



30-045-29354

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: HS190065
Cust No: 35825-11195**Well/Lease Information**

Customer Name: HILCORP (BHD PROJECT)
Well Name: UTE MOUNTAIN UTE #40; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Str. No.: 91901142
API # 3004529354

AREA 2 / RUN 200
Heat Trace: N
Remarks: H2S

Source: BRADENHEAD
Well Flowing: Y
Pressure: 141 PSIG
Flow Temp: 75 DEG. F
Ambient Temp: 88 DEG. F
Flow Rate: 179 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/14/2019
Sample Time: 4.51 PM
Sampled By: KALAN DIBBLE
Sampled by (CO): HILCORP

NMOC

JUN 17 2019

DISTRICT III

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.1376	0.9738	0.3460	0.00	0.0303
CO2	0.0864	0.0268	0.0150	0.00	0.0013
Methane	90.2159	27.9994	15.3270	911.18	0.4997
Ethane	3.8964	1.2093	1.0440	68.95	0.0405
Propane	1.3900	0.4314	0.3840	34.97	0.0212
Iso-Butane	0.2052	0.0637	0.0670	6.67	0.0041
N-Butane	0.3377	0.1048	0.1070	11.02	0.0068
I-Pentane	0.1305	0.0405	0.0480	5.22	0.0033
N-Pentane	0.1305	0.0405	0.0470	5.23	0.0033
Hexane Plus	0.4698	0.1458	0.2100	24.76	0.0155
Total	100.0000	31.0360	17.5950	1068.01	0.6259

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1070.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1073.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1054.4
DRY BTU @ 15.025: 1094.6
REAL SPECIFIC GRAVITY: 0.6272

CYLINDER #: 5028
CYLINDER PRESSURE: 24 PSIG
ANALYSIS DATE: 05/20/2019
ANALYSIS TIME: 08:52:19 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 05/24/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE MOUNTAIN UTE #40; BHD
Stn. No.: 91901142
Mtr. No.: API # 3004529354

BRADENHEAD

05/24/2019
35825-11195

Smpl Date: 05/14/2019
Test Date: 05/20/2019
Run No: HS190065

Nitrogen: 3.1376
CO2: 0.0864
Methane: 90.2159
Ethane: 3.8964
Propane: 1.3900
I-Butane: 0.2052
N-Butane: 0.3377
I-Pentane: 0.1305
N-Pentane: 0.1305
Hexane+: 0.4698

BTU: 1073.1
GPM: 17.5950
SPG: 0.6272



30-045-29354

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: HS190066
Cust No: 35825-11200**Well/Lease Information**

Customer Name: HILCORP (BHD PROJECT)
Well Name: UTE MOUNTAIN UTE #40; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Str. No.: 91901142
API # 3004529354
AREA 2 / RUN 200
Heat Trace: N
Remarks: H2S

Source: CASING
Well Flowing: Y
Pressure: 141 PSIG
Flow Temp: 75 DEG. F
Ambient Temp: 88 DEG. F
Flow Rate: 179 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/14/2019
Sample Time: 4.51 PM
Sampled By: KALAN DIBBLE
Sampled by (CO): HILCORP

NMOC
JUN 17 2019
DISTRICT III

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4712	1.4509	0.1620	0.00	0.0142
CO2	0.3301	0.3255	0.0560	0.00	0.0050
Methane	90.6223	89.3712	15.3990	915.29	0.5020
Ethane	4.3224	4.2627	1.1590	76.49	0.0449
Propane	1.5739	1.5522	0.4350	39.60	0.0240
Iso-Butane	0.3741	0.3689	0.1230	12.17	0.0075
N-Butane	0.5158	0.5087	0.1630	16.83	0.0104
I-Pentane	0.2074	0.2045	0.0760	8.30	0.0052
N-Pentane	0.1592	0.1570	0.0580	6.38	0.0040
Hexane Plus	0.4236	0.4178	0.1890	22.33	0.0140
Total	100.0000	98.6194	17.8200	1097.38	0.6311

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
BTU/CU.FT IDEAL: 1099.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1102.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1083.6
DRY BTU @ 15.025: 1124.9
REAL SPECIFIC GRAVITY: 0.6324

CYLINDER #: 7050
CYLINDER PRESSURE: 139 PSIG
ANALYSIS DATE: 05/20/2019
ANALYSIS TIME: 09:06:14 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 05/24/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE MOUNTAIN UTE #40; CSG	CASING	05/24/2019
Stn. No.:	91901142		35825-11200
Mtr. No.:	API # 3004529354		

Smpl Date:	05/14/2019
Test Date:	05/20/2019
Run No:	HS190066

Nitrogen:	1.4712
CO2:	0.3301
Methane:	90.6223
Ethane:	4.3224
Propane:	1.5739
I-Butane:	0.3741
N-Butane:	0.5158
I-Pentane:	0.2074
N-Pentane:	0.1592
Hexane+:	0.4236

BTU:	1102.8
GPM:	17.8200
SPG:	0.6324



30-045-29354

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: HS190067
Cust No: 35825-11205**Well/Lease Information**

Customer Name: HILCORP (BHD PROJECT) Source: TUBING
Well Name: UTE MOUNTAIN UTE #40; TBG Well Flowing: Y
County/State: SAN JUAN NM Pressure: 141 PSIG
Location: Flow Temp: 75 DEG. F
Lease/PA/CA: Ambient Temp: 88 DEG. F
Formation: Flow Rate: 179 MCF/D
Cust. Stn. No.: 91901142 Sample Method: Purge & Fill
API # 3004529354 Sample Date: 05/14/2019
Sample Time: 4.51 PM
Sampled By: KALAN DIBBLE
Sampled by (CO): HILCORP
Heat Trace: N
Remarks: SAMPLE CONTAINED A SMALL AMOUNT OF CONDENSATE. H2S

NMOC
JUN 17 2019
DISTRICT III**Analysis**

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3938	1.3638	0.1540	0.00	0.0135
CO2	9.5293	9.3244	1.6300	0.00	0.1448
Methane	84.7776	82.9543	14.4080	856.25	0.4696
Ethane	2.1961	2.1489	0.5890	38.86	0.0228
Propane	0.7779	0.7612	0.2150	19.57	0.0118
Iso-Butane	0.2196	0.2149	0.0720	7.14	0.0044
N-Butane	0.2847	0.2786	0.0900	9.29	0.0057
I-Pentane	0.1412	0.1382	0.0520	5.65	0.0035
N-Pentane	0.1045	0.1023	0.0380	4.19	0.0026
Hexane Plus	0.5753	0.5629	0.2570	30.32	0.0190
Total	100.0000	97.8495	17.5050	971.28	0.6978

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
BTU/CU.FT IDEAL: 973.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 976.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 959.2
DRY BTU @ 15.025: 995.8
REAL SPECIFIC GRAVITY: 0.6994

CYLINDER #: 6015
CYLINDER PRESSURE: 120 PSIG
ANALYSIS DATE: 05/20/2019
ANALYSIS TIME: 09:27:00 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 05/24/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE MOUNTAIN UTE #40; TBG
Stn. No.: 91901142
Mtr. No.: API # 3004529354

TUBING

05/24/2019
35825-11205

Smpl Date: 05/14/2019
Test Date: 05/20/2019
Run No: HS190067

Nitrogen: 1.3938
CO2: 9.5293
Methane: 84.7776
Ethane: 2.1961
Propane: 0.7779
I-Butane: 0.2196
N-Butane: 0.2847
I-Pentane: 0.1412
N-Pentane: 0.1045
Hexane+: 0.5753

BTU: 976.2
GPM: 17.5050
SPG: 0.6994