



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HS180179
Cust No: 35825-10715

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: STEDJE GAS COM #1; TBG
County/State: SAN JUAN NM
Location:
Field: AREA 3 /RUN 317
Formation: DK
Cust. Stn. No.:

Source: TUBING
Well Flowing: Y
Pressure: 90 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/29/2018
Sample Time: 1.33 PM
Sampled By: JOHN S.
Sampled by (CO): HILCORP

Heat Trace:
Remarks:

API 3004509214

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6861	0.6872	0.0760	0.00	0.0066
CO2	1.7066	1.7092	0.2920	0.00	0.0259
Methane	79.9653	80.0881	13.6030	807.65	0.4429
Ethane	9.2584	9.2726	2.4850	163.85	0.0961
Propane	4.4801	4.4870	1.2390	112.72	0.0682
Iso-Butane	0.7594	0.7606	0.2490	24.69	0.0152
N-Butane	1.3474	1.3495	0.4260	43.96	0.0270
I-Pentane	0.4412	0.4419	0.1620	17.65	0.0110
N-Pentane	0.4028	0.4034	0.1470	16.15	0.0100
Hexane Plus	0.9527	0.9542	0.4260	50.22	0.0315
Total	100.0000	100.1537	19.1050	1236.89	0.7347

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT IDEAL: 1239.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1244.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1222.6
DRY BTU @ 15.025: 1269.1
REAL SPECIFIC GRAVITY: 0.737

CYLINDER #: 4060
CYLINDER PRESSURE: 90 PSIG
ANALYSIS DATE: 09/05/2018
ANALYSIS TIME: 02:41:50 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: 09/14/2018

GC Method: C6+ Gas

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HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: STEDJE GAS COM #1; TBG

Stn. No.:

TUBING

09/14/2018

DK

35825-10715

Mtr. No.:

API 3004509214

Smpl Date: 08/29/2018

Test Date: 09/05/2018

Run No: HS180179

Nitrogen: 0.6861

CO2: 1.7066

Methane: 79.9653

Ethane: 9.2584

Propane: 4.4801

I-Butane: 0.7594

N-Butane: 1.3474

I-Pentane: 0.4412

N-Pentane: 0.4028

Hexane+: 0.9527

BTU: 1244.2

GPM: 19.1050

SPG: 0.7370



2030 Afton Place
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Analysis No: HS180178
Cust No: 35825-10710

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: STEDJE GAS COM #1; CSG
County/State: SAN JUAN NM
Location:
Field: AREA 3 / RUN 317
Formation: DK
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/29/2018
Sample Time: 1.30 PM
Sampled By: JOHN S.
Sampled by (CO): HILCORP

Heat Trace:

Remarks:

API 3004509214

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6645	0.6563	0.0730	0.00	0.0064
CO2	0.9426	0.9309	0.1610	0.00	0.0143
Methane	78.4864	77.5160	13.3530	792.71	0.4347
Ethane	10.4612	10.3318	2.8080	185.13	0.1086
Propane	5.2069	5.1425	1.4400	131.01	0.0793
Iso-Butane	0.8180	0.8079	0.2690	26.60	0.0164
N-Butane	1.5688	1.5494	0.4960	51.18	0.0315
I-Pentane	0.5101	0.5038	0.1870	20.41	0.0127
N-Pentane	0.4718	0.4660	0.1720	18.91	0.0118
Hexane Plus	0.8697	0.8589	0.3890	45.84	0.0288
Total	100.0000	98.7635	19.3480	1271.80	0.7445

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
BTU/CU.FT IDEAL: 1274.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1279.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1257.3
DRY BTU @ 15.025: 1305.2
REAL SPECIFIC GRAVITY: 0.7471

CYLINDER #: 4173
CYLINDER PRESSURE: 131 PSIG
ANALYSIS DATE: 09/05/2018
ANALYSIS TIME: 02:45:59 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: 09/14/2018

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: STEDJE GAS COM #1; CSG
Stn. No.:
Mtr. No.:

CASING
DK

09/14/2018
35825-10710

API 3004509214

Smpl Date: 08/29/2018
Test Date: 09/05/2018
Run No: HS180178

Nitrogen: 0.6645
CO2: 0.9426
Methane: 78.4864
Ethane: 10.4612
Propane: 5.2069
I-Butane: 0.8180
N-Butane: 1.5688
I-Pentane: 0.5101
N-Pentane: 0.4718
Hexane+: 0.8697

BTU: 1279.6
GPM: 19.3480
SPG: 0.7471



2030 Afton Place
Farmington, NM 87401
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Analysis No: HS180177
Cust No: 35825-10705

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: STEDJE GAS COM #1; BHD
County/State: SAN JUAN NM
Location:
Field: AREA 3 / RUN 317
Formation: DK
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/29/2018
Sample Time: 1.29 PM
Sampled By: JOHN S.
Sampled by (CO): HILCORP

Heat Trace:
Remarks:

API 3004509214

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3876	0.3709	0.0430	0.00	0.0037
CO2	0.0460	0.0440	0.0080	0.00	0.0007
Methane	88.2147	84.4050	14.9930	890.97	0.4886
Ethane	6.4821	6.2022	1.7380	114.71	0.0673
Propane	2.9344	2.8077	0.8100	73.83	0.0447
Iso-Butane	0.5699	0.5453	0.1870	18.53	0.0114
N-Butane	0.6975	0.6674	0.2200	22.75	0.0140
I-Pentane	0.2356	0.2254	0.0860	9.43	0.0059
N-Pentane	0.1625	0.1555	0.0590	6.51	0.0040
Hexane Plus	0.2697	0.2581	0.1210	14.22	0.0089
Total	100.0000	95.6815	18.2650	1150.96	0.6493

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT IDEAL: 1153.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1156.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1136.8
DRY BTU @ 15.025: 1180.1
REAL SPECIFIC GRAVITY: 0.6509

CYLINDER #: 4156
CYLINDER PRESSURE: 15 PSIG
ANALYSIS DATE: 09/05/2018
ANALYSIS TIME: 02:57:51 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: 09/14/2018

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: STEDJE GAS COM #1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
DK

09/14/2018
35825-10705

API 3004509214

Smpl Date: 08/29/2018
Test Date: 09/05/2018
Run No: HS180177

Nitrogen: 0.3876
CO2: 0.0460
Methane: 88.2147
Ethane: 6.4821
Propane: 2.9344
I-Butane: 0.5699
N-Butane: 0.6975
I-Pentane: 0.2356
N-Pentane: 0.1625
Hexane+: 0.2697

BTU: 1156.9
GPM: 18.2650
SPG: 0.6509