



OCD Received
8/26/2020

Well Name: SAN JUAN 30-6 44A RTU;
API #: API # 3003907837
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200197
Cust No: 35825-12885

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 30-6 44A RTU; BHD
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: SF080714A
Formation: MV
Cust. Stn. No.: API # 3003907837
81926

Source: BRADENHEAD
Well Flowing: Y
Pressure: 69 PSIG
Flow Temp: 70 DEG. F
Ambient Temp: 74 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 08/11/2020
Sample Time: 9.23 AM
Sampled By: PHILL TRAYER
Sampled by (CO): HILCORP

Heat Trace: AREA 12/ RUN 1201
N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5200	0.5133	0.0570	0.00	0.0050
CO2	0.8809	0.8695	0.1510	0.00	0.0134
Methane	97.8857	96.6203	16.6240	988.65	0.5422
Ethane	0.6064	0.5986	0.1620	10.73	0.0063
Propane	0.0542	0.0535	0.0150	1.36	0.0008
Iso-Butane	0.0281	0.0277	0.0090	0.91	0.0006
N-Butane	0.0081	0.0080	0.0030	0.26	0.0002
I-Pentane	0.0082	0.0081	0.0030	0.33	0.0002
N-Pentane	0.0022	0.0022	0.0010	0.09	0.0001
Hexane Plus	0.0062	0.0061	0.0030	0.33	0.0002
Total	100.0000	98.7073	17.0280	1002.66	0.5689

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
BTU/CU.FT IDEAL: 1005.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1007.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 989.5
DRY BTU @ 15.025: 1027.2
REAL SPECIFIC GRAVITY: 0.5698

CYLINDER #: 5002
CYLINDER PRESSURE: 65 PSIG
ANALYSIS DATE: 08/21/2020
ANALYSIS TIME: 10:40:51 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 08/24/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 44A RTU; BHD	BRADENHEAD	08/24/2020
Stn. No.:	API # 3003907837	MV	35825-12885
Mtr. No.:	81926		

Smpl Date:	08/11/2020
Test Date:	08/21/2020
Run No:	HS200197
Nitrogen:	0.5200
CO2:	0.8809
Methane:	97.8857
Ethane:	0.6064
Propane:	0.0542
I-Butane:	0.0281
N-Butane:	0.0081
I-Pentane:	0.0082
N-Pentane:	0.0022
Hexane+:	0.0062
BTU:	1007.0
GPM:	17.0280
SPG:	0.5698



Well Name: SAN JUAN 30-6 44A RTU;
 API #: API # 3003907837
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200198
 Cust No: 35825-12890

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 30-6 44A RTU; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: SF080714A
 Formation: MV
 Cust. Stn. No.: API # 3003907837
 81926
 AREA 12 / RUN 1201
 Heat Trace: N
 Remarks:

Source: CASING
 Well Flowing: Y
 Pressure: 69 PSIG
 Flow Temp: 70 DEG. F
 Ambient Temp: 74 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/11/2020
 Sample Time: 9.37 AM
 Sampled By: PHILL TRAYER
 Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6705	0.6642	0.0740	0.00	0.0065
CO2	0.0775	0.0768	0.0130	0.00	0.0012
Methane	95.7492	94.8558	16.2640	967.07	0.5304
Ethane	2.9450	2.9175	0.7890	52.12	0.0306
Propane	0.3154	0.3125	0.0870	7.94	0.0048
Iso-Butane	0.1016	0.1007	0.0330	3.30	0.0020
N-Butane	0.0498	0.0493	0.0160	1.62	0.0010
I-Pentane	0.0317	0.0314	0.0120	1.27	0.0008
N-Pentane	0.0116	0.0115	0.0040	0.47	0.0003
Hexane Plus	0.0477	0.0473	0.0210	2.51	0.0016
Total	100.0000	99.0670	17.3130	1036.30	0.5791

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1038.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1041.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1022.9
 DRY BTU @ 15.025: 1061.8
 REAL SPECIFIC GRAVITY: 0.5801

CYLINDER #: 7046
 CYLINDER PRESSURE: 234 PSIG
 ANALYSIS DATE: 08/21/2020
 ANALYSIS TIME: 10:27:18 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 08/24/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 44A RTU; CSG	CASING	08/24/2020
Stn. No.:	API # 3003907837	MV	35825-12890
Mtr. No.:	81926		

Smpl Date:	08/11/2020
Test Date:	08/21/2020
Run No:	HS200198
Nitrogen:	0.6705
CO2:	0.0775
Methane:	95.7492
Ethane:	2.9450
Propane:	0.3154
I-Butane:	0.1016
N-Butane:	0.0498
I-Pentane:	0.0317
N-Pentane:	0.0116
Hexane+:	0.0477
BTU:	1041.0
GPM:	17.3130
SPG:	0.5801



Well Name: SAN JUAN 30-6 44A RTU;
 API #: API # 3003907837
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS200199
 Cust No: 35825-12895

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 30-6 44A RTU; TBG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: SF080714A
 Formation: MV
 Cust. Stn. No.: API # 3003907837
 81926

Source: TUBING
 Well Flowing: Y
 Pressure: 69 PSIG
 Flow Temp: 70 DEG. F
 Ambient Temp: 74 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/11/2020
 Sample Time: 9.45 AM
 Sampled By: PHILL TRAYER
 Sampled by (CO): HILCORP

AREA 12 / RUN 1201

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3963	0.3930	0.0440	0.00	0.0038
CO2	2.3591	2.3395	0.4030	0.00	0.0358
Methane	96.8050	96.0012	16.4420	977.73	0.5362
Ethane	0.3801	0.3769	0.1020	6.73	0.0039
Propane	0.0248	0.0246	0.0070	0.62	0.0004
Iso-Butane	0.0176	0.0175	0.0060	0.57	0.0004
N-Butane	0.0051	0.0051	0.0020	0.17	0.0001
I-Pentane	0.0055	0.0055	0.0020	0.22	0.0001
N-Pentane	0.0019	0.0019	0.0010	0.08	0.0000
Hexane Plus	0.0046	0.0046	0.0020	0.24	0.0002
Total	100.0000	99.1698	17.0110	986.36	0.5810

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 988.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 990.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 973.5
 DRY BTU @ 15.025: 1010.5
 REAL SPECIFIC GRAVITY: 0.582

CYLINDER #: 4186
 CYLINDER PRESSURE: 240 PSIG
 ANALYSIS DATE: 08/21/2020
 ANALYSIS TIME: 10:51:57 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 08/24/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 44A RTU; TBG	TUBING	08/24/2020
Stn. No.:	API # 3003907837	MV	35825-12895
Mtr. No.:	81926		

Smpl Date:	08/11/2020
Test Date:	08/21/2020
Run No:	HS200199
Nitrogen:	0.3963
CO2:	2.3591
Methane:	96.8050
Ethane:	0.3801
Propane:	0.0248
I-Butane:	0.0176
N-Butane:	0.0051
I-Pentane:	0.0055
N-Pentane:	0.0019
Hexane+:	0.0046
BTU:	990.7
GPM:	17.0110
SPG:	0.5820