



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

Analysis No: DU150707
Cust No: 23000-22640

30-045-20 956

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: PINION #1; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Pressure: 180 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	0.447	0.0490	0.00	0.0043
CO2	1.230	0.2110	0.00	0.0187
Methane	80.391	13.6730	811.95	0.4453
Ethane	10.118	2.7150	179.06	0.1050
Propane	4.403	1.2170	110.78	0.0670
Iso-Butane	0.720	0.2360	23.41	0.0144
N-Butane	1.280	0.4050	41.76	0.0257
I-Pentane	0.447	0.1640	17.88	0.0111
N-Pentane	0.359	0.1310	14.39	0.0089
Hexane Plus	0.605	0.2710	31.89	0.0200
Total	100.000	19.0720	1231.13	0.7206

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1238.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1216.8
REAL SPECIFIC GRAVITY: 0.7229

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

DRY BTU @ 14.650: 1231.6
DRY BTU @ 14.696: 1235.4
DRY BTU @ 14.730: 1238.3
DRY BTU @ 15.025: 1263.1

CYLINDER #: 6137
CYLINDER PRESSURE: 174 PSIG
DATE RUN: 11/11/15 12:00 AM
ANALYSIS RUN BY: DAWN BLASSINGAME



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: PINION #1; CSG
Stn. No.:
Mtr. No.:

CASING

11/12/2015
23000-22640

Smpl Date: 11/09/2015
Test Date: 11/11/2015
Run No: DU150707

Nitrogen: 0.447
CO2: 1.230
Methane: 80.391
Ethane: 10.118
Propane: 4.403
I-Butane: 0.720
N-Butane: 1.280
I-Pentane: 0.447
N-Pentane: 0.359
Hexane+: 0.605

BTU: 1238.3
GPM: 19.0720
SPG: 0.7229



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

Analysis No: DU150684
Cust No: 23000-22545

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: PINION #1
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 32 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 10/26/2015
Sampled By: JIM DAVIS
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.529	0.0580	0.00	0.0051
CO2	0.707	0.1210	0.00	0.0107
Methane	81.430	13.8480	822.44	0.4510
Ethane	9.972	2.6750	176.47	0.1035
Propane	4.180	1.1550	105.17	0.0636
Iso-Butane	0.678	0.2230	22.05	0.0136
N-Butane	1.170	0.3700	38.17	0.0235
I-Pentane	0.413	0.1520	16.52	0.0103
N-Pentane	0.349	0.1270	13.99	0.0087
Hexane Plus	0.572	0.2560	30.15	0.0189
Total	100.000	18.9850	1224.97	0.7091

* @ 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): 1232.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1210.6
REAL SPECIFIC GRAVITY: 0.7112

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

DRY BTU @ 14.650: 1225.3
DRY BTU @ 14.696: 1229.2
DRY BTU @ 14.730: 1232.0
DRY BTU @ 15.025: 1256.7

CYLINDER #: 6030
CYLINDER PRESSURE: 36 PSIG
DATE RUN: 10/29/15 9:01 AM
ANALYSIS RUN BY: Kindra Anderson



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: PINION #1
Stn. No.:
Mtr. No.:

BRADENHEAD

10/30/2015
23000-22545

Smpl Date: 10/26/2015
Test Date: 10/29/2015
Run No: DU150684

Nitrogen: 0.529
CO2: 0.707
Methane: 81.430
Ethane: 9.972
Propane: 4.180
I-Butane: 0.678
N-Butane: 1.170
I-Pentane: 0.413
N-Pentane: 0.349
Hexane+: 0.572

BTU: 1232.0
GPM: 18.9850
SPG: 0.7112