



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

Analysis No: HS190098
Cust No: 35825-11340

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 28-5 UNIT 79; INT
County/State: SAN JUAN NM
Location: 7-028N-005W
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: 87071

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 67 PSIG
Flow Temp: 71 DEG. F
Ambient Temp: 46 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2019
Sample Time: 3.20 PM
Sampled By: MYRON TOLTH
Sampled by (CO):

API # 3003920237

AREA 13 / RUN 1304

Heat Trace:

Remarks:

NMOC

JUN 27 2019

DISTRICT III

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1333	0.1328	0.0150	0.00	0.0013
CO2	1.9258	1.9193	0.3290	0.00	0.0293
Methane	95.6333	95.3092	16.2440	965.90	0.5297
Ethane	1.6943	1.6886	0.4540	29.98	0.0176
Propane	0.2814	0.2804	0.0780	7.08	0.0043
Iso-Butane	0.1043	0.1039	0.0340	3.39	0.0021
N-Butane	0.0588	0.0586	0.0190	1.92	0.0012
I-Pentane	0.0462	0.0460	0.0170	1.85	0.0012
N-Pentane	0.0202	0.0201	0.0070	0.81	0.0005
Hexane Plus	0.1024	0.1021	0.0460	5.40	0.0034
Total	100.0000	99.6610	17.2430	1016.33	0.5905

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT IDEAL: 1018.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1020.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1003.1
DRY BTU @ 15.025: 1041.3
REAL SPECIFIC GRAVITY: 0.5915

CYLINDER #: 6108
CYLINDER PRESSURE: 74 PSIG
ANALYSIS DATE: 05/31/2019
ANALYSIS TIME: 12:41:05 AM
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: 06/06/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-5 UNIT 79; INT
Stn. No.: 87071
Mtr. No.: API # 3003920237

INTERMEDIATE
DK

06/06/2019
35825-11340

Smpl Date: 05/23/2019
Test Date: 05/31/2019
Run No: HS190098

Nitrogen: 0.1333
CO2: 1.9258
Methane: 95.6333
Ethane: 1.6943
Propane: 0.2814
I-Butane: 0.1043
N-Butane: 0.0588
I-Pentane: 0.0462
N-Pentane: 0.0202
Hexane+: 0.1024

BTU: 1020.9
GPM: 17.2430
SPG: 0.5915



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

Analysis No: HS190097
Cust No: 35825-11335

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 28-5 UNIT 79; CSG
County/State: SAN JUAN NM
Location: 7-028N-005W
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: 87071
API # 3003920237

Source: CASING
Well Flowing: Y
Pressure: 61 PSIG
Flow Temp: 71 DEG. F
Ambient Temp: 46 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2019
Sample Time: 3.13 PM
Sampled By: MYRON TOLTH
Sampled by (CO):

AREA 13 / RUN 1304

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1313	0.1309	0.0140	0.00	0.0013
CO2	1.9250	1.9188	0.3290	0.00	0.0293
Methane	95.5979	95.2877	16.2380	965.54	0.5295
Ethane	1.6958	1.6903	0.4540	30.01	0.0176
Propane	0.2821	0.2812	0.0780	7.10	0.0043
Iso-Butane	0.1050	0.1047	0.0340	3.41	0.0021
N-Butane	0.0591	0.0589	0.0190	1.93	0.0012
I-Pentane	0.0470	0.0468	0.0170	1.88	0.0012
N-Pentane	0.0208	0.0207	0.0080	0.83	0.0005
Hexane Plus	0.1360	0.1356	0.0610	7.17	0.0045
Total	100.0000	99.6756	17.2520	1017.87	0.5914

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT IDEAL: 1020.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1022.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1004.7
DRY BTU @ 15.025: 1043.0
REAL SPECIFIC GRAVITY: 0.5925

CYLINDER #: 4021
CYLINDER PRESSURE: 60 PSIG
ANALYSIS DATE: 05/31/2019
ANALYSIS TIME: 12:05:48 AM
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: 06/06/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-5 UNIT 79; CSG
Stn. No.: 87071
Mtr. No.: API # 3003920237

CASING
DK

06/06/2019
35825-11335

Smpl Date: 05/23/2019
Test Date: 05/31/2019
Run No: HS190097

Nitrogen: 0.1313
CO2: 1.9250
Methane: 95.5979
Ethane: 1.6958
Propane: 0.2821
I-Butane: 0.1050
N-Butane: 0.0591
I-Pentane: 0.0470
N-Pentane: 0.0208
Hexane+: 0.1360

BTU: 1022.5
GPM: 17.2520
SPG: 0.5925



2030 Afton Place
Farmington, NM 87401
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Analysis No: HS190099
Cust No: 35825-11345

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 28-5 UNIT 79; TBG
County/State: SAN JUAN NM
Location: 7-028N-005W
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: 87071
API # 3003920237

AREA 13 / RUN 1304

Source: TUBING
Well Flowing: Y
Pressure: 68 PSIG
Flow Temp: 71 DEG. F
Ambient Temp: 46 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2019
Sample Time: 3.26 PM
Sampled By: MYRON TOLTH
Sampled by (CO):

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1320	0.1310	0.0150	0.00	0.0013
CO2	1.8207	1.8072	0.3110	0.00	0.0277
Methane	95.7166	95.0081	16.2580	966.74	0.5302
Ethane	1.6637	1.6514	0.4460	29.44	0.0173
Propane	0.2760	0.2740	0.0760	6.94	0.0042
Iso-Butane	0.1051	0.1043	0.0340	3.42	0.0021
N-Butane	0.0597	0.0593	0.0190	1.95	0.0012
I-Pentane	0.0498	0.0494	0.0180	1.99	0.0012
N-Pentane	0.0214	0.0212	0.0080	0.86	0.0005
Hexane Plus	0.1550	0.1539	0.0690	8.17	0.0051
Total	100.0000	99.2598	17.2540	1019.51	0.5908

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT IDEAL: 1021.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1024.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1006.3
DRY BTU @ 15.025: 1044.6
REAL SPECIFIC GRAVITY: 0.5919

CYLINDER #: 7028
CYLINDER PRESSURE: 68 PSIG
ANALYSIS DATE: 05/31/2019
ANALYSIS TIME: 12:23:57 AM
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: 06/06/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-5 UNIT 79; TBG
Stn. No.: 87071
Mtr. No.: API # 3003920237

TUBING
DK

06/06/2019
35825-11345

Smpl Date: 05/23/2019
Test Date: 05/31/2019
Run No: HS190099

Nitrogen: 0.1320
CO2: 1.8207
Methane: 95.7166
Ethane: 1.6637
Propane: 0.2760
I-Butane: 0.1051
N-Butane: 0.0597
I-Pentane: 0.0498
N-Pentane: 0.0214
Hexane+: 0.1550

BTU: 1024.1
GPM: 17.2540
SPG: 0.5919