

# AnderDrift Mechanical Survey Tool

NOV's AnderDrift™ mechanical survey tool monitors the inclination in vertical wells without the losses in time and capital typically associated with such services. The tool allows the driller to efficiently and rapidly check the inclination of the well up to 5°. Inclination data is transmitted to surface as a series of pressure pulses, the number of which corresponds to the vertical inclination. The pulses can be easily read on the driller's pressure gauge without the use of additional surface equipment. As an additional service, a hard copy of the well data can usually be supplied by the mud logging company.

## Features and Benefits

- Data sent to surface in less than a minute
- Real-time information allows immediate remedial action
- Supplied in preloaded short drill collar
- No surface equipment or additional personnel required
- Reliable accuracy over a 0° to 5° range in 0.5° increments or 0° to 2.5° in 0.25° increments



## Technical Specifications

	6¼ in.	7 in.	8 in.	9½ in.	11 in.
Drill collar size	6¼ in.	7 in.	8 in.	9½ in.	11 in.
Overall length	133 in.	133 in.	132 in.	138 in.	161 in.
Connections*	4-in. IF or 4½-in. IF	4½-in. IF	6⅝-in. Reg	7⅝-in. Reg	8⅝-in. Reg
Service connection make-up torque	22,650 to 24,910 ft-lbf	28,540 to 31,390 ft-lbf	51,390 to 56,520 ft-lbf	89,730 to 98,700 ft-lbf	130,000 to 140,000 ft-lbf
Inclination range	0 to 2.5°*, or 0 to 5°	0 to 2.5°*, or 0 to 5°	0 to 2.5°*, or 0 to 5°	0 to 2.5°*, or 0 to 5°	0 to 2.5°*, or 0 to 5°
Weight (lb)	900	1,025	1,378	1,532	1,792
Min drilling flowrate (gpm)	300	300	300	300	300
Max drilling flowrate (gpm)	1,000	1,300	1,300	1,300	1,300
Survey flowrates (gpm)	550 to 800	550 to 800	550 to 800	550 to 800	550 to 800
Typical survey pressure pulse (psi)	200	200	200	200	200
Typical pulse interval	4 sec	4 sec	4 sec	4 sec	4 sec
TFA (Drilling position)	3.33 in <sup>2</sup>	3.33 in <sup>2</sup>	3.33 in <sup>2</sup>	3.33 in <sup>2</sup>	3.33 in <sup>2</sup>
Max LCM size/connection	Medium nut plug 55 lb/bbl				
Maximum operating temperature**	320°F	320°F	320°F	320°F	320°F

\* Must be specified in advance

\*\* Higher temperature ratings available on request.