



Well Name: SJ 30-5 #40; BHD
 API #: 3003921026
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20250109
 Cust No: 35825-16510

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: BRADENHEAD
Well Name: SJ 30-5 #40; BHD	Well Flowing: Y
County/State: RIO ARRIBA NM	Pressure: 83 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: 94 DEG. F
Formation: MV	Flow Rate: MCF/D
Cust. Stn. No.: 3003921026	Sample Method: Purge & Fill
	Sample Date: 08/29/2025
	Sample Time: 9.00 AM
	Sampled By:
	Sampled by (CO): HEC
Heat Trace: N	
Remarks:	

AREA 12 / RUN 1208

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3487	0.3487	0.0380	0.00	0.0034
CO2	1.3996	1.3996	0.2390	0.00	0.0213
Methane	93.4295	93.4295	15.8720	943.64	0.5175
Ethane	3.5548	3.5548	0.9530	62.91	0.0369
Propane	0.8542	0.8542	0.2360	21.49	0.0130
Iso-Butane	0.1556	0.1556	0.0510	5.06	0.0031
N-Butane	0.1400	0.1400	0.0440	4.57	0.0028
I-Pentane	0.0465	0.0465	0.0170	1.86	0.0012
N-Pentane	0.0227	0.0227	0.0080	0.91	0.0006
Hexane Plus	0.0484	0.0484	0.0220	2.55	0.0016
Total	100.0000	100.0000	17.4800	1042.99	0.6013

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023	CYLINDER #:	9032
BTU/CU.FT IDEAL:	1045.4	CYLINDER PRESSURE:	44 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1047.8	ANALYSIS DATE:	09/10/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1029.6	ANALYSIS TIME:	03:18:33 PM
DRY BTU @ 15.025:	1068.8	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6025		

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: 09/17/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 30-5 #40; BHD	BRADENHEAD	09/17/2025
Stn. No.:	3003921026	MV	35825-16510
Mtr. No.:			

Smpl Date:	08/29/2025
Test Date:	09/10/2025
Run No:	HS20250109
Nitrogen:	0.3487
CO2:	1.3996
Methane:	93.4295
Ethane:	3.5548
Propane:	0.8542
I-Butane:	0.1556
N-Butane:	0.1400
I-Pentane:	0.0465
N-Pentane:	0.0227
Hexane+:	0.0484
BTU:	1047.8
GPM:	17.4800
SPG:	0.6025



Well Name: SJ 30-5 #40; CSG
 API #: 3003921026
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20250110
 Cust No: 35825-16515

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SJ 30-5 #40; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: MV
 Cust. Stn. No.: 3003921026

Source: CASING
 Well Flowing: Y
 Pressure: 104 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 94 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/29/2025
 Sample Time: 9.00 AM
 Sampled By: IVAN TAPIA
 Sampled by (CO): HILCORP

Heat Trace: N
 Remarks: AREA 12 / RUN 1208

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0757	0.0757	0.0080	0.00	0.0007
CO2	1.5075	1.5075	0.2580	0.00	0.0229
Methane	93.6907	93.6907	15.9160	946.28	0.5190
Ethane	3.3936	3.3936	0.9090	60.06	0.0352
Propane	0.7896	0.7896	0.2180	19.87	0.0120
Iso-Butane	0.1473	0.1473	0.0480	4.79	0.0030
N-Butane	0.1376	0.1376	0.0430	4.49	0.0028
I-Pentane	0.0603	0.0603	0.0220	2.41	0.0015
N-Pentane	0.0349	0.0349	0.0130	1.40	0.0009
Hexane Plus	0.1628	0.1628	0.0730	8.58	0.0054
Total	100.0000	100.0000	17.5080	1047.87	0.6033

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023	CYLINDER #:	033
BTU/CU.FT IDEAL:	1050.3	CYLINDER PRESSURE:	104 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1052.7	ANALYSIS DATE:	09/10/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1034.4	ANALYSIS TIME:	03:29:56 PM
DRY BTU @ 15.025:	1073.8	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6045		

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: 09/17/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 30-5 #40; CSG	CASING	09/17/2025
Stn. No.:	3003921026	MV	35825-16515
Mtr. No.:			

Smpl Date:	08/29/2025
Test Date:	09/10/2025
Run No:	HS20250110
Nitrogen:	0.0757
CO2:	1.5075
Methane:	93.6907
Ethane:	3.3936
Propane:	0.7896
I-Butane:	0.1473
N-Butane:	0.1376
I-Pentane:	0.0603
N-Pentane:	0.0349
Hexane+:	0.1628
BTU:	1052.7
GPM:	17.5080
SPG:	0.6045



Well Name: SJ 30-5 #40; TBG
 API #: 3003921026
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20250111
 Cust No: 35825-16520

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: TUBING
Well Name: SJ 30-5 #40; TBG	Well Flowing: Y
County/State: RIO ARRIBA NM	Pressure: 64 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: 94 DEG. F
Formation: MV	Flow Rate: MCF/D
Cust. Stn. No.: 3003921026	Sample Method: Purge & Fill
	Sample Date: 08/29/2025
	Sample Time: 9.00 AM
	Sampled By:
	Sampled by (CO):
Heat Trace: N	
Remarks:	

AREA 12 / 1208

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4851	0.4774	0.0530	0.00	0.0047
CO2	1.6305	1.6045	0.2790	0.00	0.0248
Methane	95.0094	93.4956	16.1380	959.59	0.5263
Ethane	2.1967	2.1617	0.5890	38.88	0.0228
Propane	0.3982	0.3919	0.1100	10.02	0.0061
Iso-Butane	0.0843	0.0830	0.0280	2.74	0.0017
N-Butane	0.0593	0.0584	0.0190	1.93	0.0012
I-Pentane	0.0325	0.0320	0.0120	1.30	0.0008
N-Pentane	0.0203	0.0200	0.0070	0.81	0.0005
Hexane Plus	0.0837	0.0824	0.0370	4.41	0.0028
Total	100.0000	98.4069	17.2720	1019.69	0.5916

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0022	CYLINDER #:	9022
BTU/CU.FT IDEAL:	1022.0	CYLINDER PRESSURE:	57 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1024.3	ANALYSIS DATE:	09/10/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1006.5	ANALYSIS TIME:	03:28:38 PM
DRY BTU @ 15.025:	1044.8	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.5926		

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: 09/17/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 30-5 #40; TBG	TUBING	09/17/2025
Stn. No.:	3003921026	MV	35825-16520
Mtr. No.:			

Smpl Date:	08/29/2025
Test Date:	09/10/2025
Run No:	HS20250111
Nitrogen:	0.4851
CO2:	1.6305
Methane:	95.0094
Ethane:	2.1967
Propane:	0.3982
I-Butane:	0.0843
N-Butane:	0.0593
I-Pentane:	0.0325
N-Pentane:	0.0203
Hexane+:	0.0837
BTU:	1024.3
GPM:	17.2720
SPG:	0.5926

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/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 507733

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 507733
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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