



Well Name: UTE INDIANS A #53; BHD
 API #: API # 3004534184
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220038
 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:	55 PSIG
Location:		Flow Temp:	60 DEG. F
Lease/PA/CA:	142060462	Ambient Temp:	60 DEG. F
Formation:		Flow Rate:	0 MCF/D
Cust. Stn. No.:	API # 3004534184	Sample Method:	Purge & Fill
	52900022	Sample Date:	04/27/2022
	AREA 2 / RUN 0200	Sample Time:	10.12 AM
Heat Trace:	N	Sampled By:	VICTOR R.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9150	0.8907	0.1010	0.00	0.0088
CO2	0.0315	0.0307	0.0050	0.00	0.0005
Methane	81.1436	78.9919	13.8000	819.55	0.4495
Ethane	9.4970	9.2452	2.5480	168.07	0.0986
Propane	5.4997	5.3539	1.5200	138.38	0.0837
Iso-Butane	0.5740	0.5588	0.1880	18.67	0.0115
N-Butane	1.4554	1.4168	0.4600	47.48	0.0292
I-Pentane	0.3110	0.3028	0.1140	12.44	0.0077
N-Pentane	0.2705	0.2633	0.0980	10.84	0.0067
Hexane Plus	0.3023	0.2943	0.1350	15.93	0.0100
Total	100.0000	97.3484	18.9690	1231.36	0.7063

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1234.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1238.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1216.9
 DRY BTU @ 15.025: 1263.2
 REAL SPECIFIC GRAVITY: 0.7085

CYLINDER #: 7021
 CYLINDER PRESSURE: 34 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 10:45:02 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 #53; BHD	BRADENHEAD	05/06/2022
Stn. No.:	API # 3004534184		35825-13630
Mtr. No.:	52900022		

Smpl Date:	04/27/2022	04/27/2021
Test Date:	05/03/2022	05/05/2021
Run No:	HS20220038	HS2021079
Nitrogen:	0.9150	0.8975
CO2:	0.0315	0.0121
Methane:	81.1436	80.8367
Ethane:	9.4970	9.5671
Propane:	5.4997	5.5531
I-Butane:	0.5740	0.5909
N-Butane:	1.4554	1.5102
I-Pentane:	0.3110	0.3249
N-Pentane:	0.2705	0.2881
Hexane+:	0.3023	0.4194
BTU:	1238.4	1247.9
GPM:	18.9690	19.0360
SPG:	0.7085	0.7140



Well Name: UTE INDIANS A #53; CSG

API #: API # 3004534184

Source: CASING

Sample Type: GAS

Analysis No: HS20220039

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
52900022

AREA 2 / RUN 0200

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: N

Pressure: 341 PSIG

Flow Temp: 60 DEG. F

Ambient Temp: 60 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/27/2022

Sample Time: 10.08 AM

Sampled By: VICTOR R.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.2714	1.2543	0.1400	0.00	0.0123
CO2	1.1091	1.0942	0.1900	0.00	0.0169
Methane	93.9296	92.6687	15.9560	948.69	0.5203
Ethane	1.9477	1.9216	0.5220	34.47	0.0202
Propane	0.7033	0.6939	0.1940	17.70	0.0107
Iso-Butane	0.2327	0.2296	0.0760	7.57	0.0047
N-Butane	0.3016	0.2976	0.0950	9.84	0.0061
I-Pentane	0.1125	0.1110	0.0410	4.50	0.0028
N-Pentane	0.0740	0.0730	0.0270	2.97	0.0018
Hexane Plus	0.3181	0.3138	0.1420	16.77	0.0105
Total	100.0000	98.6577	17.3830	1042.49	0.6063

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
 BTU/CU.FT IDEAL: 1044.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1047.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1029.1
 DRY BTU @ 15.025: 1068.3
 REAL SPECIFIC GRAVITY: 0.6074

CYLINDER #: 7057
 CYLINDER PRESSURE: 327 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 08:59:00 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 #53; CSG	CASING	05/06/2022
Stn. No.:	API # 3004534184		35825-13625
Mtr. No.:	52900022		

Smpl Date:	04/27/2022	04/27/2021
Test Date:	05/03/2022	05/05/2021
Run No:	HS20220039	HS2021080
Nitrogen:	1.2714	0.9040
CO2:	1.1091	1.9970
Methane:	93.9296	92.1064
Ethane:	1.9477	3.6176
Propane:	0.7033	0.8160
I-Butane:	0.2327	0.1102
N-Butane:	0.3016	0.1488
I-Pentane:	0.1125	0.0411
N-Pentane:	0.0740	0.0295
Hexane+:	0.3181	0.2294
BTU:	1047.3	1043.0
GPM:	17.3830	17.4970
SPG:	0.6074	0.6150



Well Name: UTE INDIANS A #53; TBG
 API #: API # 3004534184
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20220040
 Cust No: 35825-13635

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	UTE INDIANS A #53; TBG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	346 PSIG
Location:		Flow Temp:	60 DEG. F
Lease/PA/CA:	1420640462	Ambient Temp:	60 DEG. F
Formation:		Flow Rate:	0 MCF/D
Cust. Stn. No.:	API # 3004534184	Sample Method:	Purge & Fill
	52900022	Sample Date:	04/27/2022
	AREA 2 / RUN 0200	Sample Time:	10.18 AM
Heat Trace:	N	Sampled By:	VICTOR R.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6835	0.6738	0.0750	0.00	0.0066
CO2	1.6971	1.6731	0.2900	0.00	0.0258
Methane	94.7092	93.3703	16.0890	956.56	0.5246
Ethane	1.6164	1.5935	0.4330	28.61	0.0168
Propane	0.5020	0.4949	0.1390	12.63	0.0076
Iso-Butane	0.1295	0.1277	0.0420	4.21	0.0026
N-Butane	0.1962	0.1934	0.0620	6.40	0.0039
I-Pentane	0.0831	0.0819	0.0300	3.32	0.0021
N-Pentane	0.0683	0.0673	0.0250	2.74	0.0017
Hexane Plus	0.3147	0.3103	0.1410	16.59	0.0104
Total	100.0000	98.5862	17.3260	1031.06	0.6021

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023	CYLINDER #:	4214
BTU/CU.FT IDEAL:	1033.4	CYLINDER PRESSURE:	348 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1035.8	ANALYSIS DATE:	05/03/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1017.8	ANALYSIS TIME:	08:42:54 AM
DRY BTU @ 15.025:	1056.5	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6033		

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 #53; TBG	TUBING	05/06/2022
Stn. No.:	API # 3004534184		35825-13635
Mtr. No.:	52900022		

Smpl Date:	04/27/2022	04/27/2021
Test Date:	05/03/2022	05/05/2021
Run No:	HS20220040	HS2021081
Nitrogen:	0.6835	0.5833
CO2:	1.6971	1.0958
Methane:	94.7092	95.8412
Ethane:	1.6164	1.3704
Propane:	0.5020	0.4647
I-Butane:	0.1295	0.1241
N-Butane:	0.1962	0.1756
I-Pentane:	0.0831	0.0726
N-Pentane:	0.0683	0.0629
Hexane+:	0.3147	0.2094
BTU:	1035.8	1034.8
GPM:	17.3260	17.2660
SPG:	0.6033	0.5918

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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

COMMENTS

Action 106589

COMMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106589
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

COMMENTS

Created By	Comment	Comment Date
mkuehling	FOR RECORD ONLY	6/14/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 106589

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Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 106589
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/14/2022