Well Name: JOHNSTON FED 12; BHD
API #: 3004522987
Source: BRADENHEAD
Sample Type: GAS

Analysis No: HS20260149
Cust No: 35825-14885

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	JOHNSTON FED 12; BHD	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004522987	Sample Method:	
		Sample Date:	07/21/2026
		Sample Time:	12.00 AM
	AREA 4 / RUN 405	Sampled By:	KYLE CANDELARIA
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.7358	4.7278	0.5220	0.00	0.0458
CO2	2.3499	2.3459	0.4020	0.00	0.0357
Methane	81.1160	80.9781	13.7890	819.27	0.4493
Ethane	6.5240	6.5129	1.7500	115.46	0.0677
Propane	2.7179	2.7133	0.7510	68.39	0.0414
Iso-Butane	0.4551	0.4543	0.1490	14.80	0.0091
N-Butane	0.6754	0.6743	0.2140	22.03	0.0136
I-Pentane	0.2244	0.2240	0.0820	8.98	0.0056
N-Pentane	0.1732	0.1729	0.0630	6.94	0.0043
Hexane Plus	1.0283	1.0266	0.4600	54.20	0.0340
Total	100.0000	99.8301	18.1820	1110.07	0.7065

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.003	CYLINDER #:	6113
BTU/CU.FT IDEAL:	1112.6	CYLINDER PRESSURE:	19 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1116.0	ANALYIS DATE:	07/15/2026
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1096.6	ANALYIS TIME:	10:54:00 AM
DRY BTU @ 15.025:	1138.4	ANALYSIS RUN BY:	Sami Armenta
REAL SPECIFIC GRAVITY:	0.7084		

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: 07/24/2026**
GC Method: C6+ Gas

HILCORP (BHD PROJECT)

WELL ANALYSIS COMPARISON

Lease:	JOHNSTON FED 12; BHD	BRADENHEAD	07/24/2026
Stn. No.:	3004522987		35825-14885
Mtr. No.:			

Smpl Date:	07/21/2026	06/14/2023
Test Date:	07/15/2026	06/15/2023
Run No:	HS20260149	HS20230065
Nitrogen:	4.7358	0.1083
CO2:	2.3499	2.4842
Methane:	81.1160	85.5084
Ethane:	6.5240	5.8767
Propane:	2.7179	2.4423
I-Butane:	0.4551	0.4994
N-Butane:	0.6754	0.8610
I-Pentane:	0.2244	0.3895
N-Pentane:	0.1732	0.3323
Hexane+:	1.0283	1.4979
BTU:	1116.0	1187.9
GPM:	18.1820	18.5980
SPG:	0.7084	0.7075

Well Name: JOHNSTON FED 12; TBG
API #: 3004522987
Source: TUBING
Sample Type: GAS

Analysis No: HS20260151
Cust No: 35825-14895

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	JOHNSTON FED 12; TBG	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004522987	Sample Method:	
		Sample Date:	07/15/2026
		Sample Time:	10.50 AM
	AREA 4 / RUN 405	Sampled By:	KYLE CANDELARIA
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3884	0.0889	0.0430	0.00	0.0038
CO2	2.4992	0.5721	0.4280	0.00	0.0380
Methane	84.8522	19.4235	14.4270	857.01	0.4700
Ethane	6.6375	1.5194	1.7800	117.46	0.0689
Propane	2.8898	0.6615	0.7980	72.71	0.0440
Iso-Butane	0.5207	0.1192	0.1710	16.93	0.0104
N-Butane	0.7959	0.1822	0.2520	25.96	0.0160
I-Pentane	0.2783	0.0637	0.1020	11.13	0.0069
N-Pentane	0.2158	0.0494	0.0780	8.65	0.0054
Hexane Plus	0.9222	0.2111	0.4120	48.61	0.0305
Total	100.0000	22.8910	18.4910	1158.47	0.6939

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0032	CYLINDER #:	4231
BTU/CU.FT IDEAL:	1161.2	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1164.9	ANALYIS DATE:	07/15/2026
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1144.6	ANALYIS TIME:	10:50:57 AM
DRY BTU @ 15.025:	1188.2	ANALYSIS RUN BY:	Sami Armenta
REAL SPECIFIC GRAVITY:	0.6958		

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: 07/24/2026**
GC Method: C6+ Gas

HILCORP (BHD PROJECT)

WELL ANALYSIS COMPARISON

Lease:	JOHNSTON FED 12; TBG	TUBING	07/24/2026
Stn. No.:	3004522987		35825-14895
Mtr. No.:			

Smpl Date:	07/15/2026	06/14/2023
Test Date:	07/15/2026	06/15/2023
Run No:	HS20260151	HS20230067
Nitrogen:	0.3884	0.1077
CO2:	2.4992	2.6443
Methane:	84.8522	84.1149
Ethane:	6.6375	6.9653
Propane:	2.8898	3.0755
I-Butane:	0.5207	0.5566
N-Butane:	0.7959	0.9044
I-Pentane:	0.2783	0.3589
N-Pentane:	0.2158	0.2918
Hexane+:	0.9222	0.9806
BTU:	1164.9	1182.2
GPM:	18.4910	18.6320
SPG:	0.6958	0.7063

Well Name: JOHNSTON FED 12; CSG
API #: 3004522982
Source: CASING
Sample Type: GAS

Analysis No: HS20260150
Cust No: 35825-14890

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	JOHNSTON FED 12; CSG	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004522982	Sample Method:	Purge & Fill
		Sample Date:	07/21/2026
		Sample Time:	12.00 AM
	AREA 4 / RUN 405	Sampled By:	KYLE CANDELARIA
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1477	0.1468	0.0160	0.00	0.0014
CO2	2.6706	2.6549	0.4570	0.00	0.0406
Methane	84.1950	83.6990	14.3160	850.37	0.4664
Ethane	7.0454	7.0039	1.8900	124.68	0.0731
Propane	3.0857	3.0675	0.8530	77.64	0.0470
Iso-Butane	0.5502	0.5470	0.1810	17.89	0.0110
N-Butane	0.8465	0.8415	0.2680	27.62	0.0170
I-Pentane	0.3100	0.3082	0.1140	12.40	0.0077
N-Pentane	0.2407	0.2393	0.0880	9.65	0.0060
Hexane Plus	0.9082	0.9029	0.4060	47.87	0.0301
Total	100.0000	99.4110	18.5890	1168.12	0.7003

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0032	CYLINDER #:	7034
BTU/CU.FT IDEAL:	1170.8	CYLINDER PRESSURE:	20 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1174.6	ANALYIS DATE:	07/15/2026
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1154.2	ANALYIS TIME:	10:37:00 AM
DRY BTU @ 15.025:	1198.1	ANALYSIS RUN BY:	Sami Armenta
REAL SPECIFIC GRAVITY:	0.7023		

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: 07/24/2026**
GC Method: C6+ Gas

HILCORP (BHD PROJECT)

WELL ANALYSIS COMPARISON

Lease:	JOHNSTON FED 12; CSG	CASING	07/24/2026
Stn. No.:	3004522982		35825-14890
Mtr. No.:			

Smpl Date:	07/21/2026	06/14/2023
Test Date:	07/15/2026	06/15/2023
Run No:	HS20260150	HS20230066
Nitrogen:	0.1477	0.1065
CO2:	2.6706	2.6092
Methane:	84.1950	84.3758
Ethane:	7.0454	7.0860
Propane:	3.0857	3.1235
I-Butane:	0.5502	0.5555
N-Butane:	0.8465	0.8728
I-Pentane:	0.3100	0.3140
N-Pentane:	0.2407	0.2426
Hexane+:	0.9082	0.7141
BTU:	1174.6	1169.1
GPM:	18.5890	18.5490
SPG:	0.7023	0.6973

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 608304

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 608304
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Accepted for record	8/5/2026