



OIL CONS. DIV DIST. 3

JUN 29 2016

30-043-20108

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

Analysis No: CR160001  
Cust No: 19005-10175

**Well/Lease Information**

Customer Name: CROWNQUEST OPERATING  
Well Name: CHACON JICARILLA #PC-4 BHD  
County/State: SANDOVAL NM  
Location:  
Field:  
Formation: PC  
Cust. Stn. No.: 87851-01  
API# 30-043-20108

Source: BRADENHEAD  
Pressure: 0.5 PSIA  
Sample Temp: 95 DEG. F  
Well Flowing: Y  
Date Sampled: 06/16/2016  
Sampled By: TREY TIXIER  
Foreman/Engr.: JEREMY DIVINE

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

**Analysis**

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	17.783	1.9610	0.00	0.1720
CO2	0.094	0.0160	0.00	0.0014
Methane	68.888	11.7070	695.77	0.3816
Ethane	6.084	1.6310	107.67	0.0632
Propane	3.865	1.0670	97.25	0.0588
Iso-Butane	0.899	0.2950	29.23	0.0180
N-Butane	1.017	0.3210	33.18	0.0204
I-Pentane	0.453	0.1660	18.12	0.0113
N-Pentane	0.273	0.0990	10.94	0.0068
Hexane Plus	0.644	0.2880	33.95	0.0213
<b>Total</b>	<b>100.000</b>	<b>17.5510</b>	<b>1026.11</b>	<b>0.7549</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1031.3  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1013.4  
REAL SPECIFIC GRAVITY: 0.7566

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

DRY BTU @ 14.650: 1025.7  
DRY BTU @ 14.696: 1028.9  
DRY BTU @ 14.730: 1031.3  
DRY BTU @ 15.025: 1052.0

CYLINDER #: 7013  
CYLINDER PRESSURE: PSIG  
DATE RUN: 6/21/16 11:24 AM  
ANALYSIS RUN BY: DAWN BLASSINGAME



CROWNQUEST OPERATING  
WELL ANALYSIS COMPARISON

Lease: CHACON JICARILLA #PC-4 BHD  
Stn. No.: 87851-01  
Mtr. No.: API# 30-043-20108

BRADENHEAD  
PC

06/28/2016  
19005-10175

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Smpl Date: 06/16/2016  
Test Date: 06/21/2016  
Run No: CR160001

Nitrogen: 17.783  
CO2: 0.094  
Methane: 68.888  
Ethane: 6.084  
Propane: 3.865  
I-Butane: 0.899  
N-Butane: 1.017  
I-Pentane: 0.453  
N-Pentane: 0.273  
Hexane+: 0.644

BTU: 1031.3  
GPM: 17.5510  
SPG: 0.7566



OIL CONS. DIV DIST. 3

JUN 29 2016

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

Analysis No: CR160002  
Cust No: 19005-10180

**Well/Lease Information**

Customer Name: CROWNQUEST OPERATING  
Well Name: CHACON JICARILLA #PC-4 CSG  
County/State: SANDOVAL NM  
Location:  
Field:  
Formation: PC  
Cust. Str. No.: 87851-01  
API# 30-043-20108

Source: CASING  
Pressure: 65 PSIA  
Sample Temp: 95 DEG. F  
Well Flowing: Y  
Date Sampled: 06/16/2016  
Sampled By: TREY TIXIER  
Foreman/Engr.: JEREMY DIVINE

Remarks:

**Analysis**

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.153	0.1270	0.00	0.0112
CO2	0.102	0.0170	0.00	0.0015
Methane	80.916	13.7650	817.25	0.4482
Ethane	8.172	2.1930	144.62	0.0848
Propane	5.220	1.4430	131.34	0.0795
Iso-Butane	1.242	0.4080	40.39	0.0249
N-Butane	1.398	0.4420	45.61	0.0281
I-Pentane	0.583	0.2140	23.33	0.0145
N-Pentane	0.386	0.1400	15.47	0.0096
Hexane Plus	0.828	0.3710	43.64	0.0274
<b>Total</b>	<b>100.000</b>	<b>19.1200</b>	<b>1261.65</b>	<b>0.7297</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1269.1  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1247.0  
REAL SPECIFIC GRAVITY: 0.7321

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

DRY BTU @ 14.650: 1262.2  
DRY BTU @ 14.696: 1266.2  
DRY BTU @ 14.730: 1269.1  
DRY BTU @ 15.025: 1294.5

CYLINDER #: 4217  
CYLINDER PRESSURE: 69 PSIG  
DATE RUN: 6/21/16 11:27 AM  
ANALYSIS RUN BY: DAWN BLASSINGAME



CROWNQUEST OPERATING  
WELL ANALYSIS COMPARISON

Lease: CHACON JICARILLA #PC-4 CSG CASING 06/28/2016  
Stn. No.: 87851-01 PC 19005-10180  
Mtr. No.: API# 30-043-20108

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Smpl Date: 06/16/2016  
Test Date: 06/21/2016  
Run No: CR160002  
Nitrogen: 1.153  
CO2: 0.102  
Methane: 80.916  
Ethane: 8.172  
Propane: 5.220  
I-Butane: 1.242  
N-Butane: 1.398  
I-Pentane: 0.583  
N-Pentane: 0.386  
Hexane+: 0.828  
BTU: 1269.1  
GPM: 19.1200  
SPG: 0.7321