### WITS\_WITSML Record 10 Pressure Evaluation Record Variable Mapping

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| **WITS Record ID:** 10 | **Logical Record Type:** 160 | **Auto/Manual:** Automatic |
| **Trigger:** [EVENT] Transmit when new pressure evaluation data values are available | | |
| **Data Source:** Data acquired in real-time and computed over the trigger interval. Record transmitted and computations reset when the record 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), Last (Lst) | | |

| 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 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1001 | Well Identifier | WELLID | WELLID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 1002 | Sidetrack/Hole Sect No. | STKNUM | STKNUM | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 1003 | Record Identifier | RECID | RECID | S | 2 | Ref | ---- | ---- | Identification |
| 1004 | Sequence Identifier | SEQID | SEQID | L | 4 | Ref | ---- | ---- | Identification |
| 1005 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 1006 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 1007 | Activity Code | ACTCOD | ACTCOD | S | 2 | Cod | ---- | ---- | Activity |
| 1008 | Depth Hole (meas) | DEPTMEAS | DEPTMEAS | F | 4 | Obs | F | M | Depth |
| 1009 | Depth Hole (vert) | DEPTVERT | DEPTVERT | F | 4 | Cal | F | M | Depth |
| 1010 | Depth Sample (meas) | DEPTSAMM | DEPTSAMM | F | 4 | Obs | F | M | Depth |
| 1011 | Depth Sample (vert) | DEPTSAMV | DEPTSAMV | F | 4 | Cal | F | M | Depth |
| 1012 | Est. Form. Pore Press Grad. | FPOREPG | FPOREPG\_Est | F | 4 | Est | PPG | KGM3 | Density |
| 1013 | Est. Form. Frac Press Grad. | FFRACPG | FFRACPG\_Est | F | 4 | Est | PPG | KGM3 | Density |
| 1014 | Est. Form. Overburden Grad. | FOBPG | FOBPG\_Est | F | 4 | Est | PPG | KGM3 | Density |
| 1015 | Est. Kick Tolerance | KTOL | KTOL\_Est | F | 4 | Est | PPG | KGM3 | Pressure |
| 1016 | Max. Permitted SICP (init) | PSIPX | PSIPX | F | 4 | Cal | PSI | KPA | Pressure |
| 1017 | Connection Gas Percentage (avg) | CONNGASA | CONNGAS\_Avg | F | 4 | Obs | % | % | Gas |
| 1018 | Connection Gas Percentage (max) | CONNGASX | CONNGAS\_Max | F | 4 | Obs | % | % | Gas |
| 1019 | Connection Gas Percentage (last) | CONNGASL | CONNGAS\_Lst | F | 4 | Obs | % | % | Gas |
| 1020 | Last Trip Gas Percentage | TRIPGAS | TRIPGAS\_pct | F | 4 | Obs | % | % | Gas |
| 1021 | Shale Density | SHALEDEN | SHALEDEN | F | 4 | Cal | G/CC | G/CC | Density |
| 1022 | Cuttings CEC (Cation-Exchange Capacity) | CEC | CEC | F | 4 | Mea | MEHG | MEHG | Cuttings |
| 1023 | Cavings % | CAVINGS | CAVINGS | S | 2 | Cal | % | % | Cuttings |
| 1024 | Corr. Drilling Exponent | DXC | DXC | F | 4 | Cal | ---- | ---- | Exponent |
| 1025 | < SPARE 1 > | SPARE1 | SPR1 |  |  |  | ---- | ---- |  |
| 1026 | < SPARE 2 > | SPARE2 | SPR2 |  |  |  | ---- | ---- |  |
| 1027 | < SPARE 3 > | SPARE3 | SPR3 |  |  |  | ---- | ---- |  |
| 1028 | < SPARE 4 > | SPARE4 | SPR4 |  |  |  | ---- | ---- |  |
| 1029 | < SPARE 5 > | SPARE5 | SPR5 |  |  |  | ---- | ---- |  |
| 1030 | < SPARE 6 > | SPARE6 | SPR6 |  |  |  | ---- | ---- |  |
| 1031 | < SPARE 7 > | SPARE7 | SPR7 |  |  |  | ---- | ---- |  |
| 1032 | < SPARE 8 > | SPARE8 | SPR8 |  |  |  | ---- | --- |  |
| 1033 | < SPARE 9 > | SPARE9 | SPR9 |  |  |  | ---- | ---- |  |