



CANNON INDUSTRIES, INC.

Comparative Drilling Results Cannon CVR-460 Rock Drill

Situation: Tennessee Limestone
Bit Diameter: 3-1/2 inches
Steel Length: 12 ft
Hole Depth: 30 ft.

	Cannon CVR-460	I-R VL-140
First 10 ft.	2:22 min/10ths	3:00 min/10ths
Second 10 ft.	3:13	4:35
Final 10 ft.	2:67	3:74
Total	8:02	11:09

Average Rate	3.75 ft/min	2.70 ft/min
Air Consumption	665 cfm @ 100 psi	715 cfm @ 100 psi

Situation: Quebec Granite — Construction
Bit Diameter: 4 inches
Steel Length: 12 ft
Hole Depth: 10.5 ft. rock with 2 ft. of overburden

	Cannon CVR-460	Joy VCR-361
Overall Rate	3.1 ft/min	3.4 ft/min
Air Consumption	615 cfm	860 cfm

Note: The VCR-361 is a different class drill.

**Comparative Drilling Results
Cannon CVR-460 Rock Drill**

**Situation: New Hampshire Granite
Bit Diameter: 3-1/2 inches
Steel Length: 12 ft.
Hole Depth: 11 ft.**

Hole Number	Cannon CVR-460	Joy VCR-360
1	2:58 min/sec	3:41 min/sec
2	2:20	3:44
3	2:59	3:37
4	2:26	3:10
5	2:20	3:06
6	1:59	3:49
7	1:56	2:34
8	2:28	3:17
9	2:45	3:19
10	3:14	3:35
11	2:58	2:56
12	2:34	2:51
13	2:18	3:25
Total	33:15	43:04

Average Rate	4.3 ft/min	3.3 ft/min
Air Consumption	665 cfm @ 100 psi	715 cfm @ 100 psi

Note: The above results were obtained using the same air track drill alternately mounting both drills, the same air compressor and the same operator. Both drills were new and following the test the Cannon drill was purchased.

Comparative Drilling Results

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	Cannon CVR-460	I-R VL-140
First 10 ft.	2:22 min/10ths	3:00 min/10ths
Second 10 ft.	3:13	4:35
Final 10 ft.	2:67	3:74
Total	8.02	11.09

Average Rate	3.74 ft/min	2.70 ft/min
Air Consumption	665 cfm @ 100 psi	715 cfm @ 100 psi

Situation: Quebec Granite - Construction
Bit Diameter: 4 inches
Steel Length: 12 ft.
Hole Depth: 10.5 ft. rock with 2 ft. of overburden

	Cannon CVR-460	Joy VCR-361
Overall Rate	3.1 ft/min	3.4 ft/min
Air Consumption	615 cfm	860 cfm

Note: The VCR-361 is a different class drill.