362
CO2: 2.1448
Methane: 85.3868
Ethane: 6.6716
Propane: 2.5448
I-Butane: 0.4829
N-Butane: 0.7074
I-Pentane: 0.3223
N-Pentane: 0.2447
Hexane+: 1.3585

BTU: 1184.2
GPM: 18.5930
SPG: 0.6999



Well Name: SAN JUAN 29-6 1A; TBG

API #: 30-039-21124

Source: TUBING

Sample Type: GAS

Analysis No: HS20230077

Cust No: 35825-14950

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SAN JUAN 29-6 1A; TBG

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA: 078278

Formation:

Cust. Stn. No.: 30-039-21124
86863

AREA 12 / RUN 1200

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Source: TUBING

Well Flowing: Y

Pressure: 5 PSIG

Flow Temp: 95 DEG. F

Ambient Temp: DEG. F

Flow Rate: 113 MCF/D

Sample Method: Purge & Fill

Sample Date: 06/21/2023

Sample Time: 11.32 AM

Sampled By: A.J.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1190	0.1175	0.0130	0.00	0.0012
CO2	2.6695	2.6351	0.4570	0.00	0.0406
Methane	83.4618	82.3869	14.1920	842.96	0.4623
Ethane	7.6210	7.5229	2.0440	134.87	0.0791
Propane	3.1061	3.0661	0.8580	78.15	0.0473
Iso-Butane	0.6557	0.6473	0.2150	21.32	0.0132
N-Butane	0.8818	0.8704	0.2790	28.77	0.0177
I-Pentane	0.3906	0.3856	0.1430	15.63	0.0097
N-Pentane	0.2689	0.2654	0.0980	10.78	0.0067
Hexane Plus	0.8256	0.8150	0.3690	43.52	0.0273
Total	100.0000	98.7122	18.6680	1176.00	0.7050

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1178.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1182.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1162.0
 DRY BTU @ 15.025: 1206.3
 REAL SPECIFIC GRAVITY: 0.7071

CYLINDER #: 6094
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 06/27/2023
 ANALYSIS TIME: 04:11:02 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: 07/06/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 29-6 1A; TBG
Stn. No.: 30-039-21124
Mtr. No.: 86863

TUBING

07/06/2023
35825-14950

Smpl Date: 06/21/2023
Test Date: 06/27/2023
Run No: HS20230077

Nitrogen: 0.1190
CO2: 2.6695
Methane: 83.4618
Ethane: 7.6210
Propane: 3.1061
I-Butane: 0.6557
N-Butane: 0.8818
I-Pentane: 0.3906
N-Pentane: 0.2689
Hexane+: 0.8256

BTU: 1182.6
GPM: 18.6680
SPG: 0.7071

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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 241390

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 241390
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	not similar	9/22/2023