



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

Analysis No: DU150681
Cust No: 23000-22530

30-045-10897

Well/Lease Information

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

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

811 CONS. DIV DIST. 3
NOV 19 2015

Remarks: PRESSURED WITH HELIUM
TO 30LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.658	0.0730	0.00	0.0064
CO2	0.012	0.0020	0.00	0.0002
Methane	82.779	14.0800	836.07	0.4585
Ethane	7.729	2.0740	136.78	0.0802
Propane	4.803	1.3280	120.85	0.0731
Iso-Butane	0.893	0.2930	29.04	0.0179
N-Butane	1.244	0.3940	40.58	0.0250
I-Pentane	0.427	0.1570	17.08	0.0106
N-Pentane	0.326	0.1190	13.07	0.0081
Hexane Plus	1.129	0.5050	59.51	0.0374
Total	100.000	19.0250	1252.98	0.7174

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1260.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1238.5
REAL SPECIFIC GRAVITY: 0.7197

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

DRY BTU @ 14.650: 1253.6
DRY BTU @ 14.696: 1257.5
DRY BTU @ 14.730: 1260.4
DRY BTU @ 15.025: 1285.6

CYLINDER #: 5035
CYLINDER PRESSURE: PSIG
DATE RUN: 10/28/15 8:52 AM
ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: MEXICO FED M #1
Stn. No.:
Mtr. No.:

BRADENHEAD

10/30/2015
23000-22530

Smpl Date: 10/26/2015
Test Date: 10/28/2015
Run No: DU150681

Nitrogen: 0.658
CO2: 0.012
Methane: 82.779
Ethane: 7.729
Propane: 4.803
I-Butane: 0.893
N-Butane: 1.244
I-Pentane: 0.427
N-Pentane: 0.326
Hexane+: 1.129

BTU: 1260.4
GPM: 19.0250
SPG: 0.7197



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

Analysis No: DU150704
Cust No: 23000-22625

Well/Lease Information

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

Source: CASING
Pressure: 112 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 11/09/2015
Sampled By: JIMMY DAVIS
Foreman/Engr.: JIMMY DAVIS

Remarks: BRADENHEAD TESTING

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.424	0.0470	0.00	0.0041
CO2	0.007	0.0010	0.00	0.0001
Methane	83.722	14.2370	845.59	0.4637
Ethane	8.015	2.1500	141.84	0.0832
Propane	4.797	1.3260	120.70	0.0730
Iso-Butane	0.850	0.2790	27.64	0.0171
N-Butane	1.131	0.3580	36.90	0.0227
I-Pentane	0.346	0.1270	13.84	0.0086
N-Pentane	0.255	0.0930	10.22	0.0064
Hexane Plus	0.453	0.2030	23.88	0.0150
Total	100.000	18.8210	1220.61	0.6939

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1227.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1206.1
REAL SPECIFIC GRAVITY: 0.6959

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

DRY BTU @ 14.650: 1220.8
DRY BTU @ 14.696: 1224.7
DRY BTU @ 14.730: 1227.5
DRY BTU @ 15.025: 1252.1

CYLINDER #: 6222
CYLINDER PRESSURE: 108 PSIG
DATE RUN: 11/11/15 12:00 AM
ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

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

CASING

11/12/2015
23000-22625

Smpl Date: 11/09/2015
Test Date: 11/11/2015
Run No: DU150704

Nitrogen: 0.424
CO2: 0.007
Methane: 83.722
Ethane: 8.015
Propane: 4.797
I-Butane: 0.850
N-Butane: 1.131
I-Pentane: 0.346
N-Pentane: 0.255
Hexane+: 0.453

BTU: 1227.5
GPM: 18.8210
SPG: 0.6959