



Well Name: UTE INDIANS A #53; BHD
 API #: API # 3004534184
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021079
 Cust No: 35825-13630

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	UTE INDIANS A #53; 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 # 3004534184	Sample Method:	Purge & Fill
		Sample Date:	04/27/2021
		Sample Time:	10.50 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	0.8975	0.8848	0.0990	0.00	0.0087
CO2	0.0121	0.0119	0.0020	0.00	0.0002
Methane	80.8367	79.6924	13.7490	816.45	0.4478
Ethane	9.5671	9.4317	2.5670	169.31	0.0993
Propane	5.5531	5.4745	1.5350	139.72	0.0845
Iso-Butane	0.5909	0.5825	0.1940	19.22	0.0119
N-Butane	1.5102	1.4888	0.4780	49.27	0.0303
I-Pentane	0.3249	0.3203	0.1190	13.00	0.0081
N-Pentane	0.2881	0.2840	0.1050	11.55	0.0072
Hexane Plus	0.4194	0.4135	0.1880	22.11	0.0139
Total	100.0000	98.5844	19.0360	1240.62	0.7118

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	4022
BTU/CU.FT IDEAL:	1243.5	CYLINDER PRESSURE:	32 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1247.9	ANALYSIS DATE:	05/05/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1226.2	ANALYSIS TIME:	12:22:40 AM
DRY BTU @ 15.025:	1272.9	ANALYSIS RUN BY:	SHYANN GALLEGOS
REAL SPECIFIC GRAVITY:	0.714		

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: 05/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE INDIANS A #53; BHD
Stn. No.: API # 3004534184
Mtr. No.:

BRADENHEAD

05/06/2021
35825-13630

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021079

Nitrogen: 0.8975
CO2: 0.0121
Methane: 80.8367
Ethane: 9.5671
Propane: 5.5531
I-Butane: 0.5909
N-Butane: 1.5102
I-Pentane: 0.3249
N-Pentane: 0.2881
Hexane+: 0.4194

BTU: 1247.9
GPM: 19.0360
SPG: 0.7140



Well Name: UTE INDIANS A #53; CSG

API #: API # 3004534184

Source: CASING

Sample Type: GAS

Analysis No: HS2021080

Cust No: 35825-13625

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: UTE INDIANS A #53; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 142060462
 Formation:
 Cust. Stn. No.: API # 3004534184

Source: CASING
 Well Flowing: N
 Pressure: 313 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 10.43 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	0.9040	0.8915	0.1000	0.00	0.0087
CO2	1.9970	1.9693	0.3420	0.00	0.0303
Methane	92.1064	90.8285	15.6480	930.27	0.5102
Ethane	3.6176	3.5674	0.9700	64.02	0.0376
Propane	0.8160	0.8047	0.2250	20.53	0.0124
Iso-Butane	0.1102	0.1087	0.0360	3.58	0.0022
N-Butane	0.1488	0.1467	0.0470	4.85	0.0030
I-Pentane	0.0411	0.0405	0.0150	1.64	0.0010
N-Pentane	0.0295	0.0291	0.0110	1.18	0.0007
Hexane Plus	0.2294	0.2262	0.1030	12.09	0.0076
Total	100.0000	98.6126	17.4970	1038.18	0.6138

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1040.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1043.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1024.9
 DRY BTU @ 15.025: 1063.9
 REAL SPECIFIC GRAVITY: 0.615

CYLINDER #: 4097
 CYLINDER PRESSURE: 330 PSIG
 ANALYSIS DATE: 05/05/2021
 ANALYSIS TIME: 12:05:39 AM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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: 05/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE INDIANS A #53; CSG
Stn. No.: API # 3004534184
Mtr. No.:

CASING

05/06/2021
35825-13625

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021080

Nitrogen: 0.9040
CO2: 1.9970
Methane: 92.1064
Ethane: 3.6176
Propane: 0.8160
I-Butane: 0.1102
N-Butane: 0.1488
I-Pentane: 0.0411
N-Pentane: 0.0295
Hexane+: 0.2294

BTU: 1043.0
GPM: 17.4970
SPG: 0.6150



Well Name: UTE INDIANS A #53; TBG

API #: API # 3004534184

Source: TUBING

Sample Type: GAS

Analysis No: HS2021081

Cust No: 35825-13635

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: UTE INDIANS A #53; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 1420640462
 Formation:
 Cust. Stn. No.: API # 3004534184

Source: TUBING
 Well Flowing: N
 Pressure: 313 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 04/27/2021
 Sample Time: 10.40 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	0.5833	0.5748	0.0640	0.00	0.0056
CO2	1.0958	1.0799	0.1870	0.00	0.0167
Methane	95.8412	94.4504	16.2800	968.00	0.5309
Ethane	1.3704	1.3505	0.3670	24.25	0.0142
Propane	0.4647	0.4580	0.1280	11.69	0.0071
Iso-Butane	0.1241	0.1223	0.0410	4.04	0.0025
N-Butane	0.1756	0.1731	0.0550	5.73	0.0035
I-Pentane	0.0726	0.0715	0.0270	2.90	0.0018
N-Pentane	0.0629	0.0620	0.0230	2.52	0.0016
Hexane Plus	0.2094	0.2064	0.0940	11.04	0.0069
Total	100.0000	98.5489	17.2660	1030.17	0.5908

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1032.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1034.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1016.8
 DRY BTU @ 15.025: 1055.5
 REAL SPECIFIC GRAVITY: 0.5918

CYLINDER #: 7005
 CYLINDER PRESSURE: 199 PSIG
 ANALYSIS DATE: 05/05/2021
 ANALYSIS TIME: 12:40:09 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: 05/06/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE INDIANS A #53; TBG
Stn. No.: API # 3004534184
Mtr. No.:

TUBING

05/06/2021
35825-13635

Smpl Date: 04/27/2021
Test Date: 05/05/2021
Run No: HS2021081

Nitrogen: 0.5833
CO2: 1.0958
Methane: 95.8412
Ethane: 1.3704
Propane: 0.4647
I-Butane: 0.1241
N-Butane: 0.1756
I-Pentane: 0.0726
N-Pentane: 0.0629
Hexane+: 0.2094

BTU: 1034.8
GPM: 17.2660
SPG: 0.5918

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District III
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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 27527

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27527	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								