



OCD Received
5/19/2020

Well Name: SAN JUAN 29-6 UNIT 6A;
API #: API # 3003921251
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200012
Cust No: 35825-12100

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 29-6 UNIT 6A; BHD
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 3003921251

Source: BRADENHEAD
Well Flowing:
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: 75 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/12/2020
Sample Time: 9.50 AM
Sampled By: CORY S.
Sampled by (CO): HILCORP

AREA 13 / RUN 1306

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.9675	1.9148	0.2170	0.00	0.0190
CO2	0.6341	0.6171	0.1080	0.00	0.0096
Methane	95.6713	93.1109	16.2490	966.28	0.5299
Ethane	1.1907	1.1588	0.3190	21.07	0.0124
Propane	0.3466	0.3373	0.0960	8.72	0.0053
Iso-Butane	0.0828	0.0806	0.0270	2.69	0.0017
N-Butane	0.0586	0.0570	0.0190	1.91	0.0012
I-Pentane	0.0249	0.0242	0.0090	1.00	0.0006
N-Pentane	0.0092	0.0090	0.0030	0.37	0.0002
Hexane Plus	0.0143	0.0139	0.0060	0.75	0.0005
Total	100.0000	97.3236	17.0530	1002.80	0.5804

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 1005.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1007.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 989.7
DRY BTU @ 15.025: 1027.4
REAL SPECIFIC GRAVITY: 0.5814

CYLINDER #: 7040
CYLINDER PRESSURE: 29 PSIG
ANALYSIS DATE: 05/14/2020
ANALYSIS TIME: 04:22:43 PM
ANALYSIS RUN BY: PATRICIA KING

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: 05/19/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 6A; BHD	BRADENHEAD	05/19/2020
Stn. No.:	API # 3003921251	MV	35825-12100
Mtr. No.:			

Smpl Date:	05/12/2020
Test Date:	05/14/2020
Run No:	HS200012
Nitrogen:	1.9675
CO2:	0.6341
Methane:	95.6713
Ethane:	1.1907
Propane:	0.3466
I-Butane:	0.0828
N-Butane:	0.0586
I-Pentane:	0.0249
N-Pentane:	0.0092
Hexane+:	0.0143
BTU:	1007.2
GPM:	17.0530
SPG:	0.5814



Well Name: SAN JUAN 29-6 UNIT 6A;
 API #: API # 3003921251
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200013
 Cust No: 35825-12105

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 29-6 UNIT 6A; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: MV
 Cust. Stn. No.: API # 3003921251

Source: CASING
 Well Flowing:
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/12/2020
 Sample Time: 10.05 AM
 Sampled By: CORY S.
 Sampled by (CO): HILCORP

AREA 13 / RUN 1306

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1400	0.1386	0.0150	0.00	0.0014
CO2	2.3657	2.3427	0.4050	0.00	0.0359
Methane	87.6931	86.8400	14.9040	885.70	0.4857
Ethane	6.0861	6.0269	1.6320	107.71	0.0632
Propane	2.1126	2.0920	0.5840	53.16	0.0322
Iso-Butane	0.3162	0.3131	0.1040	10.28	0.0063
N-Butane	0.5001	0.4952	0.1580	16.31	0.0100
I-Pentane	0.1652	0.1636	0.0610	6.61	0.0041
N-Pentane	0.1325	0.1312	0.0480	5.31	0.0033
Hexane Plus	0.4885	0.4837	0.2180	25.75	0.0162
Total	100.0000	99.0270	18.1290	1110.83	0.6583

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 1113.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1116.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1097.1
 DRY BTU @ 15.025: 1138.9
 REAL SPECIFIC GRAVITY: 0.6599

CYLINDER #: 4118
 CYLINDER PRESSURE: 82 PSIG
 ANALYSIS DATE: 05/14/2020
 ANALYSIS TIME: 04:36:17 PM
 ANALYSIS RUN BY: PATRICIA KING

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: 05/19/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 6A; CSG	CASING	05/19/2020
Stn. No.:	API # 3003921251	MV	35825-12105
Mtr. No.:			

Smpl Date:	05/12/2020
Test Date:	05/14/2020
Run No:	HS200013
Nitrogen:	0.1400
CO2:	2.3657
Methane:	87.6931
Ethane:	6.0861
Propane:	2.1126
I-Butane:	0.3162
N-Butane:	0.5001
I-Pentane:	0.1652
N-Pentane:	0.1325
Hexane+:	0.4885
BTU:	1116.5
GPM:	18.1290
SPG:	0.6599



Well Name: SAN JUAN 29-6 UNIT 6A;
 API #: API # 3003921251
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS200014
 Cust No: 35825-12110

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 29-6 UNIT 6A; TBG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: MV
 Cust. Stn. No.: API # 3003921251

Source: TUBING
 Well Flowing:
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/12/2020
 Sample Time: 10.00 AM
 Sampled By: CORY S.
 Sampled by (CO): HILCORP

AREA 13 / RUN 1306

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1301	0.1271	0.0140	0.00	0.0013
CO2	1.3334	1.3025	0.2280	0.00	0.0203
Methane	83.7809	81.8424	14.2470	846.19	0.4641
Ethane	8.1213	7.9334	2.1790	143.72	0.0843
Propane	3.6568	3.5722	1.0110	92.01	0.0557
Iso-Butane	0.7681	0.7503	0.2520	24.98	0.0154
N-Butane	0.9421	0.9203	0.2980	30.73	0.0189
I-Pentane	0.3594	0.3511	0.1320	14.38	0.0090
N-Pentane	0.2513	0.2455	0.0910	10.07	0.0063
Hexane Plus	0.6566	0.6414	0.2940	34.61	0.0217
Total	100.0000	97.6862	18.7460	1196.69	0.6968

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1199.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1203.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1182.5
 DRY BTU @ 15.025: 1227.5
 REAL SPECIFIC GRAVITY: 0.6989

CYLINDER #: 6100
 CYLINDER PRESSURE: 82 PSIG
 ANALYSIS DATE: 05/14/2020
 ANALYSIS TIME: 04:29:11 PM
 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: 05/19/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 6A; TBG	TUBING	05/19/2020
Stn. No.:	API # 3003921251	MV	35825-12110
Mtr. No.:			

Smpl Date:	05/12/2020
Test Date:	05/14/2020
Run No:	HS200014
Nitrogen:	0.1301
CO2:	1.3334
Methane:	83.7809
Ethane:	8.1213
Propane:	3.6568
I-Butane:	0.7681
N-Butane:	0.9421
I-Pentane:	0.3594
N-Pentane:	0.2513
Hexane+:	0.6566
BTU:	1203.4
GPM:	18.7460
SPG:	0.6989