

30-039-05546



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

Analysis No: LG170055
Cust No: 46600-10725

Well/Lease Information

Customer Name: LOGOS OPERATING LLC
Well Name: W O HUGHES 3; BHD
County/State: RIO ARRIBA NM
Location:
Field:
Formation: PC
Cust. Strn. No.:

Source: BRADENHEAD
Pressure: 127 PSIG
Sample Temp: 38 DEG. F
Well Flowing: Y
Date Sampled: 03/07/2017
Sampled By: SHELDON MONTOYA
Foreman/Engr.:

OIL CONS. DIV DIST. 3
MAY 30 2017

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.840	0.0930	0.00	0.0081
CO2	0.075	0.0130	0.00	0.0011
Methane	82.506	14.0310	833.31	0.4570
Ethane	7.985	2.1420	141.31	0.0829
Propane	4.880	1.3490	122.78	0.0743
Iso-Butane	1.110	0.3640	36.10	0.0223
N-Butane	1.283	0.4060	41.85	0.0257
I-Pentane	0.495	0.1820	19.80	0.0123
N-Pentane	0.334	0.1210	13.39	0.0083
Hexane Plus	0.492	0.2200	25.93	0.0163
Total	100.000	18.9210	1234.48	0.7084

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1241.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1220.0
REAL SPECIFIC GRAVITY: 0.7105

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

DRY BTU @ 14.650: 1234.9
DRY BTU @ 14.696: 1238.7
DRY BTU @ 14.730: 1241.6
DRY BTU @ 15.025: 1266.5

CYLINDER #: 4234
CYLINDER PRESSURE: 125 PSIG
DATE RUN: 3/10/17 9:58 AM
ANALYSIS RUN BY: PATRICIA KING



30-039-05546

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

Analysis No: LG170056
Cust No: 46600-10730

Well/Lease Information

Customer Name: LOGOS OPERATING LLC
Well Name: W O HUGHES #3; CSG
County/State: RIO ARRIBA NM
Location:
Field:
Formation: PC
Cust. Stn. No.:

Source: CASING
Pressure: 144 PSIG
Sample Temp: 61 DEG. F
Well Flowing: Y
Date Sampled: 03/03/2017
Sampled By: EUGENE BURBANK
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.866	0.0960	0.00	0.0084
CO2	0.072	0.0120	0.00	0.0011
Methane	82.617	14.0500	834.43	0.4576
Ethane	7.901	2.1200	139.82	0.0820
Propane	4.873	1.3470	122.61	0.0742
Iso-Butane	1.107	0.3630	36.00	0.0222
N-Butane	1.291	0.4080	42.12	0.0259
I-Pentane	0.489	0.1790	19.56	0.0122
N-Pentane	0.326	0.1190	13.07	0.0081
Hexane Plus	0.458	0.2050	24.14	0.0152
Total	100.000	18.8990	1231.75	0.7069

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1238.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1217.2
REAL SPECIFIC GRAVITY: 0.709

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

DRY BTU @ 14.650: 1232.1
DRY BTU @ 14.696: 1235.9
DRY BTU @ 14.730: 1238.8
DRY BTU @ 15.025: 1263.6

CYLINDER #: 5006
CYLINDER PRESSURE: 154 PSIG
DATE RUN: 3/10/17 10:01 AM
ANALYSIS RUN BY: Shyann Elledge