



Well Name: JF BELL #2; BHD
 API #: 3004511809
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021224
 Cust No: 35825-10340

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: JF BELL #2; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NM028226-C
 Formation: DK
 Cust. Stn. No.: 3004511809
 75477

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/27/2021
 Sample Time: 11.00 AM
 Sampled By: JOHN RUSSELL
 Sampled by (CO):

AREA 2 / RUN 0205

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6261	0.6094	0.0690	0.00	0.0061
CO2	0.0084	0.0082	0.0010	0.00	0.0001
Methane	88.6905	86.3269	15.0740	895.77	0.4913
Ethane	5.6419	5.4915	1.5130	99.84	0.0586
Propane	3.0048	2.9247	0.8300	75.60	0.0457
Iso-Butane	0.6629	0.6452	0.2170	21.56	0.0133
N-Butane	0.6609	0.6433	0.2090	21.56	0.0133
I-Pentane	0.2484	0.2418	0.0910	9.94	0.0062
N-Pentane	0.1501	0.1461	0.0550	6.02	0.0037
Hexane Plus	0.3060	0.2978	0.1370	16.13	0.0101
Total	100.0000	97.3349	18.1960	1146.42	0.6484

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 1149.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1152.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1132.3
 DRY BTU @ 15.025: 1175.4
 REAL SPECIFIC GRAVITY: 0.6499

CYLINDER #: 6032
 CYLINDER PRESSURE: 92 PSIG
 ANALYSIS DATE: 09/08/2021
 ANALYSIS TIME: 03:34:28 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: 09/09/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	JF BELL #2; BHD	BRADENHEAD	09/09/2021
Stn. No.:	3004511809	DK	35825-10340
Mtr. No.:	75477		

Smpl Date:	08/27/2021	08/15/2018
Test Date:	09/08/2021	08/15/2018
Run No:	HS2021224	HS180088
Nitrogen:	0.6261	0.6669
CO2:	0.0084	0.0015
Methane:	88.6905	90.6302
Ethane:	5.6419	5.2258
Propane:	3.0048	2.3318
I-Butane:	0.6629	0.4330
N-Butane:	0.6609	0.3909
I-Pentane:	0.2484	0.1238
N-Pentane:	0.1501	0.0708
Hexane+:	0.3060	0.1253
BTU:	1152.3	1113.2
GPM:	18.1960	17.9130
SPG:	0.6499	0.6251



Well Name: JF BELL #2; CSG

API #: 300451809

Source: CASING

Sample Type: GAS

Analysis No: HS2021225

Cust No: 35825-10345

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: JF BELL #2; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NM028226-C

Formation: DK

Cust. Stn. No.: 300451809
75477

AREA 2 / RUN 0205

Heat Trace:

Remarks:

Source: CASING

Well Flowing: Y

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 08/27/2021

Sample Time: 11.00 AM

Sampled By: JOHN RUSSELL

Sampled by (CO):

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4966	0.4849	0.0550	0.00	0.0048
CO2	1.4921	1.4569	0.2550	0.00	0.0227
Methane	80.0598	78.1705	13.6150	808.60	0.4435
Ethane	10.8760	10.6194	2.9180	192.47	0.1129
Propane	4.3162	4.2144	1.1930	108.60	0.0657
Iso-Butane	0.6237	0.6090	0.2050	20.28	0.0125
N-Butane	1.0529	1.0281	0.3330	34.35	0.0211
I-Pentane	0.3690	0.3603	0.1350	14.76	0.0092
N-Pentane	0.3068	0.2996	0.1120	12.30	0.0076
Hexane Plus	0.4069	0.3973	0.1820	21.45	0.0135
Total	100.0000	97.6404	19.0030	1212.82	0.7135

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1215.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1219.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1198.6
 DRY BTU @ 15.025: 1244.2
 REAL SPECIFIC GRAVITY: 0.7157

CYLINDER #: 6014
 CYLINDER PRESSURE: 358 PSIG
 ANALYSIS DATE: 09/08/2021
 ANALYSIS TIME: 03:51:44 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: 09/09/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	JF BELL #2; CSG	CASING	09/09/2021
Stn. No.:	300451809	DK	35825-10345
Mtr. No.:	75477		

Smpl Date:	08/27/2021	08/15/2018
Test Date:	09/08/2021	08/15/2018
Run No:	HS2021225	HS180089
Nitrogen:	0.4966	0.4628
CO2:	1.4921	1.4777
Methane:	80.0598	78.4816
Ethane:	10.8760	11.2989
Propane:	4.3162	4.7882
I-Butane:	0.6237	0.7483
N-Butane:	1.0529	1.3217
I-Pentane:	0.3690	0.4569
N-Pentane:	0.3068	0.3774
Hexane+:	0.4069	0.5865
BTU:	1219.8	1252.3
GPM:	19.0030	19.2420
SPG:	0.7157	0.7359



Well Name: JF BELL #2; TBG
 API #: 3004511809
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS2021226
 Cust No: 35825-10350

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: JF BELL #2; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NM028226-C
 Formation: DK
 Cust. Stn. No.: 3004511809
 75477

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: 08/27/2021
 Sample Time: 11.00 AM
 Sampled By: JOHN RUSSELL
 Sampled by (CO):

AREA 2 / RUN 0205

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5170	0.5045	0.0570	0.00	0.0050
CO2	1.4881	1.4521	0.2550	0.00	0.0226
Methane	80.9150	78.9585	13.7590	817.24	0.4482
Ethane	10.7397	10.4800	2.8810	190.06	0.1115
Propane	4.1068	4.0075	1.1350	103.33	0.0625
Iso-Butane	0.5487	0.5354	0.1800	17.84	0.0110
N-Butane	0.8407	0.8204	0.2660	27.43	0.0169
I-Pentane	0.2138	0.2086	0.0780	8.55	0.0053
N-Pentane	0.1673	0.1633	0.0610	6.71	0.0042
Hexane Plus	0.4629	0.4517	0.2070	24.40	0.0153
Total	100.0000	97.5820	18.8790	1195.56	0.7025

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1198.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1202.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1181.4
 DRY BTU @ 15.025: 1226.4
 REAL SPECIFIC GRAVITY: 0.7046

CYLINDER #: 5021
 CYLINDER PRESSURE: 366 PSIG
 ANALYSIS DATE: 09/08/2021
 ANALYSIS TIME: 03:44:10 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: 09/09/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	JF BELL #2; TBG	TUBING	09/09/2021
Stn. No.:	3004511809	DK	35825-10350
Mtr. No.:	75477		

Smpl Date:	08/27/2021	08/15/2018
Test Date:	09/08/2021	08/15/2018
Run No:	HS2021226	HS180090
Nitrogen:	0.5170	0.4932
CO2:	1.4881	1.4972
Methane:	80.9150	79.7162
Ethane:	10.7397	10.5267
Propane:	4.1068	4.2770
I-Butane:	0.5487	0.6609
N-Butane:	0.8407	1.1685
I-Pentane:	0.2138	0.3995
N-Pentane:	0.1673	0.3432
Hexane+:	0.4629	0.9176
BTU:	1202.3	1244.1
GPM:	18.8790	19.1470
SPG:	0.7046	0.7314

District I

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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 47735

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 47735
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	well is scheduled for plugging	12/21/2021