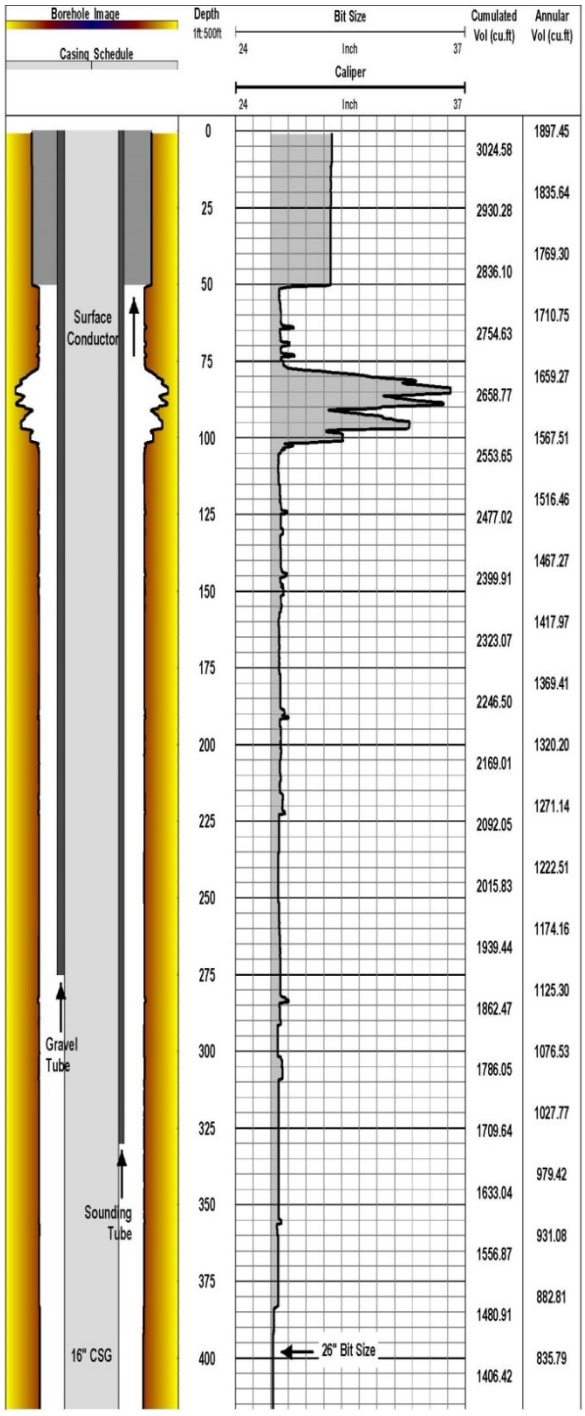
BOREHOLE CALIPER

Borehole caliper surveys provide a continuous log of borehole diameter using three or four mechanical arms in constant contact with the borehole wall. Caliper surveys can show borehole obstructions and/or washouts— critical for evaluation of the borehole condition and validity of supplemental data.

Three-arm caliper probes determine borehole diameter by averaging measurements from three independent arms. Four-arm, X-Y calipers utilize two pairs of caliper arms set 90˚ apart, providing borehole eccentricity and geometry data.

COLOG utilizes advanced software that can calculate both the borehole volume and cement volume, when future casing size is known. Running borehole and cement volume totals are plotted with depth to aid in cementing operations.

Both three and four arm caliper probes can be fitted with short or long caliper arms to accommodate a wide range of borehole sizes; from small NQ size boreholes to very large, augered holes. Simultaneous natural gamma-ray detection is optional.



APPLICATIONS:

+ Borehole Condition Evaluation
+ Borehole Geometry
+ Casing Evaluation
+ Cement Volume Calculation
+ Borehole Volume Calculation
+ Identify Borehole Collapse or Obstruction

PROBE SPECIFICATIONS:

Diameter:	38 – 54 mm (1.5 – 2.1 in.)
Length:	1.78 – 2.16 m (5.84 - 7.09 ft.)
Max Temperature Rating:	150˚C (302˚F)
Max Pressure Rating:	1380 bar (20,000 psi)
Parameters Measured:	Avg. Diameter; Nat. Gamma (Optional)
Borehole Diameter Range:	51 – 1524 mm (2.0 – 60 in.)

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