HARDNESS AND (ESTIMATED) COMPRESSIVE STRENGTH INDEX OF THE ROCK (HCSI) - The HCSI of the rock will be indicated by a number (0 through 6). The HCSI number will be recorded for each change in bedrock hardness. The determination of this number will be in accordance with the following table:

HARDNESS AND (ESTIMATED)
UNCONFINED COMPRESSIVE
STRENGTH INDEX (HCSI)

INDEX	**HARDNESS**	**FIELD IDENTIFICATION**	**TONS/FT^2**	**psi**
0	Extremely Soft Rock	Indented by Thumb Nail	2.0-7.0	28-100
1	Very Soft Rock	Crumble under firm blows with point of geological pick. Can be peeled by a pocket knife.	7.0-70	100-1000
2	Soft Rock	Can be peeled by a pocket knife with difficulty. Shallow indentations made by firm blow with point of geological hammer.	70-280	1000-4000
3	Medium hard Rock	Cannot be scraped or peeled with a pocket knife. Specimen can be fractured with single firm blow of hammer end of geological pick.	280-560	4000-8000
4	Hard Rock	Specimen requires more than one blow with hammer end of geological pick to fracture it.	560-1120	8000-16,000
5	Very Hard Rock	Specimen requires many blows of hammer end of geological pick to fracture it.	1120-2240	16,000-32,000
6	Extremely Hard Rock	Specimen can only be chipped with point of geological hammer.	Over 2240	Over 32,000