



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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/oed/District%203/district.htm>

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

OIL CONS. DIV DIST. 3

NOV 01 2017

Date of Test 10-31-17 Operator Great Western Drilling API # 30-0045-32351

Property Name Atlantic C Well No. 102 Location: Unit N Section 6 Township 30 Range 10

Well Status (Shut-In or Producing) Initial PSI: Tubing 65 Intermediate 0 Casing 280 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE Bradenhead			INTERM	
	BH	Int	Csg	Int	Csg
5 min	0	0	290	0	280
10 min	0	0	290	0	280
15 min	0	0	290	0	290
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	X
Nothing	
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 PRESSURE

BRADENHEAD 0

INTERMEDIATE 0

REMARKS:

PH Slight blow when opened

T 10 second blow down

By

Colleen Keller

Witness

[Signature]

(Position)

E-mail address _____



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

Analysis No: GW170025
Cust No: 33050-10315

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: ATLANTIC C 102; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: BD
Cust. Stn. No.: API 30-045-32351

Source: TUBING
Well Flowing: Y
Pressure: 75 PSIG
Flow Temp: DEG. F
Ambient Temp: 53 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/20/2017
Sample Time: 8.40 AM
Sampled By: CULLAN
Sampled by (CO): GWDC

OIL CONS. DIV DIST. 3
NOV 07 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1365	0.1330	0.0150	0.00	0.0013
CO2	1.9601	1.9097	0.3350	0.00	0.0298
Methane	93.5293	91.1225	15.8900	944.65	0.5181
Ethane	2.9579	2.8818	0.7930	52.35	0.0307
Propane	0.6594	0.6424	0.1820	16.59	0.0100
Iso-Butane	0.1681	0.1638	0.0550	5.47	0.0034
N-Butane	0.1544	0.1504	0.0490	5.04	0.0031
I-Pentane	0.0886	0.0863	0.0320	3.54	0.0022
N-Pentane	0.0491	0.0478	0.0180	1.97	0.0012
Hexane Plus	0.2966	0.2890	0.1330	15.63	0.0098
Total	100.0000	97.4267	17.5020	1045.23	0.6096

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1047.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1050.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1031.9
DRY BTU @ 15.025: 1071.2
REAL SPECIFIC GRAVITY: 0.6109

CYLINDER #: 4067
CYLINDER PRESSURE: 67 PSIG
DATE RUN: 10/26/17 8:40 AM
ANALYSIS RUN BY: CAMERON MANGAN

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 10/30/2017



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

Analysis No: GW170024
Cust No: 33050-10310

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: ATLANTIC C 102; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: BD
Cust. Stn. No.: API 30-0445-32351

Source: CASING
Well Flowing: Y
Pressure: 160 PSIG
Flow Temp: DEG. F
Ambient Temp: 53 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/20/2017
Sample Time: 8.50 AM
Sampled By: CULLAN
Sampled by (CO): GWDC

OIL CONS. DIV DIST. 3
NOV 07 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1159	0.1137	0.0130	0.00	0.0011
CO2	0.5549	0.5445	0.0950	0.00	0.0084
Methane	94.2789	92.5078	16.0190	952.22	0.5222
Ethane	3.1481	3.0890	0.8440	55.71	0.0327
Propane	0.6723	0.6597	0.1860	16.92	0.0102
Iso-Butane	0.2058	0.2019	0.0670	6.69	0.0041
N-Butane	0.1910	0.1874	0.0600	6.23	0.0038
I-Pentane	0.1638	0.1607	0.0600	6.55	0.0041
N-Pentane	0.0894	0.0877	0.0320	3.58	0.0022
Hexane Plus	0.5799	0.5690	0.2590	30.57	0.0192
Total	100.0000	98.1214	17.6350	1078.47	0.6081

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1081.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1083.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1064.7
DRY BTU @ 15.025: 1105.3
REAL SPECIFIC GRAVITY: 0.6094

CYLINDER #: 4099
CYLINDER PRESSURE: 137 PSIG
DATE RUN: 10/27/17 8:50 AM
ANALYSIS RUN BY: PATRICIA KING

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 10/30/2017

GC Method: C6+ Gas