### WITS\_WITSML Record 6 Tripping/Casing Connection-Based Record Variable Mapping

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| --- | --- | --- |
| **WITS Record ID:** 06 | **Logical Record Type:** 156 | **Auto/Manual:** Automatic |
| **Trigger:** [EVENT] Transmit when first out of slips following a connection | | |
| **Data Source:** Data acquired in real-time and computed from first out of slips to next first out of slips. Only sent when tripping. Average and maximum values reset following the transmission of the record. | | |
| **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 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0601 | Well Identifier | WID | WELLID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 0602 | Sidetrack/Hole Sect No. | SKNO | STKNUM | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 0603 | Record Identifier | RID | RECID | S | 2 | Ref | ---- | ---- | Identification |
| 0604 | Sequence Identifier | SQID | SEQID | L | 4 | Ref | ---- | ---- | Identification |
| 0605 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 0606 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 0607 | Activity Code | ACTC | ACTCOD | S | 2 | Cod | ---- | ---- | Activity |
| 0608 | Depth Bit (meas) | DBTM | DEPTBITM | F | 4 | Obs | F | M | Depth |
| 0609 | Depth Bit (vert) | DBTV | DEPTBITV | F | 4 | Cal | F | M | Depth |
| 0610 | Depth Hole (meas) | DMEA | DEPTMEAS | F | 4 | Obs | F | M | Valid |
| 0611 | Depth Hole (vert) | DVER | DEPTVERT | F | 4 | Cal | F | M | Depth |
| 0612 | Trip Number | TNUM | TRIPNUM | S | 2 | Cnt | ---- | ---- | Type |
| 0613 | Connections Done | CDON | CONNDONE | S | 2 | Cnt | ---- | ---- | Count |
| 0614 | Connections Remaining | CREM | CONNREM | S | 2 | Cal | ---- | ---- | Count |
| 0615 | Elapsed Time In-Slips | ETSL | ETIMESLP | S | 2 | Obs | SEC | SEC | Time |
| 0616 | Elapsed Time Out-of-Slips | ETOS | ETIMEOS | S | 2 | Obs | SEC | SEC | Time |
| 0617 | Running Speed -up (max) | RSUX | RSUX | F | 4 | Cal | FPM | M/S | Velocity |
| 0618 | Running Speed -up (avg) | RSUA | RSUA | F | 4 | Cal | FPM | M/S | Velocity |
| 0619 | Running Speed -down (max) | RSDX | RSDX | F | 4 | Cal | FPM | M/S | Velocity |
| 0620 | Running Speed -down (avg) | RSDA | RSDA | F | 4 | Cal | FPM | M/S | Velocity |
| 0621 | Hookload (max) | HKLX | HKLX | F | 4 | Obs | KLB | KDN | Hookload |
| 0622 | Hookload (min) | HKLN | HKLN | F | 4 | Obs | KLB | KDN | Hookload |
| 0623 | Hookload (avg) | HKLA | HKLA | F | 4 | Cal | KLB | KDN | Hookload |
| 0624 | Torque - Make Up (max) | TQMX | TORQMUX | F | 4 | Obs | KFLB | KNM | Torque |
| 0625 | Torque - Breakout (max) | TQBX | TORQBOX | F | 4 | Obs | KFLB | KNM | Torque |
| 0626 | Fill/Gain Volume Obs. | FVO | FVOLO | F | 4 | Obs | BBL | M3 | Fluid |
| 0627 | Fill/Gain Volume Exp. | FVE | FVOLE | F | 4 | Exp | BBL | M3 | Fluid |
| 0628 | Fill/Gain Volume Obs.(cum) | FVOC | FVOLOC | F | 4 | Cml | BBL | M3 | Fluid |
| 0629 | Fill/Gain Volume Exp (cum) | FVEC | FVOLEC | F | 4 | Cml | BBL | M3 | Fluid |
| 0630 | < SPARE 1 > | SPR1 | SPARE1 |  |  |  | ---- | ---- | Spare |
| 0631 | < SPARE 2 > | SPR2 | SPARE2 |  |  |  | ---- | ---- | Spare |
| 0632 | < SPARE 3 > | SPR3 | SPARE3 |  |  |  | ---- | ---- | Spare |
| 0633 | < SPARE 4 > | SPR4 | SPARE4 |  |  |  | ---- | ---- | Spare |
| 0634 | < SPARE 5 > | SPR5 | SPARE5 |  |  |  | ---- | --- | Spare |