

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.

--

John R. Stamatov
PwC Capital Projects & Infrastructure
774-262-9290

The information transmitted, including any attachments, is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited, and all liability arising therefrom is disclaimed. If you received this in error, please contact the sender and delete the material from any computer. PricewaterhouseCoopers LLP is a Delaware limited liability partnership. This communication may come from PricewaterhouseCoopers LLP or one of its subsidiaries.

KNIGHT CONSULTING ENGINEERS, INC.
51 KNIGHT LANE
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 %	Int'l
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
 Brian J. Lyman/nmv