



Well Name: UTE MOUNTAIN UTE #41;
 API #: 3004529355
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240113
 Cust No: 35825-11265

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	UTE MOUNTAIN UTE #41; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	285 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004529355	Sample Method:	Purge & Fill
	91901143	Sample Date:	05/21/2024
	FR073KC	Sample Time:	1.35 PM
	AREA 2 / RUN 200	Sampled By:	REX FARNSWORTH
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9143	0.9119	0.1010	0.00	0.0088
CO2	0.3239	0.3230	0.0550	0.00	0.0049
Methane	92.3967	92.1514	15.6990	933.21	0.5118
Ethane	3.6900	3.6802	0.9890	65.30	0.0383
Propane	1.2131	1.2099	0.3350	30.52	0.0185
Iso-Butane	0.2704	0.2697	0.0890	8.79	0.0054
N-Butane	0.4646	0.4634	0.1470	15.16	0.0093
I-Pentane	0.1790	0.1785	0.0660	7.16	0.0045
N-Pentane	0.1617	0.1613	0.0590	6.48	0.0040
Hexane Plus	0.3863	0.3853	0.1730	20.36	0.0128
Total	100.0000	99.7346	17.7130	1086.99	0.6184

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0025	CYLINDER #:	2156
BTU/CU.FT IDEAL:	1089.5	CYLINDER PRESSURE:	73 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1092.2	ANALYSIS DATE:	05/29/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1073.2	ANALYSIS TIME:	11:06:59 AM
DRY BTU @ 15.025:	1114.1	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6197		

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: 05/31/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE MOUNTAIN UTE #41; BHD	BRADENHEAD	05/31/2024
Stn. No.:	3004529355	DK	35825-11265
Mtr. No.:	91901143		

Smpl Date:	05/21/2024	05/16/2019
Test Date:	05/29/2024	05/23/2019
Run No:	HS20240113	HS190080
Nitrogen:	0.9143	0.9892
CO2:	0.3239	0.0551
Methane:	92.3967	93.7967
Ethane:	3.6900	3.3380
Propane:	1.2131	0.9937
I-Butane:	0.2704	0.1951
N-Butane:	0.4646	0.3057
I-Pentane:	0.1790	0.0977
N-Pentane:	0.1617	0.0824
Hexane+:	0.3863	0.1464
BTU:	1092.2	1067.6
GPM:	17.7130	17.5130
SPG:	0.6197	0.6003



Well Name: UTE MOUNTAIN UTE #41;
 API #: 3004529355
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20240114
 Cust No: 35825-11270

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	UTE MOUNTAIN UTE #41; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	305 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004529355	Sample Method:	Purge & Fill
	91901143	Sample Date:	05/21/2024
	FR073KC	Sample Time:	1.35 PM
	AREA 2 / RUN 200	Sampled By:	REX FARNSWORTH
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9849	0.9845	0.1090	0.00	0.0095
CO2	0.5699	0.5697	0.0970	0.00	0.0087
Methane	91.5917	91.5535	15.5640	925.08	0.5073
Ethane	3.6840	3.6825	0.9880	65.20	0.0382
Propane	1.2712	1.2707	0.3510	31.98	0.0194
Iso-Butane	0.2961	0.2960	0.0970	9.63	0.0059
N-Butane	0.5250	0.5248	0.1660	17.13	0.0105
I-Pentane	0.2185	0.2184	0.0800	8.74	0.0054
N-Pentane	0.2073	0.2072	0.0750	8.31	0.0052
Hexane Plus	0.6514	0.6511	0.2910	34.34	0.0216
Total	100.0000	99.9584	17.8180	1100.40	0.6318

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0026	CYLINDER #:	2162
BTU/CU.FT IDEAL:	1102.9	CYLINDER PRESSURE:	324 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1105.8	ANALYSIS DATE:	05/29/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1086.6	ANALYSIS TIME:	11:23:05 AM
DRY BTU @ 15.025:	1127.9	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6332		

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: 05/31/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE MOUNTAIN UTE #41; CSG	CASING	05/31/2024
Stn. No.:	3004529355	DK	35825-11270
Mtr. No.:	91901143		

Smpl Date:	05/21/2024	05/16/2019
Test Date:	05/29/2024	05/23/2019
Run No:	HS20240114	HS190081
Nitrogen:	0.9849	0.8900
CO2:	0.5699	0.6023
Methane:	91.5917	88.8281
Ethane:	3.6840	3.4789
Propane:	1.2712	1.2481
I-Butane:	0.2961	0.3330
N-Butane:	0.5250	0.6099
I-Pentane:	0.2185	0.3579
N-Pentane:	0.2073	0.3699
Hexane+:	0.6514	3.2819
BTU:	1105.8	1230.3
GPM:	17.8180	18.6250
SPG:	0.6332	0.7129



Well Name: UTE MOUNTAIN UTE #41;
 API #: 3004529355
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20240115
 Cust No: 35825-11275

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	UTE MOUNTAIN UTE #41; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	304 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004529355	Sample Method:	Purge & Fill
	91901143	Sample Date:	05/21/2024
	FR073KC	Sample Time:	1.35 PM
	AREA 2 / RUN 200	Sampled By:	REX FARNSWORTH
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7578	0.7584	0.0840	0.00	0.0073
CO2	0.5041	0.5045	0.0860	0.00	0.0077
Methane	91.5285	91.6066	15.5520	924.44	0.5070
Ethane	4.3256	4.3293	1.1590	76.55	0.0449
Propane	1.4045	1.4057	0.3880	35.34	0.0214
Iso-Butane	0.2943	0.2946	0.0970	9.57	0.0059
N-Butane	0.5289	0.5294	0.1670	17.25	0.0106
I-Pentane	0.1866	0.1868	0.0680	7.47	0.0046
N-Pentane	0.1677	0.1678	0.0610	6.72	0.0042
Hexane Plus	0.3020	0.3023	0.1350	15.92	0.0100
Total	100.0000	100.0854	17.7970	1093.26	0.6236

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0025	CYLINDER #:	03
BTU/CU.FT IDEAL:	1095.8	CYLINDER PRESSURE:	307 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1098.5	ANALYSIS DATE:	05/29/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1079.4	ANALYSIS TIME:	11:14:47 AM
DRY BTU @ 15.025:	1120.5	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6249		

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: 05/31/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE MOUNTAIN UTE #41; TBG	TUBING	05/31/2024
Stn. No.:	3004529355	DK	35825-11275
Mtr. No.:	91901143		

Smpl Date:	05/21/2024	05/16/2019
Test Date:	05/29/2024	05/23/2019
Run No:	HS20240115	HS190082
Nitrogen:	0.7578	0.7827
CO2:	0.5041	0.4986
Methane:	91.5285	91.7288
Ethane:	4.3256	4.1201
Propane:	1.4045	1.3319
I-Butane:	0.2943	0.2786
N-Butane:	0.5289	0.4894
I-Pentane:	0.1866	0.1789
N-Pentane:	0.1677	0.1688
Hexane+:	0.3020	0.4222
BTU:	1098.5	1099.4
GPM:	17.7970	17.7920
SPG:	0.6249	0.6256

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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 356417

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 356417
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Same gas all strings - 285 psi on bradenhead	7/8/2024
mkuehling	Contact Durango BLM to find out how to proceed.	8/27/2024