

Natural Gas Analysis Report SAN JUAN DIVISION

OIL CONS. DIV DIST. 3
NOV 03 2017

Sample Information

Sample Information	
Sample Name	OHIO F GOVT 1C CASING API #: 30-045 30121
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-10-23 10:10:42

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	0.3190	0.3109	0.0	0.00301	0.034
Oxygen	0.0070	0.0068	0.0	0.00008	0.001
Methane	80.7790	78.7227	796.9	0.43605	13.393
Carbon Dioxide	0.6260	0.6101	0.0	0.00927	0.104
Ethane	9.9990	9.7445	172.8	0.10117	2.615
Propane	6.5500	6.3833	161.0	0.09719	1.765
I-Butane	1.3590	1.3244	43.2	0.02658	0.435
N-Butane	1.5960	1.5554	50.9	0.03121	0.492
I-Pentane	0.5560	0.5418	21.7	0.01350	0.199
N-Pentane	0.4120	0.4015	16.1	0.01000	0.146
Hexanes	0.4090	0.3986	19.0	0.01186	0.164
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:	102.6120	100.0000	1281.7	0.73990	19.349

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	41.0	
Flowing Pressure (psia)	15.0	
Gross Heating Value (BTU / Real cu.ft.)	1286.5	1264.6
Relative Density (G), Real	0.7424	0.7406
Compressibility (Z) Factor	0.9962	0.9958
Total GPM	19.349	19.120

Natural Gas Analysis Report SAN JUAN DIVISION

OIL CONS. DIV DIST. 3

NOV 03 2017

Sample Information

Sample Information	
Sample Name	OHIO F GOVT 1C TUBING API#: 30-045-30121
TECH	Tim Doering
GC Serial	GC1008B621
Operator	XTO
Report Date	2017-10-23 10:06:33

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	0.3150	0.3079	0.0	0.00298	0.034
Oxygen	0.0070	0.0068	0.0	0.00008	0.001
Methane	80.7280	78.8959	798.7	0.43700	13.422
Carbon Dioxide	0.6090	0.5952	0.0	0.00904	0.102
Ethane	9.9520	9.7262	172.5	0.10098	2.610
Propane	6.3760	6.2313	157.1	0.09487	1.723
I-Butane	1.3550	1.3243	43.2	0.02658	0.435
N-Butane	1.5940	1.5578	50.9	0.03126	0.493
I-Pentane	0.5520	0.5395	21.6	0.01344	0.198
N-Pentane	0.4090	0.3997	16.1	0.00996	0.145
Hexanes	0.4250	0.4154	19.8	0.01236	0.171
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:	102.3220	100.0000	1280.0	0.73854	19.334

Results Summary

Result	Dry	Sat.
Total Normalized Mole%	100.0000	100.0000
Pressure Base (psia)	14.730	
Flowing Temperature (Deg. F)	45.0	
Flowing Pressure (psia)	15.0	
Gross Heating Value (BTU / Real cu.ft.)	1284.8	1262.9
Relative Density (G), Real	0.7410	0.7393
Compressibility (Z) Factor	0.9963	0.9958
Total GPM	19.334	19.105