



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

Analysis No: DU150705
Cust No: 23000-22630

30-045-24021

Well/Lease Information

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

Source: CASING
Pressure: 121 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

NOV 19 2015

Remarks: BRADENHEAD TESTING

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.162	0.0180	0.00	0.0016
CO2	0.685	0.1170	0.00	0.0104
Methane	83.821	14.2520	846.59	0.4643
Ethane	9.331	2.5030	165.13	0.0969
Propane	3.450	0.9530	86.81	0.0525
Iso-Butane	0.658	0.2160	21.40	0.0132
N-Butane	0.864	0.2730	28.19	0.0173
I-Pentane	0.352	0.1290	14.08	0.0088
N-Pentane	0.225	0.0820	9.02	0.0056
Hexane Plus	0.452	0.2020	23.83	0.0150
Total	100.000	18.7450	1195.04	0.6855

* @ 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): 1201.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1180.8
REAL SPECIFIC GRAVITY: 0.6875

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

DRY BTU @ 14.650: 1195.2
DRY BTU @ 14.696: 1198.9
DRY BTU @ 14.730: 1201.7
DRY BTU @ 15.025: 1225.8

CYLINDER #: 6055
CYLINDER PRESSURE: 123 PSIG
DATE RUN: 11/11/15 12:00 AM
ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: MEXICO FEDERAL M #1A; CSG
Stn. No.:
Mtr. No.:

CASING

11/12/2015
23000-22630

Smpl Date: 11/09/2015
Test Date: 11/11/2015
Run No: DU150705

Nitrogen: 0.162
CO2: 0.685
Methane: 83.821
Ethane: 9.331
Propane: 3.450
I-Butane: 0.658
N-Butane: 0.864
I-Pentane: 0.352
N-Pentane: 0.225
Hexane+: 0.452

BTU: 1201.7
GPM: 18.7450
SPG: 0.6875



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

Analysis No: DU150682
Cust No: 23000-22535

Well/Lease Information

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

Source: BRADENHEAD
Pressure: 41 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	1.075	0.1190	0.00	0.0104
CO2	0.012	0.0020	0.00	0.0002
Methane	95.986	16.3040	969.46	0.5317
Ethane	1.987	0.5320	35.16	0.0206
Propane	0.490	0.1350	12.33	0.0075
Iso-Butane	0.089	0.0290	2.89	0.0018
N-Butane	0.137	0.0430	4.47	0.0027
I-Pentane	0.046	0.0170	1.84	0.0011
N-Pentane	0.037	0.0130	1.48	0.0009
Hexane Plus	0.141	0.0630	7.43	0.0047
Total	100.000	17.2570	1035.07	0.5816

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1039.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1021.7

REAL SPECIFIC GRAVITY: 0.5827

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

DRY BTU @ 14.650: 1034.2

DRY BTU @ 14.696: 1037.4

DRY BTU @ 14.730: 1039.8

DRY BTU @ 15.025: 1060.6

CYLINDER #: 6082

CYLINDER PRESSURE: 45 PSIG

DATE RUN: 10/28/15 8:55 AM

ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: MEXICO FEDERAL M #1A
Stn. No.:
Mtr. No.:

BRADENHEAD

10/30/2015
23000-22535

Smpl Date: 10/26/2015
Test Date: 10/28/2015
Run No: DU150682

Nitrogen: 1.075
CO2: 0.012
Methane: 95.986
Ethane: 1.987
Propane: 0.490
I-Butane: 0.089
N-Butane: 0.137
I-Pentane: 0.046
N-Pentane: 0.037
Hexane+: 0.141

BTU: 1039.8
GPM: 17.2570
SPG: 0.5827