



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

Analysis No: HS170009
Cust No: 35825-10040

30.045-10794

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: NEWBERRY LS 6; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: PSIG
Flow Temp: 57 DEG. F
Ambient Temp: 45 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/18/2017
Sample Time: 9.10 AM
Sampled By: BRIAN EVERETT
Sampled by (CO): HILCORP

OIL CONS. DIV DIST. 3
NOV 13 2017

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.8359	0.9587	0.3130	0.00	0.0274
CO2	0.1302	0.0440	0.0220	0.00	0.0020
Methane	86.0638	29.0948	14.6280	869.24	0.4767
Ethane	6.0667	2.0509	1.6270	107.36	0.0630
Propane	2.9794	1.0072	0.8230	74.96	0.0454
Iso-Butane	0.4564	0.1543	0.1500	14.84	0.0092
N-Butane	0.6381	0.2157	0.2020	20.82	0.0128
I-Pentane	0.1867	0.0631	0.0680	7.47	0.0047
N-Pentane	0.1136	0.0384	0.0410	4.55	0.0028
Hexane Plus	0.5292	0.1789	0.2370	27.89	0.0175
Total	100.0000	33.8060	18.1110	1127.15	0.6614

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT IDEAL: 1129.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1132.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1113.2
DRY BTU @ 15.025: 1155.6
REAL SPECIFIC GRAVITY: 0.663

CYLINDER #: 4059
CYLINDER PRESSURE: 4 PSIG
DATE RUN: 10/25/17 12:00 AM
ANALYSIS RUN BY: CAMERON MANGAN

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: 11/09/2017

GC Method: C6+ Gas



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

Analysis No: HS170010
Cust No: 35825-10045

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: NEWBERRY LS 6; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.: 71-353

Source: CASING
Well Flowing: Y
Pressure: 134 PSIG
Flow Temp: 57 DEG. F
Ambient Temp: 45 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/18/2017
Sample Time: 9.00 AM
Sampled By: BRIAN EVERETT
Sampled by (CO): HILCORP

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3327	0.3303	0.0370	0.00	0.0032
CO2	0.1438	0.1428	0.0250	0.00	0.0022
Methane	79.4483	78.8856	13.5190	802.43	0.4401
Ethane	9.4233	9.3566	2.5300	166.76	0.0978
Propane	5.5779	5.5384	1.5420	140.35	0.0849
Iso-Butane	1.1485	1.1404	0.3770	37.35	0.0230
N-Butane	1.6180	1.6065	0.5120	52.78	0.0325
I-Pentane	0.5987	0.5945	0.2200	23.95	0.0149
N-Pentane	0.4751	0.4717	0.1730	19.05	0.0118
Hexane Plus	1.2337	1.2250	0.5520	65.03	0.0408
Total	100.0000	99.2918	19.4870	1307.70	0.7513

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
BTU/CU.FT IDEAL: 1310.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1316.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1293.1
DRY BTU @ 15.025: 1342.4
REAL SPECIFIC GRAVITY: 0.754

CYLINDER #: 6101
CYLINDER PRESSURE: 50 PSIG
DATE RUN: 10/25/17 9:00 AM
ANALYSIS RUN BY: CAMERON MANGAN

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 10/27/2017

OIL CONS. DIV DIST. 3
NOV 13 2017



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: NEWBERRY LS 6; CSG
Stn. No.: 71-353
Mtr. No.:

CASING
MV

10/27/2017
35825-10045

Smpl Date: 10/18/2017
Test Date: 10/25/2017
Run No: HS170010

Nitrogen: 0.3327
CO2: 0.1438
Methane: 79.4483
Ethane: 9.4233
Propane: 5.5779
I-Butane: 1.1485
N-Butane: 1.6180
I-Pentane: 0.5987
N-Pentane: 0.4751
Hexane+: 1.2337

BTU: 1316.0
GPM: 19.4870
SPG: 0.7540