XTO ENERGY INC.

Natural Gas Analysis Report
SAN JUAN DIVISION

Sample Information

30-045-23866

	Sample Information
Sample Name	HUMBLE N KIRTLAND 1E BH
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-07-22 09:25:16

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	0.5343	0.0	0.00517	0.059
Oxygen	0.0079	0.0	0.00009	0.001
Methane	80.8674	818.7	0.44792	13.753
Carbon Dioxide	1.3446	0.0	0.02043	0.230
Ethane	9.8536	174.8	0.10230	2.644
Propane	4.3630	110.0	0.06643	1.206
I-Butane	0.6365	20.7	0.01277	0.209
N-Butane	1.0942	35.8	0.02196	0.346
I-Pentane	0.3870	15.5	0.00964	0.142
N-Pentane	0.3811	15.3	0.00949	0.139
Hexanes	0.2927	14.0	0.00871	0.121
Heptanes	0.1935	10.7	0.00669	0.090
Octanes	0.0432	2.7	0.00170	0.022
Nonanes	0.0010	0.1	0.00004	0.001
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0	0.00000	0.000
Total:	100.0000	1218.2	0.71335	18.961

Results Summary

Result	Dry	Sat.
Total Normalzed Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	70.0	
Flowing Pressure (psia)	50.0	
Gross Heating Value (BTU / Real cu.ft.)	1222.4	1201.6
Relative Density (G), Real	0.7155	0.7142
Compressibility (Z) Factor	0.9966	0.9962
Total GPM	18.961	18.738

XTO ENERGY INC.

Natural Gas Analysis Report
SAN JUAN DIVISION

Sample Information

	Sample Information
Sample Name	HUMBLE N KIRTLAND 1E CASING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-07-22 09:31:34

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	0.5206	0.0	0.00504	0.057	
Oxygen	0.0049	0.0	0.00005	0.000	
Methane	81.1798	821.8	0.44965	13.805	
Carbon Dioxide	1.3473	0.0	0.02047	0.231	
Ethane	9.8549	174.8	0.10231	2.644	
Propane	4.3675	110.1	0.06650	1.207	
I-Butane	0.6377	20.8	0.01280	0.209	
N-Butane	1.0894	35.6	0.02186	0.345	
I-Pentane	0.3828	15.4	0.00954	0.140	
N-Pentane	0.3651	14.7	0.00910	0.133	
Hexanes	0.2145	10.2	0.00638	0.088	
Heptanes	0.0305	1.7	0.00106	0.014	
Octanes	0.0020	0.1	0.00008	0.001	
Nonanes	0.0030	0.2	0.00013	0.002	
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000	
Water	0.0000	0.0	0.00000	0.000	
Total:	100.0000	1205.4	0.70496	18.876	

Results Summary

Result	Dry	Sat.	
Total Normalzed Mole%	100.0000	100.0000	
Pressure Base (psia)	14.730		
Flowing Temperature (Deg. F)	70.0		
Flowing Pressure (psia)	50.0		
Gross Heating Value (BTU / Real cu.ft.)	1209.4	1188.9	
Relative Density (G), Real	0.7070	0.7058	
Compressibility (Z) Factor	0.9967	0.9963	
Total GPM	18.876	18.655	

XTO ENERGY INC.

Natural Gas Analysis Report
SAN JUAN DIVISION

Sample Information

	Sample Information
Sample Name	HUMBLE N KIRTLAND 1E TUBING
TECH	Tim Doering
GC Serial	GC1008B621
Report Date	2015-07-22 09:38:13

Component Results

Component Name	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	0.5510	0.0	0.00533	0.061	
Oxygen	0.0049	0.0	0.00005	0.000	
Methane	80.4624	814.6	0.44568	13.685	
Carbon Dioxide	1.3446	0.0	0.02043	0.230	
Ethane	9.9662	176.8	0.10347	2.674	
Propane	4.6231	116.6	0.07039	1.278	
I-Butane	0.6630	21.6	0.01331	0.218	
N-Butane	1.1649	38.1	0.02338	0.368	
I-Pentane	0.3722	14.9	0.00927	0.137	
N-Pentane	0.3664	14.7	0.00913	0.133	
Hexanes	0.2318	11.0	0.00690	0.096	
Heptanes	0.1788	9.9	0.00619	0.083	
Octanes	0.0648	4.1	0.00256	0.033	
Nonanes	0.0059	0.4	0.00026	0.003	
Hydrogen Sulfide	0.0000	0.0	0.00000	0.000	
Water	0.0000	0.0	0.00000	0.000	
Total:	100.0000	1222.7	0.71633	18.999	

Results Summary

Result	Dry	Sat.	
Total Normalzed Mole%	100.0000	100.0000	
Pressure Base (psia)	14.730		
Flowing Temperature (Deg. F)	70.0		
Flowing Pressure (psia)	210.0		
Gross Heating Value (BTU / Real cu.ft.)	1226.9	1206.0	
Relative Density (G), Real	0.7185	0.7172	
Compressibility (Z) Factor	0.9966	0.9961	
Total GPM	18.999	18.775	

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://emnrd.state.nm.us/ocd/District III/3district.htm

OIL CONS. DIV DIST. 3

AUG 03 2015

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 7/20/15 Operator XTO Energy API #30-0 45233866

Property Name Humble N Kirtland Well No. 1E Location: Unit J Section 13 Township 30N Range 14W

Well Status(Shut-In or (Producing)) Initial PSI: Tubing 195 Intermediate N/A Casing 198 Bradenhead 170

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

PRESSURE

Testing	Bradenhead		INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min			200		
10 min			202		
15 min			205		
20 min			208		
25 min			210		
30 min			212		

FLOW CHARACTERISTICS

	BRADENHEAD	INTERMEDIATE
Steady Flow	✓	
Surges		
Down to Nothing		
Nothing		
Gas	✓	
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 80 INTERMEDIATE_____

REMARKS: Gas analysis taken on 7/22/15, NMOCD will witness New Test on 7/30/15

By Ken Durham

Witness_____

Sr Production Foreman
(Position)

E-mail address _____