



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

Analysis No: HS190100
Cust No: 35825-11350

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 28-6 UNIT 138; BHD
County/State: SAN JUAN NM
Location: 23-028N-006W
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: 86565-01

API # 3003920044

AREA 13 / RUN 1304

Heat Trace:
Remarks:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 36 PSIG
Flow Temp: 59 DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2019
Sample Time: 1:10 PM
Sampled By: MYRON TOLTH
Sampled by (CO):

NMOC
JUN 27 2019
DISTRICT III

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1089	0.1088	0.0120	0.00	0.0011
CO2	1.3778	1.3763	0.2360	0.00	0.0209
Methane	94.0373	93.9335	15.9750	949.78	0.5209
Ethane	3.2131	3.2096	0.8610	56.86	0.0334
Propane	0.6249	0.6242	0.1730	15.72	0.0095
Iso-Butane	0.1914	0.1912	0.0630	6.22	0.0038
N-Butane	0.1093	0.1092	0.0350	3.57	0.0022
I-Pentane	0.0804	0.0803	0.0290	3.22	0.0020
N-Pentane	0.0334	0.0334	0.0120	1.34	0.0008
Hexane Plus	0.2235	0.2233	0.1000	11.78	0.0074
Total	100.0000	99.8898	17.4960	1048.49	0.6020

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
BTU/CU.FT IDEAL: 1050.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1053.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1035.0
DRY BTU @ 15.025: 1074.4
REAL SPECIFIC GRAVITY: 0.6031

CYLINDER #: 4148
CYLINDER PRESSURE: 35 PSIG
ANALYSIS DATE: 05/31/2019
ANALYSIS TIME: 11:49:04 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 28-6 UNIT 138; BHD
Stn. No.: 86565-01
Mtr. No.: API # 3003920044

BRADENHEAD
DK

06/06/2019
35825-11350

Smpl Date: 05/23/2019
Test Date: 05/31/2019
Run No: HS190100
Nitrogen: 0.1089
CO2: 1.3778
Methane: 94.0373
Ethane: 3.2131
Propane: 0.6249
I-Butane: 0.1914
N-Butane: 0.1093
I-Pentane: 0.0804
N-Pentane: 0.0334
Hexane+: 0.2235
BTU: 1053.3
GPM: 17.4960
SPG: 0.6031



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

Analysis No: HS190101
Cust No: 35825-11355

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 28-6 UNIT 138; CSG
County/State: SAN JUAN NM
Location: 23-028N-006W
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: 86565-01
API # 3003920044
AREA 13 / RUN 1304
Heat Trace:
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Source: CASING
Well Flowing: Y
Pressure: 76 PSIG
Flow Temp: 59 DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2019
Sample Time: 1.05 PM
Sampled By: MYRON TOLTH
Sampled by (CO):

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	12.4415	3.5090	1.3710	0.00	0.1203
CO2	1.2098	0.3412	0.2070	0.00	0.0184
Methane	82.2745	23.2048	13.9720	830.97	0.4557
Ethane	2.7762	0.7830	0.7440	49.13	0.0288
Propane	0.5396	0.1522	0.1490	13.58	0.0082
Iso-Butane	0.1741	0.0491	0.0570	5.66	0.0035
N-Butane	0.0964	0.0272	0.0300	3.14	0.0019
I-Pentane	0.0741	0.0209	0.0270	2.96	0.0018
N-Pentane	0.0305	0.0086	0.0110	1.22	0.0008
Hexane Plus	0.3833	0.1081	0.1710	20.20	0.0127
Total	100.0000	28.2041	16.7390	926.88	0.6522

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
BTU/CU.FT IDEAL: 929.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 930.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 914.7
DRY BTU @ 15.025: 949.5
REAL SPECIFIC GRAVITY: 0.6532

CYLINDER #: 4135
CYLINDER PRESSURE: 0 PSIG
ANALYSIS DATE: 05/31/2019
ANALYSIS TIME: 12:36:58 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 28-6 UNIT 138; CSG
Stn. No.: 86565-01
Mtr. No.: API # 3003920044

CASING
DK

06/06/2019
35825-11355

Smpl Date: 05/23/2019
Test Date: 05/31/2019
Run No: HS190101
Nitrogen: 12.4415
CO2: 1.2098
Methane: 82.2745
Ethane: 2.7762
Propane: 0.5396
I-Butane: 0.1741
N-Butane: 0.0964
I-Pentane: 0.0741
N-Pentane: 0.0305
Hexane+: 0.3833
BTU: 930.9
GPM: 16.7390
SPG: 0.6532



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

Analysis No: HS190102
Cust No: 35825-11360

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 28-6 UNIT 138; TBG
County/State: SAN JUAN NM
Location: 23-028N-006W
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: 86565-01
API # 3003920044

AREA 13 / RUN 1304

Source: TUBING
Well Flowing:
Pressure: 76 PSIG
Flow Temp: 59 DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: 0 MCF/D
Sample Method:
Sample Date: 05/23/2019
Sample Time: 1.14 PM
Sampled By: MYRON TOLTH
Sampled by (CO):

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1063	0.1063	0.0120	0.00	0.0010
CO2	1.3678	1.3672	0.2340	0.00	0.0208
Methane	94.0967	94.0529	15.9850	950.38	0.5212
Ethane	3.2077	3.2062	0.8600	56.77	0.0333
Propane	0.6160	0.6157	0.1700	15.50	0.0094
Iso-Butane	0.1875	0.1874	0.0610	6.10	0.0038
N-Butane	0.1073	0.1073	0.0340	3.50	0.0022
I-Pentane	0.0817	0.0817	0.0300	3.27	0.0020
N-Pentane	0.0343	0.0343	0.0120	1.37	0.0009
Hexane Plus	0.1947	0.1946	0.0870	10.26	0.0064
Total	100.0000	99.9536	17.4850	1047.15	0.6009

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
BTU/CU.FT IDEAL: 1049.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1052.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1033.7
DRY BTU @ 15.025: 1073.1
REAL SPECIFIC GRAVITY: 0.6021

CYLINDER #: 6072
CYLINDER PRESSURE: 74 PSIG
ANALYSIS DATE: 05/31/2019
ANALYSIS TIME: 11:32:56 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 28-6 UNIT 138; TBG
Stn. No.: 86565-01
Mtr. No.: API # 3003920044

TUBING
DK

06/06/2019
35825-11360

Smpl Date: 05/23/2019
Test Date: 05/31/2019
Run No: HS190102

Nitrogen: 0.1063
CO2: 1.3678
Methane: 94.0967
Ethane: 3.2077
Propane: 0.6160
I-Butane: 0.1875
N-Butane: 0.1073
I-Pentane: 0.0817
N-Pentane: 0.0343
Hexane+: 0.1947

BTU: 1052.0
GPM: 17.4850
SPG: 0.6021