



Well Name: UTE INDIANS A #55; BHD
 API #: API # 3004534824
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021062
 Cust No: 35825-10800

Well/Lease Information

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

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 52 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: 10.20 AM
 Sampled By: DANIEL RIOS
 Sampled by (CO): HILCORP

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.7097	1.3340	0.1890	0.00	0.0165
CO2	0.0160	0.0125	0.0030	0.00	0.0002
Methane	84.2001	65.6962	14.3140	850.42	0.4664
Ethane	7.6625	5.9786	2.0550	135.60	0.0796
Propane	4.4486	3.4710	1.2290	111.93	0.0677
Iso-Butane	0.4096	0.3196	0.1340	13.32	0.0082
N-Butane	0.9902	0.7726	0.3130	32.30	0.0199
I-Pentane	0.1865	0.1455	0.0680	7.46	0.0046
N-Pentane	0.1501	0.1171	0.0550	6.02	0.0037
Hexane Plus	0.2267	0.1769	0.1010	11.95	0.0075
Total	100.0000	78.0240	18.4610	1169.01	0.6744

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1171.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1175.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1154.8
 DRY BTU @ 15.025: 1198.7
 REAL SPECIFIC GRAVITY: 0.6762

CYLINDER #: 4121
 CYLINDER PRESSURE: 48 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 03:45:07 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 #55; BHD	BRADENHEAD	05/05/2021
Stn. No.:	API # 3004534824		35825-10800
Mtr. No.:			

Smpl Date:	04/27/2021	09/05/2018
Test Date:	05/04/2021	09/11/2018
Run No:	HS2021062	HS180197
Nitrogen:	1.7097	1.6269
CO2:	0.0160	0.0137
Methane:	84.2001	86.7107
Ethane:	7.6625	6.5590
Propane:	4.4486	3.5452
I-Butane:	0.4096	0.3367
N-Butane:	0.9902	0.7802
I-Pentane:	0.1865	0.1543
N-Pentane:	0.1501	0.1218
Hexane+:	0.2267	0.1515
BTU:	1175.2	1142.3
GPM:	18.4610	18.1830
SPG:	0.6762	0.6542



Well Name: UTE INDIANS A #55; CSG

API #: API # 3004534824

Source: CASING

Sample Type: GAS

Analysis No: HS2021063

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: 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: 10.22 AM
 Sampled By: DANIEL RIOS
 Sampled by (CO): HILCORP

AREA 2 / RUN 0200

Heat Trace:

Remarks: H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.5538	2.5283	0.2820	0.00	0.0247
CO2	0.5929	0.5870	0.1010	0.00	0.0090
Methane	91.1154	90.2046	15.4800	920.27	0.5047
Ethane	3.0591	3.0285	0.8200	54.14	0.0318
Propane	1.0639	1.0533	0.2940	26.77	0.0162
Iso-Butane	0.3662	0.3625	0.1200	11.91	0.0073
N-Butane	0.4536	0.4491	0.1430	14.80	0.0091
I-Pentane	0.2592	0.2566	0.0950	10.37	0.0065
N-Pentane	0.1782	0.1764	0.0650	7.14	0.0044
Hexane Plus	0.3577	0.3541	0.1600	18.85	0.0118
Total	100.0000	99.0004	17.5600	1064.25	0.6255

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1066.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1069.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1050.7
 DRY BTU @ 15.025: 1090.7
 REAL SPECIFIC GRAVITY: 0.6268

CYLINDER #: 5017
 CYLINDER PRESSURE: 541 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 02:11:35 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 #55; CSG	CASING	05/05/2021
Stn. No.:	API # 3004534824		35825-10805
Mtr. No.:			

Smpl Date:	04/27/2021	09/05/2018
Test Date:	05/04/2021	09/11/2018
Run No:	HS2021063	HS180198
Nitrogen:	2.5538	1.9644
CO2:	0.5929	0.0100
Methane:	91.1154	92.7192
Ethane:	3.0591	1.8382
Propane:	1.0639	0.9547
I-Butane:	0.3662	0.3715
N-Butane:	0.4536	0.6896
I-Pentane:	0.2592	0.4300
N-Pentane:	0.1782	0.3714
Hexane+:	0.3577	0.6510
BTU:	1069.3	1099.4
GPM:	17.5600	17.6560
SPG:	0.6268	0.6305



Well Name: UTE INDIANS A #55; TBG

API #: API # 3004534824

Source: TUBING

Sample Type: GAS

Analysis No: HS2021064

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: 512 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: 10.23 AM

Sampled By: DANIEL RIOS

Sampled by (CO): HILCORP

Heat Trace:

AREA 2 / RUN 0200

Remarks:

PRESSURED WITH HELIUM TO 30LBS. H2S

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	21.5585	5.5587	2.3760	0.00	0.2085
CO2	0.2024	0.0522	0.0350	0.00	0.0031
Methane	73.3741	18.9190	12.4600	741.08	0.4064
Ethane	2.3848	0.6149	0.6390	42.20	0.0248
Propane	0.7474	0.1927	0.2060	18.81	0.0114
Iso-Butane	0.2630	0.0678	0.0860	8.55	0.0053
N-Butane	0.3781	0.0975	0.1190	12.33	0.0076
I-Pentane	0.2470	0.0637	0.0900	9.88	0.0062
N-Pentane	0.1765	0.0455	0.0640	7.08	0.0044
Hexane Plus	0.6682	0.1723	0.2980	35.22	0.0221
Total	100.0000	25.7843	16.3730	875.15	0.6997

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
 BTU/CU.FT IDEAL: 877.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 878.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 863.5
 DRY BTU @ 15.025: 896.4
 REAL SPECIFIC GRAVITY: 0.7007

CYLINDER #: 4238
 CYLINDER PRESSURE: 0 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 12:23:08 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 #55; TBG	TUBING	05/05/2021
Stn. No.:	API # 3004534824		35825-10810
Mtr. No.:			

Smpl Date:	04/27/2021	09/05/2018
Test Date:	05/04/2021	09/11/2018
Run No:	HS2021064	HS180199
Nitrogen:	21.5585	3.4341
CO2:	0.2024	9.4619
Methane:	73.3741	79.9291
Ethane:	2.3848	3.2104
Propane:	0.7474	1.9826
I-Butane:	0.2630	0.3645
N-Butane:	0.3781	0.5292
I-Pentane:	0.2470	0.2579
N-Pentane:	0.1765	0.2004
Hexane+:	0.6682	0.6299
BTU:	878.8	999.9
GPM:	16.3730	17.7300
SPG:	0.7007	0.7353

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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 27324

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27324	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								