



Well Name: UTE INDIANS A 43; BHD

API #: API # 3004534326

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20220035

Cust No: 35825-11860

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A 43; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 142060462

Formation:

Cust. Stn. No.: API # 3004534326
52900028

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: BRADENHEAD

Well Flowing: N

Pressure: 72 PSIG

Flow Temp: 60 DEG. F

Ambient Temp: 60 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 11.22 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4044	1.3954	0.1550	0.00	0.0136
CO2	0.0119	0.0118	0.0020	0.00	0.0002
Methane	88.2107	87.6463	14.9920	890.93	0.4886
Ethane	4.7764	4.7458	1.2810	84.53	0.0496
Propane	3.5693	3.5465	0.9860	89.81	0.0543
Iso-Butane	0.3687	0.3663	0.1210	11.99	0.0074
N-Butane	0.9932	0.9868	0.3140	32.40	0.0199
I-Pentane	0.2126	0.2112	0.0780	8.51	0.0053
N-Pentane	0.1888	0.1876	0.0690	7.57	0.0047
Hexane Plus	0.2640	0.2623	0.1180	13.92	0.0087
Total	100.0000	99.3600	18.1160	1139.64	0.6524

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 1142.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1145.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1125.6
 DRY BTU @ 15.025: 1168.4
 REAL SPECIFIC GRAVITY: 0.6539

CYLINDER #: 6177
 CYLINDER PRESSURE: 77 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 08:30:18 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: 05/06/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE INDIANS A 43; BHD	BRADENHEAD	05/06/2022
Stn. No.:	API # 3004534326		35825-11860
Mtr. No.:	52900028		

Smpl Date:	04/27/2022	04/27/2021	08/07/2019
Test Date:	05/03/2022	05/04/2021	08/14/2019
Run No:	HS20220035	HS2021056	HS190222
Nitrogen:	1.4044	1.4156	2.7160
CO2:	0.0119	0.0042	0.0190
Methane:	88.2107	87.9132	86.0900
Ethane:	4.7764	4.8324	5.7309
Propane:	3.5693	3.6648	3.2416
I-Butane:	0.3687	0.3791	0.4061
N-Butane:	0.9932	1.0202	0.9539
I-Pentane:	0.2126	0.2209	0.2363
N-Pentane:	0.1888	0.1972	0.2146
Hexane+:	0.2640	0.3524	0.3916
BTU:	1145.5	1152.5	1141.3
GPM:	18.1160	18.1650	18.1410
SPG:	0.6539	0.6584	0.6653



Well Name: UTE INDIANS A 43; CSG

API #: API # 3004534326

Source: CASING

Sample Type: GAS

Analysis No: HS20220036

Cust No: 35825-11865

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A 43; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 142060462

Formation:

Cust. Stn. No.: API # 3004534326
52900028

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: N

Pressure: 473 PSIG

Flow Temp: 60 DEG. F

Ambient Temp: 60 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 11.05 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.5134	1.4970	0.1670	0.00	0.0146
CO2	1.3948	1.3797	0.2390	0.00	0.0212
Methane	92.5078	91.5067	15.7170	934.33	0.5124
Ethane	2.5146	2.4874	0.6740	44.50	0.0261
Propane	0.9994	0.9886	0.2760	25.15	0.0152
Iso-Butane	0.2193	0.2169	0.0720	7.13	0.0044
N-Butane	0.3350	0.3314	0.1060	10.93	0.0067
I-Pentane	0.1398	0.1383	0.0510	5.59	0.0035
N-Pentane	0.1181	0.1168	0.0430	4.73	0.0029
Hexane Plus	0.2578	0.2550	0.1150	13.59	0.0085
Total	100.0000	98.9178	17.4600	1045.95	0.6156

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1048.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1050.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1032.6
 DRY BTU @ 15.025: 1071.9
 REAL SPECIFIC GRAVITY: 0.6169

CYLINDER #: 4130
 CYLINDER PRESSURE: 187 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 08:49:20 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: 05/06/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE INDIANS A 43; CSG	CASING	05/06/2022
Stn. No.:	API # 3004534326		35825-11865
Mtr. No.:	52900028		

Smpl Date:	04/27/2022	04/27/2021	08/07/2019
Test Date:	05/03/2022	05/04/2021	08/14/2019
Run No:	HS20220036	HS2021058	HS190223
Nitrogen:	1.5134	1.6212	1.4395
CO2:	1.3948	1.1973	0.4572
Methane:	92.5078	92.3021	89.1745
Ethane:	2.5146	2.7095	5.4549
Propane:	0.9994	1.1225	2.0739
I-Butane:	0.2193	0.2417	0.3515
N-Butane:	0.3350	0.3373	0.5138
I-Pentane:	0.1398	0.1349	0.1696
N-Pentane:	0.1181	0.1123	0.1337
Hexane+:	0.2578	0.2212	0.2314
BTU:	1050.9	1053.8	1107.3
GPM:	17.4600	17.4770	17.9160
SPG:	0.6169	0.6167	0.6370



Well Name: UTE INDIANS A 43; TBG

API #: API # 3004534326

Source: TUBING

Sample Type: GAS

Analysis No: HS20220037

Cust No: 35825-11870

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A 43; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 142060462

Formation:

Cust. Stn. No.: API # 3004534326
52900028

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: TUBING

Well Flowing: N

Pressure: 477 PSIG

Flow Temp: 60 DEG. F

Ambient Temp: 60 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 11.15 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1511	1.1251	0.1270	0.00	0.0111
CO2	1.7300	1.6909	0.2960	0.00	0.0263
Methane	93.9932	91.8716	15.9690	949.33	0.5206
Ethane	1.3759	1.3448	0.3690	24.35	0.0143
Propane	0.5416	0.5294	0.1500	13.63	0.0082
Iso-Butane	0.1666	0.1628	0.0550	5.42	0.0033
N-Butane	0.2584	0.2526	0.0820	8.43	0.0052
I-Pentane	0.1466	0.1433	0.0540	5.87	0.0037
N-Pentane	0.1311	0.1281	0.0480	5.26	0.0033
Hexane Plus	0.5055	0.4941	0.2260	26.65	0.0167
Total	100.0000	97.7427	17.3760	1038.92	0.6128

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1041.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1043.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1025.5
 DRY BTU @ 15.025: 1064.6
 REAL SPECIFIC GRAVITY: 0.6139

CYLINDER #: 4062
 CYLINDER PRESSURE: 419 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 08:57:18 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: 05/06/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE INDIANS A 43; TBG	TUBING	05/06/2022
Stn. No.:	API # 3004534326		35825-11870
Mtr. No.:	52900028		

Smpl Date:	04/27/2022	04/27/2021	08/07/2019
Test Date:	05/03/2022	05/04/2021	08/14/2019
Run No:	HS20220037	HS2021057	HS190224
Nitrogen:	1.1511	1.1417	1.1826
CO2:	1.7300	1.8092	1.4537
Methane:	93.9932	94.1359	93.8413
Ethane:	1.3759	1.3954	1.5622
Propane:	0.5416	0.5398	0.5630
I-Butane:	0.1666	0.1634	0.1629
N-Butane:	0.2584	0.2474	0.2436
I-Pentane:	0.1466	0.1357	0.1287
N-Pentane:	0.1311	0.1217	0.1146
Hexane+:	0.5055	0.3098	0.7474
BTU:	1043.7	1033.8	1057.0
GPM:	17.3760	17.3140	17.4490
SPG:	0.6139	0.6087	0.6183

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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 106581

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106581
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	bradenhead 72 psi at time of sampling	9/20/2022