## PHQ36IR Drill Speeds

Steel

Diameter

Bit

Diameter

Bit

Diameter

Summary of Results

Bit Description

Number

Rods

Drilled

Steel

Diameter

**Drill Rod** 

Length

**Penetration Penetration** 

per Minute per Minute

Av Inches

Av Meters

T38 Retrac Button Bit	64 mm	2.5 inch	1.50 inch	38 mm	53	1.22 m	0.59	23.2
T38 Regular Button Bit	64mm	2.5 inch	1.50 inch	38 mm	44	1.22 m	0.62	24.5
T38 Retrac Button Bit - bad regrind	64 mm	2.5 inch	1.50 inch	38 mm	24	1.22 m	0.47	18.5
T45 Retrac Button Bit	76 mm	3.0 inch	1.75 inch	45 mm	111	1.22 m	0.65	25.8
T45 Retrac Button Bit (new)	89 mm	3.5 inch	1.75 inch	45 mm	24	1.22 m	0.31	12.3
NOTE:								
Drilling speed tests were conducted by <u>Taurus Drilling</u> using a <u>PHQ36IR Independent Rotation Drill</u> mounted on a <u>MKV Four</u>								
Foot Feed Assembly with a PHQ15001H Heavy Duty Centralizer with inline F61 Lubricator and operated by a PHQ21001								
Remote Control Panel. The Long Hole Drill Assembly was mounted on a Taurus Drill Carrier drilling underground in medium to								
hard rock conditions. Each drill rod was timed as it was added into the drill string in the process of drilling 30 to 100 foot holes								
and the total of the drilling times for all the rods was added up and averaged by the number of rods used. It will be noted that a								
larger diameter drill rod (45mm as opposed to 38mm) will provide much better penetration rates even for a larger diameter bit.								
This is a result of better transmission of blo				•		_		
shank down through the many joints in the drill string to the face of the bit in the hole.								
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