

**From:** John Stamatov (US - Advisory) <john.r.stamatov@pwc.com>  
**Sent:** Tuesday, May 24, 2016 1:11 PM  
**To:** John St.Hilaire  
**Subject:** Compaction Test Results - Rocky Ridge  
**Attachments:** 15303 Compaction.pdf

John,

See attached. Line items 10-12 are for Rocky Ridge (all above 90%).

VELCO (Peter Lind) has received all compaction test results to date.

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John R. Stamatov  
PwC Capital Projects & Infrastructure  
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**KNIGHT CONSULTING ENGINEERS, INC.**  
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**WILLISTON, VT 05495**

**FIELD COMPACTION REPORT**

For Vermont Gas Systems Project Vermont Gas Testing KCE # 15303

Test No.	Date Tested	Location	Elevation	Soil Description	In-Place Dry Density (pcf)	Moisture Content (%)	Maximum Dry Density (pcf)	Optimum Moisture %	Percent Compaction %	Intl
1	09-18-15	Compaction Fill Over Gas Line – STA. 158+60	Finish Grade ±	Site Material – Thru Shaker Bucket (1½” Minus Silty Gravel)	114.1	7.0	136.4	7.1	83.7	pr
2	09-18-15	Compaction Fill Over Gas Line – STA. 158+65	18”± Below Finish Grade	Site Material – Thru Shaker Bucket (1½” Minus Silty Gravel)	113.8	5.7	136.4	7.1	83.4	pr
3	10-15-15	VELCO – Entrance Gate	6” Below Finish Grade	Site Material – Thru Shaker Bucket (1½” Minus Silty Gravel)	134.4	4.6	136.4	7.1	96.9	bjl
4	10-15-15	Center of Overhead Lines	2” Below Finish Grade	Site Material – Thru Shaker Bucket (1½” Minus Silty Gravel)	138.1	138.1	136.4	7.1	100+	bjl
5	10-15-15	Left Hand Edge VELCO Row	2” Below Finish Grade	Site Material – Thru Shaker Bucket (1½” Minus Silty Gravel)	136.0	136.0	136.4	7.1	99.7	bjl
6	10-19-15	VELCO Redmond Road – STA. 456+20	1’± Below Top of Soil	Redmond Road Native Backfill	106.1	22.7	127.1	9.7	①②83.5	kp
7	10-19-15	VELCO Redmond Road – STA. 456+60	1’± Below Top of Soil	Redmond Road Native Backfill	105.0	18.0	127.1	9.7	①②82.6	kp
8	10-19-15	VELCO Redmond Road – STA. 456+97	1’± Below Top of Soil	Redmond Road Native Backfill	109.7	19.6	127.1	9.7	①②86.3	kp
9	04-15-16	Fill Over Gas Line , 75’ South of Power Line	Finish Gravel	Crushed Run Gravel	115.5	7.3	136.9	9.3	③84.4	pr
10	04-15-16	Retest of #9	Finish Gravel	Crushed Run Gravel	124.7	6.0	136.9	9.3	91.1	pr
11	04-18-16	Under Power Line	Finish Gravel	Crushed Run Gravel	124.9	3.2	136.9	9.3	91.2	bjl
12	04-18-16	75’ North of Power Line	Finish Gravel	Crushed Run Gravel	127.6	4.0	136.9	9.3	93.2	bjl

**Distribution List:** Vermont Gas – Lesli Nichols; Wilson Consulting Engineers – Joey Wilson; Pricewaterhousecoopers – John Stamatov & Efrain Mazariegos

**Remarks:** ①90% Minimum compaction effort required.

②Contractor to further compact areas for retesting.

③Contractor further compacted area with larger plate compactor. Two trips to site due to retesting.

Submitted by:

  
 Brian J. Lyman/nmv