



Well Name: UTE INDIANS A #39; BHD
 API #: API # 3004533284
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021076
 Cust No: 35825-13600

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: UTE INDIANS A #39; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 14-20-604-62
 Formation:
 Cust. Stn. No.: API # 3004533284

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 70 PSIG
 Flow Temp: 45 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 11.37 AM
 Sampled By: DANIEL RIOS
 Sampled by (CO): HILCORP

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.2022	1.1779	0.1330	0.00	0.0116
CO2	0.0240	0.0235	0.0040	0.00	0.0004
Methane	83.2392	81.5584	14.1520	840.72	0.4611
Ethane	8.1532	7.9886	2.1870	144.29	0.0846
Propane	5.0385	4.9368	1.3920	126.77	0.0767
Iso-Butane	0.4895	0.4796	0.1610	15.92	0.0098
N-Butane	1.2879	1.2619	0.4070	42.02	0.0258
I-Pentane	0.2458	0.2408	0.0900	9.83	0.0061
N-Pentane	0.1990	0.1950	0.0720	7.98	0.0050
Hexane Plus	0.1207	0.1183	0.0540	6.36	0.0040
Total	100.0000	97.9808	18.6520	1193.88	0.6852

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
 BTU/CU.FT IDEAL: 1196.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1200.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1179.5
 DRY BTU @ 15.025: 1224.4
 REAL SPECIFIC GRAVITY: 0.687

CYLINDER #: 6189
 CYLINDER PRESSURE: 68 PSIG
 ANALYSIS DATE: 05/05/2021
 ANALYSIS TIME: 11:48:15 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: UTE INDIANS A #39; BHD
Stn. No.: API # 3004533284
Mtr. No.:

BRADENHEAD

05/06/2021
35825-13600

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021076

Nitrogen: 1.2022
CO2: 0.0240
Methane: 83.2392
Ethane: 8.1532
Propane: 5.0385
I-Butane: 0.4895
N-Butane: 1.2879
I-Pentane: 0.2458
N-Pentane: 0.1990
Hexane+: 0.1207

BTU: 1200.4
GPM: 18.6520
SPG: 0.6870



Well Name: UTE INDIANS A #39; CSG

API #: API # 3004533284

Source: CASING

Sample Type: GAS

Analysis No: HS2021077

Cust No: 35825-13605

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: UTE INDIANS A #39; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 14-20-604-62
 Formation:
 Cust. Stn. No.: API # 3004533284

Source: CASING
 Well Flowing: N
 Pressure: 488 PSIG
 Flow Temp: 45 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 11.39 AM
 Sampled By: DANIEL RIOS
 Sampled by (CO): HILCORP

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6216	0.6133	0.0690	0.00	0.0060
CO2	0.6003	0.5923	0.1030	0.00	0.0091
Methane	94.6202	93.3538	16.0750	955.66	0.5241
Ethane	2.0969	2.0688	0.5620	37.11	0.0218
Propane	0.8795	0.8677	0.2430	22.13	0.0134
Iso-Butane	0.2101	0.2073	0.0690	6.83	0.0042
N-Butane	0.3004	0.2964	0.0950	9.80	0.0060
I-Pentane	0.1524	0.1504	0.0560	6.10	0.0038
N-Pentane	0.1206	0.1190	0.0440	4.83	0.0030
Hexane Plus	0.3980	0.3927	0.1780	20.98	0.0132
Total	100.0000	98.6617	17.4940	1063.44	0.6046

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1065.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1068.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1049.9
 DRY BTU @ 15.025: 1089.9
 REAL SPECIFIC GRAVITY: 0.6058

CYLINDER #: 4109
 CYLINDER PRESSURE: 460 PSIG
 ANALYSIS DATE: 05/05/2021
 ANALYSIS TIME: 11:01:32 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: UTE INDIANS A #39; CSG
Stn. No.: API # 3004533284
Mtr. No.:

CASING

05/06/2021
35825-13605

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021077

Nitrogen: 0.6216
CO2: 0.6003
Methane: 94.6202
Ethane: 2.0969
Propane: 0.8795
I-Butane: 0.2101
N-Butane: 0.3004
I-Pentane: 0.1524
N-Pentane: 0.1206
Hexane+: 0.3980

BTU: 1068.5
GPM: 17.4940
SPG: 0.6058



Well Name: UTE INDIANS A #39; TBG
 API #: API # 3004533284
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS2021078
 Cust No: 35825-13610

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: UTE INDIANS A #39; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 14-20-604-62
 Formation:
 Cust. Stn. No.: API # 3004533284

Source: TUBING
 Well Flowing: N
 Pressure: 458 PSIG
 Flow Temp: 44 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 11.39 AM
 Sampled By: DANIEL RIOS
 Sampled by (CO): HILCORP

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.0660	3.9883	0.4480	0.00	0.0393
CO2	20.7742	20.3771	3.5540	0.00	0.3157
Methane	72.7042	71.3146	12.3570	734.31	0.4027
Ethane	1.0817	1.0610	0.2900	19.14	0.0112
Propane	0.2931	0.2875	0.0810	7.37	0.0045
Iso-Butane	0.1743	0.1710	0.0570	5.67	0.0035
N-Butane	0.2539	0.2490	0.0800	8.28	0.0051
I-Pentane	0.1683	0.1651	0.0620	6.73	0.0042
N-Pentane	0.1269	0.1245	0.0460	5.09	0.0032
Hexane Plus	0.3574	0.3506	0.1600	18.84	0.0118
Total	100.0000	98.0887	17.1350	805.44	0.8012

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 807.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 809.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 795.5
 DRY BTU @ 15.025: 825.8
 REAL SPECIFIC GRAVITY: 0.8031

CYLINDER #: 6156
 CYLINDER PRESSURE: 470 PSIG
 ANALYSIS DATE: 05/05/2021
 ANALYSIS TIME: 11:25:24 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: UTE INDIANS A #39; TBG
Stn. No.: API # 3004533284
Mtr. No.:

TUBING

05/06/2021
35825-13610

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021078

Nitrogen: 4.0660
CO2: 20.7742
Methane: 72.7042
Ethane: 1.0817
Propane: 0.2931
I-Butane: 0.1743
N-Butane: 0.2539
I-Pentane: 0.1683
N-Pentane: 0.1269
Hexane+: 0.3574

BTU: 809.6
GPM: 17.1350
SPG: 0.8031

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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 27531

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27531	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								