



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

Analysis No: DU150687
Cust No: 23000-22560

30-04532242

Well/Lease Information

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

Source: CASING
Pressure: 48 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 10/26/2015
Sampled By: JIM DAVIS
Foreman/Engr.:

OIL CONS. DIV DIST. 3
NOV 19 2015

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.272	0.0300	0.00	0.0026
CO2	0.788	0.1350	0.00	0.0120
Methane	77.108	13.1260	778.79	0.4271
Ethane	10.987	2.9510	194.44	0.1141
Propane	5.135	1.4210	129.20	0.0782
Iso-Butane	0.800	0.2630	26.02	0.0161
N-Butane	1.653	0.5230	53.93	0.0332
I-Pentane	0.591	0.2170	23.65	0.0147
N-Pentane	0.497	0.1810	19.92	0.0124
Hexane Plus	2.169	0.9710	114.33	0.0718
Total	100.000	19.8180	1340.27	0.7821

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1349.3

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1325.8

REAL SPECIFIC GRAVITY: 0.7852

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

DRY BTU @ 14.650: 1342.0

DRY BTU @ 14.696: 1346.2

DRY BTU @ 14.730: 1349.3

DRY BTU @ 15.025: 1376.3

CYLINDER #: 5026

CYLINDER PRESSURE: 44 PSIG

DATE RUN: 10/28/15 9:12 AM

ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

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

CASING

10/30/2015
23000-22560

Smpl Date: 10/26/2015
Test Date: 10/28/2015
Run No: DU150687

Nitrogen: 0.272
CO2: 0.788
Methane: 77.108
Ethane: 10.987
Propane: 5.135
I-Butane: 0.800
N-Butane: 1.653
I-Pentane: 0.591
N-Pentane: 0.497
Hexane+: 2.169

BTU: 1349.3
GPM: 19.8180
SPG: 0.7852



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

Analysis No: DU150686
Cust No: 23000-22555

Well/Lease Information

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

Source: TUBING
Pressure: 17 PSIG
Sample Temp: 73 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	0.273	0.0300	0.00	0.0026
CO2	0.854	0.1460	0.00	0.0130
Methane	78.116	13.2940	788.97	0.4327
Ethane	10.889	2.9230	192.70	0.1130
Propane	4.950	1.3690	124.55	0.0754
Iso-Butane	0.768	0.2520	24.97	0.0154
N-Butane	1.565	0.4950	51.05	0.0314
I-Pentane	0.559	0.2050	22.36	0.0139
N-Pentane	0.465	0.1690	18.64	0.0116
Hexane Plus	1.561	0.6990	82.28	0.0517
Total	100.000	19.5820	1305.53	0.7607

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1313.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1291.0
REAL SPECIFIC GRAVITY: 0.7635

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

DRY BTU @ 14.650: 1306.8
DRY BTU @ 14.696: 1310.9
DRY BTU @ 14.730: 1313.9
DRY BTU @ 15.025: 1340.2

CYLINDER #: 4029
CYLINDER PRESSURE: 19 PSIG
DATE RUN: 10/28/15 9:09 AM
ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

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

TUBING

10/30/2015
23000-22555

Smpl Date: 10/26/2015
Test Date: 10/28/2015
Run No: DU150686

Nitrogen: 0.273
CO2: 0.854
Methane: 78.116
Ethane: 10.889
Propane: 4.950
I-Butane: 0.768
N-Butane: 1.565
I-Pentane: 0.559
N-Pentane: 0.465
Hexane+: 1.561

BTU: 1313.9
GPM: 19.5820
SPG: 0.7635



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

Analysis No: DU150688
Cust No: 23000-22565

Well/Lease Information

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

Source: BRADENHEAD
Pressure: 20 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	0.927	0.1020	0.00	0.0090
CO2	0.012	0.0020	0.00	0.0002
Methane	97.093	16.4910	980.64	0.5378
Ethane	1.630	0.4370	28.85	0.0169
Propane	0.210	0.0580	5.28	0.0032
Iso-Butane	0.023	0.0080	0.75	0.0005
N-Butane	0.021	0.0070	0.69	0.0004
I-Pentane	0.005	0.0020	0.20	0.0001
N-Pentane	0.003	0.0010	0.12	0.0001
Hexane Plus	0.076	0.0340	4.01	0.0025
Total	100.000	17.1420	1020.53	0.5707

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1025.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1007.2
REAL SPECIFIC GRAVITY: 0.5716

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

DRY BTU @ 14.650: 1019.4
DRY BTU @ 14.696: 1022.6
DRY BTU @ 14.730: 1025.0
DRY BTU @ 15.025: 1045.5

CYLINDER #: 6182
CYLINDER PRESSURE: 22 PSIG
DATE RUN: 10/28/15 9:14 AM
ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

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

BRADENHEAD

10/30/2015
23000-22565

Smpl Date: 10/26/2015
Test Date: 10/28/2015
Run No: DU150688

Nitrogen: 0.927
CO2: 0.012
Methane: 97.093
Ethane: 1.630
Propane: 0.210
I-Butane: 0.023
N-Butane: 0.021
I-Pentane: 0.005
N-Pentane: 0.003
Hexane+: 0.076

BTU: 1025.0
GPM: 17.1420
SPG: 0.5716