

DATE: January 26 & 27, 1999

ROCK BOLT TYPE: Skema Friction Stabilizers

IN ATTENDANCE: Bill Quesnel, Len Leblanc - **PHQ**

Eric Nelson **Consultant**

Mark Poulin, Doug Luhta, Mike Mooney - **NORCAT**

PURPOSE Installation, pull test and removal of Skema split tube assemblies.

LOCATION NORCAT Underground Centre, Onaping, Ontario

Test #	Bolt Diam.	Bolt Length	Bit Diam.	Pull Test Results
1	1.335"	6ft.	1.280"	6.5tons (ss-33 equivalent)
2	1.337"	6ft.	1.280"	9.5 tons (ss33 equivalent)
3	1.335"	6ft.	1.280"	6.0 tons (ss-33 equivalent)
4	1.555"	6ft.	1.364"	8.0 tons (ss-39 equivalent)
5	1.560"	6ft.	1.364"	11.0 tons (ss-39 equivalent)

1. Holes were drilled by jackleg (115 psi drill pressure). Installation of split set tubes was also by jackleg using generic style driver tool. This caused some flaring of ring ends & loss of impact energy.
2. Pull tests were conducted using Enerpac RCH 302 center hole jack and claw style pull assembly. *Instructions Hydraulic Rock Bolt Tester PDF*
3. Tubes #1 & #5 were marked & removed for NORCAT corrosion testing