



Well Name: DANBURG GAS COM B1;
 API #: API # 3004509336
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021038
 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:	105 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	48 DEG. F
Formation:		Flow Rate:	750 MCF/D
Cust. Stn. No.:	API # 3004509336	Sample Method:	Purge & Fill
		Sample Date:	04/21/2021
		Sample Time:	8.15 AM
	AREA 2 / RUN 0208	Sampled By:	NED HERNANDEZ
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.9432	2.9284	0.3240	0.00	0.0285
CO2	0.0025	0.0025	0.0000	0.00	0.0000
Methane	95.3549	94.8750	16.1940	963.08	0.5282
Ethane	1.2044	1.1983	0.3230	21.31	0.0125
Propane	0.2555	0.2542	0.0710	6.43	0.0039
Iso-Butane	0.1261	0.1255	0.0410	4.10	0.0025
N-Butane	0.0303	0.0301	0.0100	0.99	0.0006
I-Pentane	0.0208	0.0207	0.0080	0.83	0.0005
N-Pentane	0.0082	0.0082	0.0030	0.33	0.0002
Hexane Plus	0.0541	0.0538	0.0240	2.85	0.0018
Total	100.0000	99.4967	16.9980	999.93	0.5787

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.002	CYLINDER #:	4112
BTU/CU.FT IDEAL:	1002.2	CYLINDER PRESSURE:	108 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1004.3	ANALYSIS DATE:	04/29/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	986.8	ANALYSIS TIME:	10:34:41 AM
DRY BTU @ 15.025:	1024.4	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.5796		

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:	DANBURG GAS COM B1; BHD	BRADENHEAD	05/05/2021
Stn. No.:	API # 3004509336		35825-13570
Mtr. No.:			

Smpl Date: 04/21/2021
Test Date: 04/29/2021
Run No: HS2021038

Nitrogen: 2.9432
CO2: 0.0025
Methane: 95.3549
Ethane: 1.2044
Propane: 0.2555
I-Butane: 0.1261
N-Butane: 0.0303
I-Pentane: 0.0208
N-Pentane: 0.0082
Hexane+: 0.0541

BTU: 1004.3
GPM: 16.9980
SPG: 0.5796



Well Name: DANBURG GAS COM 1B;
 API #: API # 3004509336
 Source: CASING
 Sample Type: GAS
 Analysis No: HS2021039
 Cust No: 35825-13575

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	DANBURG GAS COM 1B; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	176 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	48 DEG. F
Formation:		Flow Rate:	750 MCF/D
Cust. Stn. No.:	API # 3004509336	Sample Method:	
		Sample Date:	04/21/2021
		Sample Time:	8.15 AM
		Sampled By:	NED HERNANDEZ
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5460	0.5448	0.0600	0.00	0.0053
CO2	1.6554	1.6519	0.2830	0.00	0.0252
Methane	80.1717	80.0023	13.6360	809.73	0.4441
Ethane	10.1596	10.1381	2.7260	179.79	0.1055
Propane	4.3908	4.3815	1.2140	110.48	0.0668
Iso-Butane	0.6421	0.6407	0.2110	20.88	0.0129
N-Butane	1.1743	1.1718	0.3710	38.31	0.0236
I-Pentane	0.3731	0.3723	0.1370	14.93	0.0093
N-Pentane	0.3260	0.3253	0.1190	13.07	0.0081
Hexane Plus	0.5610	0.5598	0.2510	29.57	0.0186
Total	100.0000	99.7885	19.0080	1216.76	0.7193

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	4229
BTU/CU.FT IDEAL:	1219.6	CYLINDER PRESSURE:	156 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1223.9	ANALYSIS DATE:	04/29/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1202.6	ANALYSIS TIME:	10:20:22 AM
DRY BTU @ 15.025:	1248.4	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.7215		

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:	DANBURG GAS COM 1B; CSG	CASING	05/05/2021
Stn. No.:	API # 3004509336		35825-13575
Mtr. No.:			

Smpl Date: 04/21/2021
Test Date: 04/29/2021
Run No: HS2021039

Nitrogen: 0.5460
CO2: 1.6554
Methane: 80.1717
Ethane: 10.1596
Propane: 4.3908
I-Butane: 0.6421
N-Butane: 1.1743
I-Pentane: 0.3731
N-Pentane: 0.3260
Hexane+: 0.5610

BTU: 1223.9
GPM: 19.0080
SPG: 0.7215



Well Name: DANBURG GAS COM B1;
 API #: API # 3004509336
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS2021040
 Cust No: 35825-13580

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: DANBURG GAS COM B1; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 3004509336

Source: TUBING
 Well Flowing:
 Pressure: 177 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 48 DEG. F
 Flow Rate: 75 MCF/D
 Sample Method:
 Sample Date: 04/21/2021
 Sample Time: 8.15 AM
 Sampled By: HED HERNANDEZ
 Sampled by (CO): HILCORP

AREA 2 / RUN 0208

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5323	0.5314	0.0590	0.00	0.0051
CO2	1.6393	1.6366	0.2810	0.00	0.0249
Methane	79.9213	79.7918	13.5930	807.21	0.4427
Ethane	10.7006	10.6832	2.8710	189.37	0.1111
Propane	4.3816	4.3745	1.2110	110.25	0.0667
Iso-Butane	0.6092	0.6082	0.2000	19.81	0.0122
N-Butane	1.0859	1.0841	0.3430	35.43	0.0218
I-Pentane	0.3055	0.3050	0.1120	12.22	0.0076
N-Pentane	0.2563	0.2559	0.0930	10.27	0.0064
Hexane Plus	0.5680	0.5671	0.2540	29.94	0.0188
Total	100.0000	99.8378	19.0170	1214.49	0.7174

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1217.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1221.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1200.2
 DRY BTU @ 15.025: 1246.0
 REAL SPECIFIC GRAVITY: 0.7195

CYLINDER #: 4067
 CYLINDER PRESSURE: 165 PSIG
 ANALYSIS DATE: 04/29/2021
 ANALYSIS TIME: 10:48:12 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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	DANBURG GAS COM B1; TBG	TUBING	05/05/2021
Stn. No.:	API # 3004509336		35825-13580
Mtr. No.:			

Smpl Date:	04/21/2021
Test Date:	04/29/2021
Run No:	HS2021040
Nitrogen:	0.5323
CO2:	1.6393
Methane:	79.9213
Ethane:	10.7006
Propane:	4.3816
I-Butane:	0.6092
N-Butane:	1.0859
I-Pentane:	0.3055
N-Pentane:	0.2563
Hexane+:	0.5680
BTU:	1221.5
GPM:	19.0170
SPG:	0.7195

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

CONDITIONS

Action 27508

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27508	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								