



Well Name: KUTZ FED 10; BHD

API #: 3004507477

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20240035

Cust No: 35825-15625

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: KUTZ FED 10; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF-047039
 Formation: DK
 Cust. Stn. No.: 3004507477

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 26 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/19/2024
 Sample Time: 11.29 AM
 Sampled By: MARK GOODWIN
 Sampled by (CO): HILCORP

Heat Trace: N
 AREA 7 / RUN 0705

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3879	0.1124	0.0430	0.00	0.0038
CO2	1.8289	0.5300	0.3130	0.00	0.0278
Methane	81.1423	23.5143	13.8050	819.54	0.4494
Ethane	8.7794	2.5442	2.3560	155.37	0.0911
Propane	3.5419	1.0264	0.9790	89.12	0.0539
Iso-Butane	0.6688	0.1938	0.2200	21.75	0.0134
N-Butane	1.1042	0.3200	0.3490	36.02	0.0222
I-Pentane	0.4948	0.1434	0.1820	19.80	0.0123
N-Pentane	0.3820	0.1107	0.1390	15.31	0.0095
Hexane Plus	1.6698	0.4839	0.7470	88.02	0.0553
Total	100.0000	28.9791	19.1330	1244.92	0.7387

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1247.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1252.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1230.6
 DRY BTU @ 15.025: 1277.5
 REAL SPECIFIC GRAVITY: 0.7412

CYLINDER #: 7024
 CYLINDER PRESSURE: 5 PSIG
 ANALYSIS DATE: 04/27/2024
 ANALYSIS TIME: 11:02:29 AM
 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: 04/30/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	KUTZ FED 10; BHD	BRADENHEAD	04/30/2024
Stn. No.:	3004507477	DK	35825-15625
Mtr. No.:			

Smpl Date:	04/19/2024
Test Date:	04/27/2024
Run No:	HS20240035
Nitrogen:	0.3879
CO2:	1.8289
Methane:	81.1423
Ethane:	8.7794
Propane:	3.5419
I-Butane:	0.6688
N-Butane:	1.1042
I-Pentane:	0.4948
N-Pentane:	0.3820
Hexane+:	1.6698
BTU:	1252.4
GPM:	19.1330
SPG:	0.7412



Well Name: KUTZ FED 10; CSG

API #: 3004507477

Source: CASING

Sample Type: GAS

Analysis No: HS20240036

Cust No: 35825-15630

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: KUTZ FED 10; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NMSF-047039

Formation: DK

Cust. Stn. No.: 3004507477

Source: CASING

Well Flowing:

Pressure: 79 PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 04/19/2024

Sample Time: 11.25 AM

Sampled By: HILCORP

Sampled by (CO): MARK GOODWIN

Heat Trace:

AREA 7 / RUN 0705

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3864	0.1496	0.0430	0.00	0.0037
CO2	1.9333	0.7485	0.3310	0.00	0.0294
Methane	81.3081	31.4792	13.8300	821.21	0.4504
Ethane	8.9893	3.4803	2.4120	159.08	0.0933
Propane	3.6535	1.4145	1.0100	91.93	0.0556
Iso-Butane	0.6876	0.2662	0.2260	22.36	0.0138
N-Butane	1.1292	0.4372	0.3570	36.84	0.0227
I-Pentane	0.4861	0.1882	0.1780	19.45	0.0121
N-Pentane	0.3665	0.1419	0.1330	14.69	0.0091
Hexane Plus	1.0600	0.4104	0.4740	55.87	0.0351
Total	100.0000	38.7160	18.9940	1221.43	0.7252

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1224.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1228.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1207.2
 DRY BTU @ 15.025: 1253.2
 REAL SPECIFIC GRAVITY: 0.7275

CYLINDER #: 4154
 CYLINDER PRESSURE: 9 PSIG
 ANALYSIS DATE: 04/27/2024
 ANALYSIS TIME: 11:10:50 AM
 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: 04/30/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	KUTZ FED 10; CSG	CASING	04/30/2024
Stn. No.:	3004507477	DK	35825-15630
Mtr. No.:			

Smpl Date: 04/19/2024
Test Date: 04/27/2024
Run No: HS20240036

Nitrogen:	0.3864
CO2:	1.9333
Methane:	81.3081
Ethane:	8.9893
Propane:	3.6535
I-Butane:	0.6876
N-Butane:	1.1292
I-Pentane:	0.4861
N-Pentane:	0.3665
Hexane+:	1.0600
BTU:	1228.6
GPM:	18.9940
SPG:	0.7275



Well Name: KUTZ FED 10; TBG

API #: 3004507477

Source: TUBING

Sample Type: GAS

Analysis No: HS20240037

Cust No: 35825-15635

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: KUTZ FED 10; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF-047039
 Formation: DK
 Cust. Stn. No.: 3004507477

Source: TUBING
 Well Flowing:
 Pressure: 79 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/19/2024
 Sample Time: 11.27 AM
 Sampled By: MARK GOODWIN
 Sampled by (CO): HILCORP

AREA 7 / RUN 0705

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	78.0219	15.2060	8.5880	0.00	0.7546
CO2	0.6486	0.1264	0.1110	0.00	0.0099
Methane	15.7122	3.0622	2.6650	158.69	0.0870
Ethane	2.6963	0.5255	0.7210	47.72	0.0280
Propane	1.3300	0.2592	0.3670	33.46	0.0202
Iso-Butane	0.2796	0.0545	0.0920	9.09	0.0056
N-Butane	0.4484	0.0874	0.1410	14.63	0.0090
I-Pentane	0.2068	0.0403	0.0760	8.27	0.0052
N-Pentane	0.1421	0.0277	0.0520	5.70	0.0035
Hexane Plus	0.5141	0.1002	0.2290	27.10	0.0170
Total	100.0000	19.4894	13.0420	304.66	0.9401

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0008
 BTU/CU.FT IDEAL: 305.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 305.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 300.3
 DRY BTU @ 15.025: 311.7
 REAL SPECIFIC GRAVITY: 0.9404

CYLINDER #: 5023
 CYLINDER PRESSURE: 1 PSIG
 ANALYSIS DATE: 04/27/2024
 ANALYSIS TIME: 11:20:31 AM
 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: 04/30/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	KUTZ FED 10; TBG	TUBING	04/30/2024
Stn. No.:	3004507477	DK	35825-15635
Mtr. No.:			

Smpl Date: 04/19/2024
Test Date: 04/27/2024
Run No: HS20240037

Nitrogen: 78.0219
CO2: 0.6486
Methane: 15.7122
Ethane: 2.6963
Propane: 1.3300
I-Butane: 0.2796
N-Butane: 0.4484
I-Pentane: 0.2068
N-Pentane: 0.1421
Hexane+: 0.5141

BTU: 305.6
GPM: 13.0420
SPG: 0.9404

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District III
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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 341560

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 341560
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Analysis from tubing does not look right - Bradenhead and Production casing have the same gas	5/10/2024