CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Michael A. Johnson	
	22345
Project Title	
Lubrication: Performance under Pressure	()
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Objectives/Goals Abstract	
Through my project I wanted to find the lubricantthat would withstand the mos	amount of pressure and
produce the least amount wear on a rod and pipe assembly.	\bigcirc
Six steel rods of the same length were fitted into six steel pipes of the correspondence	diag diameter. Each of
these rods was with one of the test lubricants. The rod with the lubricant was	prated within the pipe at
Increasing amounts of pressure were then added to each rod and pipe assembly.	, the trial was over.
Results	
The rod and pipe assembly that was applied with the graphite lubricant was able longest amount of time without locking up the drill. It also was one of the lubric	e to be rotated for the icants that produced the
least amount of wear.	leants that produced the
Conclusions/Discussion	high anode and in
extreme pressure conditions.	l nigh speeds and m
\square	
Summary Statement	
This project is testing various lubricants under different amounts of pressure.	
Help Received	
My father helped me obtain the rod and pipe assembly and he operated the drill	