



Well Name: SOUTH KUTZ #1; BHD
 API #: API # 3004520526
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021074
 Cust No: 35825-13590

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SOUTH KUTZ #1; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM0560425
 Formation:
 Cust. Stn. No.: API # 3004520526

Source: BRADENHEAD
 Well Flowing:
 Pressure: 73 PSIG
 Flow Temp: 59 DEG. F
 Ambient Temp: 50 DEG. F
 Flow Rate: 18 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 1.15 PM
 Sampled By:
 Sampled by (CO):

AREA 6 / RUN 0605

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9302	0.9246	0.1030	0.00	0.0090
CO2	0.6537	0.6497	0.1120	0.00	0.0099
Methane	70.5230	70.0960	12.0110	712.28	0.3906
Ethane	12.5264	12.4506	3.3660	221.68	0.1300
Propane	8.6253	8.5731	2.3870	217.02	0.1313
Iso-Butane	0.9098	0.9043	0.2990	29.59	0.0183
N-Butane	3.0954	3.0767	0.9800	100.98	0.0621
I-Pentane	0.7268	0.7224	0.2670	29.08	0.0181
N-Pentane	0.8132	0.8083	0.2960	32.60	0.0203
Hexane Plus	1.1962	1.1890	0.5360	63.05	0.0396
Total	100.0000	99.3947	20.3570	1406.28	0.8293

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0049
 BTU/CU.FT IDEAL: 1409.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1416.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1391.9
 DRY BTU @ 15.025: 1444.9
 REAL SPECIFIC GRAVITY: 0.833

CYLINDER #: 050
 CYLINDER PRESSURE: 31 PSIG
 ANALYSIS DATE: 05/05/2021
 ANALYSIS TIME: 10:24:08 AM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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: 05/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SOUTH KUTZ #1; BHD
Stn. No.: API # 3004520526
Mtr. No.:

BRADENHEAD

05/06/2021
35825-13590

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021074

Nitrogen: 0.9302
CO2: 0.6537
Methane: 70.5230
Ethane: 12.5264
Propane: 8.6253
I-Butane: 0.9098
N-Butane: 3.0954
I-Pentane: 0.7268
N-Pentane: 0.8132
Hexane+: 1.1962

BTU: 1416.5
GPM: 20.3570
SPG: 0.8330



Well Name: SOUTH KUTZ #1; CSG

API #: API # 3004520526

Source: CASING

Sample Type: GAS

Analysis No: HS2021075

Cust No: 35825-13595

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SOUTH KUTZ #1; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NMNM0560425

Formation:

Cust. Stn. No.: API # 3004520526

AREA 6 / RUN 0605

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: Y

Pressure: 73 PSIG

Flow Temp: 59 DEG. F

Ambient Temp: 50 DEG. F

Flow Rate: 18 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2021

Sample Time: 1.00 PM

Sampled By:

Sampled by (CO):

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8085	0.8035	0.0890	0.00	0.0078
CO2	1.4315	1.4226	0.2460	0.00	0.0218
Methane	67.1033	66.6862	11.4400	677.74	0.3717
Ethane	11.9121	11.8381	3.2040	210.81	0.1237
Propane	8.5902	8.5368	2.3800	216.14	0.1308
Iso-Butane	1.0446	1.0381	0.3440	33.97	0.0210
N-Butane	3.9141	3.8898	1.2410	127.69	0.0785
I-Pentane	1.2503	1.2425	0.4600	50.02	0.0311
N-Pentane	1.5473	1.5377	0.5640	62.03	0.0385
Hexane Plus	2.3981	2.3832	1.0750	126.41	0.0794
Total	100.0000	99.3785	21.0430	1504.80	0.9043

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0059
 BTU/CU.FT IDEAL: 1508.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1517.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1490.8
 DRY BTU @ 15.025: 1547.6
 REAL SPECIFIC GRAVITY: 0.9093

CYLINDER #: 554
 CYLINDER PRESSURE: 64 PSIG
 ANALYSIS DATE: 05/05/2021
 ANALYSIS TIME: 10:42:24 AM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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: 05/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SOUTH KUTZ #1; CSG	CASING	05/06/2021
Stn. No.:	API # 3004520526		35825-13595
Mtr. No.:			

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021075

Nitrogen: 0.8085
CO2: 1.4315
Methane: 67.1033
Ethane: 11.9121
Propane: 8.5902
I-Butane: 1.0446
N-Butane: 3.9141
I-Pentane: 1.2503
N-Pentane: 1.5473
Hexane+: 2.3981

BTU: 1517.2
GPM: 21.0430
SPG: 0.9093

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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 32819

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 32819
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/23/2021