### WITS\_WITSML Record 18 Drill Stem Testing

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| **WITS Record ID:** 18 | **Logical Record Type:** 168 | **Auto/Manual:** Automatic |
| **Trigger:** [TIME] Transmit at a specified time interval (secs) | | |
| **Data Source:** Data acquired in real-time (possibly via Level 0 transfer). Record only sent during a drill stem testing operation | | |
| **Data Typology:** Reference (Ref), Date\_Time\_Stamp(Dts), Real-time-Measure (Rtm), Real-time-Signal (Rts), Limit (Lim), Set-Point (Spt), Calculation (Cal), Distribution (Dis), Command (Com), Parameter (Par), Synthetic Value (Syn), Alarm (Alm), Interpreted (Int), Modeled (Mod), Observed (Obs), Code (Cod), Count (Cnt), Cumulative (Cml), Status (Sta), Expected (Exp), Estimated (Est) | | |
| **Data Field Types:** A = Alphanumeric String, L = 32 bit 2's complement signed integer, S = 16 bit 2's complement signed integer, F = 32 bit IEEE single precision floating point, E = Engineering, B = Boolean (1 if True and 0 if False), D = Date, T = Time, V = Variant, IL = Integer List, FL = Float List, EL = Engineering List, TL = Text List | | |
| **Reserved Characters:** Comma (,) - Separates Fields, Semi Colon (;) - Separates Items in a Standard Record, Colon (:) - Separates items in Date and Time Fields, Ampersand (&) - Separates items in a List | | |
| **Data Mnemonic Abbreviations:** Raw (Raw), Average (Avg), Max (Max), Min (Min), Mean (Men), Root-Mean-Square (Rms), Percent (Pct), Error (Err), Correlation (Cor), Probability (Prob), Variance (Var), Spread (Spd), Mean-Absolute-Deviation (Mad), Ratio (Rat), Standard Deviation (Std), Mode (Mod), Weighted Mean (Wtm), Dispersion (Dis), Product (Pro), Sum (Sum), Cumulative Sum (Csm), Corrected (Cor), Adjusted (Adj), Instantaneous (Ins), State (Sta), Observed (Obs), Expected (Exp), Observed-Cumulative (ObC), Expected-Cumulative (ExC), Total (Tot), Reported (Rep), Interpolated (Itp), Period (Per), Currency (Cur) | | |

| WITS  Record / Item | Description | STD WITS Long Mnemonic | Operator Mnemonic for WITSML & OSIsoft PI & ODA | Field Type | Length | Typology | Transmit Units (FPS) | Transmit Units (Metric) | Data System Type |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1801 | Well Identifier | WELLID | WID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 1802 | Sidetrack/Hole Sect No. | STKNUM | SKNO | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 1803 | Record Identifier | RECID | RID | S | 2 | Ref | ---- | ---- | Identification |
| 1804 | Sequence Identifier | SEQID | SQID | L | 4 | Ref | ---- | ---- | Identification |
| 1805 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 1806 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 1807 | Activity Code | ACTCOD | ACTC | S | 2 | Cod | ---- | ---- | Activity |
| 1808 | DST identification | DSTID | DSID | A | 8 | Obs | ---- | ---- | Depth |
| 1809 | DST Intvl Top Depth (meas) | DEPTDITM | DDTM | F | 4 | Obs | F | M | Depth |
| 1810 | DST Intvl Top Depth (vert) | DEPTDITV | DDTV | F | 4 | Cal | F | M | Depth |
| 1811 | DST Intvl Bott Depth (meas) | DEPTDIBM | DDBM | F | 4 | Obs | F | M | Depth |
| 1812 | DST Intvl Bott Depth (vert) | DEPTDIBV | DDBV | F | 4 | Cal | F | M | Depth |
| 1813 | DST Tool Time | DSTTTIME | DTTI | L | 4 | Dts | HR | HR |  |
| 1814 | DST State of Well | DSTSTATE | DSTA | S | 2 | Sta | ---- | ---- |  |
| 1815 | DST Surf Pressure, Tubing | DSTSPTUB | DSPT | F | 4 | Rtm | PSI | KPA |  |
| 1816 | DST Surf Pressure, Casing | DSTSPCAS | DSPC | F | 4 | Rtm | PSI | KPA |  |
| 1817 | DST Surf Temp, Tubing | DSTSTTUB | DSTT | F | 4 | Rtm | DEGF | DEGC |  |
| 1818 | DST Bottom Hole Pressure | DSTBHP | DBHP | F | 4 | Rtm | PSI | KPA |  |
| 1819 | DST Bottom Hole Temp | DSTBHT | DBHT | F | 4 | Rtm | DEGF | DEGC |  |
| 1820 | DST Liquid Flow Rate | DSTLIQFR | DLFR | F | 4 | Rtm | BPD | M3/D |  |
| 1821 | DST Gas Flow Rate | DSTGASFR | DGFR | F | 4 | Rtm | MCFD | MCMD |  |
| 1822 | DST Total Flow Rate | DSTTOTFR | DTFR | F | 4 | Rtm | BPD | M3/D |  |
| 1823 | DST Cum Liquid Production | DSTCLP | DCLP | F | 4 | Cml | BBL | M3 |  |
| 1824 | DST Cum Gas Production | DSTCGP | DCGP | F | 4 | Cml | MCF | MCM |  |
| 1825 | DST Cum Total Production | DSTCTP | DCTP | F | 4 | Cml | BBL | M3 |  |
| 1826 | Hydrogen Sulfide (avg) | HSA | HSA | L | 4 | Cal | PPM | PPM |  |
| 1827 | < SPARE 1 > | SPARE1 | SPR1 | F | 4 |  | ---- | ---- |  |
| 1828 | < SPARE 2 > | SPARE2 | SPR2 | F | 4 |  | ---- | ---- |  |
| 1829 | < SPARE 3 > | SPARE3 | SPR3 | F | 4 |  | ---- | ---- |  |
| 1830 | < SPARE 4 > | SPARE4 | SPR4 | F | 4 |  | ---- | ---- |  |
| 1831 | < SPARE 5 > | SPARE5 | SPR5 | F | 4 |  | ---- | --- |  |