



Well Name: MOUNTAIN UTE COM A
 API #: API # 3004520770
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021050
 Cust No: 35825-11180

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	MOUNTAIN UTE COM A #1; BHD	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	179 PSIG
Location:		Flow Temp:	45 DEG. F
Lease/PA/CA:	142060462	Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004520770	Sample Method:	Purge & Fill
		Sample Date:	04/27/2021
		Sample Time:	9.25 AM
		Sampled By:	DANIEL RIOS
		Sampled by (CO):	HILCORP

Heat Trace: AREA 2 / RUN 0202

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1632	1.1483	0.1280	0.00	0.0113
CO2	0.0033	0.0033	0.0010	0.00	0.0001
Methane	80.9994	79.9626	13.7740	818.09	0.4487
Ethane	9.8062	9.6807	2.6310	173.54	0.1018
Propane	5.5153	5.4447	1.5240	138.77	0.0840
Iso-Butane	0.5336	0.5268	0.1750	17.35	0.0107
N-Butane	1.3110	1.2942	0.4150	42.77	0.0263
I-Pentane	0.2502	0.2470	0.0920	10.01	0.0062
N-Pentane	0.2086	0.2059	0.0760	8.36	0.0052
Hexane Plus	0.2092	0.2065	0.0940	11.03	0.0069
Total	100.0000	98.7200	18.9100	1219.93	0.7011

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0033	CYLINDER #:	7042
BTU/CU.FT IDEAL:	1222.7	CYLINDER PRESSURE:	190 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1226.8	ANALYSIS DATE:	05/04/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1205.5	ANALYSIS TIME:	04:16:18 PM
DRY BTU @ 15.025:	1251.4	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.7031		

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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MOUNTAIN UTE COM A #1; BHD	BRADENHEAD	05/05/2021
Stn. No.:	API # 3004520770		35825-11180
Mtr. No.:			

Smpl Date:	04/27/2021	05/13/2019
Test Date:	05/04/2021	05/17/2019
Run No:	HS2021050	HS190062
Nitrogen:	1.1632	1.3689
CO2:	0.0033	0.0134
Methane:	80.9994	82.7137
Ethane:	9.8062	8.8697
Propane:	5.5153	4.8915
I-Butane:	0.5336	0.4997
N-Butane:	1.3110	1.1128
I-Pentane:	0.2502	0.2018
N-Pentane:	0.2086	0.1596
Hexane+:	0.2092	0.1689
BTU:	1226.8	1197.8
GPM:	18.9100	18.6690
SPG:	0.7031	0.6870



Well Name: MOUNTAIN UTE COM A
 API #: API # 3004520770
 Source: CASING
 Sample Type: GAS
 Analysis No: HS2021051
 Cust No: 35825-11185

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	MOUNTAIN UTE COM A #1; CSG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	818 PSIG
Location:		Flow Temp:	45 DEG. F
Lease/PA/CA:	142060462	Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004520770	Sample Method:	Purge & Fill
		Sample Date:	04/27/2021
		Sample Time:	9.22 AM
		Sampled By:	DANIEL RIOS
		Sampled by (CO):	HILCORP

Heat Trace: AREA 2 / RUN 0202

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4731	1.4494	0.1620	0.00	0.0142
CO2	1.3482	1.3265	0.2310	0.00	0.0205
Methane	94.4495	92.9270	16.0430	953.94	0.5232
Ethane	1.7137	1.6861	0.4590	30.33	0.0178
Propane	0.2574	0.2533	0.0710	6.48	0.0039
Iso-Butane	0.0529	0.0520	0.0170	1.72	0.0011
N-Butane	0.2494	0.2454	0.0790	8.14	0.0050
I-Pentane	0.1189	0.1170	0.0440	4.76	0.0030
N-Pentane	0.1084	0.1067	0.0390	4.35	0.0027
Hexane Plus	0.2285	0.2248	0.1020	12.04	0.0076
Total	100.0000	98.3882	17.2470	1021.75	0.5989

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0022	CYLINDER #:	7016
BTU/CU.FT IDEAL:	1024.1	CYLINDER PRESSURE:	31 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1026.4	ANALYSIS DATE:	05/04/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1008.5	ANALYSIS TIME:	10:38:12 AM
DRY BTU @ 15.025:	1047.0	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6		

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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MOUNTAIN UTE COM A #1; CSG CASING 05/05/2021
Stn. No.: API # 3004520770 35825-11185
Mtr. No.:

Smpl Date:	04/27/2021	05/13/2019
Test Date:	05/04/2021	05/20/2019
Run No:	HS2021051	HS190063
Nitrogen:	1.4731	1.1508
CO2:	1.3482	1.3128
Methane:	94.4495	92.8203
Ethane:	1.7137	2.2427
Propane:	0.2574	0.9817
I-Butane:	0.0529	0.1969
N-Butane:	0.2494	0.3328
I-Pentane:	0.1189	0.1419
N-Pentane:	0.1084	0.1372
Hexane+:	0.2285	0.6829
BTU:	1026.4	1071.5
GPM:	17.2470	17.5720
SPG:	0.6000	0.6249



Well Name: MOUNTAIN UTE COM A
 API #: API # 3004520770
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS2021052
 Cust No: 35825-11190

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	MOUNTAIN UTE COM A #1; TBG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	314 PSIG
Location:		Flow Temp:	45 DEG. F
Lease/PA/CA:	142060462	Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004520770	Sample Method:	Purge & Fill
		Sample Date:	04/27/2021
		Sample Time:	9.23 AM
		Sampled By:	DANIEL RIOS
		Sampled by (CO):	HILCORP

Heat Trace: AREA 2 / RUN 0202

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0735	1.0583	0.1180	0.00	0.0104
CO2	1.3211	1.3024	0.2260	0.00	0.0201
Methane	93.1659	91.8490	15.8280	940.98	0.5160
Ethane	2.3213	2.2885	0.6220	41.08	0.0241
Propane	0.9407	0.9274	0.2600	23.67	0.0143
Iso-Butane	0.2177	0.2146	0.0710	7.08	0.0044
N-Butane	0.3513	0.3463	0.1110	11.46	0.0070
I-Pentane	0.1446	0.1426	0.0530	5.79	0.0036
N-Pentane	0.1351	0.1332	0.0490	5.42	0.0034
Hexane Plus	0.3288	0.3242	0.1470	17.33	0.0109
Total	100.0000	98.5865	17.4850	1052.80	0.6142

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0024	CYLINDER #:	5041
BTU/CU.FT IDEAL:	1055.2	CYLINDER PRESSURE:	742 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1057.8	ANALYSIS DATE:	05/04/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1039.4	ANALYSIS TIME:	10:24:48 AM
DRY BTU @ 15.025:	1079.0	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6154		

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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MOUNTAIN UTE COM A #1; TBG	TUBING	05/05/2021
Stn. No.:	API # 3004520770		35825-11190
Mtr. No.:			

Smpl Date:	04/27/2021	05/13/2019
Test Date:	05/04/2021	05/20/2019
Run No:	HS2021052	HS190064
Nitrogen:	1.0735	1.1097
CO2:	1.3211	1.2860
Methane:	93.1659	92.7730
Ethane:	2.3213	2.2536
Propane:	0.9407	1.0811
I-Butane:	0.2177	0.2009
N-Butane:	0.3513	0.3340
I-Pentane:	0.1446	0.1439
N-Pentane:	0.1351	0.1399
Hexane+:	0.3288	0.6779
BTU:	1057.8	1073.8
GPM:	17.4850	17.5870
SPG:	0.6154	0.6256

District I

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District II

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District IV

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 27341

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27341	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								