

OIL CONS. DIV DIST. 3
NOV 14 2016

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NM 87410
(505) 334-6178 FAX: (505) 334-6170
<http://emnr.state.nm.us/ocd/DistrictIII/3distric.htm>

BRADENHEAD TEST REPORT

(Submit 1 copies to above address)

Date of Test May 5, 2016 Operator Encana API #30-0 43-20337
Property Name Federal B Well No. 5 Location: Unit D Section 34 Township 23N Range 7W
Pressure (Shut-In or Producing) Shut in Tubing 356 Intermediate 0 Casing 356 Bradenhead 0.1

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

PRESSURES:

TESTING TIME	BRADENHEAD			INTERMEDIATE	
	BH	INT	CSG	INT	CSG
5 minutes	0.1	0	356	0	356
10 minutes	0.1	0	356	0	356
15 minutes	0.1	0	356	0	356
20 minutes	0.1	0	356	0	356
25 minutes	0.1	0	356	0	356
30 minutes	0.1	0	356	0	356

BRADENHEAD INTERMEDIATE

	FLOWED	FLOWED
Steady Flow	x	
Surges		
Down to Nothing		
Nothing		x
Gas	x	
Gas & Water		
Water		

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN BRADENHEAD 0.1 INTERMEDIATE 0

REMARKS:

Bradenhead flows steady, but will not build pressure.

By Mike Veazey Witness _____
Lease operator
(Position)

4



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

Analysis No: EC160353
Cust No: 25150-11650

Well/Lease Information

Customer Name: ENCANA OIL & GAS
Well Name: FEDERAL B-5; CSG
County/State: SANDOVAL NM
Location: WELLHEAD
Field:
Formation: GALLUP
Cust. Stn. No.:

Source: CASING
Pressure: 356 PSIG
Sample Temp: 71 DEG. F
Well Flowing: N
Date Sampled: 05/05/2016
Sampled By: MIKE VEAZEY
Foreman/Engr.: MIKE COLEY

551573476

30-043-20337

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.806	0.0890	0.00	0.0078
CO2	0.249	0.0430	0.00	0.0038
Methane	78.357	13.3280	791.41	0.4340
Ethane	11.045	2.9640	195.46	0.1147
Propane	6.013	1.6620	151.29	0.0915
Iso-Butane	0.687	0.2260	22.34	0.0138
N-Butane	1.755	0.5550	57.25	0.0352
I-Pentane	0.472	0.1730	18.88	0.0118
N-Pentane	0.474	0.1720	19.00	0.0118
Hexane Plus	0.142	0.0640	7.48	0.0047
Total	100.000	19.2760	1263.13	0.7291

* @ 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): 1270.6

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.5

REAL SPECIFIC GRAVITY: 0.7314

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

DRY BTU @ 14.650: 1263.7

DRY BTU @ 14.696: 1267.7

DRY BTU @ 14.730: 1270.6

DRY BTU @ 15.025: 1296.0

CYLINDER #: 4134

CYLINDER PRESSURE: 350 PSIG

DATE RUN: 5/10/16 8:10 AM

ANALYSIS RUN BY: PATRICIA KING



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

Analysis No: EC160352
Cust No: 25150-11645

Well/Lease Information

Customer Name: ENCANA OIL & GAS
Well Name: FEDERAL B-5; BHD
County/State: SANDOVAL NM
Location: WELLHEAD
Field:
Formation: GALLUP
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 1 PSIG
Sample Temp: 71 DEG. F
Well Flowing: N
Date Sampled: 05/05/2016
Sampled By: MIKE VEAZEY
Foreman/Engr.: MIKE COLEY

551573476

30-043-20337

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	89.007	9.7950	0.00	0.8609
CO2	2.324	0.3970	0.00	0.0353
Methane	8.240	1.3970	83.22	0.0456
Ethane	0.100	0.0270	1.77	0.0010
Propane	0.067	0.0180	1.69	0.0010
Iso-Butane	0.029	0.0090	0.94	0.0006
N-Butane	0.041	0.0130	1.34	0.0008
I-Pentane	0.034	0.0120	1.36	0.0008
N-Pentane	0.034	0.0120	1.36	0.0008
Hexane Plus	0.124	0.0550	6.54	0.0041
Total	100.000	11.7350	98.22	0.9511

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0005

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 98.5

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 96.8

REAL SPECIFIC GRAVITY: 0.9512

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

DRY BTU @ 14.650: 98.0

DRY BTU @ 14.696: 98.3

DRY BTU @ 14.730: 98.5

DRY BTU @ 15.025: 100.5

CYLINDER #: 4192

CYLINDER PRESSURE: PSIG

DATE RUN: 5/10/16 8:08 AM

ANALYSIS RUN BY: JENNIFER DEAN



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

Analysis No: EC160354
Cust No: 25150-11655

Well/Lease Information

Customer Name: ENCANA OIL & GAS
Well Name: FEDERAL B-5; TBG
County/State: SANDOVAL NM
Location: WELLHEAD
Field:
Formation: GALLUP
Cust. Str. No.:

Source: TUBING
Pressure: 356 PSIG
Sample Temp: 71 DEG. F
Well Flowing: N
Date Sampled: 05/05/2016
Sampled By: MIKE VEAZEY
Foreman/Engr.: MIKE COLEY

551573478

30-043-20337

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.803	0.0890	0.00	0.0078
CO2	0.245	0.0420	0.00	0.0037
Methane	78.286	13.3180	790.69	0.4336
Ethane	11.066	2.9700	195.84	0.1149
Propane	6.044	1.6710	152.07	0.0920
Iso-Butane	0.691	0.2270	22.47	0.0139
N-Butane	1.776	0.5620	57.94	0.0356
I-Pentane	0.470	0.1720	18.80	0.0117
N-Pentane	0.482	0.1750	19.32	0.0120
Hexane Plus	0.137	0.0610	7.22	0.0045
Total	100.000	19.2870	1264.36	0.7298

* @ 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): 1271.9

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1249.8

REAL SPECIFIC GRAVITY: 0.7321

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

DRY BTU @ 14.650: 1265.0

DRY BTU @ 14.696: 1269.0

DRY BTU @ 14.730: 1271.9

DRY BTU @ 15.025: 1297.4

CYLINDER #: 6202

CYLINDER PRESSURE: 356 PSIG

DATE RUN: 5/10/16 8:10 AM

ANALYSIS RUN BY: PATRICIA KING