### WITS\_WITSML Record 11 Mud Tank Volumes Record Variable Mapping

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| --- | --- | --- |
| **WITS Record ID:** 11 | **Logical Record Type:** 161 | **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; record transmitted and computations reset when triggering interval occurs | | |
| **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 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1101 | Well Identifier | WID | WELLID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 1102 | Sidetrack/Hole Sect No. | SKNO | STKNUM | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 1103 | Record Identifier | RID | RECID | S | 2 | Ref | ---- | ---- | Identification |
| 1104 | Sequence Identifier | SQID | SEQID | L | 4 | Ref | ---- | ---- | Identification |
| 1105 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 1106 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 1107 | Activity Code | ACTC | ACTCOD | S | 2 | Cod | ---- | ---- | Activity |
| 1108 | Depth Hole (meas) | DMEA | DEPTMEAS | F | 4 | Obs | F | M | Depth |
| 1109 | Depth Hole (vert) | DVER | DEPTVERT | F | 4 | Cal | F | M | Depth |
| 1110 | Tank Volume (total) | TVT | TVOLTOT | F | 4 | Cal | BBL | M3 | Volume |
| 1111 | Tank Volume (active) | TVA | TVOLACT | F | 4 | Cal | BBL | M3 | Volume |
| 1112 | Tank Volume Change (total) | TVCT | TVOLCTOT | F | 4 | Cal | BBL | M3 | Volume |
| 1113 | Tank Volume Change (active) | TVCA | TVOLCACT | F | 4 | Cal | BBL | M3 | Volume |
| 1114 | Tank Volume Reset Time | TVRT | TVRESET | L | 4 | Cal | ---- | ---- | Volume |
| 1115 | Tank 01 Volume | TV01 | TVOL01 | F | 4 | Rtm | BBL | M3 | Volume |
| 1116 | Tank 02 Volume | TV02 | TVOL02 | F | 4 | Rtm | BBL | M3 | Volume |
| 1117 | Tank 03 Volume | TV03 | TVOL03 | F | 4 | Rtm | BBL | M3 | Volume |
| 1118 | Tank 04 Volume | TV04 | TVOL04 | F | 4 | Rtm | BBL | M3 | Volume |
| 1119 | Tank 05 Volume | TV05 | TVOL05 | F | 4 | Rtm | BBL | M3 | Volume |
| 1120 | Tank 06 Volume | TV06 | TVOL06 | F | 4 | Rtm | BBL | M3 | Volume |
| 1121 | Tank 07 Volume | TV07 | TVOL07 | F | 4 | Rtm | BBL | M3 | Volume |
| 1122 | Tank 08 Volume | TV08 | TVOL08 | F | 4 | Rtm | BBL | M3 | Volume |
| 1123 | Tank 09 Volume | TV09 | TVOL09 | F | 4 | Rtm | BBL | M3 | Volume |
| 1124 | Tank 10 Volume | TV10 | TVOL10 | F | 4 | Rtm | BBL | M3 | Volume |
| 1125 | Tank 11 Volume | TV11 | TVOL11 | F | 4 | Rtm | BBL | M3 | Volume |
| 1126 | Tank 12 Volume | TV12 | TVOL12 | F | 4 | Rtm | BBL | M3 | Volume |
| 1127 | Tank 13 Volume | TV13 | TVOL13 | F | 4 | Rtm | BBL | M3 | Volume |
| 1128 | Tank 14 Volume | TV14 | TVOL14 | F | 4 | Rtm | BBL | M3 | Volume |
| 1129 | Trip Tank 1 Volume | TTV1 | TTVOL1 | F | 4 | Rtm | BBL | M3 | Volume |
| 1130 | Trip Tank 2 Volume | TTV2 | TTVOL2 | F | 4 | Rtm | BBL | M3 | Reference |
| 1131 | < SPARE 1 > | SPR1 | SPARE1 |  |  |  | ---- | ---- |  |
| 1132 | < SPARE 2 > | SPR2 | SPARE2 |  |  |  | ---- | ---- |  |
| 1133 | < SPARE 3 > | SPR3 | SPARE3 |  |  |  | ---- | ---- |  |
| 1134 | < SPARE 4 > | SPR4 | SPARE4 |  |  |  | ---- | ---- |  |
| 1135 | < SPARE 5 > | SPR5 | SPARE5 |  |  |  | ---- | --- |  |