



Well Name: UTE INDIANS A 8; BHD

API #: API # 3004520750

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20220029

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: DK

Cust. Stn. No.: API # 3004520750

FR2573KF

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: BRADENHEAD

Well Flowing: N

Pressure: 61 PSIG

Flow Temp: 57 DEG. F

Ambient Temp: 57 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 9.28 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3359	1.2932	0.1470	0.00	0.0129
CO2	0.0252	0.0244	0.0040	0.00	0.0004
Methane	83.0085	80.3578	14.1140	838.39	0.4598
Ethane	8.1037	7.8449	2.1740	143.41	0.0841
Propane	5.0435	4.8824	1.3940	126.90	0.0768
Iso-Butane	0.5333	0.5163	0.1750	17.34	0.0107
N-Butane	1.2959	1.2545	0.4100	42.28	0.0260
I-Pentane	0.2530	0.2449	0.0930	10.12	0.0063
N-Pentane	0.2033	0.1968	0.0740	8.15	0.0051
Hexane Plus	0.1977	0.1914	0.0880	10.42	0.0065
Total	100.0000	96.8066	18.6730	1197.01	0.6886

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1199.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1203.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1182.7
 DRY BTU @ 15.025: 1227.7
 REAL SPECIFIC GRAVITY: 0.6906

CYLINDER #: 6070
 CYLINDER PRESSURE: 55 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 10:36:40 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 8; BHD	BRADENHEAD	05/06/2022
Stn. No.:	API # 3004520750	DK	35825-11845
Mtr. No.:	FR2573KF		

Smpl Date:	04/27/2022	04/27/2021	08/02/2019
Test Date:	05/03/2022	05/04/2021	08/14/2019
Run No:	HS20220029	HS2021053	HS190219
Nitrogen:	1.3359	1.3052	3.6517
CO2:	0.0252	0.0114	0.0129
Methane:	83.0085	82.5505	80.7073
Ethane:	8.1037	8.3421	8.1117
Propane:	5.0435	5.2474	5.0322
I-Butane:	0.5333	0.5621	0.5228
N-Butane:	1.2959	1.3464	1.2721
I-Pentane:	0.2530	0.2519	0.2442
N-Pentane:	0.2033	0.2013	0.2023
Hexane+:	0.1977	0.1817	0.2428
BTU:	1203.6	1210.0	1180.9
GPM:	18.6730	18.7260	18.5390
SPG:	0.6906	0.6941	0.7005



Well Name: UTE INDIANS A 8; CSG

API #: API # 3004520750

Source: CASING

Sample Type: GAS

Analysis No: HS20220031

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

FR2573KF

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: N

Pressure: 533 PSIG

Flow Temp: 57 DEG. F

Ambient Temp: 57 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 9.25 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7170	0.7076	0.0790	0.00	0.0069
CO2	2.3645	2.3336	0.4040	0.00	0.0359
Methane	92.7844	91.5711	15.7640	937.12	0.5139
Ethane	2.1533	2.1251	0.5770	38.11	0.0224
Propane	0.7514	0.7416	0.2070	18.91	0.0114
Iso-Butane	0.2677	0.2642	0.0880	8.71	0.0054
N-Butane	0.2797	0.2760	0.0880	9.12	0.0056
I-Pentane	0.1601	0.1580	0.0590	6.41	0.0040
N-Pentane	0.1026	0.1013	0.0370	4.11	0.0026
Hexane Plus	0.4193	0.4138	0.1870	22.10	0.0139
Total	100.0000	98.6923	17.4900	1044.59	0.6220

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1047.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1049.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1031.2
 DRY BTU @ 15.025: 1070.5
 REAL SPECIFIC GRAVITY: 0.6232

CYLINDER #: 6181
 CYLINDER PRESSURE: 536 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 09:13:21 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 8; CSG	CASING	05/06/2022
Stn. No.:	API # 3004520750		35825-11850
Mtr. No.:	FR2573KF		

Smpl Date:	04/27/2022	04/27/2021	08/02/2019
Test Date:	05/03/2022	05/04/2021	08/14/2019
Run No:	HS20220031	HS2021054	HS190220
Nitrogen:	0.7170	0.7456	1.1358
CO2:	2.3645	2.5475	4.0964
Methane:	92.7844	92.7702	90.7609
Ethane:	2.1533	2.1395	2.1870
Propane:	0.7514	0.7435	0.7029
I-Butane:	0.2677	0.2620	0.2328
N-Butane:	0.2797	0.2556	0.2587
I-Pentane:	0.1601	0.1400	0.1349
N-Pentane:	0.1026	0.0872	0.1010
Hexane+:	0.4193	0.3089	0.3896
BTU:	1049.5	1040.7	1023.9
GPM:	17.4900	17.4450	17.4440
SPG:	0.6232	0.6208	0.6393



Well Name: UTE INDIANS A 8; TBG

API #: API # 3004520750

Source: TUBING

Sample Type: GAS

Analysis No: HS20220030

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

FR2573KF

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: TUBING

Well Flowing: N

Pressure: 534 PSIG

Flow Temp: 57 DEG. F

Ambient Temp: 57 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 9.22 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7929	0.7835	0.0870	0.00	0.0077
CO2	5.0950	5.0343	0.8710	0.00	0.0774
Methane	90.5741	89.4951	15.3880	914.80	0.5017
Ethane	1.8869	1.8644	0.5060	33.39	0.0196
Propane	0.6086	0.6013	0.1680	15.31	0.0093
Iso-Butane	0.2192	0.2166	0.0720	7.13	0.0044
N-Butane	0.2324	0.2296	0.0730	7.58	0.0047
I-Pentane	0.1415	0.1398	0.0520	5.66	0.0035
N-Pentane	0.0924	0.0913	0.0340	3.70	0.0023
Hexane Plus	0.3570	0.3527	0.1600	18.82	0.0118
Total	100.0000	98.8086	17.4110	1006.40	0.6423

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1008.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1011.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 993.6
 DRY BTU @ 15.025: 1031.5
 REAL SPECIFIC GRAVITY: 0.6436

CYLINDER #: 7058
 CYLINDER PRESSURE: 530 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 09:21:45 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 8; TBG	TUBING	05/06/2022
Stn. No.:	API # 3004520750		35825-11855
Mtr. No.:	FR2573KF		

Smpl Date:	04/27/2022	04/27/2021	08/02/2019
Test Date:	05/03/2022	05/04/2021	08/14/2019
Run No:	HS20220030	HS2021055	HS190221
Nitrogen:	0.7929	0.8270	0.9417
CO2:	5.0950	5.0610	2.9903
Methane:	90.5741	90.5095	90.7582
Ethane:	1.8869	1.8577	2.7624
Propane:	0.6086	0.7473	1.0254
I-Butane:	0.2192	0.2298	0.3961
N-Butane:	0.2324	0.2334	0.4741
I-Pentane:	0.1415	0.1398	0.2249
N-Pentane:	0.0924	0.0913	0.1108
Hexane+:	0.3570	0.3032	0.3161
BTU:	1011.2	1010.9	1054.9
GPM:	17.4110	17.4070	17.6020
SPG:	0.6436	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

COMMENTS

Action 106587

COMMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106587
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

COMMENTS

Created By	Comment	Comment Date
mkuehling	FOR RECORD ONLY	6/14/2022

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
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1000 Rio Brazos Rd., Aztec, NM 87410
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District IV
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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 106587

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106587
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record only	9/1/2022