



Well Name: UTE INDIANS A 8; BHD

API #: API # 3004520750

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS2021053

Cust No: 35825-11845

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A 8; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 14-20-604-62

Formation:

Cust. Stn. No.: API # 3004520750

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Source: BRADENHEAD

Well Flowing: N

Pressure: 71 PSIG

Flow Temp: 45 DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2021

Sample Time: 11.02 AM

Sampled By: DANIEL RIOS

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3052	1.2748	0.1440	0.00	0.0126
CO2	0.0114	0.0111	0.0020	0.00	0.0002
Methane	82.5505	80.6251	14.0360	833.76	0.4572
Ethane	8.3421	8.1475	2.2380	147.63	0.0866
Propane	5.2474	5.1250	1.4500	132.03	0.0799
Iso-Butane	0.5621	0.5490	0.1840	18.28	0.0113
N-Butane	1.3464	1.3150	0.4260	43.92	0.0270
I-Pentane	0.2519	0.2460	0.0920	10.08	0.0063
N-Pentane	0.2013	0.1966	0.0730	8.07	0.0050
Hexane Plus	0.1817	0.1775	0.0810	9.58	0.0060
Total	100.0000	97.6676	18.7260	1203.35	0.6921

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1206.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1210.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1188.9
 DRY BTU @ 15.025: 1234.2
 REAL SPECIFIC GRAVITY: 0.6941

CYLINDER #: 7047
 CYLINDER PRESSURE: 65 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 04:03:30 PM
 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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE INDIANS A 8; BHD	BRADENHEAD	05/05/2021
Stn. No.:	API # 3004520750		35825-11845
Mtr. No.:			

Smpl Date:	04/27/2021	08/02/2019
Test Date:	05/04/2021	08/14/2019
Run No:	HS2021053	HS190219
Nitrogen:	1.3052	3.6517
CO2:	0.0114	0.0129
Methane:	82.5505	80.7073
Ethane:	8.3421	8.1117
Propane:	5.2474	5.0322
I-Butane:	0.5621	0.5228
N-Butane:	1.3464	1.2721
I-Pentane:	0.2519	0.2442
N-Pentane:	0.2013	0.2023
Hexane+:	0.1817	0.2428
BTU:	1210.0	1180.9
GPM:	18.7260	18.5390
SPG:	0.6941	0.7005



Well Name: UTE INDIANS A 8; CSG

API #: API # 3004520750

Source: CASING

Sample Type: GAS

Analysis No: HS2021054

Cust No: 35825-11850

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A 8; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 14-20-604-62

Formation:

Cust. Stn. No.: API # 3004520750

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Source: CASING

Well Flowing: N

Pressure: 503 PSIG

Flow Temp: 52 DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2021

Sample Time: 11.01 AM

Sampled By: DANIEL RIOS

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7456	0.7401	0.0820	0.00	0.0072
CO2	2.5475	2.5287	0.4360	0.00	0.0387
Methane	92.7702	92.0847	15.7610	936.98	0.5139
Ethane	2.1395	2.1237	0.5730	37.86	0.0222
Propane	0.7435	0.7380	0.2050	18.71	0.0113
Iso-Butane	0.2620	0.2601	0.0860	8.52	0.0053
N-Butane	0.2556	0.2537	0.0810	8.34	0.0051
I-Pentane	0.1400	0.1390	0.0510	5.60	0.0035
N-Pentane	0.0872	0.0866	0.0320	3.50	0.0022
Hexane Plus	0.3089	0.3066	0.1380	16.28	0.0102
Total	100.0000	99.2612	17.4450	1035.79	0.6196

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1038.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1040.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1022.6
 DRY BTU @ 15.025: 1061.5
 REAL SPECIFIC GRAVITY: 0.6208

CYLINDER #: 6099
 CYLINDER PRESSURE: 519 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 11:38:44 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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE INDIANS A 8; CSG	CASING	05/05/2021
Stn. No.:	API # 3004520750		35825-11850
Mtr. No.:			

Smpl Date:	04/27/2021	08/02/2019
Test Date:	05/04/2021	08/14/2019
Run No:	HS2021054	HS190220
Nitrogen:	0.7456	1.1358
CO2:	2.5475	4.0964
Methane:	92.7702	90.7609
Ethane:	2.1395	2.1870
Propane:	0.7435	0.7029
I-Butane:	0.2620	0.2328
N-Butane:	0.2556	0.2587
I-Pentane:	0.1400	0.1349
N-Pentane:	0.0872	0.1010
Hexane+:	0.3089	0.3896
BTU:	1040.7	1023.9
GPM:	17.4450	17.4440
SPG:	0.6208	0.6393



Well Name: UTE INDIANS A 8; TBG

API #: API # 3004520750

Source: TUBING

Sample Type: GAS

Analysis No: HS2021055

Cust No: 35825-11855

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A 8; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 14-20-604-62

Formation:

Cust. Stn. No.: API # 3004520750

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Source: TUBING

Well Flowing: N

Pressure: 503 PSIG

Flow Temp: 52 DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2021

Sample Time: 10.55 AM

Sampled By: DANIEL RIOS

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8270	0.8205	0.0910	0.00	0.0080
CO2	5.0610	5.0215	0.8660	0.00	0.0769
Methane	90.5095	89.8029	15.3770	914.15	0.5013
Ethane	1.8577	1.8432	0.4980	32.88	0.0193
Propane	0.7473	0.7415	0.2060	18.80	0.0114
Iso-Butane	0.2298	0.2280	0.0750	7.47	0.0046
N-Butane	0.2334	0.2316	0.0740	7.61	0.0047
I-Pentane	0.1398	0.1387	0.0510	5.59	0.0035
N-Pentane	0.0913	0.0906	0.0330	3.66	0.0023
Hexane Plus	0.3032	0.3008	0.1360	15.98	0.0100
Total	100.0000	99.2193	17.4070	1006.15	0.6420

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1008.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1010.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 993.3
 DRY BTU @ 15.025: 1031.1
 REAL SPECIFIC GRAVITY: 0.6433

CYLINDER #: 4042
 CYLINDER PRESSURE: 519 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 11:22:11 AM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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: UTE INDIANS A 8; TBG
Stn. No.: API # 3004520750
Mtr. No.:

TUBING

05/05/2021
35825-11855

Smpl Date:	04/27/2021	08/02/2019
Test Date:	05/04/2021	08/14/2019
Run No:	HS2021055	HS190221
Nitrogen:	0.8270	0.9417
CO2:	5.0610	2.9903
Methane:	90.5095	90.7582
Ethane:	1.8577	2.7624
Propane:	0.7473	1.0254
I-Butane:	0.2298	0.3961
N-Butane:	0.2334	0.4741
I-Pentane:	0.1398	0.2249
N-Pentane:	0.0913	0.1108
Hexane+:	0.3032	0.3161
BTU:	1010.9	1054.9
GPM:	17.4070	17.6020
SPG:	0.6433	0.6392

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
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 27316

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27316	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								