



Well Name: UTE INDIANS A 43; BHD
 API #: API # 3004534326
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021056
 Cust No: 35825-11860

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	UTE INDIANS A 43; BHD	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	68 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	142060462	Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004534326	Sample Method:	Purge & Fill
		Sample Date:	04/27/2021
		Sample Time:	9.15 AM
		Sampled By:	KEVIN A.
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks: H2S

AREA 2 / RUN 0200

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4156	1.4075	0.1560	0.00	0.0137
CO2	0.0042	0.0042	0.0010	0.00	0.0001
Methane	87.9132	87.4077	14.9430	887.92	0.4870
Ethane	4.8324	4.8046	1.2960	85.52	0.0502
Propane	3.6648	3.6437	1.0120	92.21	0.0558
Iso-Butane	0.3791	0.3769	0.1240	12.33	0.0076
N-Butane	1.0202	1.0143	0.3220	33.28	0.0205
I-Pentane	0.2209	0.2196	0.0810	8.84	0.0055
N-Pentane	0.1972	0.1961	0.0720	7.91	0.0049
Hexane Plus	0.3524	0.3504	0.1580	18.58	0.0117
Total	100.0000	99.4250	18.1650	1146.58	0.6568

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	5034
BTU/CU.FT IDEAL:	1149.2	CYLINDER PRESSURE:	72 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1152.5	ANALYSIS DATE:	05/04/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1132.4	ANALYSIS TIME:	03:09:15 PM
DRY BTU @ 15.025:	1175.6	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6584		

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 43; BHD	BRADENHEAD	05/05/2021
Stn. No.:	API # 3004534326		35825-11860
Mtr. No.:			

Smpl Date:	04/27/2021	08/07/2019
Test Date:	05/04/2021	08/14/2019
Run No:	HS2021056	HS190222
Nitrogen:	1.4156	2.7160
CO2:	0.0042	0.0190
Methane:	87.9132	86.0900
Ethane:	4.8324	5.7309
Propane:	3.6648	3.2416
I-Butane:	0.3791	0.4061
N-Butane:	1.0202	0.9539
I-Pentane:	0.2209	0.2363
N-Pentane:	0.1972	0.2146
Hexane+:	0.3524	0.3916
BTU:	1152.5	1141.3
GPM:	18.1650	18.1410
SPG:	0.6584	0.6653



Well Name: UTE INDIANS A 43; CSG

API #: API # 3004534326

Source: CASING

Sample Type: GAS

Analysis No: HS2021058

Cust No: 35825-11865

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: UTE INDIANS A 43; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 142060462

Formation:

Cust. Stn. No.: API # 3004534326

AREA 2 / RUN 0200

Heat Trace: N

Remarks: H2S

Source: CASING

Well Flowing: N

Pressure: 476 PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2021

Sample Time: 10.49 AM

Sampled By: KEVIN A.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.6212	1.6108	0.1790	0.00	0.0157
CO2	1.1973	1.1896	0.2050	0.00	0.0182
Methane	92.3021	91.7115	15.6820	932.25	0.5113
Ethane	2.7095	2.6922	0.7260	47.95	0.0281
Propane	1.1225	1.1153	0.3100	28.24	0.0171
Iso-Butane	0.2417	0.2402	0.0790	7.86	0.0049
N-Butane	0.3373	0.3351	0.1070	11.00	0.0068
I-Pentane	0.1349	0.1340	0.0490	5.40	0.0034
N-Pentane	0.1123	0.1116	0.0410	4.50	0.0028
Hexane Plus	0.2212	0.2198	0.0990	11.66	0.0073
Total	100.0000	99.3601	17.4770	1048.87	0.6155

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1051.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1053.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1035.5
 DRY BTU @ 15.025: 1074.9
 REAL SPECIFIC GRAVITY: 0.6167

CYLINDER #: 5023
 CYLINDER PRESSURE: 505 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 02:37:42 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 43; CSG	CASING	05/05/2021
Stn. No.:	API # 3004534326		35825-11865
Mtr. No.:			

Smpl Date:	04/27/2021	08/07/2019
Test Date:	05/04/2021	08/14/2019
Run No:	HS2021058	HS190223
Nitrogen:	1.6212	1.4395
CO2:	1.1973	0.4572
Methane:	92.3021	89.1745
Ethane:	2.7095	5.4549
Propane:	1.1225	2.0739
I-Butane:	0.2417	0.3515
N-Butane:	0.3373	0.5138
I-Pentane:	0.1349	0.1696
N-Pentane:	0.1123	0.1337
Hexane+:	0.2212	0.2314
BTU:	1053.8	1107.3
GPM:	17.4770	17.9160
SPG:	0.6167	0.6370



Well Name: UTE INDIANS A 43; TBG
 API #: API # 3004534326
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS2021057
 Cust No: 35825-11870

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	UTE INDIANS A 43; TBG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	275 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	142060462	Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004534326	Sample Method:	Purge & Fill
		Sample Date:	04/27/2021
		Sample Time:	9.18 AM
		Sampled By:	KEVIN A.
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks: H2S

AREA 2 / RUN 0200

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1417	1.1308	0.1260	0.00	0.0110
CO2	1.8092	1.7919	0.3090	0.00	0.0275
Methane	94.1359	93.2354	15.9920	950.77	0.5214
Ethane	1.3954	1.3820	0.3740	24.69	0.0145
Propane	0.5398	0.5346	0.1490	13.58	0.0082
Iso-Butane	0.1634	0.1618	0.0540	5.31	0.0033
N-Butane	0.2474	0.2450	0.0780	8.07	0.0050
I-Pentane	0.1357	0.1344	0.0500	5.43	0.0034
N-Pentane	0.1217	0.1205	0.0440	4.88	0.0030
Hexane Plus	0.3098	0.3068	0.1380	16.33	0.0103
Total	100.0000	99.0432	17.3140	1029.07	0.6076

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023	CYLINDER #:	6051
BTU/CU.FT IDEAL:	1031.5	CYLINDER PRESSURE:	511 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1033.8	ANALYSIS DATE:	05/04/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1015.8	ANALYSIS TIME:	10:50:40 AM
DRY BTU @ 15.025:	1054.5	ANALYSIS RUN BY:	SHYANN GALLEGOS
REAL SPECIFIC GRAVITY:	0.6087		

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 43; TBG	TUBING	05/05/2021
Stn. No.:	API # 3004534326		35825-11870
Mtr. No.:			

Smpl Date:	04/27/2021	08/07/2019
Test Date:	05/04/2021	08/14/2019
Run No:	HS2021057	HS190224
Nitrogen:	1.1417	1.1826
CO2:	1.8092	1.4537
Methane:	94.1359	93.8413
Ethane:	1.3954	1.5622
Propane:	0.5398	0.5630
I-Butane:	0.1634	0.1629
N-Butane:	0.2474	0.2436
I-Pentane:	0.1357	0.1287
N-Pentane:	0.1217	0.1146
Hexane+:	0.3098	0.7474
BTU:	1033.8	1057.0
GPM:	17.3140	17.4490
SPG:	0.6087	0.6183

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District IV
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 27318

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27318	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								