### WITS\_WITSML Record 16 Hydrocarbon Show

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| **WITS Record ID:** 16 | **Logical Record Type:** 166 | **Auto/Manual:** Manual |
| **Trigger:** [EVENT] Transmission is operator-initiated. | | |
| **Data Source:** Manually entered data from sample examination sent when new data values are available. | | |
| **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 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1601 | Well Identifier | WELLID | WID | A | 16 | Ref | ---- | ---- | Unique Well ID |
| 1602 | Sidetrack/Hole Sect No. | STKNUM | SKNO | S | 2 | Ref | ---- | ---- | Unique Wellbore ID |
| 1603 | Record Identifier | RECID | RID | S | 2 | Ref | ---- | ---- | Identification |
| 1604 | Sequence Identifier | SEQID | SQID | L | 4 | Ref | ---- | ---- | Identification |
| 1605 | Date | DATE | DATE | L | 4 | Dts | ---- | ---- | Date |
| 1606 | Time | TIME | TIME | L | 4 | Dts | ---- | ---- | Time |
| 1607 | Activity Code | ACTCOD | ACTC | S | 2 | Cod | ---- | ---- | Activity |
| 1608 | Show Number | SHOWNUM | SWNO | S | 2 | Cnt | ---- | ---- | Depth |
| 1609 | Show Intvl Top Depth (meas) | DEPTSITM | DSTM | F | 4 | Obs | F | M | Depth |
| 1610 | Show Intvl Top Depth (vert) | DEPTSITV | DSTV | F | 4 | Cal | F | M | Depth |
| 1611 | Show Intvl Bott Depth(meas) | DEPTSIBM | DSBM | F | 4 | Obs | F | M | Depth |
| 1612 | Show Intvl Bott Depth(vert) | DEPTSIBV | DSBV | F | 4 | Cal | F | M | Depth |
| 1613 | Show Lith type | SHLTYPE | WLTY | A | 16 | Obs | ---- | ---- | Formation |
| 1614 | Show Lith classification | SHLCLASS | WLCL | A | 16 | Obs | ---- | ---- | Formation |
| 1615 | Show Lith color | SHLCOLOR | WLCO | A | 16 | Obs | ---- | ---- | Formation |
| 1616 | Show Lith texture | SHLTEXT | WLTX | A | 16 | Obs | ---- | ---- | Formation |
| 1617 | Show Lith hardness | SHLHARD | WLHD | A | 16 | Obs | ---- | ---- | Formation |
| 1618 | Show Lith grain size | SHLSIZE | WLSZ | A | 16 | Obs | ---- | ---- | Formation |
| 1619 | Show Lith roundness | SHLROUND | WLRD | A | 16 | Obs | ---- | ---- | Formation |
| 1620 | Show Lith sorting | SHLSORT | WLSO | A | 16 | Obs | ---- | ---- | Formation |
| 1621 | Show Lith matrix/cement | SHLMC | WLMC | A | 16 | Obs | ---- | ---- | Formation |
| 1622 | Show Lith accessories | SHLACC | WLAC | A | 16 | Obs | ---- | ---- | Formation |
| 1623 | Show Lith porosity -visible | SHLPORV | WLPV | A | 16 | Obs | ---- | ---- | Porosity |
| 1624 | Show Lith porosity -meas | SHLPORM | WLPM | F | 4 | Cal | % | % | Porosity |
| 1625 | Show Lith permeability | SHLPERM | WLPE | F | 4 | Cal | MD | MD | Permeability |
| 1626 | Show Lith stain description | SHLSTAIN | WLST | A | 64 | Obs | ---- | ---- | Visual |
| 1627 | Show Lith fluor description | SHLFLUOR | WLFL | A | 64 | Obs | ---- | ---- | Visual |
| 1628 | Show Lith cut description | SHLCUT | WLCT | A | 64 | Obs | ---- | ---- | Visual |
| 1629 | Show Lith cuttings gas | SHLGCUT | WLGC | F | 4 | Cal | % | % | Gas |
| 1630 | Show titrated salinity | SHSAL | WSAL | L | 4 | Est | PPM | PPM | Salinity |
| 1631 | Show Mud Smple Methane | METHMUD | MTHM | L | 4 | Est | PPM | PPM | Gas |
| 1632 | Show Mud Smple Ethane | ETHMUD | ETHM | L | 4 | Est | PPM | PPM | Gas |
| 1633 | Show Mud Smple Propane | PROPMUD | PRPM | L | 4 | Est | PPM | PPM | Gas |
| 1634 | Show Mud Smple I-Butane | IBUTMUD | IBTM | L | 4 | Est | PPM | PPM | Gas |
| 1635 | Show Mud Smple N-Butane | NBUTMUD | NBTM | L | 4 | Est | PPM | PPM | Gas |
| 1636 | Show Mud Smple I-Pentane | IPENMUD | IPNM | L | 4 | Est | PPM | PPM | Gas |
| 1637 | Show Mud Smple N-Pentane | NPENMUD | NPNM | L | 4 | Est | PPM | PPM | Gas |
| 1638 | Show Mud Smple N-Pentane | EPENMUD | EPNM | L | 4 | Est | PPM | PPM | Gas |
| 1639 | Show Mud Smple I-Hexane | IHEXMUD | IHXM | L | 4 | Est | PPM | PPM | Gas |
| 1640 | Show Mud Smple N-Hexane | NHEXMUD | NHXM | L | 4 | Est | PPM | PPM | Gas |
| 1641 | Show Comments | SHOWCOMM | WCOM | A | 128 | Ref | ---- | ---- | Comments |
| 1642 | < SPARE 1 > | SPARE1 | SPR1 | F | 4 |  | ---- | ---- | Spare |
| 1643 | < SPARE 2 > | SPARE2 | SPR2 | F | 4 |  | ---- | ---- | Spare |
| 1644 | < SPARE 3 > | SPARE3 | SPR3 | F | 4 |  | ---- | ---- | Spare |
| 1645 | < SPARE 4 > | SPARE4 | SPR4 | F | 4 |  | ---- | ---- | Spare |
| 1646 | < SPARE 5 > | SPARE5 | SPR5 | F | 4 |  | ---- | --- | Spare |