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

30-045-32631

Analysis No: DU150710
Cust No: 23000-22655

Well/Lease Information

Customer Name:	DUGAN PRODUCTION CORP.	Source:	CASING
Well Name:	STATE COM #2B; CSG	Pressure:	57 PSIG
County/State:	SAN JUAN NM	Sample Temp:	DEG. F
Location:		Well Flowing:	Y
Field:		Date Sampled:	11/09/2015
Formation:		Sampled By:	JIMMY DAVIS
Cust. Stn. No.:		Foreman/Engr.:	JIMMY DAVIS

Remarks: BRADENHEAD TESTING

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.273	0.0300	0.00	0.0026
CO2	0.733	0.1260	0.00	0.0111
Methane	77.868	13.2500	786.46	0.4313
Ethane	10.991	2.9500	194.51	0.1141
Propane	5.220	1.4440	131.34	0.0795
Iso-Butane	0.842	0.2770	27.38	0.0169
N-Butane	1.766	0.5590	57.61	0.0354
I-Pentane	0.651	0.2390	26.05	0.0162
N-Pentane	0.543	0.1980	21.77	0.0135
Hexane Plus	1.113	0.4980	58.67	0.0368
Total	100.000	19.5710	1303.79	0.7576

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.004
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1312.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1289.3
REAL SPECIFIC GRAVITY:	0.7603

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

DRY BTU @ 14.650:	1305.0	CYLINDER #:	6160
DRY BTU @ 14.696:	1309.1	CYLINDER PRESSURE:	61 PSIG
DRY BTU @ 14.730:	1312.1	DATE RUN:	11/11/15 12:00 AM
DRY BTU @ 15.025:	1338.4	ANALYSIS RUN BY:	PATRICIA KING

DUGAN PRODUCTION CORP.

WELL ANALYSIS COMPARISON

Lease:	STATE COM #2B; CSG	CASING	11/12/2015
Stn. No.:			23000-22655
Mtr. No.:			

Smpl Date:	11/09/2015
Test Date:	11/11/2015
Run No:	DU150710
Nitrogen:	0.273
CO2:	0.733
Methane:	77.868
Ethane:	10.991
Propane:	5.220
I-Butane:	0.842
N-Butane:	1.766
I-Pentane:	0.651
N-Pentane:	0.543
Hexane+:	1.113
BTU:	1312.1
GPM:	19.5710
SPG:	0.7603

2030 Afton Place
Farmington, NM 87401
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Analysis No: DU150689
Cust No: 23000-22570

Well/Lease Information

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

Source: BRADENHEAD
Pressure: 0.5 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 10/26/2015
Sampled By: JIM DAVIS
Foreman/Engr.:

Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.784	0.0870	0.00	0.0076
CO2	0.736	0.1260	0.00	0.0112
Methane	78.779	13.4040	795.67	0.4364
Ethane	10.362	2.7810	183.38	0.1076
Propane	4.734	1.3090	119.11	0.0721
Iso-Butane	0.717	0.2350	23.32	0.0144
N-Butane	1.520	0.4810	49.59	0.0305
I-Pentane	0.550	0.2020	22.01	0.0137
N-Pentane	0.462	0.1680	18.52	0.0115
Hexane Plus	1.356	0.6070	71.48	0.0449
Total	100.000	19.4000	1283.06	0.7498

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z): 1.0039
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1291.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1268.6
REAL SPECIFIC GRAVITY: 0.7524

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

DRY BTU @ 14.650: 1284.1
DRY BTU @ 14.696: 1288.1
DRY BTU @ 14.730: 1291.1
DRY BTU @ 15.025: 1317.0

CYLINDER #: 4048
CYLINDER PRESSURE: PSIG
DATE RUN: 10/28/15 9:16 AM
ANALYSIS RUN BY: PATRICIA KING

GAS ANALYSIS SERVICE

DUGAN PRODUCTION CORP.

WELL ANALYSIS COMPARISON

Lease:	STATE COM #2B	BRADENHEAD	10/30/2015
Stn. No.:			23000-22570
Mtr. No.:			

Smpl Date:	10/26/2015
Test Date:	10/28/2015
Run No:	DU150689
Nitrogen:	0.784
CO2:	0.736
Methane:	78.779
Ethane:	10.362
Propane:	4.734
I-Butane:	0.717
N-Butane:	1.520
I-Pentane:	0.550
N-Pentane:	0.462
Hexane+:	1.356
BTU:	1291.1
GPM:	19.4000
SPG:	0.7524