### WITS\_WITSML Record 3 Drilling Connections Variable Mapping

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| **WITS Record ID:** 03 | **Logical Record Type:** 153 | **Auto/Manual:** Automatic |
| **Trigger:** [EVENT] Transmit when first back on bottom following a drilling connection | | |
| **Data Source:** Data acquired from first off-bottom to back on-bottom | | |
| **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 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0301 | Well Identifier | WID | WELLID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 0302 | Sidetrack/Hole Sect No. | SKNO | STKNUM | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 0303 | Record Identifier | RID | RECID | S | 2 | Ref | ---- | ---- | Identification |
| 0304 | Sequence Identifier | SQID | SEQID | L | 4 | Ref | ---- | ---- | Identification |
| 0305 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 0306 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 0307 | Activity Code | ACTC | ACTCOD | S | 2 | Cod | ---- | ---- | Activity |
| 0308 | Depth Connection (meas) | DCNM | DEPTCONM | F | 4 | Obs | F | M | Depth |
| 0309 | Depth Connection (vert) | DCNV | DEPTCONV | F | 4 | Cal | F | M | Depth |
| 0310 | Depth Hole (meas) | DMEA | DEPTMEAS | F | 4 | Obs | F | M | Depth |
| 0311 | Depth Hole (vert) | DVER | DEPTVERT | F | 4 | Cal | F | M | Depth |
| 0312 | Elapsed Time Bottom-Slips | ETBS | ETIMEBTS | S | 2 | Obs | SEC | SEC | Time |
| 0313 | Elapsed Time In-Slips | ETSL | ETIMESLP | S | 2 | Obs | SEC | SEC | Time |
| 0314 | Elapsed Time Slips-Bottom | ETSB | ETIMESTB | S | 2 | Obs | SEC | SEC | Time |
| 0315 | Elapsed Time Pumps-Off | ETPO | ETIMEPOF | S | 2 | Obs | SEC | SEC | Time |
| 0316 | Running Speed - up (max) | RSUX | RSUX | F | 4 | Cal | FPM | M/S | Calculation |
| 0317 | Running Speed - down (max) | RSDX | RSDX | F | 4 | Cal | FPM | M/S | Calculation |
| 0318 | Hookload (max) | HKLX | HKLX | F | 4 | Obs | KLB | KDN | Observed |
| 0319 | String Weight (rot,avg) | STWT | STRGWT | F | 4 | Obs | KLB | KDN | Observed |
| 0320 | Torque - Make Up (max) | TQMX | TORQMUX | F | 4 | Obs | KFLB | KNM | Observed |
| 0321 | Torque - Breakout (max) | TQBX | TORQBOX | F | 4 | Obs | KFLB | KNM | Observed |
| 0322 | < SPARE 1 > | SPR1 | SPARE1 | F | 4 | Est | ---- | ---- | Spare |
| 0323 | < SPARE 2 > | SPR2 | SPARE2 | F | 4 | Est | ---- | ---- | Spare |
| 0324 | < SPARE 3 > | SPR3 | SPARE3 | F | 4 | Cal | ---- | ---- | Spare |
| 0325 | < SPARE 4 > | SPR4 | SPARE4 | F | 4 | Cal | ---- | ---- | Spare |
| 0326 | < SPARE 5 > | SPR5 | SPARE5 | F | 4 | Cal | ---- | ---- | Spare |