



Well Name: SJ 28-7 136; INT  
 API #: 30-039-07408  
 Source: INTERMEDIATE CASING  
 Sample Type: GAS  
 Analysis No: HS20250105  
 Cust No: 35825-16490

**Well/Lease Information**

Customer Name: HILCORP (BHD PROJECT)	Source: INTERMEDIATE CASING
Well Name: SJ 28-7 136; INT	Well Flowing:
County/State: RIO ARRIBA NM	Pressure: 8 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: NMSF - 079289	Ambient Temp: 65 DEG. F
Formation: DK	Flow Rate: MCF/D
Cust. Stn. No.: 30-039-07408	Sample Method: Purge & Fill
	Sample Date: 08/26/2025
	Sample Time: 10.10 AM
	Sampled By: ALEC W.
	Sampled by (CO): HILCORP

Heat Trace: AREA 10 / RUN 1007

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.2099	0.5353	0.3540	0.00	0.0310
CO2	0.6002	0.1001	0.1030	0.00	0.0091
Methane	81.4574	13.5844	13.8500	822.72	0.4512
Ethane	6.5942	1.0997	1.7690	116.70	0.0685
Propane	4.9884	0.8319	1.3780	125.51	0.0759
Iso-Butane	0.7735	0.1290	0.2540	25.15	0.0155
N-Butane	1.1435	0.1907	0.3620	37.30	0.0229
I-Pentane	0.3232	0.0539	0.1190	12.93	0.0081
N-Pentane	0.2183	0.0364	0.0790	8.75	0.0054
Hexane Plus	0.6914	0.1153	0.3090	36.44	0.0229
<b>Total</b>	<b>100.0000</b>	<b>16.6767</b>	<b>18.5770</b>	<b>1185.51</b>	<b>0.7106</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	103
BTU/CU.FT IDEAL:	1188.3	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1192.1	ANALYSIS DATE:	09/04/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1171.4	ANALYSIS TIME:	12:33:40 AM
DRY BTU @ 15.025:	1216.0	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7126		

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: 09/12/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

<b>Lease:</b>	SJ 28-7 136; INT	INTERMEDIATE CASING	09/12/2025
<b>Stn. No.:</b>	30-039-07408	DK	35825-16490
<b>Mtr. No.:</b>			

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<b>Smpl Date:</b>	08/26/2025
<b>Test Date:</b>	09/04/2025
<b>Run No:</b>	HS20250105
<b>Nitrogen:</b>	3.2099
<b>CO2:</b>	0.6002
<b>Methane:</b>	81.4574
<b>Ethane:</b>	6.5942
<b>Propane:</b>	4.9884
<b>I-Butane:</b>	0.7735
<b>N-Butane:</b>	1.1435
<b>I-Pentane:</b>	0.3232
<b>N-Pentane:</b>	0.2183
<b>Hexane+:</b>	0.6914
<b>BTU:</b>	1192.1
<b>GPM:</b>	18.5770
<b>SPG:</b>	0.7126



Well Name: SJ 28-7 136; CSG  
 API #: 30-039-07408  
 Source: CASING  
 Sample Type: GAS  
 Analysis No: HS20250103  
 Cust No: 35825-16480

**Well/Lease Information**

Customer Name: HILCORP (BHD PROJECT)  
 Well Name: SJ 28-7 136; CSG  
 County/State: RIO ARRIBA NM  
 Location:  
 Lease/PA/CA: NMSF - 079289  
 Formation: DK  
 Cust. Stn. No.: 30-039-07408

Source: CASING  
 Well Flowing:  
 Pressure: 84 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 65 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 08/26/2025  
 Sample Time: 10.11 AM  
 Sampled By: ALEC W.  
 Sampled by (CO): HILCORP

ARA 10 / RUN 1007

Heat Trace:  
 Remarks:

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.1673	2.1661	0.2390	0.00	0.0210
CO2	0.9152	0.9147	0.1570	0.00	0.0139
Methane	83.9375	83.8922	14.2700	847.77	0.4649
Ethane	6.3644	6.3610	1.7070	112.63	0.0661
Propane	3.9270	3.9249	1.0850	98.81	0.0598
Iso-Butane	0.7208	0.7204	0.2370	23.44	0.0145
N-Butane	0.9182	0.9177	0.2900	29.95	0.0184
I-Pentane	0.3160	0.3158	0.1160	12.64	0.0079
N-Pentane	0.2181	0.2180	0.0790	8.74	0.0054
Hexane Plus	0.5155	0.5152	0.2310	27.17	0.0171
<b>Total</b>	<b>100.0000</b>	<b>99.9460</b>	<b>18.4110</b>	<b>1161.16</b>	<b>0.6889</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0031  
 BTU/CU.FT IDEAL: 1163.8  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1167.5  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1147.2  
 DRY BTU @ 15.025: 1190.9  
 REAL SPECIFIC GRAVITY: 0.6908

CYLINDER #: 1812  
 CYLINDER PRESSURE: 82 PSIG  
 ANALYSIS DATE: 09/04/2025  
 ANALYSIS TIME: 10:25:45 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: 09/12/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

<b>Lease:</b>	SJ 28-7 136; CSG	CASING	09/12/2025
<b>Stn. No.:</b>	30-039-07408	DK	35825-16480
<b>Mtr. No.:</b>			

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<b>Smpl Date:</b>	08/26/2025
<b>Test Date:</b>	09/04/2025
<b>Run No:</b>	HS20250103
<b>Nitrogen:</b>	2.1673
<b>CO2:</b>	0.9152
<b>Methane:</b>	83.9375
<b>Ethane:</b>	6.3644
<b>Propane:</b>	3.9270
<b>I-Butane:</b>	0.7208
<b>N-Butane:</b>	0.9182
<b>I-Pentane:</b>	0.3160
<b>N-Pentane:</b>	0.2181
<b>Hexane+:</b>	0.5155
<b>BTU:</b>	1167.5
<b>GPM:</b>	18.4110
<b>SPG:</b>	0.6908



Well Name: SJ 28-7 136; TBG  
 API #: 30-039-07408  
 Source: TUBING  
 Sample Type: GAS  
 Analysis No: HS20250104  
 Cust No: 35825-16485

**Well/Lease Information**

Customer Name: HILCORP (BHD PROJECT)  
 Well Name: SJ 28-7 136; TBG  
 County/State: RIO ARRIBA NM  
 Location:  
 Lease/PA/CA: NMSF - 079289  
 Formation: DK  
 Cust. Stn. No.: 30-039-07408

Source: TUBING  
 Well Flowing:  
 Pressure: 108 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 65 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 08/26/2025  
 Sample Time: 10.10 AM  
 Sampled By: ALEC WALDON  
 Sampled by (CO): HILCORP

AREA 10 / RUN 1007

Heat Trace:  
 Remarks:

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6326	0.6297	0.0700	0.00	0.0061
CO2	1.3130	1.3069	0.2250	0.00	0.0200
Methane	90.0799	89.6607	15.3070	909.81	0.4990
Ethane	5.0294	5.0060	1.3480	89.01	0.0522
Propane	1.5082	1.5012	0.4160	37.95	0.0230
Iso-Butane	0.4675	0.4653	0.1530	15.20	0.0094
N-Butane	0.2983	0.2969	0.0940	9.73	0.0060
I-Pentane	0.2076	0.2066	0.0760	8.31	0.0052
N-Pentane	0.0910	0.0906	0.0330	3.65	0.0023
Hexane Plus	0.3725	0.3708	0.1670	19.63	0.0123
<b>Total</b>	<b>100.0000</b>	<b>99.5347</b>	<b>17.8890</b>	<b>1093.28</b>	<b>0.6353</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z):	1.0026	CYLINDER #:	039
BTU/CU.FT IDEAL:	1095.8	CYLINDER PRESSURE:	100 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1098.7	ANALYSIS DATE:	09/04/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1079.6	ANALYSIS TIME:	12:41:57 AM
DRY BTU @ 15.025:	1120.7	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6367		

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: 09/12/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

<b>Lease:</b>	SJ 28-7 136; TBG	TUBING	09/12/2025
<b>Stn. No.:</b>	30-039-07408	DK	35825-16485
<b>Mtr. No.:</b>			

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<b>Smpl Date:</b>	08/26/2025
<b>Test Date:</b>	09/04/2025
<b>Run No:</b>	HS20250104
<b>Nitrogen:</b>	0.6326
<b>CO2:</b>	1.3130
<b>Methane:</b>	90.0799
<b>Ethane:</b>	5.0294
<b>Propane:</b>	1.5082
<b>I-Butane:</b>	0.4675
<b>N-Butane:</b>	0.2983
<b>I-Pentane:</b>	0.2076
<b>N-Pentane:</b>	0.0910
<b>Hexane+:</b>	0.3725
<b>BTU:</b>	1098.7
<b>GPM:</b>	17.8890
<b>SPG:</b>	0.6367

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 506110

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 506110
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

**CONDITIONS**

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