XTO ENERGY INC.

Natural Gas Analysis Report
SAN JUAN DIVISION

30-045-32592

Sample Information

	Sample Information
Sample Name	STANOLIND GC B4 BH
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-09-08 08:42:03

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	0.9840	0.9705	0.0	0.00939	0.107
Oxygen	0.0090	0.0089	0.0	0.00010	0.001
Methane	84.4470	83.2926	843.2	0.46136	14.161
Carbon Dioxide	0.1450	0.1430	0.0	0.00217	0.024
Ethane	9.3210	9.1936	163.1	0.09545	2.466
Propane	4.4220	4.3615	110.0	0.06640	1.205
I-Butane	0.4080	0.4024	13.1	0.00808	0.132
N-Butane	1.0030	0.9893	32.3	0.01985	0.313
I-Pentane	0.2280	0.2249	9.0	0.00560	0.082
N-Pentane	0.2130	0.2101	8.4	0.00523	0.076
Hexanes	0.2060	0.2032	9.7	0.00605	0.084
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	0.0000	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0000	0.0	0.00000	0.000
Total:	101.3860	100.0000	1188.9	0.67968	18.651

Results Summary

Result	Dry	Sat.
Total Normalzed Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	69.0	
Flowing Pressure (psia)	5.0	
Gross Heating Value (BTU / Real cu.ft.)	1192.6	1172.3
Relative Density (G), Real	0.6815	0.6808
Compressibility (Z) Factor	0.9969	0.9965
Total GPM	18.651	18.434

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 9-7-17 **Operator** XTO Energy, Inc. **API #** 3004532592

Property Nam STANOLIND GAS COM B 004 **Location:** Unit K Section 9 Township 32 Range 12

(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 23 Intermediate 7 Casing 24 Bradenhead 38

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate	
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor
5 minutes	0	28	7	0	28
10 minutes	0	28	7	0	28
15 minutes	0	28	7	0	28
20 minutes					
25 minutes					
30 minutes					
5 minute SI					

	Bradenhead Flowed	Intermediate Flowed
Steady Flow		
Surges		
Down to Nothing	X	X
No Flow		
Gas	X	X
Gas and 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 Intermediate 0

REMARKS: Gas sample taken

By Russ Mann **Witness** _____

Lease Operator

(Position)

NMOCD Test Area: A 1

XTO ENERGY INC.

Natural Gas Analysis Report
SAN JUAN DIVISION

30-045-32592

Sample Information

	Sample Information
Sample Name	STANOLIND GC B4 CASEING
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-09-08 08:35:46

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	0.3120	0.3040	0.0	0.00294	0.034
Oxygen	0.0020	0.0019	0.0	0.00002	0.000
Methane	81.6310	79.5370	805.2	0.44056	13.530
Carbon Dioxide	0.8650	0.8428	0.0	0.01281	0.144
Ethane	11.0140	10.7314	190.4	0.11141	2.880
Propane	4.7820	4.6593	117.5	0.07094	1.288
I-Butane	0.7550	0.7356	24.0	0.01476	0.242
N-Butane	1.5900	1.5492	50.7	0.03109	0.490
I-Pentane	0.5860	0.5710	22.9	0.01422	0.210
N-Pentane	0.5050	0.4920	19.8	0.01226	0.179
Hexanes	0.5910	0.5758	27.4	0.01713	0.238
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	0.0000	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0000	0.0	0.00000	0.000
Total:	102.6330	100.0000	1257.8	0.72814	19.233

Results Summary

Result	Dry	Sat.
Total Normalzed Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	69.0	
Flowing Pressure (psia)	29.0	
Gross Heating Value (BTU / Real cu.ft.)	1262.4	1240.9
Relative Density (G), Real	0.7305	0.7289
Compressibility (Z) Factor	0.9964	0.9960
Total GPM	19.233	19.006

XTO ENERGY INC.

Natural Gas Analysis Report
SAN JUAN DIVISION

Sample Information

	Sample Information
Sample Name	SANOLIND GC B4 INT
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-09-08 08:46:39

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	1.0790	1.0525	0.0	0.01018	0.116
Oxygen	0.1370	0.1336	0.0	0.00148	0.012
Methane	88.3790	86.2067	872.7	0.47750	14.654
Carbon Dioxide	0.1500	0.1463	0.0	0.00222	0.025
Ethane	6.3270	6.1715	109.5	0.06407	1.655
Propane	3.9050	3.8090	96.1	0.05799	1.052
I-Butane	0.8020	0.7823	25.5	0.01570	0.257
N-Butane	1.0520	1.0261	33.6	0.02059	0.324
I-Pentane	0.3080	0.3004	12.0	0.00748	0.110
N-Pentane	0.2200	0.2146	8.6	0.00535	0.078
Hexanes	0.1610	0.1570	7.5	0.00467	0.065
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	0.0000	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0000	0.0	0.00000	0.000
Total:	102.5200	100.0000	1165.4	0.66723	18.348

Results Summary

Result	Dry	Sat.
Total Normalzed Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	69.0	
Flowing Pressure (psia)	5.0	
Gross Heating Value (BTU / Real cu.ft.)	1168.9	1149.0
Relative Density (G), Real	0.6689	0.6684
Compressibility (Z) Factor	0.9971	0.9967
Total GPM	18.348	18.135

XTO ENERGY INC.

Natural Gas Analysis Report
SAN JUAN DIVISION

Sample Information

	Sample Information
Sample Name	STANOLING GC B4 TUBING
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-09-08 08:37:16

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	0.3170	0.3075	0.0	0.00297	0.034
Oxygen	0.0060	0.0058	0.0	0.00006	0.001
Methane	82.6080	80.1303	811.2	0.44384	13.628
Carbon Dioxide	0.9200	0.8924	0.0	0.01356	0.153
Ethane	11.2110	10.8748	192.9	0.11290	2.918
Propane	4.7380	4.5959	115.9	0.06997	1.270
I-Butane	0.7030	0.6819	22.2	0.01368	0.224
N-Butane	1.4050	1.3629	44.6	0.02735	0.431
I-Pentane	0.4600	0.4462	17.9	0.01112	0.164
N-Pentane	0.3740	0.3628	14.6	0.00904	0.132
Hexanes	0.3500	0.3395	16.2	0.01010	0.140
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	0.0000	0.0000	0.0	0.00000	0.000
Water	0.0000	0.0000	0.0	0.00000	0.000
Total:	103.0920	100.0000	1235.4	0.71460	19.094

Results Summary

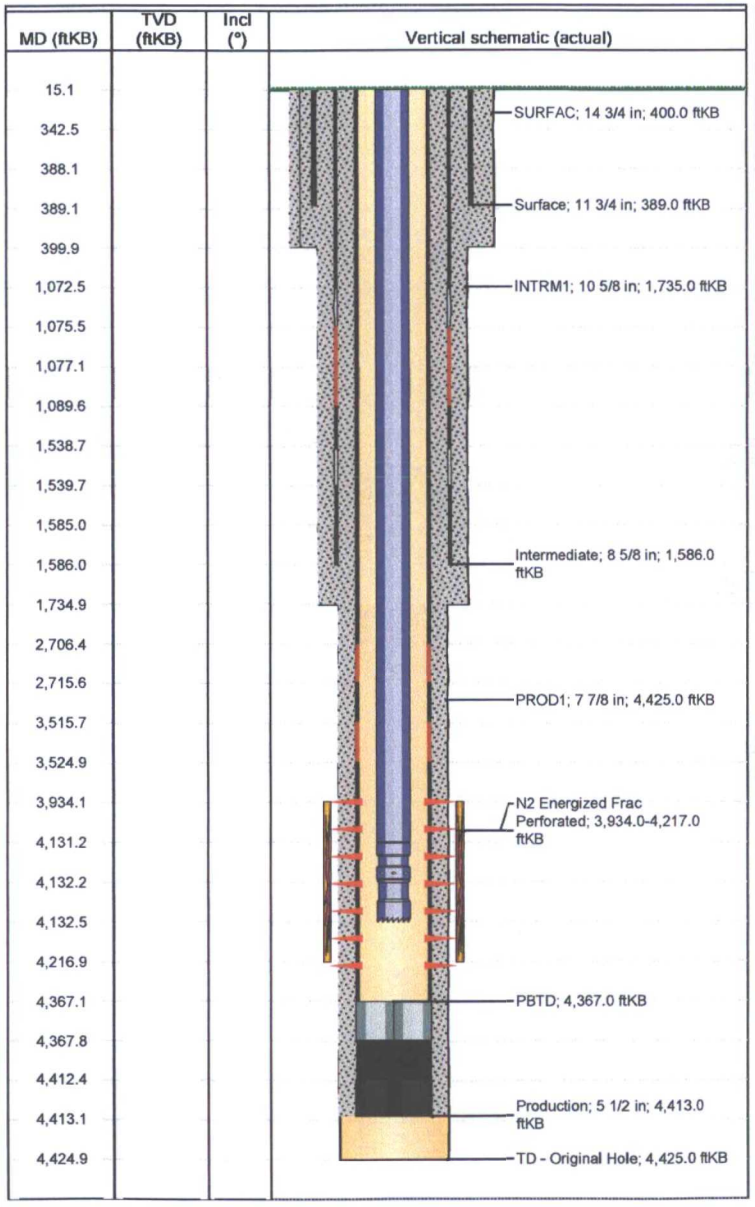
Result	Dry	Sat.
Total Normalzed Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	69.0	
Flowing Pressure (psia)	25.0	
Gross Heating Value (BTU / Real cu.ft.)	1239.7	1218.6
Relative Density (G), Real	0.7168	0.7155
Compressibility (Z) Factor	0.9965	0.9961
Total GPM	19.094	18.869

Downhole Well Profile - with Schematic

Well Name: Stanolind Gas Com B 04

API/UWI	Accounting ID	Permit Number	State/Province	County
30045325920000	68759		New Mexico	San Juan

Location	Spud Date	Original KB Elevation (ft)	Gr Elev (ft)	KB-Ground Distance (ft)	Casing Flange Elevation (ft)
T32N-R12W-S09	8/1/2007 13:00	6,131.00	6,116.00	15.00	



Wellbores

Wellbore Name	Parent Wellbore	Wellbore API/UWI
Original Hole	Original Hole	

Start Depth (ftKB)	Profile Type	Kick Off Depth (MD) (ftKB)

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFAC	14 3/4	15.0	400.0
INTRM1	10 5/8	400.0	1,735.0
PROD1	7 7/8	1,735.0	4,425.0

Zones

Zone Name	Top (ftKB)	Btm (ftKB)	Current Status
Mesaverde	3,934.0	4,217.0	

Casing Strings

Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Surface	389.0	11 3/4	42.00	H-40
Intermediate	1,586.0	8 5/8	24.00	J-55
Production	4,413.0	5 1/2	15.50	J-55

Cement

Des	Type	String
Surface Casing Cement	Casing	Surface, 389.0ftKB
Intermediate Casing Cement	Casing	Intermediate, 1,586.0ftKB
Production Casing Cement	Casing	Production, 4,413.0ftKB

Tubing Strings

Tubing Description	Run Date	Set Depth (ftKB)
Tubing - Production	10/12/2007	4,132.6

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	2 3/8	4.70	J-55	125	4,116.08	15.0	4,131.1
Seat Nipple	2 3/8			1	1.10	4,131.1	4,132.2
Notched Collar	2 3/8			1	0.43	4,132.2	4,132.6

Rod Strings

Rod Description	Run Date	Set Depth (ftKB)

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)

Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)

Perforations

Date	Top (ftKB)	Btm (ftKB)	Zone
9/19/2007	3,934.0	4,217.0	Mesaverde, Original Hole

Stimulations & Treatments

Frac #	Top Perf (ftKB)	Bottom Perf (ftKB)	AIR (bbl/min)	MIR (bbl/min)	TWP (bbl)	Total Proppant (lb)
	3934	4217				