## ANNULAR PRESSURE WHILE DRILLING SPECIFICATIONS



## OilField Guidance Inc.

OilField Guidance Inc. Annular-Pressure-While-Drilling (APWD) sensor increases drilling efficiency by providing real-time down hole annular pressure information that allows the driller to make faster and better decisions.

Annular pressure increases often indicate poor hole cleaning which can lead to lost circulation. With APWD measurements this situation can be detected early and drilling fluid parameters and operating parameters can be adjusted to improve hole cleaning. On extended reach wells, real time information helps to maintain wellbore pressures between safe operating limits as well as monitor hole cleaning. Drop in pressure can indicates an unexpected water, gas or oil kick. With real time pressure measurements it is possible to detect problems much earlier than traditional surface measurements decreasing the likelihood of costly drilling delays.

APWD service provides annular pressure measurements using the Mud Pulse MWD system. By incorporating a pressure sub on top of the UBHO (Landing) sub and a specialized pulser driver, sensor readings are placed as close to the bit as possible and still allowing for retrievability. Onsite calibration is done to ensure accuracy and repeatability. Programming includes adding a generic variable to the tool face logging sequence. The pressure variables are sent to surface via mud-pulse and can be logged with standard gamma logging software that has generic variables.

Nominal tool OD	3 1/2 in	4 3/4 in	6 1/2 in	8 in
	(89mm)	(121mm)	(165mm)	(203mm)
Connections	2 7/8 REG	3 1/2 IF	4 ½ XH	6 5/8 Reg
Sub Length	6 ft	6 ft	6 ft	6 ft
	(1.8m)	(1.8m)	(1.8m)	(1.8m)
Temp Rating	150 C	150 C	150 C	150 C
	(302 F)	(302 F)	(302 F)	(302 F)
Working Pressure	10,000 psi	10,000 psi	10,000 psi	10,000 psi
	(68,947 kpa)	(68,947 kpa)	(68,947 kpa)	(68,947 kpa)
Accuracy +/-	10 psi	10 psi	10 psi	10 psi
	(69 kpa)	(69 kpa)	(69 kpa)	(69 kpa)
Repeatability +/-	5 psi	5 psi	5 psi	5 psi
	(34 kpa)	(34 kpa)	(34 kpa)	(34 kpa)
Detector Type	Quartz	Quartz	Quartz	Quartz

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**Data Logging Compatibility** 

DIGIDRILL TRU VU LOGVIEW

Application	S
Reservoir P	ressure Management.
Drilling opti	imization.
Early Lost c	irculation detection.
Formation f	racture or collapse detec-
Early detec	tion of well flows and kicks.
Hole cleanii	ng monitoring.
Improved E	CD management.
Benefits	
Fully GE Te	nsor compatible.
Real time u	pdates.
Reduced dr	illing expenses

