



Well Name: SAN JUAN 30-5 #94; BHD

API #: 3003923146

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20250011

Cust No: 35825-15615

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SAN JUAN 30-5 #94; BHD

County/State:

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.: 3003923146

Source: BRADENHEAD

Well Flowing:

Pressure: 6 PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 01/16/2025

Sample Time: 12.30 PM

Sampled By: TIM FERGUSON

Sampled by (CO): HILCORP

Heat Trace:

AREA 12 / RUN 1203

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.2491	0.4463	0.1380	0.00	0.0121
CO2	0.0090	0.0032	0.0020	0.00	0.0001
Methane	77.1628	27.5706	13.1240	779.34	0.4274
Ethane	13.6987	4.8946	3.6750	242.43	0.1422
Propane	5.0514	1.8049	1.3960	127.10	0.0769
Iso-Butane	1.0117	0.3615	0.3320	32.90	0.0203
N-Butane	1.0616	0.3793	0.3360	34.63	0.0213
I-Pentane	0.3219	0.1150	0.1180	12.88	0.0080
N-Pentane	0.1685	0.0602	0.0610	6.75	0.0042
Hexane Plus	0.2653	0.0948	0.1190	13.98	0.0088
Total	100.0000	35.7304	19.3010	1250.02	0.7214

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1252.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1257.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1235.4
 DRY BTU @ 15.025: 1282.5
 REAL SPECIFIC GRAVITY: 0.7236

CYLINDER #: 031
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 01/20/2025
 ANALYSIS TIME: 11:05:31 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 01/23/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-5 #94; BHD	BRADENHEAD	01/23/2025
Stn. No.:	3003923146		35825-15615
Mtr. No.:			

Smpl Date:	01/16/2025	06/03/2024	04/22/2024	04/22/2024
Test Date:	01/20/2025	06/07/2024	04/22/2024	04/22/2024
Run No:	HS20250011	HS20240129	HS20240032	HS20240033
Nitrogen:	1.2491	1.3327	1.3662	1.4938
CO2:	0.0090	0.0544	0.0703	0.0277
Methane:	77.1628	74.5753	74.3398	74.7190
Ethane:	13.6987	14.9647	15.2002	14.9803
Propane:	5.0514	5.7757	5.8029	5.6554
I-Butane:	1.0117	1.1699	1.1564	1.1175
N-Butane:	1.0616	1.2270	1.2145	1.1690
I-Pentane:	0.3219	0.3939	0.3711	0.3595
N-Pentane:	0.1685	0.2054	0.1959	0.1896
Hexane+:	0.2653	0.3010	0.2827	0.2882
BTU:	1257.3	1289.2	1288.5	1281.4
GPM:	19.3010	19.5840	19.5930	19.5310
SPG:	0.7236	0.7456	0.7458	0.7419



Well Name: SAN JUAN 30-5 #94; CSG

API #: 3003923146

Source: CASING

Sample Type: GAS

Analysis No: HS20250012

Cust No: 35825-15915

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 30-5 #94; CSG
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3003923146

Source: CASING
 Well Flowing:
 Pressure: 130 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 01/16/2025
 Sample Time: 12.30 PM
 Sampled By: TIM FERGUSON
 Sampled by (CO): HILCORP

AREA 12 / RUN 1203

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.3928	2.3505	0.2640	0.00	0.0231
CO2	0.0172	0.0169	0.0030	0.00	0.0003
Methane	91.1777	89.5648	15.4910	920.89	0.5050
Ethane	4.3859	4.3083	1.1750	77.62	0.0455
Propane	1.1961	1.1749	0.3300	30.10	0.0182
Iso-Butane	0.2223	0.2184	0.0730	7.23	0.0045
N-Butane	0.2382	0.2340	0.0750	7.77	0.0048
I-Pentane	0.1023	0.1005	0.0370	4.09	0.0025
N-Pentane	0.0554	0.0544	0.0200	2.22	0.0014
Hexane Plus	0.2121	0.2083	0.0950	11.18	0.0070
Total	100.0000	98.2310	17.5630	1061.10	0.6124

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1063.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1066.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1047.5
 DRY BTU @ 15.025: 1087.5
 REAL SPECIFIC GRAVITY: 0.6136

CYLINDER #: 46
 CYLINDER PRESSURE: 131 PSIG
 ANALYSIS DATE: 01/20/2025
 ANALYSIS TIME: 10:49:21 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 01/23/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-5 #94; CSG	CASING	01/23/2025
Stn. No.:	3003923146		35825-15915
Mtr. No.:			

Smpl Date:	01/16/2025	06/03/2024
Test Date:	01/20/2025	06/07/2024
Run No:	HS20250012	HS20240130
Nitrogen:	2.3928	1.2464
CO2:	0.0172	0.4096
Methane:	91.1777	95.7121
Ethane:	4.3859	2.0525
Propane:	1.1961	0.3221
I-Butane:	0.2223	0.0740
N-Butane:	0.2382	0.0433
I-Pentane:	0.1023	0.0245
N-Pentane:	0.0554	0.0104
Hexane+:	0.2121	0.1051
BTU:	1066.1	1026.4
GPM:	17.5630	17.2000
SPG:	0.6136	0.5823



Well Name: SAN JUAN 30-5 #94; TBG

API #: 3003923146

Source: TUBING

Sample Type: GAS

Analysis No: HS20250013

Cust No: 35825-15925

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 30-5 #94; TBG
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3003923146

Source: TUBING
 Well Flowing:
 Pressure: 130 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 01/16/2025
 Sample Time: 12.30 PM
 Sampled By: TIM FERGUSON
 Sampled by (CO): HILCORP

AREA 12 / RUN 1203

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1263	0.1245	0.0140	0.00	0.0012
CO2	1.8071	1.7811	0.3090	0.00	0.0275
Methane	94.1936	92.8390	16.0010	951.36	0.5217
Ethane	2.8872	2.8457	0.7740	51.09	0.0300
Propane	0.5854	0.5770	0.1620	14.73	0.0089
Iso-Butane	0.1256	0.1238	0.0410	4.08	0.0025
N-Butane	0.0904	0.0891	0.0290	2.95	0.0018
I-Pentane	0.0438	0.0432	0.0160	1.75	0.0011
N-Pentane	0.0204	0.0201	0.0070	0.82	0.0005
Hexane Plus	0.1202	0.1185	0.0540	6.34	0.0040
Total	100.0000	98.5620	17.4070	1033.12	0.5992

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
 BTU/CU.FT IDEAL: 1035.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1037.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1019.8
 DRY BTU @ 15.025: 1058.7
 REAL SPECIFIC GRAVITY: 0.6004

CYLINDER #: 226
 CYLINDER PRESSURE: 58 PSIG
 ANALYSIS DATE: 01/20/2025
 ANALYSIS TIME: 10:57:44 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 01/23/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-5 #94; TBG	TUBING	01/23/2025
Stn. No.:	3003923146		35825-15925
Mtr. No.:			

Smpl Date:	01/16/2025	06/03/2024
Test Date:	01/20/2025	06/07/2024
Run No:	HS20250013	HS20240132
Nitrogen:	0.1263	1.7719
CO2:	1.8071	1.8062
Methane:	94.1936	92.7455
Ethane:	2.8872	2.7297
Propane:	0.5854	0.5594
I-Butane:	0.1256	0.1343
N-Butane:	0.0904	0.0985
I-Pentane:	0.0438	0.0443
N-Pentane:	0.0204	0.0215
Hexane+:	0.1202	0.0887
BTU:	1037.9	1018.6
GPM:	17.4070	17.2820
SPG:	0.6004	0.6055



Well Name: SAN JUAN 30-5 #94; INT
 API #: 3003923146
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20250014
 Cust No: 35825-15920

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	SAN JUAN 30-5 #94; INT	Well Flowing:	
County/State:	NM	Pressure:	0 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3003923146	Sample Method:	Purge & Fill
		Sample Date:	01/16/2025
		Sample Time:	12.30 PM
		Sampled By:	TIM FERGUSON
		Sampled by (CO):	HILCORP

Heat Trace: AREA 12 / RUN 1203

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	85.0393	20.2852	9.3590	0.00	0.8225
CO2	0.6787	0.1619	0.1160	0.00	0.0103
Methane	11.2255	2.6777	1.9040	113.38	0.0622
Ethane	1.9804	0.4724	0.5300	35.05	0.0206
Propane	0.6825	0.1628	0.1880	17.17	0.0104
Iso-Butane	0.1207	0.0288	0.0400	3.93	0.0024
N-Butane	0.1207	0.0288	0.0380	3.94	0.0024
I-Pentane	0.0373	0.0089	0.0140	1.49	0.0009
N-Pentane	0.0084	0.0020	0.0030	0.34	0.0002
Hexane Plus	0.1065	0.0254	0.0480	5.61	0.0035
Total	100.0000	23.8539	12.2400	180.90	0.9355

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0006
 BTU/CU.FT IDEAL: 181.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 181.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 178.2
 DRY BTU @ 15.025: 185.0
 REAL SPECIFIC GRAVITY: 0.9356

CYLINDER #: 207
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 01/20/2025
 ANALYSIS TIME: 11:15:26 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 01/23/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-5 #94; INT	INTERMEDIATE CASING	01/23/2025
Stn. No.:	3003923146		35825-15920
Mtr. No.:			

Smpl Date:	01/16/2025	06/03/2024
Test Date:	01/20/2025	06/07/2024
Run No:	HS20250014	HS20240131
Nitrogen:	85.0393	28.2482
CO2:	0.6787	0.1274
Methane:	11.2255	55.5612
Ethane:	1.9804	9.8600
Propane:	0.6825	3.7352
I-Butane:	0.1207	0.7361
N-Butane:	0.1207	0.7438
I-Pentane:	0.0373	0.2491
N-Pentane:	0.0084	0.1211
Hexane+:	0.1065	0.6179
BTU:	181.4	929.6
GPM:	12.2400	17.1370
SPG:	0.9356	0.8031

Sante Fe Main Office
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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 430051

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 430051
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	approved for record	2/19/2025