



30-045-20770

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: HS190063
Cust No: 35825-11185**Well/Lease Information**Customer Name: HILCORP (BHD PROJECT)
Well Name: MOUNTAIN UTE COM A #1; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA: FR1911KR
Formation:
Cust. Stn. No.: API # 3004520770Source: CASING
Well Flowing: Y
Pressure: 28 PSIG
Flow Temp: 76 DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: 0 MCF/D
Sample Method:
Sample Date: 05/13/2019
Sample Time: 1.02 PM
Sampled By: KALAN DIBBLE
Sampled by (CO): HILCORP

NMOC

JUN 17 2019

DISTRICT III

Analysis

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

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1508	1.1301	0.1270	0.00	0.0111
CO2	1.3128	1.2892	0.2250	0.00	0.0199
Methane	92.8203	91.1515	15.7710	937.49	0.5141
Ethane	2.2427	2.2024	0.6010	39.69	0.0233
Propane	0.9817	0.9640	0.2710	24.70	0.0149
Iso-Butane	0.1969	0.1934	0.0650	6.40	0.0040
N-Butane	0.3328	0.3268	0.1050	10.86	0.0067
I-Pentane	0.1419	0.1393	0.0520	5.68	0.0035
N-Pentane	0.1372	0.1347	0.0500	5.50	0.0034
Hexane Plus	0.6829	0.6706	0.3050	36.00	0.0226
Total	100.0000	98.2020	17.5720	1066.31	0.6236

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1068.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1071.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1052.9
DRY BTU @ 15.025: 1093.0
REAL SPECIFIC GRAVITY: 0.6249CYLINDER #: 6118
CYLINDER PRESSURE: 32 PSIG
ANALYSIS DATE: 05/20/2019
ANALYSIS TIME: 08:14:19 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: MOUNTAIN UTE COM A #1; CSG CASING 05/24/2019
Stn. No.: API # 3004520770 35825-11185
Mtr. No.:

Smpl Date: 05/13/2019
Test Date: 05/20/2019
Run No: HS190063
Nitrogen: 1.1508
CO2: 1.3128
Methane: 92.8203
Ethane: 2.2427
Propane: 0.9817
I-Butane: 0.1969
N-Butane: 0.3328
I-Pentane: 0.1419
N-Pentane: 0.1372
Hexane+: 0.6829
BTU: 1071.5
GPM: 17.5720
SPG: 0.6249



30-045-20770

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: HS190062
Cust No: 35825-11180**Well/Lease Information**

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	MOUNTAIN UTE COM A #1; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	28 PSIG
Location:		Flow Temp:	76 DEG. F
Lease/PA/CA:	FR1911KR	Ambient Temp:	82 DEG. F
Formation:		Flow Rate:	0 MCF/D
Cust. Stn. No.:	API # 3004520770	Sample Method:	
		Sample Date:	05/13/2019
		Sample Time:	1.02 PM
		Sampled By:	KALAN DIBBLE
		Sampled by (CO):	HILCORP
	AREA 2 / RUN 200		
Heat Trace:	N		
Remarks:	H2S		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3689	1.3535	0.1510	0.00	0.0132
CO2	0.0134	0.0132	0.0020	0.00	0.0002
Methane	82.7137	81.7839	14.0620	835.41	0.4582
Ethane	8.8697	8.7700	2.3790	156.97	0.0921
Propane	4.8915	4.8365	1.3510	123.08	0.0745
Iso-Butane	0.4997	0.4941	0.1640	16.25	0.0100
N-Butane	1.1128	1.1003	0.3520	36.30	0.0223
I-Pentane	0.2018	0.1995	0.0740	8.07	0.0050
N-Pentane	0.1596	0.1578	0.0580	6.40	0.0040
Hexane Plus	0.1689	0.1670	0.0760	8.90	0.0056
Total	100.0000	98.8758	18.6690	1191.38	0.6851

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031
BTU/CU.FT IDEAL:	1194.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1197.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1177.0
DRY BTU @ 15.025:	1221.8
REAL SPECIFIC GRAVITY:	0.687

CYLINDER #:	4110
CYLINDER PRESSURE:	141 PSIG
ANALYSIS DATE:	05/17/2019
ANALYSIS TIME:	04:19:44 PM
ANALYSIS RUN BY:	SHYANN ELLEDGE

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: MOUNTAIN UTE COM A #1; BHD
Stn. No.: API # 3004520770
Mtr. No.:

BRADENHEAD

05/24/2019
35825-11180

Smpl Date: 05/13/2019
Test Date: 05/17/2019
Run No: HS190062

Nitrogen: 1.3689
CO2: 0.0134
Methane: 82.7137
Ethane: 8.8697
Propane: 4.8915
I-Butane: 0.4997
N-Butane: 1.1128
I-Pentane: 0.2018
N-Pentane: 0.1596
Hexane+: 0.1689

BTU: 1197.8
GPM: 18.6690
SPG: 0.6870



30-045-20770

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: HS190064
Cust No: 35825-11190**Well/Lease Information**Customer Name: HILCORP (BHD PROJECT)
Well Name: MOUNTAIN UTE COM A #1; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA: FR1911KR
Formation:
Cust. Str. No.: API # 3004520770Source: TUBING
Well Flowing: Y
Pressure: 28 PSIG
Flow Temp: 76 DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: 0 MCF/D
Sample Method:
Sample Date: 05/13/2019
Sample Time: 1.02 PM
Sampled By: KALAN DIBBLE
Sampled by (CO): HILCORPHeat Trace: AREA 2 / RUN 200
Remarks: N
H2SWMCD
JUN 17 2019
DISTRICT III**Analysis**

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1097	1.0938	0.1220	0.00	0.0107
CO2	1.2860	1.2675	0.2200	0.00	0.0195
Methane	92.7730	91.4413	15.7630	937.01	0.5139
Ethane	2.2536	2.2213	0.6040	39.88	0.0234
Propane	1.0811	1.0656	0.2990	27.20	0.0165
Iso-Butane	0.2009	0.1980	0.0660	6.53	0.0040
N-Butane	0.3340	0.3292	0.1060	10.90	0.0067
I-Pentane	0.1439	0.1418	0.0530	5.76	0.0036
N-Pentane	0.1399	0.1379	0.0510	5.61	0.0035
Hexane Plus	0.6779	0.6682	0.3030	35.73	0.0224
Total	100.0000	98.5646	17.5870	1068.62	0.6242

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1071.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1073.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1055.1
DRY BTU @ 15.025: 1095.3
REAL SPECIFIC GRAVITY: 0.6256CYLINDER #: 4179
CYLINDER PRESSURE: 52 PSIG
ANALYSIS DATE: 05/20/2019
ANALYSIS TIME: 08:29:02 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: MOUNTAIN UTE COM A #1; TBG
Stn. No.: API # 3004520770
Mtr. No.:

TUBING

05/24/2019
35825-11190

Smpl Date: 05/13/2019
Test Date: 05/20/2019
Run No: HS190064

Nitrogen: 1.1097
CO2: 1.2860
Methane: 92.7730
Ethane: 2.2536
Propane: 1.0811
I-Butane: 0.2009
N-Butane: 0.3340
I-Pentane: 0.1439
N-Pentane: 0.1399
Hexane+: 0.6779

BTU: 1073.8
GPM: 17.5870
SPG: 0.6256