



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

Analysis No: DU150711
Cust No: 23000-22660

30-045-32458

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: STATE COM #2C; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Pressure: 74 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 11/09/2015
Sampled By: JIMMY DAVIS
Foreman/Engr.: JIMMY DAVIS

OIL CONS. DIV DIST. 3

Remarks: BRADENHEAD TESTING

NOV 19 2015

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.832	0.0920	0.00	0.0080
CO2	0.019	0.0030	0.00	0.0003
Methane	80.155	13.6350	809.56	0.4440
Ethane	9.508	2.5520	168.26	0.0987
Propane	5.361	1.4820	134.89	0.0816
Iso-Butane	0.574	0.1880	18.67	0.0115
N-Butane	1.613	0.5100	52.62	0.0324
I-Pentane	0.475	0.1740	19.00	0.0118
N-Pentane	0.473	0.1720	18.96	0.0118
Hexane Plus	0.990	0.4430	52.18	0.0328
Total	100.000	19.2510	1274.16	0.7329

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1281.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1259.5

REAL SPECIFIC GRAVITY: 0.7353

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

DRY BTU @ 14.650: 1274.8

DRY BTU @ 14.696: 1278.8

DRY BTU @ 14.730: 1281.8

DRY BTU @ 15.025: 1307.5

CYLINDER #: 6113

CYLINDER PRESSURE: 78 PSIG

DATE RUN: 11/11/15 12:00 AM

ANALYSIS RUN BY: DAWN BLASSINGAME



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: STATE COM #2C; CSG
Stn. No.:
Mtr. No.:

CASING

11/12/2015
23000-22660

Smpl Date: 11/09/2015
Test Date: 11/11/2015
Run No: DU150711

Nitrogen: 0.832
CO2: 0.019
Methane: 80.155
Ethane: 9.508
Propane: 5.361
I-Butane: 0.574
N-Butane: 1.613
I-Pentane: 0.475
N-Pentane: 0.473
Hexane+: 0.990

BTU: 1281.8
GPM: 19.2510
SPG: 0.7353



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

Analysis No: DU150690
Cust No: 23000-22575

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: STATE COM #2C
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 8 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 10/26/2015
Sampled By: JIM DAVIS
Foreman/Engr.:

Remarks: PRESSURED WITH HELIUM TO
30LBS

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	5.928	0.6540	0.00	0.0573
CO2	0.051	0.0090	0.00	0.0008
Methane	86.257	14.6560	871.20	0.4778
Ethane	4.056	1.0870	71.78	0.0421
Propane	1.973	0.5450	49.64	0.0300
Iso-Butane	0.410	0.1340	13.33	0.0082
N-Butane	0.547	0.1730	17.84	0.0110
I-Pentane	0.176	0.0650	7.04	0.0044
N-Pentane	0.099	0.0360	3.97	0.0025
Hexane Plus	0.503	0.2250	26.51	0.0166
Total	100.000	17.5840	1061.32	0.6507

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1066.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1047.8
REAL SPECIFIC GRAVITY: 0.6521

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

DRY BTU @ 14.650: 1060.6
DRY BTU @ 14.696: 1063.9
DRY BTU @ 14.730: 1066.4
DRY BTU @ 15.025: 1087.8

CYLINDER #: 6199
CYLINDER PRESSURE: PSIG
DATE RUN: 10/28/15 9:19 AM
ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: STATE COM #2C
Stn. No.:
Mtr. No.:

BRADENHEAD

10/30/2015
23000-22575

Smpl Date: 10/26/2015
Test Date: 10/28/2015
Run No: DU150690

Nitrogen: 5.928
CO2: 0.051
Methane: 86.257
Ethane: 4.056
Propane: 1.973
I-Butane: 0.410
N-Butane: 0.547
I-Pentane: 0.176
N-Pentane: 0.099
Hexane+: 0.503

BTU: 1066.4
GPM: 17.5840
SPG: 0.6521