



OCD Received
8/26/2020

Well Name: SAN JUAN 30-6 114M
API #: API # 3003926635
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200200
Cust No: 35825-12900

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 30-6 114M RTU; BHD
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: NMNM006283
Formation: MV/DK
Cust. Stn. No.: API # 3003926635
82312

Source: BRADENHEAD
Well Flowing: Y
Pressure: 47 PSIG
Flow Temp: 90 DEG. F
Ambient Temp: 80 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 08/11/2020
Sample Time: 10.55 AM
Sampled By: PHILL TRAYER
Sampled by (CO): HILCORP

Heat Trace: AREA 12 / RUN 1201

Remarks: N

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5714	0.5640	0.0630	0.00	0.0055
CO2	0.0034	0.0034	0.0010	0.00	0.0001
Methane	96.1263	94.8758	16.3260	970.88	0.5324
Ethane	2.9269	2.8888	0.7840	51.80	0.0304
Propane	0.2218	0.2189	0.0610	5.58	0.0034
Iso-Butane	0.0657	0.0648	0.0220	2.14	0.0013
N-Butane	0.0339	0.0335	0.0110	1.11	0.0007
I-Pentane	0.0224	0.0221	0.0080	0.90	0.0006
N-Pentane	0.0073	0.0072	0.0030	0.29	0.0002
Hexane Plus	0.0209	0.0206	0.0090	1.10	0.0007
Total	100.0000	98.6991	17.2880	1033.79	0.5752

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 1036.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1038.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1020.3
DRY BTU @ 15.025: 1059.2
REAL SPECIFIC GRAVITY: 0.5762

CYLINDER #: 4027
CYLINDER PRESSURE: 49 PSIG
ANALYSIS DATE: 08/19/2020
ANALYSIS TIME: 04:29:27 PM
ANALYSIS RUN BY: SHYANN ELLEDGE

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 114M RTU; BHD	BRADENHEAD	08/24/2020
Stn. No.:	API # 3003926635	MV/DK	35825-12900
Mtr. No.:	82312		

Smpl Date:	08/11/2020
Test Date:	08/19/2020
Run No:	HS200200
Nitrogen:	0.5714
CO2:	0.0034
Methane:	96.1263
Ethane:	2.9269
Propane:	0.2218
I-Butane:	0.0657
N-Butane:	0.0339
I-Pentane:	0.0224
N-Pentane:	0.0073
Hexane+:	0.0209
BTU:	1038.4
GPM:	17.2880
SPG:	0.5762



Well Name: SAN JUAN 30-6 114M
 API #: API # 3003926635
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS200202
 Cust No: 35825-12910

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 30-6 114M RTU; TBG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMNM006283
 Formation: MV/DK
 Cust. Stn. No.: API # 3003926635
 82312
 AREA 12 / RUN 1201
 Heat Trace: N
 Remarks:

Source: TUBING
 Well Flowing: Y
 Pressure: 47 PSIG
 Flow Temp: 90 DEG. F
 Ambient Temp: 80 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/11/2020
 Sample Time: 10.45 AM
 Sampled By: PHILL TRAYER
 Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0914	0.0905	0.0100	0.00	0.0009
CO2	2.5535	2.5279	0.4370	0.00	0.0388
Methane	96.7064	95.7366	16.4250	976.73	0.5357
Ethane	0.5228	0.5176	0.1400	9.25	0.0054
Propane	0.0837	0.0829	0.0230	2.11	0.0013
Iso-Butane	0.0169	0.0167	0.0060	0.55	0.0003
N-Butane	0.0094	0.0093	0.0030	0.31	0.0002
I-Pentane	0.0040	0.0040	0.0010	0.16	0.0001
N-Pentane	0.0018	0.0018	0.0010	0.07	0.0000
Hexane Plus	0.0101	0.0100	0.0050	0.53	0.0003
Total	100.0000	98.9973	17.0510	989.71	0.5830

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 992.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 994.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 976.8
 DRY BTU @ 15.025: 1014.0
 REAL SPECIFIC GRAVITY: 0.584

CYLINDER #: 6041
 CYLINDER PRESSURE: 73 PSIG
 ANALYSIS DATE: 08/21/2020
 ANALYSIS TIME: 10:18:38 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 114M RTU; TBG	TUBING	08/24/2020
Stn. No.:	API # 3003926635	MV/DK	35825-12910
Mtr. No.:	82312		

Smpl Date: 08/11/2020
Test Date: 08/21/2020
Run No: HS200202

Nitrogen: 0.0914
CO2: 2.5535
Methane: 96.7064
Ethane: 0.5228
Propane: 0.0837
I-Butane: 0.0169
N-Butane: 0.0094
I-Pentane: 0.0040
N-Pentane: 0.0018
Hexane+: 0.0101

BTU: 994.1
GPM: 17.0510
SPG: 0.5840



Well Name: SAN JUAN 30-6 114M
 API #: API # 3003926635
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200201
 Cust No: 35825-12905

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SAN JUAN 30-6 114M RTU; CSG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	47 PSIG
Location:		Flow Temp:	90 DEG. F
Lease/PA/CA:	NMNM006283	Ambient Temp:	80 DEG. F
Formation:	MV/DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	API # 3003926635	Sample Method:	Purge & Fill
	82312	Sample Date:	08/11/2020
	AREA 12 / RUN 1201	Sample Time:	11.00 AM
Heat Trace:	N	Sampled By:	PHIL TRAYER
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0925	0.0917	0.0100	0.00	0.0009
CO2	2.2526	2.2326	0.3850	0.00	0.0342
Methane	96.6978	95.8390	16.4230	976.65	0.5356
Ethane	0.7735	0.7666	0.2070	13.69	0.0080
Propane	0.1071	0.1061	0.0300	2.69	0.0016
Iso-Butane	0.0208	0.0206	0.0070	0.68	0.0004
N-Butane	0.0120	0.0119	0.0040	0.39	0.0002
I-Pentane	0.0050	0.0050	0.0020	0.20	0.0001
N-Pentane	0.0026	0.0026	0.0010	0.10	0.0001
Hexane Plus	0.0361	0.0358	0.0160	1.90	0.0012
Total	100.0000	99.1119	17.0850	996.31	0.5824

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0021	CYLINDER #:	6023
BTU/CU.FT IDEAL:	998.6	CYLINDER PRESSURE:	77 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1000.7	ANALYSIS DATE:	08/21/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	983.3	ANALYSIS TIME:	09:47:54 AM
DRY BTU @ 15.025:	1020.7	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.5834		

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 114M RTU; CSG	CASING	08/24/2020
Stn. No.:	API # 3003926635	MV/DK	35825-12905
Mtr. No.:	82312		

Smpl Date:	08/11/2020
Test Date:	08/21/2020
Run No:	HS200201
Nitrogen:	0.0925
CO2:	2.2526
Methane:	96.6978
Ethane:	0.7735
Propane:	0.1071
I-Butane:	0.0208
N-Butane:	0.0120
I-Pentane:	0.0050
N-Pentane:	0.0026
Hexane+:	0.0361
BTU:	1000.7
GPM:	17.0850
SPG:	0.5834