



PRODUCTION LOGGING TOOL SELECTION GUIDE HORIZONTAL WELLS

All logging tools may be run either in surface read out or memory mode.

KEY: Good performance
Reduced performance
Poor performance

- Capacitance Array - CAT
- Caged Full Bore - CFB
- Continuous Spinner - CFS/CFJ
- Basket Flowmeter - DBT
- In Line Spinner - ILS
- Temperature - PRT
- Fluid Capacitance -CWH
- Fluid Density - FDR
- Gas Holdup - GHT
- Pressure - QPS
- Gamma Ray - PGR
- CCL
- Dual XY caliper - PDC

| | Flowrate cased hole | Flowrate open hole | Inflow points | Phase identification, single phase | Phase identification, multi phase | Multi-phase fraction measurement | Correlation open hole | Correlation cased hole |
|------------------------------|---------------------|--------------------|---------------|------------------------------------|-----------------------------------|----------------------------------|-----------------------|------------------------|
| Capacitance Array - CAT | | | | | | | | |
| Caged Full Bore - CFB | | | | | | | | |
| Continuous Spinner - CFS/CFJ | | | | | | | | |
| Basket Flowmeter - DBT | | | | | | | | |
| In Line Spinner - ILS | | | | | | | | |
| Temperature - PRT | | | | | | | | |
| Fluid Capacitance -CWH | | | | | | | | |
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| Gas Holdup - GHT | | | | | | | | |
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| Gamma Ray - PGR | | | | | | | | |
| CCL | | | | | | | | |
| Dual XY caliper - PDC | | | | | | | | |

NOTES:

For horizontal (& highly deviated) wells logging tools must be conveyed downhole by a Tractor, Coiled Tubing or Continuous Sucker rod.
 Strong centralizers are required, plus knuckle joints to provide tool string flexibility, to de-couple excess loads on the tool string from the deployment equipment