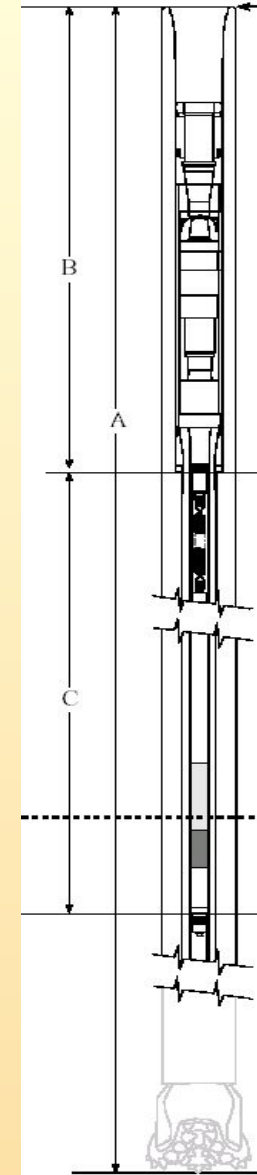
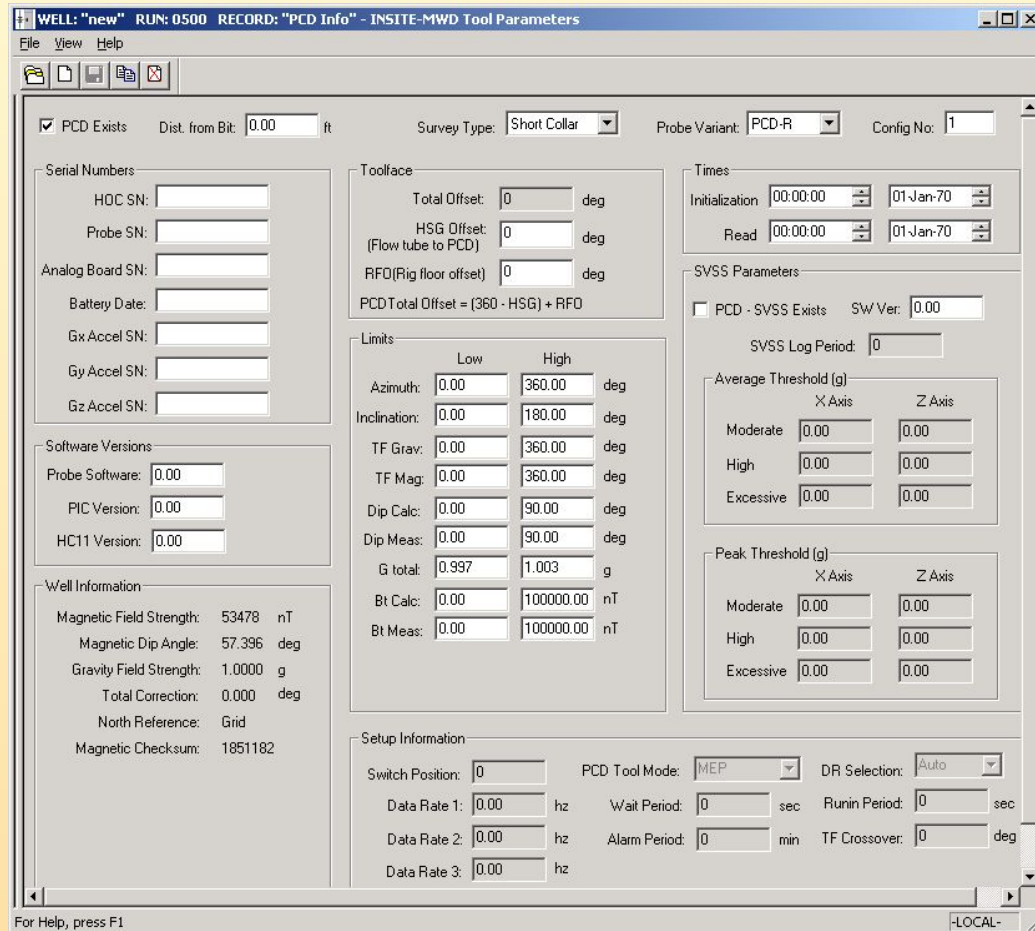


LWD 1

Sensor to Bit Calculations

Calculating and Using Sensor to Bit Distance



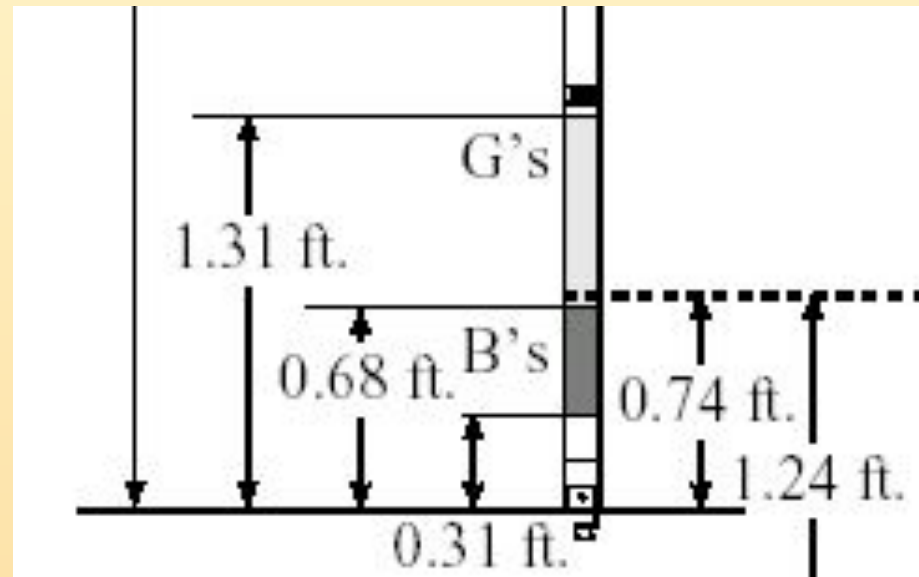
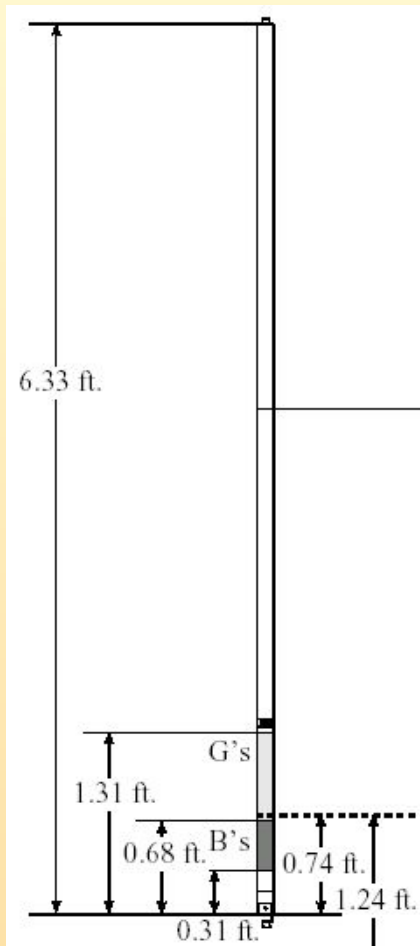
Sensor Measure Point

- **Used to calculate sensor to bit distance**
- **Surveys referenced to where measurements made, not to bit**
- **Gamma referenced to where measurements made, not to bit**

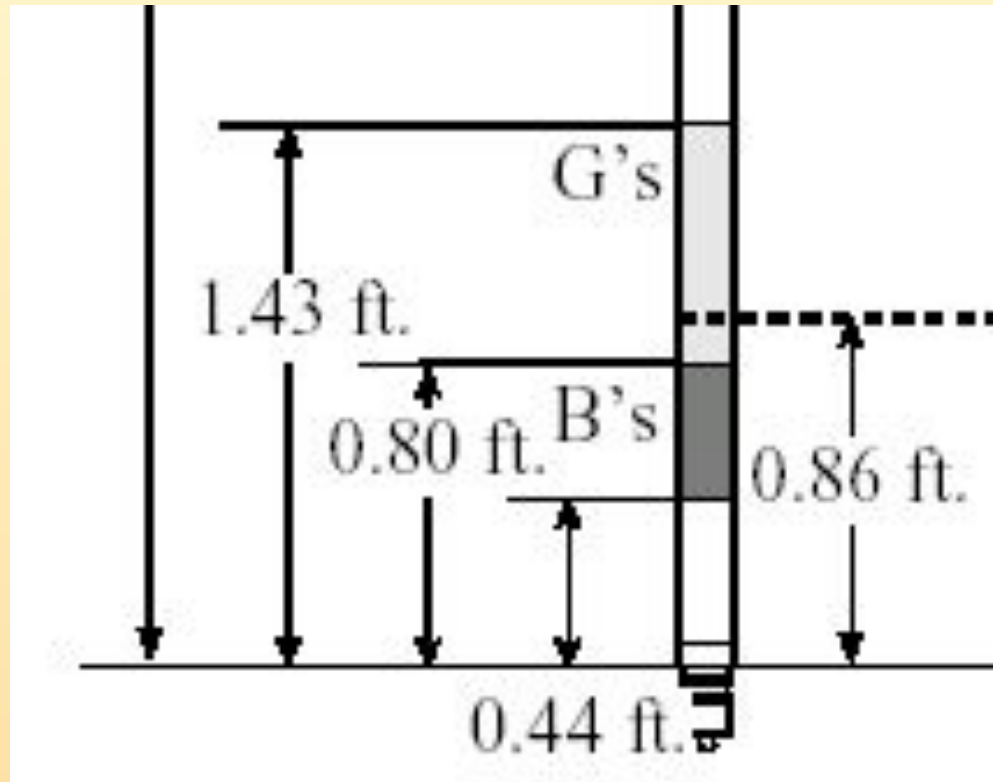
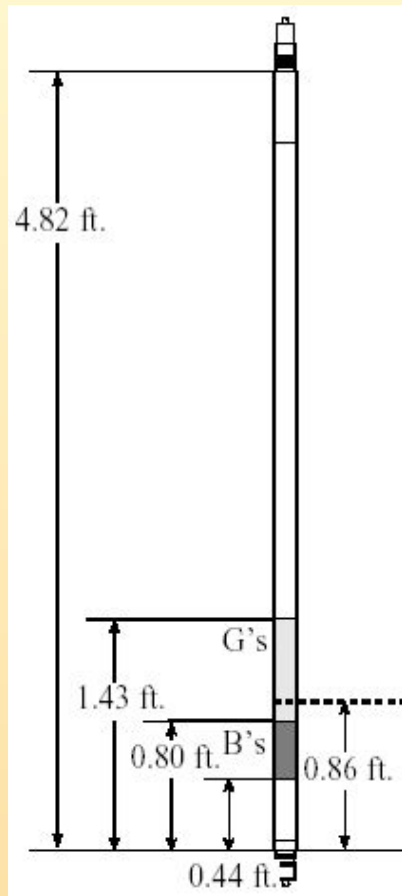
Identify Sensor and Probe Type

- **Directional Only**
 - DEP, DEP2, PCD
- **Gamma**
 - PCG

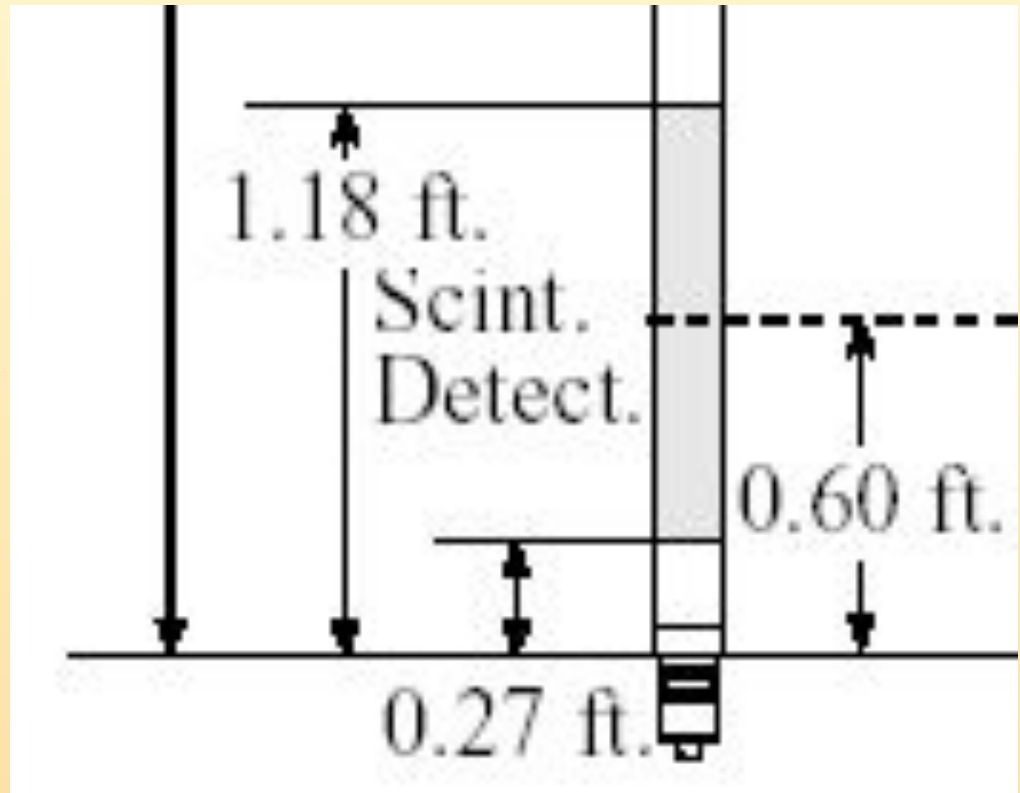
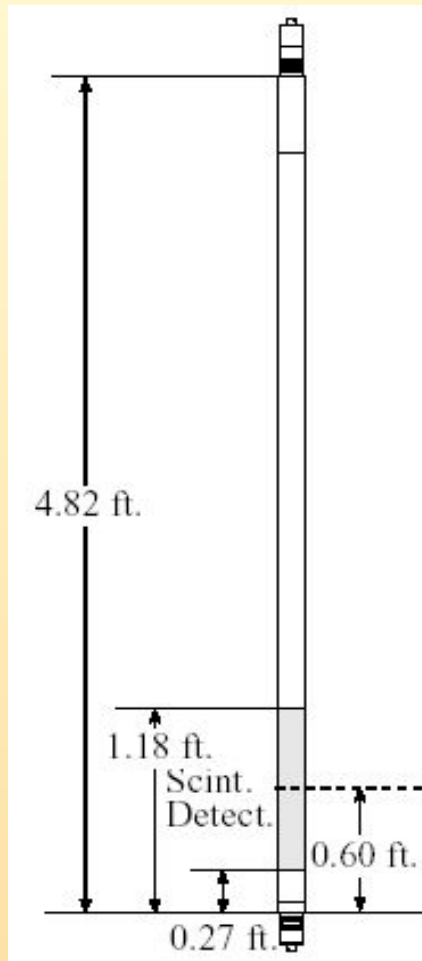
Sensor Measure Point – DEP2



Sensor Measure Point - PCD



Sensor Measure Point - PCG



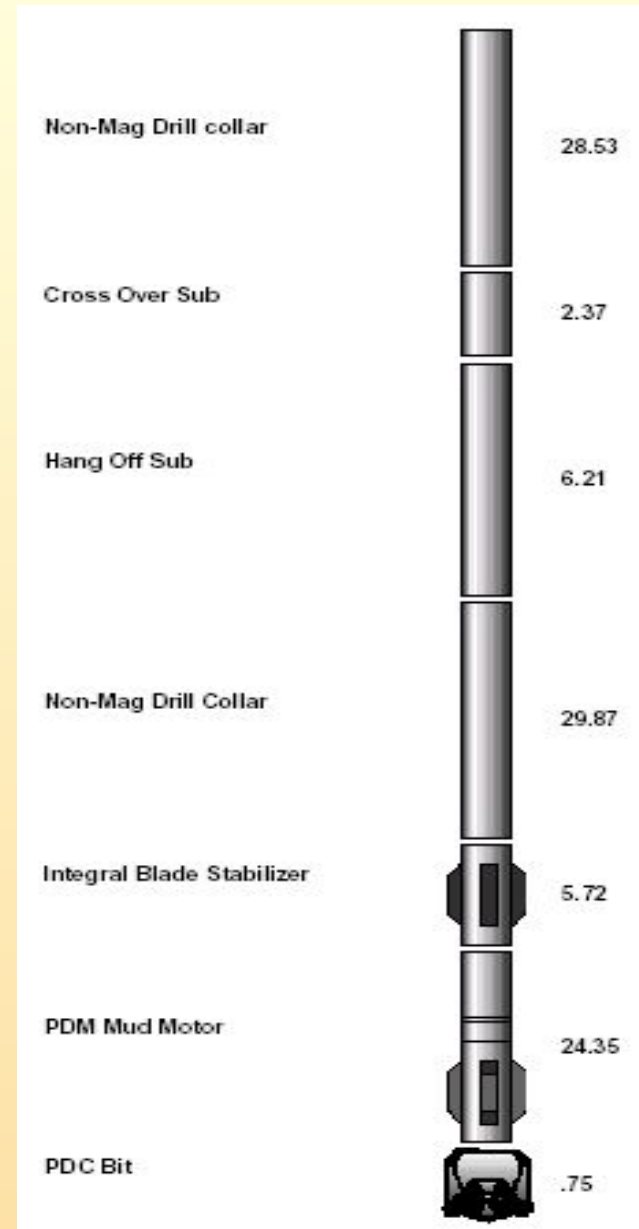
Bottom Ring to Probe Bottom Distance

- **Measure the distance from the Bottom Ring Assembly to the bottom of the probe.**

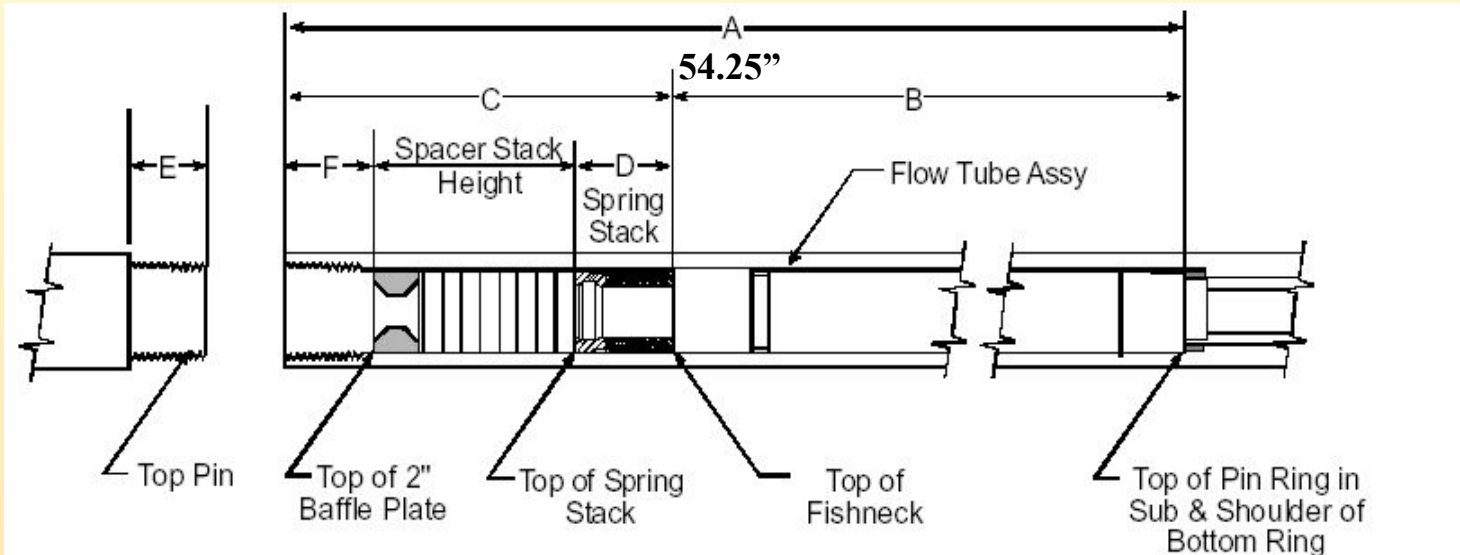
(6.3')

Obtain BHA Tally

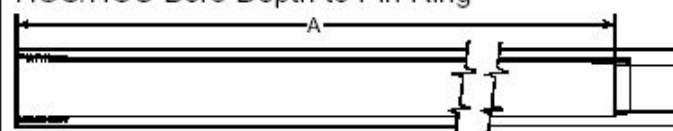
Bit	8 1/2"	0.75'
Motor	6 3/4"	24.35'
Stabilizer	6 3/4"	5.72'
NMDC	6 3/4"	29.87'
HOS	6 3/4"	6.21'
X-over sub	6 3/4"	2.37'
NMCD	6 3/4"	28.53'



Obtain Bore Depth from Spacer Stack Calculations

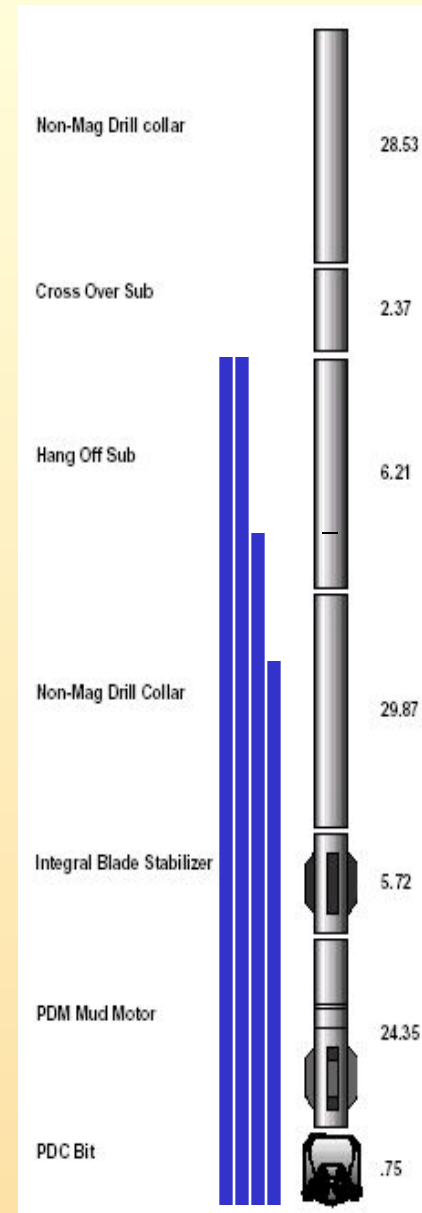


Note: Measure the spring stack length while taking up slack in disk springs by hand. All measurements in inches.

		Slimhole	650 System	1200 System
MWD Run No.				
HOS/HOC Serial No.				
HOS/HOC Bore Depth to Pin Ring				
	A		54.25"	

Calculations

- Add lengths from bit to top of MWD mounting sub or collar
66.9'
- Subtract HOS Bore Depth
62.38'
- Subtract distance from bottom ring to bottom of probe
56.08'
- Add sensor measure point (PCD)
56.94'



Enter Distance in Tool Parameters

