



Well Name: SAN JUAN 27-5 26; BHD  
 API #: 30-039-07093  
 Source: BRADENHEAD  
 Sample Type: GAS  
 Analysis No: HS20250041  
 Cust No: 35825-16350

**Well/Lease Information**

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	SAN JUAN 27-5 26; BHD	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	22 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	26	Ambient Temp:	67 DEG. F
Formation:	PC/MV	Flow Rate:	MCF/D
Cust. Stn. No.:	30-039-07093	Sample Method:	Purge & Fill
	71833 - PC	Sample Date:	05/10/2025
	71835 - MV	Sample Time:	11.10 AM
	AREA 13 / RUN 1312	Sampled By:	ROBIN DANEK
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2955	0.0784	0.0330	0.00	0.0029
CO2	0.4059	0.1077	0.0690	0.00	0.0062
Methane	89.3289	23.7035	15.1840	902.22	0.4948
Ethane	4.8958	1.2991	1.3130	86.64	0.0508
Propane	2.7658	0.7339	0.7640	69.59	0.0421
Iso-Butane	0.5498	0.1459	0.1800	17.88	0.0110
N-Butane	0.9308	0.2470	0.2940	30.37	0.0187
I-Pentane	0.2340	0.0621	0.0860	9.36	0.0058
N-Pentane	0.0874	0.0232	0.0320	3.50	0.0022
Hexane Plus	0.5061	0.1343	0.2260	26.68	0.0167
<b>Total</b>	<b>100.0000</b>	<b>26.5351</b>	<b>18.1810</b>	<b>1146.24</b>	<b>0.6512</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	1422
BTU/CU.FT IDEAL:	1148.9	CYLINDER PRESSURE:	4 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1152.1	ANALYSIS DATE:	05/14/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1132.1	ANALYSIS TIME:	11:02:29 AM
DRY BTU @ 15.025:	1175.2	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.6528		

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: 09/09/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

**Lease:** SAN JUAN 27-5 26; BHD  
**Stn. No.:** 30-039-07093  
**Mtr. No.:** 71833 - PC

BRADENHEAD  
PC/MV

09/09/2025  
35825-16350

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**Smpl Date:** 05/10/2025  
**Test Date:** 05/14/2025  
**Run No:** HS20250041

**Nitrogen:** 0.2955  
**CO2:** 0.4059  
**Methane:** 89.3289  
**Ethane:** 4.8958  
**Propane:** 2.7658  
**I-Butane:** 0.5498  
**N-Butane:** 0.9308  
**I-Pentane:** 0.2340  
**N-Pentane:** 0.0874  
**Hexane+:** 0.5061

**BTU:** 1152.1  
**GPM:** 18.1810  
**SPG:** 0.6528



Well Name: SAN JUAN 27-5 26; CSG  
 API #: 30-039-07093  
 Source: CASING  
 Sample Type: GAS  
 Analysis No: HS20250042  
 Cust No: 35825-16355

**Well/Lease Information**

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SAN JUAN 27-5 26; CSG	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	157 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	26	Ambient Temp:	67 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	30-039-07093	Sample Method:	Purge & Fill
	71833 - PC	Sample Date:	05/10/2025
	AREA 13 / RUN 1312	Sample Time:	11.30 AM
Heat Trace:	N	Sampled By:	ROBIN DANEK
Remarks:		Sampled by (CO):	HILCORP

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2440	0.2408	0.0270	0.00	0.0024
CO2	0.4251	0.4196	0.0730	0.00	0.0065
Methane	88.6327	87.4843	15.0660	895.19	0.4909
Ethane	5.2388	5.1709	1.4050	92.71	0.0544
Propane	2.9368	2.8988	0.8110	73.89	0.0447
Iso-Butane	0.5934	0.5857	0.1950	19.30	0.0119
N-Butane	1.0149	1.0018	0.3210	33.11	0.0204
I-Pentane	0.2764	0.2728	0.1010	11.06	0.0069
N-Pentane	0.1801	0.1778	0.0650	7.22	0.0045
Hexane Plus	0.4578	0.4519	0.2050	24.13	0.0152
<b>Total</b>	<b>100.0000</b>	<b>98.7044</b>	<b>18.2690</b>	<b>1156.61</b>	<b>0.6577</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	155
BTU/CU.FT IDEAL:	1159.3	CYLINDER PRESSURE:	115 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1162.7	ANALYSIS DATE:	05/14/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1142.5	ANALYSIS TIME:	11:09:38 AM
DRY BTU @ 15.025:	1186.0	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.6593		

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: 09/09/2025

GC Method: C6+ Gas





Well Name: SAN JUAN 27-5 26; TBG  
 API #: 30-039-07093  
 Source: TUBING  
 Sample Type: GAS  
 Analysis No: HS20250043  
 Cust No: 35825-16360

**Well/Lease Information**

Customer Name: HILCORP (BHD PROJECT)  
 Well Name: SAN JUAN 27-5 26; TBG  
 County/State: RIO ARRIBA NM  
 Location:  
 Lease/PA/CA: 26  
 Formation: MV  
 Cust. Stn. No.: 30-039-07093  
 71835 - MV  
 71833 - PC  
 AREA 13 / RUN 1312

Source: TUBING  
 Well Flowing:  
 Pressure: 189 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 67 DEG. F  
 Flow Rate: 0 MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 05/10/2025  
 Sample Time: 11.30 AM  
 Sampled By: ROBIN DANEK  
 Sampled by (CO): HILCORP

Heat Trace:  
 Remarks:

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2722	0.2708	0.0300	0.00	0.0026
CO2	1.1307	1.1248	0.1940	0.00	0.0172
Methane	82.7661	82.3315	14.0750	835.94	0.4584
Ethane	7.3997	7.3608	1.9850	130.95	0.0768
Propane	4.6971	4.6724	1.2980	118.18	0.0715
Iso-Butane	0.7927	0.7885	0.2600	25.78	0.0159
N-Butane	1.6821	1.6733	0.5320	54.88	0.0338
I-Pentane	0.3864	0.3844	0.1420	15.46	0.0096
N-Pentane	0.3282	0.3265	0.1190	13.16	0.0082
Hexane Plus	0.5448	0.5419	0.2440	28.72	0.0180
<b>Total</b>	<b>100.0000</b>	<b>99.4749</b>	<b>18.8790</b>	<b>1223.06</b>	<b>0.7121</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0034	CYLINDER #:	200
BTU/CU.FT IDEAL:	1225.9	CYLINDER PRESSURE:	178 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1230.1	ANALYSIS DATE:	05/14/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1208.7	ANALYSIS TIME:	11:17:47 AM
DRY BTU @ 15.025:	1254.7	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7142		

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: 09/09/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

<b>Lease:</b>	SAN JUAN 27-5 26; TBG	TUBING	09/09/2025
<b>Stn. No.:</b>	30-039-07093	MV	35825-16360
<b>Mtr. No.:</b>	71835 - MV		

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<b>Smpl Date:</b>	05/10/2025	05/10/2025
<b>Test Date:</b>	05/14/2025	05/14/2025
<b>Run No:</b>	HS20250043	HS20250044
<b>Nitrogen:</b>	0.2722	0.2962
<b>CO2:</b>	1.1307	0.6597
<b>Methane:</b>	82.7661	88.6196
<b>Ethane:</b>	7.3997	6.1825
<b>Propane:</b>	4.6971	2.6937
<b>I-Butane:</b>	0.7927	0.4035
<b>N-Butane:</b>	1.6821	0.6221
<b>I-Pentane:</b>	0.3864	0.1433
<b>N-Pentane:</b>	0.3282	0.0806
<b>Hexane+:</b>	0.5448	0.2988
<b>BTU:</b>	1230.1	1136.2
<b>GPM:</b>	18.8790	18.1550
<b>SPG:</b>	0.7142	0.6466

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oecd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 504617

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 504617
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

**CONDITIONS**

Created By	Condition	Condition Date
jagarcia	Accepted for record	4/9/2026