



Well Name: UTE INDIANS A #55; BHD
 API #: API #3004534824
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220041
 Cust No: 35825-10985

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	UTE INDIANS A #55; BHD	Well Flowing:	N
County/State:	LA PLATA NM	Pressure:	32 PSIG
Location:	BARKER DOME	Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	79 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API #3004534824	Sample Method:	Purge & Fill
		Sample Date:	04/27/2022
		Sample Time:	1.32 PM
		Sampled By:	KEVIN AHLGRIM
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks: AREA 2 / RUN 200

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3938	1.3503	0.1540	0.00	0.0135
CO2	0.1389	0.1346	0.0240	0.00	0.0021
Methane	84.1852	81.5576	14.3130	850.27	0.4663
Ethane	7.3837	7.1532	1.9800	130.67	0.0767
Propane	4.4958	4.3555	1.2420	113.12	0.0684
Iso-Butane	0.4643	0.4498	0.1520	15.10	0.0093
N-Butane	1.1583	1.1221	0.3660	37.79	0.0232
I-Pentane	0.2437	0.2361	0.0890	9.75	0.0061
N-Pentane	0.1868	0.1810	0.0680	7.49	0.0047
Hexane Plus	0.3495	0.3386	0.1560	18.42	0.0116
Total	100.0000	96.8788	18.5440	1182.61	0.6819

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	4227
BTU/CU.FT IDEAL:	1185.3	CYLINDER PRESSURE:	28 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1189.0	ANALYSIS DATE:	05/03/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1168.3	ANALYSIS TIME:	10:04:15 AM
DRY BTU @ 15.025:	1212.8	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6837		

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 #55; BHD	BRADENHEAD	05/06/2022
Stn. No.:	API #3004534824		35825-10985
Mtr. No.:			

Smpl Date:	04/27/2022	03/28/2019
Test Date:	05/03/2022	04/02/2019
Run No:	HS20220041	HS190015
Nitrogen:	1.3938	1.6189
CO2:	0.1389	0.1687
Methane:	84.1852	86.1201
Ethane:	7.3837	6.7633
Propane:	4.4958	3.6861
I-Butane:	0.4643	0.3697
N-Butane:	1.1583	0.8086
I-Pentane:	0.2437	0.1627
N-Pentane:	0.1868	0.1288
Hexane+:	0.3495	0.1731
BTU:	1189.0	1147.3
GPM:	18.5440	18.2370
SPG:	0.6837	0.6598



Well Name: UTE INDIANS A #55; CSG

API #: API # 3004534824

Source: CASING

Sample Type: GAS

Analysis No: HS20220042

Cust No: 35825-10805

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: UTE INDIANS A #55; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 142060462
 Formation:
 Cust. Stn. No.: API # 3004534824

Source: CASING
 Well Flowing: N
 Pressure: 545 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 79 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2022
 Sample Time: 1.32 PM
 Sampled By: KEVIN AHLGRIM
 Sampled by (CO): HILCORP

AREA 2 / RUN 0200

Heat Trace:

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.1886	2.1676	0.2410	0.00	0.0212
CO2	0.4528	0.4485	0.0770	0.00	0.0069
Methane	91.0430	90.1696	15.4690	919.53	0.5043
Ethane	3.1746	3.1441	0.8510	56.18	0.0330
Propane	1.1367	1.1258	0.3140	28.60	0.0173
Iso-Butane	0.4009	0.3971	0.1310	13.04	0.0080
N-Butane	0.5073	0.5024	0.1600	16.55	0.0102
I-Pentane	0.3195	0.3164	0.1170	12.78	0.0080
N-Pentane	0.2351	0.2328	0.0850	9.42	0.0059
Hexane Plus	0.5415	0.5363	0.2420	28.54	0.0179
Total	100.0000	99.0406	17.6870	1084.65	0.6326

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
 BTU/CU.FT IDEAL: 1087.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1089.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1070.9
 DRY BTU @ 15.025: 1111.7
 REAL SPECIFIC GRAVITY: 0.6339

CYLINDER #: 4114
 CYLINDER PRESSURE: 488 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 08:08:43 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 #55; CSG	CASING	05/06/2022
Stn. No.:	API # 3004534824		35825-10805
Mtr. No.:			

Smpl Date:	04/27/2022	04/27/2021	09/05/2018
Test Date:	05/03/2022	05/04/2021	09/11/2018
Run No:	HS20220042	HS2021063	HS180198
Nitrogen:	2.1886	2.5538	1.9644
CO2:	0.4528	0.5929	0.0100
Methane:	91.0430	91.1154	92.7192
Ethane:	3.1746	3.0591	1.8382
Propane:	1.1367	1.0639	0.9547
I-Butane:	0.4009	0.3662	0.3715
N-Butane:	0.5073	0.4536	0.6896
I-Pentane:	0.3195	0.2592	0.4300
N-Pentane:	0.2351	0.1782	0.3714
Hexane+:	0.5415	0.3577	0.6510
BTU:	1089.9	1069.3	1099.4
GPM:	17.6870	17.5600	17.6560
SPG:	0.6339	0.6268	0.6305



Well Name: UTE INDIANS A #55; TBG

API #: API # 3004534824

Source: TUBING

Sample Type: GAS

Analysis No: HS20220043

Cust No: 35825-10810

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: UTE INDIANS A #55; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 142060462
 Formation:
 Cust. Stn. No.: API # 3004534824

Source: TUBING
 Well Flowing: N
 Pressure: 545 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 79 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2022
 Sample Time: 1.32 PM
 Sampled By: KEVIN AHLGRIM
 Sampled by (CO): HILCORP

Heat Trace: N
 Remarks: AREA 2 / RUN 0200

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.1962	2.1591	0.2420	0.00	0.0212
CO2	0.0036	0.0035	0.0010	0.00	0.0001
Methane	91.0774	89.5383	15.4770	919.88	0.5045
Ethane	3.2486	3.1937	0.8710	57.49	0.0337
Propane	1.2112	1.1907	0.3340	30.48	0.0184
Iso-Butane	0.4425	0.4350	0.1450	14.39	0.0089
N-Butane	0.5606	0.5511	0.1770	18.29	0.0113
I-Pentane	0.3699	0.3636	0.1360	14.80	0.0092
N-Pentane	0.2769	0.2722	0.1010	11.10	0.0069
Hexane Plus	0.6131	0.6027	0.2740	32.32	0.0203
Total	100.0000	98.3099	17.7580	1098.74	0.6345

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 1101.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1104.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1085.0
 DRY BTU @ 15.025: 1126.3
 REAL SPECIFIC GRAVITY: 0.6359

CYLINDER #: 4144
 CYLINDER PRESSURE: 430 PSIG
 ANALYSIS DATE: 05/02/2022
 ANALYSIS TIME: 04:11:25 PM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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 #55; TBG	TUBING	05/06/2022
Stn. No.:	API # 3004534824		35825-10810
Mtr. No.:			

Smpl Date:	04/27/2022	04/27/2021	09/05/2018
Test Date:	05/02/2022	05/04/2021	09/11/2018
Run No:	HS20220043	HS2021064	HS180199
Nitrogen:	2.1962	21.5585	3.4341
CO2:	0.0036	0.2024	9.4619
Methane:	91.0774	73.3741	79.9291
Ethane:	3.2486	2.3848	3.2104
Propane:	1.2112	0.7474	1.9826
I-Butane:	0.4425	0.2630	0.3645
N-Butane:	0.5606	0.3781	0.5292
I-Pentane:	0.3699	0.2470	0.2579
N-Pentane:	0.2769	0.1765	0.2004
Hexane+:	0.6131	0.6682	0.6299
BTU:	1104.2	878.8	999.9
GPM:	17.7580	16.3730	17.7300
SPG:	0.6359	0.7007	0.7353

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811 S. First St., Artesia, NM 88210
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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 106585

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106585
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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