



Well Name: DANBURG GAS COM B1;
 API #: 3004509336
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240104
 Cust No: 35825-13570

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	DANBURG GAS COM B1; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	157 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	77 DEG. F
Formation:	DAKOTA	Flow Rate:	MCF/D
Cust. Stn. No.:	3004509336	Sample Method:	
	75224	Sample Date:	05/16/2024
		Sample Time:	3.30 PM
	AREA 2 / RUN 0208	Sampled By:	JESSE RANGEL
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.8269	2.7963	0.3120	0.00	0.0273
CO2	0.0016	0.0016	0.0000	0.00	0.0000
Methane	95.4792	94.4446	16.2150	964.34	0.5289
Ethane	1.1918	1.1789	0.3190	21.09	0.0124
Propane	0.2608	0.2580	0.0720	6.56	0.0040
Iso-Butane	0.1222	0.1209	0.0400	3.97	0.0025
N-Butane	0.0330	0.0326	0.0100	1.08	0.0007
I-Pentane	0.0202	0.0200	0.0070	0.81	0.0005
N-Pentane	0.0070	0.0069	0.0030	0.28	0.0002
Hexane Plus	0.0573	0.0567	0.0260	3.02	0.0019
Total	100.0000	98.9165	17.0040	1001.15	0.5783

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.002	CYLINDER #:	2190
BTU/CU.FT IDEAL:	1003.5	CYLINDER PRESSURE:	158 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1005.5	ANALYSIS DATE:	05/23/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	988.0	ANALYSIS TIME:	04:30:10 PM
DRY BTU @ 15.025:	1025.6	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.5792		

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: 05/29/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	DANBURG GAS COM B1; BHD	BRADENHEAD	05/29/2024
Stn. No.:	3004509336	DAKOTA	35825-13570
Mtr. No.:	75224		

Smpl Date:	05/16/2024	04/09/2024	04/21/2021
Test Date:	05/23/2024	04/10/2024	04/29/2021
Run No:	HS20240104	HS20240019	HS2021038
Nitrogen:	2.8269	3.4319	2.9432
CO2:	0.0016	0.0058	0.0025
Methane:	95.4792	94.8123	95.3549
Ethane:	1.1918	1.1987	1.2044
Propane:	0.2608	0.2649	0.2555
I-Butane:	0.1222	0.1304	0.1261
N-Butane:	0.0330	0.0367	0.0303
I-Pentane:	0.0202	0.0258	0.0208
N-Pentane:	0.0070	0.0136	0.0082
Hexane+:	0.0573	0.0799	0.0541
BTU:	1005.5	1001.0	1004.3
GPM:	17.0040	16.9800	16.9980
SPG:	0.5792	0.5828	0.5796



Well Name: DANBURG GAS COM B1;
 API #: 3004509336
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20240105
 Cust No: 35825-13575

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	DANBURG GAS COM B1; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	113 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	77 DEG. F
Formation:	DAKOTA	Flow Rate:	MCF/D
Cust. Stn. No.:	3004509336	Sample Method:	Purge & Fill
	75224	Sample Date:	05/16/2024
	AREA 2 / RUN 0208	Sample Time:	3.30 PM
Heat Trace:	N	Sampled By:	JESSE RANGEL
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5768	0.5672	0.0640	0.00	0.0056
CO2	1.5990	1.5724	0.2740	0.00	0.0243
Methane	78.9821	77.6671	13.4370	797.72	0.4375
Ethane	10.2390	10.0685	2.7480	181.20	0.1063
Propane	4.6874	4.6094	1.2960	117.94	0.0714
Iso-Butane	0.6872	0.6758	0.2260	22.35	0.0138
N-Butane	1.2955	1.2739	0.4100	42.26	0.0260
I-Pentane	0.4582	0.4506	0.1680	18.33	0.0114
N-Pentane	0.4286	0.4215	0.1560	17.18	0.0107
Hexane Plus	1.0462	1.0288	0.4680	55.15	0.0346
Total	100.0000	98.3352	19.2470	1252.13	0.7415

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0038
BTU/CU.FT IDEAL:	1255.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1259.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1237.8
DRY BTU @ 15.025:	1284.9
REAL SPECIFIC GRAVITY:	0.744

CYLINDER #:	2183
CYLINDER PRESSURE:	106 PSIG
ANALYSIS DATE:	05/24/2024
ANALYSIS TIME:	08:13:29 AM
ANALYSIS RUN BY:	SARAH BALLARD

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: 05/29/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	DANBURG GAS COM B1; CSG	CASING	05/29/2024
Stn. No.:	3004509336	DAKOTA	35825-13575
Mtr. No.:	75224		

Smpl Date:	05/16/2024	04/09/2024	04/21/2021
Test Date:	05/24/2024	04/12/2024	04/29/2021
Run No:	HS20240105	HS20240020	HS2021039
Nitrogen:	0.5768	0.6176	0.5460
CO2:	1.5990	1.6131	1.6554
Methane:	78.9821	78.3525	80.1717
Ethane:	10.2390	10.6427	10.1596
Propane:	4.6874	4.8799	4.3908
I-Butane:	0.6872	0.7328	0.6421
N-Butane:	1.2955	1.3750	1.1743
I-Pentane:	0.4582	0.4880	0.3731
N-Pentane:	0.4286	0.4434	0.3260
Hexane+:	1.0462	0.8550	0.5610
BTU:	1259.7	1261.1	1223.9
GPM:	19.2470	19.2780	19.0080
SPG:	0.7440	0.7455	0.7215



Well Name: DANBURG GAS COM B1;
 API #: 3004509336
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20240106
 Cust No: 35825-13580

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	DANBURG GAS COM B1; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	113 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	77 DEG. F
Formation:	DAKOTA	Flow Rate:	MCF/D
Cust. Stn. No.:	3004509336	Sample Method:	
	75224	Sample Date:	05/16/2024
		Sample Time:	3.30 PM
	AREA 2 / RUN 0208	Sampled By:	JESSE RANGEL
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7039	0.6940	0.0780	0.00	0.0068
CO2	1.6069	1.5844	0.2750	0.00	0.0244
Methane	79.6859	78.5688	13.5530	804.83	0.4414
Ethane	10.3318	10.1870	2.7720	182.84	0.1073
Propane	4.4339	4.3717	1.2250	111.56	0.0675
Iso-Butane	0.6336	0.6247	0.2080	20.60	0.0127
N-Butane	1.1790	1.1625	0.3730	38.46	0.0237
I-Pentane	0.3705	0.3653	0.1360	14.82	0.0092
N-Pentane	0.3122	0.3078	0.1140	12.52	0.0078
Hexane Plus	0.7423	0.7319	0.3320	39.13	0.0246
Total	100.0000	98.5981	19.0660	1224.76	0.7253

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	1922
BTU/CU.FT IDEAL:	1227.6	CYLINDER PRESSURE:	111 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1231.9	ANALYSIS DATE:	05/24/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1210.5	ANALYSIS TIME:	07:54:25 AM
DRY BTU @ 15.025:	1256.6	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7276		

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: 05/29/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	DANBURG GAS COM B1; TBG	TUBING	05/29/2024
Stn. No.:	3004509336	DAKOTA	35825-13580
Mtr. No.:	75224		

Smpl Date:	05/16/2024	04/09/2024	04/21/2021
Test Date:	05/24/2024	04/12/2024	04/29/2021
Run No:	HS20240106	HS20240021	HS2021040
Nitrogen:	0.7039	0.7243	0.5323
CO2:	1.6069	1.5956	1.6393
Methane:	79.6859	79.6510	79.9213
Ethane:	10.3318	10.3685	10.7006
Propane:	4.4339	4.4329	4.3816
I-Butane:	0.6336	0.6310	0.6092
N-Butane:	1.1790	1.1795	1.0859
I-Pentane:	0.3705	0.3586	0.3055
N-Pentane:	0.3122	0.3108	0.2563
Hexane+:	0.7423	0.7478	0.5680
BTU:	1231.9	1231.9	1221.5
GPM:	19.0660	19.0670	19.0170
SPG:	0.7276	0.7276	0.7195

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District II
811 S. First St., Artesia, NM 88210
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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

CONDITIONS

Action 352735

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 352735
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	BH = 157 - not the same gas	8/27/2024