



Well Name: UTE 80 2B; INT
API #: 0506708846
Source: INTERMEDIATE CASING
Sample Type: GAS
Analysis No: HS20230014
Cust No: 35825-10165

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	UTE 80 2B; INT	Well Flowing:	Y
County/State:	LA PLATA CO	Pressure:	PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	0506708846	Sample Method:	Purge & Fill
		Sample Date:	04/21/2023
		Sample Time:	12.50 PM
	AREA 1 / RUN 0103	Sampled By:	CODY VAUGHN
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0700	0.0271	0.0080	0.00	0.0007
CO2	7.3526	2.8452	1.2580	0.00	0.1117
Methane	88.9383	34.4159	15.1120	898.28	0.4926
Ethane	1.8307	0.7084	0.4910	32.40	0.0190
Propane	1.1660	0.4512	0.3220	29.34	0.0178
Iso-Butane	0.1535	0.0594	0.0500	4.99	0.0031
N-Butane	0.1615	0.0625	0.0510	5.27	0.0032
I-Pentane	0.0364	0.0141	0.0130	1.46	0.0009
N-Pentane	0.0194	0.0075	0.0070	0.78	0.0005
Hexane Plus	0.2716	0.1051	0.1210	14.32	0.0090
Total	100.0000	38.6964	17.4330	986.82	0.6585

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0025	CYLINDER #:	2122
BTU/CU.FT IDEAL:	989.1	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	991.6	ANALYSIS DATE:	04/27/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	974.3	ANALYSIS TIME:	04:37:58 PM
DRY BTU @ 15.025:	1011.5	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6599		

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: 05/02/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	UTE 80 2B; INT	INTERMEDIATE CASING	05/02/2023
Stn. No.:	0506708846	MV	35825-10165
Mtr. No.:			

Smpl Date:	04/21/2023	05/20/2022	06/02/2021	05/03/2018
Test Date:	04/27/2023	05/25/2022	06/11/2021	05/04/2018
Run No:	HS20230014	HS20220081	HS2021114	HS180036
Nitrogen:	0.0700	0.0738	0.0632	0.0574
CO2:	7.3526	7.5094	8.1403	9.8894
Methane:	88.9383	88.6429	88.0405	85.6757
Ethane:	1.8307	2.0680	2.0326	2.3677
Propane:	1.1660	1.2968	1.3178	1.5405
I-Butane:	0.1535	0.1668	0.1633	0.1885
N-Butane:	0.1615	0.1694	0.1675	0.1959
I-Pentane:	0.0364	0.0349	0.0333	0.0400
N-Pentane:	0.0194	0.0166	0.0170	0.0206
Hexane+:	0.2716	0.0214	0.0245	0.0243
BTU:	991.6	983.3	977.1	967.0
GPM:	17.4330	17.4030	17.4030	17.4740
SPG:	0.6599	0.6571	0.6632	0.6850



Well Name: UTE 80 2B;CSG
API #: 0506708846
Source: CASING
Sample Type: GAS
Analysis No: HS20230015
Cust No: 35825-10160

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: UTE 80 2B;CSG
County/State: LA PLATA CO
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: 0506708846

Source: CASING
Well Flowing: Y
Pressure: 30 PSIG
Flow Temp: 61 DEG. F
Ambient Temp: 55 DEG. F
Flow Rate: 260 MCF/D
Sample Method: Purge & Fill
Sample Date: 04/21/2023
Sample Time: 12.38 PM
Sampled By: CODY VAUGHN
Sampled by (CO): HILCORP

AREA 1 / RUN 0103

Heat Trace:

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1593	0.1469	0.0180	0.00	0.0015
CO2	1.8428	1.6998	0.3160	0.00	0.0280
Methane	80.8039	74.5345	13.7430	816.12	0.4476
Ethane	10.6911	9.8616	2.8680	189.20	0.1110
Propane	3.8509	3.5521	1.0640	96.89	0.0586
Iso-Butane	0.3891	0.3589	0.1280	12.65	0.0078
N-Butane	0.8516	0.7855	0.2690	27.78	0.0171
I-Pentane	0.2312	0.2133	0.0850	9.25	0.0058
N-Pentane	0.2108	0.1944	0.0770	8.45	0.0053
Hexane Plus	0.9693	0.8941	0.4340	51.09	0.0321
Total	100.0000	92.2411	19.0020	1211.44	0.7147

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1214.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1218.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1197.3
DRY BTU @ 15.025: 1242.9
REAL SPECIFIC GRAVITY: 0.717

CYLINDER #: 2030
CYLINDER PRESSURE: 30 PSIG
ANALYSIS DATE: 04/27/2023
ANALYSIS TIME: 04:24:31 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: 05/02/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE 80 2B;CSG
Stn. No.: 0506708846
Mtr. No.:

CASING
MV

05/02/2023
35825-10160

Smpl Date:	04/21/2023	05/20/2022	06/02/2021	05/03/2018
Test Date:	04/27/2023	05/25/2022	06/11/2021	05/04/2018
Run No:	HS20230015	HS20220080	HS2021113	HS180035
Nitrogen:	0.1593	0.1603	0.1412	0.1503
CO2:	1.8428	1.4946	1.6423	1.8860
Methane:	80.8039	80.6760	80.7278	80.9932
Ethane:	10.6911	11.4171	11.1962	11.0548
Propane:	3.8509	4.0906	3.9741	3.8475
I-Butane:	0.3891	0.3942	0.3811	0.3762
N-Butane:	0.8516	0.8537	0.8425	0.8265
I-Pentane:	0.2312	0.2025	0.2027	0.2015
N-Pentane:	0.2108	0.1739	0.1827	0.1774
Hexane+:	0.9693	0.5371	0.7094	0.4866
BTU:	1218.5	1210.6	1213.1	1197.2
GPM:	19.0020	18.9640	18.9760	18.8820
SPG:	0.7170	0.7062	0.7100	0.7038



Well Name: UTE 80 2B;TBG
API #: 0506708846
Source: TUBING
Sample Type: GAS
Analysis No: HS20230013
Cust No: 35825-10170

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: UTE 80 2B;TBG
County/State: LA PLATA CO
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: 0506708846

Source: TUBING
Well Flowing: Y
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 04/21/2023
Sample Time: 12.45 PM
Sampled By: CODY VAUGHN
Sampled by (CO): HILCORP

AREA 1 / RUN 0103

Heat Trace:

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1181	0.1145	0.0130	0.00	0.0011
CO2	2.2956	2.2255	0.3930	0.00	0.0349
Methane	83.5958	81.0413	14.2140	844.32	0.4630
Ethane	8.3038	8.0501	2.2270	146.95	0.0862
Propane	3.0715	2.9776	0.8490	77.28	0.0468
Iso-Butane	0.5838	0.5660	0.1920	18.98	0.0117
N-Butane	0.7141	0.6923	0.2260	23.30	0.0143
I-Pentane	0.2900	0.2811	0.1060	11.60	0.0072
N-Pentane	0.1912	0.1854	0.0700	7.66	0.0048
Hexane Plus	0.8361	0.8106	0.3740	44.07	0.0277
Total	100.0000	96.9444	18.6640	1174.17	0.6977

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
BTU/CU.FT IDEAL: 1176.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1180.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1160.2
DRY BTU @ 15.025: 1204.3
REAL SPECIFIC GRAVITY: 0.6997

CYLINDER #: 1848
CYLINDER PRESSURE: 29 PSIG
ANALYSIS DATE: 04/27/2023
ANALYSIS TIME: 04:50:17 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: 05/02/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: UTE 80 2B;TBG
Stn. No.: 0506708846
Mtr. No.:

TUBING
MV

05/02/2023
35825-10170

Smpl Date:	04/21/2023	05/20/2022	06/02/2021	05/03/2018
Test Date:	04/27/2023	05/25/2022	06/11/2021	05/04/2018
Run No:	HS20230013	HS20220082	HS2021115	HS180037
Nitrogen:	0.1181	0.1630	0.1114	0.1209
CO2:	2.2956	1.4652	2.3544	2.0703
Methane:	83.5958	80.9631	83.6530	84.1965
Ethane:	8.3038	11.3974	8.3088	8.3815
Propane:	3.0715	4.0486	3.0422	2.9942
I-Butane:	0.5838	0.3879	0.6038	0.5609
N-Butane:	0.7141	0.8346	0.7137	0.6892
I-Pentane:	0.2900	0.1951	0.2887	0.2681
N-Pentane:	0.1912	0.1656	0.1865	0.1785
Hexane+:	0.8361	0.3795	0.7375	0.5399
BTU:	1180.7	1202.3	1175.8	1167.4
GPM:	18.6640	18.9050	18.6360	18.5620
SPG:	0.6997	0.7004	0.6974	0.6875