



Well Name: UTE INDIANS A #39; BHD
 API #: API # 3004533284
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220032
 Cust No: 35825-13600

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	UTE INDIANS A #39; BHD	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	109 PSIG
Location:		Flow Temp:	56 DEG. F
Lease/PA/CA:	14-20-604-62	Ambient Temp:	56 DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	API # 3004533284	Sample Method:	Purge & Fill
	FR1844RU	Sample Date:	04/27/2022
	AREA 2 / RUN 0200	Sample Time:	8.40 AM
Heat Trace:	N	Sampled By:	VICTOR R.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3237	1.2847	0.1460	0.00	0.0128
CO2	0.0141	0.0137	0.0020	0.00	0.0002
Methane	83.5989	81.1368	14.2130	844.35	0.4631
Ethane	7.9164	7.6832	2.1230	140.10	0.0822
Propane	4.9028	4.7584	1.3550	123.36	0.0746
Iso-Butane	0.4728	0.4589	0.1550	15.37	0.0095
N-Butane	1.2039	1.1684	0.3810	39.27	0.0242
I-Pentane	0.2289	0.2222	0.0840	9.16	0.0057
N-Pentane	0.1888	0.1832	0.0690	7.57	0.0047
Hexane Plus	0.1497	0.1453	0.0670	7.89	0.0050
Total	100.0000	97.0548	18.5950	1187.07	0.6819

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	4244
BTU/CU.FT IDEAL:	1189.8	CYLINDER PRESSURE:	107 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1193.5	ANALYSIS DATE:	05/03/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1172.7	ANALYSIS TIME:	10:28:42 AM
DRY BTU @ 15.025:	1217.4	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6838		

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 #39; BHD	BRADENHEAD	05/06/2022
Stn. No.:	API # 3004533284	DK	35825-13600
Mtr. No.:	FR1844RU		

Smpl Date:	04/27/2022	04/27/2021
Test Date:	05/03/2022	05/05/2021
Run No:	HS20220032	HS2021076
Nitrogen:	1.3237	1.2022
CO2:	0.0141	0.0240
Methane:	83.5989	83.2392
Ethane:	7.9164	8.1532
Propane:	4.9028	5.0385
I-Butane:	0.4728	0.4895
N-Butane:	1.2039	1.2879
I-Pentane:	0.2289	0.2458
N-Pentane:	0.1888	0.1990
Hexane+:	0.1497	0.1207
BTU:	1193.5	1200.4
GPM:	18.5950	18.6520
SPG:	0.6838	0.6870



Well Name: UTE INDIANS A #39; CSG

API #: API # 3004533284

Source: CASING

Sample Type: GAS

Analysis No: HS20220034

Cust No: 35825-13605

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A #39; CSG

County/State: SAN JUAN NM

Location:

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

Formation:

Cust. Stn. No.: API # 3004533284

FR1844RU

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: N

Pressure: 535 PSIG

Flow Temp: 56 DEG. F

Ambient Temp: 56 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 8.38 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5941	0.5859	0.0650	0.00	0.0057
CO2	0.6305	0.6218	0.1080	0.00	0.0096
Methane	95.0531	93.7361	16.1470	960.04	0.5265
Ethane	1.9930	1.9654	0.5340	35.27	0.0207
Propane	0.6675	0.6583	0.1840	16.79	0.0102
Iso-Butane	0.1949	0.1922	0.0640	6.34	0.0039
N-Butane	0.2722	0.2684	0.0860	8.88	0.0055
I-Pentane	0.1422	0.1402	0.0520	5.69	0.0035
N-Pentane	0.1091	0.1076	0.0400	4.37	0.0027
Hexane Plus	0.3434	0.3386	0.1530	18.10	0.0114
Total	100.0000	98.6145	17.4330	1055.48	0.5997

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
 BTU/CU.FT IDEAL: 1057.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1060.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1041.9
 DRY BTU @ 15.025: 1081.6
 REAL SPECIFIC GRAVITY: 0.6008

CYLINDER #: 6246
 CYLINDER PRESSURE: 493 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 07:48:38 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 #39; CSG	CASING	05/06/2022
Stn. No.:	API # 3004533284		35825-13605
Mtr. No.:	FR1844RU		

Smpl Date:	04/27/2022	04/27/2021
Test Date:	05/03/2022	05/05/2021
Run No:	HS20220034	HS2021077
Nitrogen:	0.5941	0.6216
CO2:	0.6305	0.6003
Methane:	95.0531	94.6202
Ethane:	1.9930	2.0969
Propane:	0.6675	0.8795
I-Butane:	0.1949	0.2101
N-Butane:	0.2722	0.3004
I-Pentane:	0.1422	0.1524
N-Pentane:	0.1091	0.1206
Hexane+:	0.3434	0.3980
BTU:	1060.4	1068.5
GPM:	17.4330	17.4940
SPG:	0.6008	0.6058



Well Name: UTE INDIANS A #39; TBG

API #: API # 3004533284

Source: TUBING

Sample Type: GAS

Analysis No: HS20220033

Cust No: 35825-13610

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A #39; TBG

County/State: SAN JUAN NM

Location:

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

Formation:

Cust. Stn. No.: API # 3004533284

FR1844RU

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: TUBING

Well Flowing: N

Pressure: 500 PSIG

Flow Temp: 56 DEG. F

Ambient Temp: 56 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 8.38 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	6.5536	6.5536	0.7230	0.00	0.0634
CO2	21.3162	21.3162	3.6470	0.00	0.3239
Methane	69.5952	69.5952	11.8270	702.91	0.3855
Ethane	1.1602	1.1602	0.3110	20.53	0.0120
Propane	0.4031	0.4031	0.1110	10.14	0.0061
Iso-Butane	0.1943	0.1943	0.0640	6.32	0.0039
N-Butane	0.2151	0.2151	0.0680	7.02	0.0043
I-Pentane	0.1470	0.1470	0.0540	5.88	0.0037
N-Pentane	0.1087	0.1087	0.0390	4.36	0.0027
Hexane Plus	0.3066	0.3066	0.1370	16.16	0.0101
Total	100.0000	100.0000	16.9810	773.32	0.8157

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
 BTU/CU.FT IDEAL: 775.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 777.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 763.7
 DRY BTU @ 15.025: 792.8
 REAL SPECIFIC GRAVITY: 0.8176

CYLINDER #: 5019
 CYLINDER PRESSURE: 514 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 09:49:49 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 #39; TBG	TUBING	05/06/2022
Stn. No.:	API # 3004533284		35825-13610
Mtr. No.:	FR1844RU		

Smpl Date:	04/27/2022	04/27/2021
Test Date:	05/03/2022	05/05/2021
Run No:	HS20220033	HS2021078
Nitrogen:	6.5536	4.0660
CO2:	21.3162	20.7742
Methane:	69.5952	72.7042
Ethane:	1.1602	1.0817
Propane:	0.4031	0.2931
I-Butane:	0.1943	0.1743
N-Butane:	0.2151	0.2539
I-Pentane:	0.1470	0.1683
N-Pentane:	0.1087	0.1269
Hexane+:	0.3066	0.3574
BTU:	777.2	809.6
GPM:	16.9810	17.1350
SPG:	0.8176	0.8031

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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 106583

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106583
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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