

XTO ENERGY INC.

Natural Gas Analysis Report SAN JUAN DIVISION

Sample Information

Sample Information		
Sample Name	ARMENTA GC C1R BH	API#: 30-045-32193
TECH	Tim Doering	
GC Serial	GC1008B621	
Operator	XTO	
Report Date	2017-05-03 07:58:31	

Component Results

Component Name	Raw Amount	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	1.6740	1.6555	0.0	0.01601	0.183
Oxygen	0.2620	0.2591	0.0	0.00286	0.023
Methane	87.1320	86.1686	872.3	0.47729	14.646
Carbon Dioxide	0.2960	0.2927	0.0	0.00445	0.050
Ethane	6.6490	6.5755	116.6	0.06827	1.763
Propane	2.8580	2.8264	71.3	0.04303	0.781
I-Butane	0.5010	0.4955	16.2	0.00994	0.163
N-Butane	0.7560	0.7476	24.4	0.01500	0.236
I-Pentane	0.2710	0.2680	10.7	0.00668	0.098
N-Pentane	0.2340	0.2314	9.3	0.00576	0.084
Hexanes	0.3660	0.3620	17.3	0.01077	0.149
Heptanes	0.0000	0.0000	0.0	0.00000	0.000
Octanes	0.0000	0.0000	0.0	0.00000	0.000
Nonanes	0.0000	0.0000	0.0	0.00000	0.000
Hydrogen Sulfide	0.1190	0.1177	0.8	0.00138	0.016
Water	0.0000	0.0000	0.0	0.00000	0.000
Total:	101.1180	100.0000	1138.9	0.66145	18.192

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	10.0	
Flowing Pressure (psia)	50.0	
Gross Heating Value (BTU / Real cu.ft.)	1142.1	1122.7
Relative Density (G), Real	0.6630	0.6626
Compressibility (Z) Factor	0.9972	0.9968
Total GPM	18.192	17.982



NEW MEXICO ENERGY, MINERALS
AND NATURAL RESOURCES DEPARTMENT

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

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 4/17/2017 Operator XTO Energy, Inc. API # 3004532193

Property Name ARMENTA GAS COM C 001R Location: Unit P Section 22 Township 29 Range 10
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 13 Intermediate N/A Casing 35 Bradenhead 64

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate		Bradenhead Flowed	Intermediate Flowed
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor		
5 minutes	0	35	N/A			Steady Flow	
10 minutes	0	35	N/A			Surges	
15 minutes	0	35	N/A			Down to Nothing	X
20 minutes						No Flow	
25 minutes						Gas	X
30 minutes						Gas and Water	
5 minute SI						Water	

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

Clear _____ Fresh _____ Salty _____ Sulfur _____ Black _____

5 Minute Shut-in Bradenhead 0 Intermediate N/A

REMARKS:

Bradenhead had 64 psi, Bkw down to nothing, Ops 5 min S/I

By Mark E. Goodwin
Lease Operator
(Position)

Witness _____



Schematic - Vertical with Perfs **Well Name: Armenta Gas Com C 01R**

API/UVI 30045321930000	Accounting ID 72297	Permit Number	State/Province New Mexico	County San Juan
Location T29N-R10W-S22	Spud Date 8/17/2004 00:00	Original KB Elevation (ft) 5,606.00	Gr Elev (ft) 5,594.00	KB-Ground Distance (ft) 12.00

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
12.1	12.2	1.0	
944.9	944.6	1.8	
955.1	954.7	1.8	Conductor; 17 1/2 in; 955.0 ftKB Conductor; 13 5/8 in; 945.0 ftKB
1,524.9	1,524.0	5.4	
2,299.9	2,279.2	19.0	
2,399.9	2,373.4	20.0	Cement; Remedial Cement Squeeze; 2,400.0 ftKB
4,169.9	4,032.9	22.2	SURFACE; 12 1/4 in; 4,170.0 ftKB
4,372.0	4,221.4	21.0	Surface; 8 5/8 in; 4,170.0 ftKB
4,395.0	4,242.8	20.8	Perforated; 4,372.0-4,395.0 ftKB
4,401.9	4,249.3	20.7	Perforated; 4,402.0-4,491.0 ftKB
4,491.1	4,332.8	20.8	Sand Frac
4,517.1	4,357.0	20.3	Perforated; 4,517.0-4,568.0 ftKB
4,567.9	4,405.0	19.0	
4,608.9	4,443.9	17.9	Perforated; 4,609.0-4,613.0 ftKB
4,612.9	4,447.6	17.7	PROD1; 7 7/8 in; 7,025.0 ftKB
6,550.9	6,371.6	1.0	Perforated; 6,551.0-6,675.0 ftKB
6,625.7	6,448.4	1.0	Sand Frac
6,626.6	6,447.4	1.0	
6,627.0	6,447.7	1.0	
6,674.9	6,495.6	1.0	
6,970.1	6,790.9	1.0	PBTD; 6,970.0 ftKB
7,024.9	6,845.6	1.0	TD - Original Hole; 7,025.0 ftKB Production; 5 1/2 in; 7,025.0 ftKB