



OIL CONS. DIV DIST. 3

APR 04 2017

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: BK170001
Cust No: 16000-16070**Well/Lease Information**Customer Name: BRECK OPERATING CORP.
Well Name: MARSHALL B #1; BHD
County/State: SAN JUAN NM
Location: S14-27N-09W
Field:
Formation: PC
Cust. Stn. No.:Source: BRADENHEAD
Pressure: 10 PSIG
Sample Temp: 43 DEG. F
Well Flowing: N
Date Sampled: 03/14/2017
Sampled By: MICHAEL COLEY
Foreman/Engr.:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.407	0.0450	0.00	0.0039
CO2	0.197	0.0340	0.00	0.0030
Methane	88.566	15.0560	894.52	0.4906
Ethane	5.256	1.4100	93.02	0.0546
Propane	2.791	0.7710	70.23	0.0425
Iso-Butane	0.600	0.1970	19.51	0.0120
N-Butane	0.746	0.2360	24.34	0.0150
I-Pentane	0.327	0.1200	13.08	0.0081
N-Pentane	0.226	0.0820	9.06	0.0056
Hexane Plus	0.884	0.3950	46.60	0.0293
Total	100.000	18.3460	1170.35	0.6646

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1176.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1156.1
REAL SPECIFIC GRAVITY: 0.6663GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.DRY BTU @ 14.650: 1170.2
DRY BTU @ 14.696: 1173.9
DRY BTU @ 14.730: 1176.6
DRY BTU @ 15.025: 1200.2CYLINDER #: 7057
CYLINDER PRESSURE: PSIG
DATE RUN: 3/22/17 11:22 AM
ANALYSIS RUN BY: PATRICIA KING

MAR 27 2017

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OIL CONS. DIV DIST. 3
APR 04 2017

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

Analysis No: BK170002
Cust No: 16000-16075

Well/Lease Information

Customer Name: BRECK OPERATING CORP.
Well Name: MARSHALL B #1; CSG
County/State: SAN JUAN NM
Location: S14-27N-09W
Field:
Formation: PC
Cust. Strn. No.:

Source: CASING
Pressure: 78 PSIG
Sample Temp: 43 DEG. F
Well Flowing: N
Date Sampled: 03/14/2017
Sampled By: MICHAEL COLEY
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.389	0.0430	0.00	0.0038
CO2	0.189	0.0320	0.00	0.0029
Methane	87.691	14.9100	885.68	0.4857
Ethane	5.490	1.4730	97.15	0.0570
Propane	2.947	0.8140	74.15	0.0449
Iso-Butane	0.652	0.2140	21.20	0.0131
N-Butane	0.815	0.2580	26.59	0.0164
I-Pentane	0.383	0.1400	15.32	0.0095
N-Pentane	0.279	0.1010	11.18	0.0070
Hexane Plus	1.165	0.5210	61.41	0.0386
Total	100.000	18.5060	1192.69	0.6787

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1199.3

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1178.4

REAL SPECIFIC GRAVITY: 0.6806

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

DRY BTU @ 14.650: 1192.8

DRY BTU @ 14.696: 1196.5

DRY BTU @ 14.730: 1199.3

DRY BTU @ 15.025: 1223.3

CYLINDER #: 4204

CYLINDER PRESSURE: 76 PSIG

DATE RUN: 3/22/17 11:25 AM

ANALYSIS RUN BY: PATRICIA KING

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OIL CONS. DIV DIST. 3
APR 04 2017

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

Analysis No: BK170003
Cust No: 16000-16080

Well/Lease Information

Customer Name: BRECK OPERATING CORP.
Well Name: MARSHALL B #1; TBG
County/State: SAN JUAN NM
Location: S14-27N-09W
Field:
Formation: PC
Cust. Stn. No.:

Source: TUBING
Pressure: 78 PSIG
Sample Temp: 43 DEG. F
Well Flowing: N
Date Sampled: 03/14/2017
Sampled By: MICHAEL COLEY
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.392	0.0430	0.00	0.0038
CO2	0.199	0.0340	0.00	0.0030
Methane	88.065	14.9720	889.45	0.4878
Ethane	5.499	1.4750	97.32	0.0571
Propane	2.935	0.8110	73.85	0.0447
Iso-Butane	0.642	0.2110	20.88	0.0129
N-Butane	0.792	0.2500	25.84	0.0159
I-Pentane	0.346	0.1270	13.84	0.0086
N-Pentane	0.243	0.0880	9.74	0.0061
Hexane Plus	0.887	0.3970	46.76	0.0294
Total	100.000	18.4080	1177.68	0.6692

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1184.1

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1163.5

REAL SPECIFIC GRAVITY: 0.671

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

DRY BTU @ 14.650: 1177.7

DRY BTU @ 14.696: 1181.4

DRY BTU @ 14.730: 1184.1

DRY BTU @ 15.025: 1207.8

CYLINDER #: 5002

CYLINDER PRESSURE: 81 PSIG

DATE RUN: 3/22/17 11:26 AM

ANALYSIS RUN BY: PATRICIA KING

MAR 27 2017