### WITS\_WITSML Record 5 Tripping/Casing-Run Time-Based Record Variable Mapping

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| --- | --- | --- |
| **WITS Record ID:** 05 | **Logical Record Type:** 155 | **Auto/Manual:** Automatic |
| **Trigger:** [TIME] Transmit at a specified time interval (secs) | | |
| **Data Source:** Data acquired in real-time and computed over the trigger interval. Only sent when tripping. Average, minimum and maximum values reset when this record OR Record 6 (Tripping/Casing Connection Based) is transmitted | | |
| **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 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0501 | Well Identifier | WID | WELLID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 0502 | Sidetrack/Hole Sect No. | SKNO | STKNUM | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 0503 | Record Identifier | RID | RECID | S | 2 | Ref | ---- | ---- | Identification |
| 0504 | Sequence Identifier | SQID | SEQID | L | 4 | Ref | ---- | ---- | Identification |
| 0505 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 0506 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 0507 | Activity Code | ACTC | ACTCOD | S | 2 | Cod | ---- | ---- | Activity |
| 0508 | Depth Bit (meas) | DBTM | DEPTBITM | F | 4 | Obs | F | M | Depth |
| 0509 | Depth Bit (vert) | DBTV | DEPTBITV | F | 4 | Cal | F | M | Depth |
| 0510 | Depth Hole (meas) | DMEA | DEPTMEAS | F | 4 | Obs | F | M | Valid |
| 0511 | Depth Hole (vert) | DVER | DEPTVERT | F | 4 | Cal | F | M | Depth |
| 0512 | Trip Number | TNUM | TRIPNUM | S | 2 | Cnt | ---- | ---- | Type |
| 0513 | In-Slips Status | STIS | STATUSIS | A | 2 | Cod | ---- | ---- | Calculation |
| 0514 | Hookload (avg) | HKLA | HKLA | F | 4 | Cal | KLB | KDN | Calculation |
| 0515 | Block Position | BPOS | BLKPOS | F | 4 | Obs | F | M | Calculation |
| 0516 | Running Speed - up (max) | RSUX | RSUX | F | 4 | Cal | FPM | M/S | Calculation |
| 0517 | Running Speed - down (max) | RSDX | RSDX | F | 4 | Cal | FPM | M/S | Calculation |
| 0518 | Fill/Gain Volume Obs.(cum) | FVOC | FVOLOC | F | 4 | Cal | BBL | M3 | Calculation |
| 0519 | < SPARE 1 > | SPR1 | SPARE1 | F | 4 |  | ---- | ---- | Spare |
| 0520 | < SPARE 2 > | SPR2 | SPARE2 | F | 4 |  | ---- | ---- | Spare |
| 0521 | < SPARE 3 > | SPR3 | SPARE3 | F | 4 |  | ---- | ---- | Spare |
| 0522 | < SPARE 4 > | SPR4 |  | F | 4 |  | ---- | ---- | Spare |
| 0523 | < SPARE 5 > | SPR5 |  | F | 4 |  | ---- | --- | Spare |