



BH sample is actually for INT

Well Name: SAN JUAN 27-5 UNIT 116;
 API #: 3003920206
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220074
 Cust No: 35825-14405

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 27-5 UNIT 116; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: 3003920206

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 95 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/11/2022
 Sample Time: 8.08 AM
 Sampled By: TOM STAHL
 Sampled by (CO): HILCORP

AREA 14 / RUN 1410

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1869	0.1839	0.0210	0.00	0.0018
CO2	0.9311	0.9159	0.1590	0.00	0.0141
Methane	77.3617	76.1004	13.1620	781.35	0.4285
Ethane	12.7209	12.5135	3.4140	225.12	0.1321
Propane	5.1189	5.0354	1.4150	128.80	0.0779
Iso-Butane	0.9255	0.9104	0.3040	30.10	0.0186
N-Butane	1.3829	1.3604	0.4380	45.11	0.0278
I-Pentane	0.5468	0.5379	0.2010	21.88	0.0136
N-Pentane	0.3604	0.3545	0.1310	14.45	0.0090
Hexane Plus	0.4649	0.4573	0.2080	24.51	0.0154
Total	100.0000	98.3696	19.4530	1271.31	0.7388

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1274.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1279.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1256.8
 DRY BTU @ 15.025: 1304.7
 REAL SPECIFIC GRAVITY: 0.7413

CYLINDER #: 6006
 CYLINDER PRESSURE: 93 PSIG
 ANALYSIS DATE: 05/17/2022
 ANALYSIS TIME: 09:52:40 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: 06/28/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 27-5 UNIT 116; BHD	BRADENHEAD	06/28/2022
Stn. No.:	3003920206	DK	35825-14405
Mtr. No.:			

Smpl Date: 05/11/2022
Test Date: 05/17/2022
Run No: HS20220074

Nitrogen: 0.1869
CO2: 0.9311
Methane: 77.3617
Ethane: 12.7209
Propane: 5.1189
I-Butane: 0.9255
N-Butane: 1.3829
I-Pentane: 0.5468
N-Pentane: 0.3604
Hexane+: 0.4649

BTU: 1279.1
GPM: 19.4530
SPG: 0.7413



Well Name: SAN JUAN 27-5 UNIT 116;
 API #: 3003920206
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20220075
 Cust No: 35825-14410

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 27-5 UNIT 116; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: 3003920206

Source: CASING
 Well Flowing: N
 Pressure: 95 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/11/2022
 Sample Time: 10.30 AM
 Sampled By: TOM STAHL
 Sampled by (CO): HILCORP

AREA 14 / RUN 1410

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1887	0.1855	0.0210	0.00	0.0018
CO2	0.9258	0.9101	0.1590	0.00	0.0141
Methane	77.3656	76.0540	13.1620	781.39	0.4285
Ethane	12.7247	12.5090	3.4150	225.19	0.1321
Propane	5.1226	5.0358	1.4160	128.89	0.0780
Iso-Butane	0.9242	0.9085	0.3040	30.05	0.0185
N-Butane	1.3807	1.3573	0.4370	45.04	0.0277
I-Pentane	0.5487	0.5394	0.2010	21.95	0.0137
N-Pentane	0.3612	0.3551	0.1310	14.48	0.0090
Hexane Plus	0.4578	0.4500	0.2050	24.13	0.0152
Total	100.0000	98.3047	19.4510	1271.13	0.7386

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1274.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1278.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1256.6
 DRY BTU @ 15.025: 1304.5
 REAL SPECIFIC GRAVITY: 0.7411

CYLINDER #: 6205
 CYLINDER PRESSURE: 94 PSIG
 ANALYSIS DATE: 05/17/2022
 ANALYSIS TIME: 10:02:42 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: 06/28/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 27-5 UNIT 116; CSG	CASING	06/28/2022
Stn. No.:	3003920206	DK	35825-14410
Mtr. No.:			

Smpl Date: 05/11/2022
Test Date: 05/17/2022
Run No: HS20220075

Nitrogen: 0.1887
CO2: 0.9258
Methane: 77.3656
Ethane: 12.7247
Propane: 5.1226
I-Butane: 0.9242
N-Butane: 1.3807
I-Pentane: 0.5487
N-Pentane: 0.3612
Hexane+: 0.4578

BTU: 1278.9
GPM: 19.4510
SPG: 0.7411

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 124853

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 124853
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas production casing and bradenhead - bh = 95 psi at time of sampling	9/20/2022