



OIL CONS. DIV DIST. 3

JUN 02 2017

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: DU170469
Cust No: 23000-22810

30-045-32630

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: STATE COM #1C;BHD
County/State: SAN JUAN NM
Location:
Field: STATE COM GATHERING
Formation:
Cust. Str. No.: 14,011Source: BRADENHEAD
Pressure: 23 PSIG
Sample Temp: 89 DEG. F
Well Flowing: Y
Date Sampled: 05/25/2017
Sampled By: MICHAEL BRIMHALL
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.186	0.1310	0.00	0.0115
CO2	0.015	0.0030	0.00	0.0002
Methane	90.206	15.3270	911.08	0.4997
Ethane	5.582	1.4960	98.78	0.0580
Propane	1.895	0.5230	47.68	0.0289
Iso-Butane	0.364	0.1190	11.84	0.0073
N-Butane	0.394	0.1240	12.85	0.0079
I-Pentane	0.127	0.0470	5.08	0.0032
N-Pentane	0.087	0.0320	3.49	0.0022
Hexane Plus	0.144	0.0640	7.59	0.0048
Total	100.000	17.8660	1098.39	0.6235

* @ 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): 1103.7

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1084.5

REAL SPECIFIC GRAVITY: 0.6248

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

DRY BTU @ 14.650: 1097.7

DRY BTU @ 14.696: 1101.2

DRY BTU @ 14.730: 1103.7

DRY BTU @ 15.025: 1125.8

CYLINDER #: 6066

CYLINDER PRESSURE: 22 PSIG

DATE RUN: 5/25/17 7:35 AM

ANALYSIS RUN BY: PATRICIA KING

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DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: STATE COM #1C;BHD
Stn. No.: 14,011
Mtr. No.:

BRADENHEAD

05/26/2017
23000-22810

Smpl Date: 05/25/2017
Test Date: 05/25/2017
Run No: DU170469

Nitrogen: 1.186
CO2: 0.015
Methane: 90.206
Ethane: 5.582
Propane: 1.895
I-Butane: 0.364
N-Butane: 0.394
I-Pentane: 0.127
N-Pentane: 0.087
Hexane+: 0.144

BTU: 1103.7
GPM: 17.8660
SPG: 0.6248



OIL CONS. DIV DIST. 3

JUN 02 2017

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: DU170470
Cust No: 23000-22815

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: STATE COM #1C;CSG
County/State: SAN JUAN NM
Location:
Field: STATE COM GATHERING
Formation:
Cust. Str. No.: 14,011

Source: CASING
Pressure: 60 PSIG
Sample Temp: 89 DEG. F
Well Flowing: Y
Date Sampled: 05/25/2017
Sampled By: MICHAEL BRIMHALL
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.203	0.1330	0.00	0.0116
CO2	0.451	0.0770	0.00	0.0069
Methane	83.831	14.2580	846.69	0.4643
Ethane	7.563	2.0290	133.84	0.0785
Propane	3.084	0.8520	77.60	0.0470
Iso-Butane	0.496	0.1630	16.13	0.0100
N-Butane	0.993	0.3140	32.39	0.0199
I-Pentane	0.399	0.1460	15.96	0.0099
N-Pentane	0.330	0.1200	13.23	0.0082
Hexane Plus	1.650	0.7380	86.97	0.0546
Total	100.000	18.8300	1222.82	0.7110

* @ 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): 1230.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1208.6
REAL SPECIFIC GRAVITY: 0.7132

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

DRY BTU @ 14.650: 1223.3
DRY BTU @ 14.696: 1227.2
DRY BTU @ 14.730: 1230.0
DRY BTU @ 15.025: 1254.6

CYLINDER #: 7028
CYLINDER PRESSURE: 59 PSIG
DATE RUN: 5/25/17 7:40 AM
ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: STATE COM #1C;CSG
Stn. No.: 14,011
Mtr. No.:

CASING

05/26/2017
23000-22815

Smpl Date: 05/25/2017
Test Date: 05/25/2017
Run No: DU170470

Nitrogen: 1.203
CO2: 0.451
Methane: 83.831
Ethane: 7.563
Propane: 3.084
I-Butane: 0.496
N-Butane: 0.993
I-Pentane: 0.399
N-Pentane: 0.330
Hexane+: 1.650

BTU: 1230.0
GPM: 18.8300
SPG: 0.7132



OIL CONS. DIV DIST. 3

JUN 02 2017

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: DU170471
Cust No: 23000-22820

Well/Lease Information

Customer Name: DUGAN PRODUCTION CORP.
Well Name: STATE COM #1C;TBG
County/State: SAN JUAN NM
Location:
Field: STATE COM GATHERING
Formation:
Cust. Stn. No.: 14,011

Source: TUBING
Pressure: 54 PSIG
Sample Temp: 89 DEG. F
Well Flowing: Y
Date Sampled: 05/25/2017
Sampled By: MICHAEL BRIMHALL
Foreman/Engr.:

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.334	0.0370	0.00	0.0032
CO2	0.879	0.1510	0.00	0.0134
Methane	80.723	13.7310	815.30	0.4471
Ethane	10.306	2.7650	182.39	0.1070
Propane	4.295	1.1870	108.07	0.0654
Iso-Butane	0.630	0.2070	20.49	0.0126
N-Butane	1.285	0.4060	41.92	0.0258
I-Pentane	0.431	0.1580	17.24	0.0107
N-Pentane	0.349	0.1270	13.99	0.0087
Hexane Plus	0.768	0.3440	40.48	0.0254
Total	100.000	19.1130	1239.88	0.7194

* @ 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): 1247.1

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1225.4

REAL SPECIFIC GRAVITY: 0.7216

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

DRY BTU @ 14.650: 1240.3

DRY BTU @ 14.696: 1244.2

DRY BTU @ 14.730: 1247.1

DRY BTU @ 15.025: 1272.1

CYLINDER #: 7023

CYLINDER PRESSURE: 52 PSIG

DATE RUN: 5/25/17 7:42 AM

ANALYSIS RUN BY: PATRICIA KING



DUGAN PRODUCTION CORP.
WELL ANALYSIS COMPARISON

Lease: STATE COM #1C;TBG
Stn. No.: 14,011
Mtr. No.:

TUBING

05/26/2017
23000-22820

Smpl Date: 05/25/2017
Test Date: 05/25/2017
Run No: DU170471

Nitrogen: 0.334
CO2: 0.879
Methane: 80.723
Ethane: 10.306
Propane: 4.295
I-Butane: 0.630
N-Butane: 1.285
I-Pentane: 0.431
N-Pentane: 0.349
Hexane+: 0.768

BTU: 1247.1
GPM: 19.1130
SPG: 0.7216