pen-lab

LOGIN

# rt parameters

PeN-LAB real-time system maintains a pool of values called 'Real-time Parameters'. It includes both measured and calculated parameters. Parameters values are used by various system applications and are also used by the storage manager to be saved into various databases.

| | |
|---|---|
| 001 | Total Depth |
| 002 | Bit Position |
| 003 | DPLM Lag depth - mud |
| 004 | DPLG Lag depth - gas |
| 005 | DPLS Lag depth - sample |
| 006 | Vertical depth calculated for total depth DPTV Vertical depth calculated for total depth |
| 007 | DPLE Last drill pipe section length |
| 008 | Open Hole Length |
| 009 | Weight on Hook - Measured |
| 010 | Weight on Hook - Calculated |
| 011 | WOHO Weight on hook - off bottom |
| 012 | WOBC Weight on bit - calculated |
| 013 | WOBM Weight on bit - measured |
| 014 | FEWG Weight of string in air |
| 015 | STSP String speed |
| 016 | ROPD Rate of penetration by depth |
| 017 | ROPT Rate of penetration by time |
| 018 | Rotation |
| 019 | Pump-1 Strokes |
| 020 | Pump-2 Strokes |
| 021 | Pump-3 Strokes |
| 022 | TORQ Torq |

| | |
|---|---|
| 023 | TORM Maximized torq |
| 024 | TRPM Total revolution |
| 025 | TSPM Total strokes (all pumps) |
| 026 | Volume of pit #1 |
| 027 | Volume of pit #2 |
| 028 | Volume of pit #3 |
| 029 | Volume of pit #4 |
| 030 | Volume of pit #5 |
| 031 | Volume of pit #6 |
| 032 | Volume of pit #7 |
| 033 | Volume of pit #8 |
| 034 | VOLA Volume of active pits |
| 035 | Volume of trip tank #1 |
| 036 | VOLT Total volume |
| 037 | Annulus Volume |
| 038 | Volume of Steel |
| 039 | Volume of Hole |
| 040 | Volume in String |
| 041 | VOMA Volume difference in trip |
| 042 | Volume of pit #9 |
| 043 | Pumps Output Per Stroke |
| 044 | Stand pipe pressure |
| 045 | PSPC Pump pressure - calculated |
| 046 | PCSM Casing pressure |
| 047 | PDAN Pressure drop in annulus |
| 048 | PDST Pressure drop in string |
| 049 | PDB Pressure drop on bit |
| 050 | PSUR Surge pressure |
| 051 | PSWB Swab pressure |
| 052 | BH% % power on bit |

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|---|---|
| 053 | Mud weight - Input |
| 054 | Mud weight - Output |
| 055 | Mud weight - Lag |
| 056 | Mud weight - Average |
| 057 | GSUR Surge gradient |
| 058 | GSWB Swab gradient |
| 059 | GFDR Fracture gradient from DCS |
| 060 | GPDR Pore press. gradient from DCS |
| 061 | MTIN Mud temperature IN |
| 062 | MTOT Mud temperature OUT |
| 063 | MTLG Lag mud temperature |
| 064 | MRIN Mud resistivity IN |
| 065 | MROT Mud resistivity OUT |
| 066 | MRLG Lag mud resistivity |
| 067 | Mud Flow - Input |
| 068 | Mud Flow - Output |
| 069 | Mud Flow - Difference |
| 070 | TGAS Total gas |
| 071 | GCO2 CO2 |
| 072 | H2S Channel #1 |
| 073 | H2S Channel #2 |
| 074 | H2S Channel #3 |
| 075 | H2S Channel #4 |
| 076 | H2S Channel #5 |
| 077 | H2S Channel #6 |
| 078 | H2S Channel #7 |
| 079 | H2S Channel #8 |
| 080 | Max. H2S |
| 081 | GC1 C1 |
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|---|---|
| 082 | GC2 C2 |
| 083 | GC3 C3 |
| 084 | GIC4 iC4 |
| 085 | GNC4 nC4 |
| 086 | GIC5 iC5 |
| 087 | GNC5 nC5 |
| 088 | CNTI Stand counter |
| 089 | Mud Gain/Loss |
| 090 | Kelly Height |
| 091 | TIDR Drilling time |
| 092 | TICR Time Circulation |
| 093 | TITR Time Tripping |
| 094 | TIER Time Kick |
| 095 | TISB Time Stand-by |
| 096 | Normalized Gas |
| 097 | TICA Casing run time |
| 098 | Lag time surface to bottom |
| 099 | Lag time bottom to surface |
| 100 | Lag time for gas |
| 101 | Lag time for sample |
| 102 | Volume of pit #10 |
| 103 | KRO1 Chromatograph signal - not used - reserved |
| 104 | TEMP Chrom. columns temp. - not used - reserved |
| 105 | ROPB Breakeven ROP |
| 106 | FHUP Flow in strokes |
| 107 | DIRC Trip direction |
| 108 | ITEM Item length |
| 109 | TSP1 Total strokes pump-1 |
| 110 | GC23 Ratio C2/C3+ |
| 111 | TSP2 Total strokes pump-2 |

| | |
|---|---|
| 112 | TSP3 Total strokes pump-3 |
| 113 | MPV Plastic viscosity |
| 114 | MYP Yield point |
| 115 | MGEL Starting gel |
| 116 | GH2 H2 |
| 117 | Kely down depth |
| 118 | Length of added pipe |
| 119 | MRDF Mud resistivity difference |
| 120 | DCRT Dcs real - time |
| 121 | SGRT Sigma in real time |
| 122 | PORT Porosity sigma in real time |
| 123 | VVAR Variation of active pits |
| 124 | DRDY Drilling day |
| 125 | WOHT Max. weight on hook (trip) |
| 126 | MMAX Max. mud velocity by item |
| 127 | OMAX Max. overpool by item |
| 128 | VMAX Max. string speed by item |
| 129 | SPMT Total strokes per minute (all pumps) |
| 130 | PDSU Pressure drop on surface |
| 131 | Volume of trip tank #2 |
| 132 | Overpull |
| 133 | Bit Interval |
| 134 | PDL Flow paddle |
| 135 | TMLS Ton miles |
| 136 | Drilling price (real-time) |
| 137 | GECD Equvivalent circulation density |
| 138 | VMUD Mud velocity (trip) |
| 139 | VOS Average string speed by item |
| 140 | DCNR Point on trend DCS in real time |
| 141 | Total Gas - Calculated |

| | |
|---|---|
| 142 | MMRP Mud motor revolutions per minute |
| 143 | SRPM Summed revolutions per minute |
| 144 | STIM System time (for program use only) |
| 145 | DEPT MWD Resistivity sensor #1 - measured depth |
| 146 | DEPT MWD Resistivity sensor #1 - vertical depth |
| 147 | MR1 MWD Resistivity sensor #1 - value |
| 148 | DEPT MWD Resistivity sensor #2 - measured depth |
| 149 | DEPT MWD Resistivity sensor #2 - vertical depth |
| 150 | MR2 MWD Resistivity sensor #2 - value |
| 151 | DEPT MWD Gamma Ray sensor #1 - measured depth |
| 152 | DEPT MWD Gamma Ray sensor #1 - vertical depth |
| 153 | MG1 MWD Gamma Ray sensor #1 - value |
| 154 | DEPT MWD Directional sensor - measured depth |
| 155 | DEPT MWD Directional sensor - vertical depth |
| 156 | SVYI MWD Directional sensor - inclination |
| 157 | SVYA MWD Directional sensor - azimuth |
| 158 | DEPT MWD Gamma Ray sensor #2 - measured depth |
| 159 | DEPT MWD Gamma Ray sensor # 2 - measured depth |
| 160 | MG2 MWD Gamma Ray sensor # 2 - value |
| 161 | MR1C MWD Resistivity sensor # 1 - borehole corrected value |
| 162 | MR2C MWD Resistivity sensor # 2 - borehole corrected value |
| 163 | MG1C MWD Gamma Ray sensor # 1 - value |
| 164 | MG2C MWD Gamma Ray sensor # 2 - value |
| 165 | Total Gas Analized |
| 166 | GN2 Gas Component N2 - Nytrogen |
| 167 | GCO Gas Component CO - Carbon Monoxide |
| 168 | PHIN Mud pH value - on input |
| 169 | PHOUT Mud pH value - on output |
| 170 | Vertical depth for current bit position |
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|---|---|
| 171 | Circulation Volume |
| 172 | Lag Strokes Down |
| 173 | Lag Strokes Up |
| 174 | Lag Strokes Total |
| 175 | Lag Strokes Gas |
| 176 | Lag Strokes Sample |
| 177 | Time Drilling - Total |
| 178 | Time Reaming |
| 179 | Sum of trip tank volumes |
| 180 | Hook Position (Calculated) |
| 181 | Total Revolutions - On Bottom |
| 182 | Pump Lag Strokes Down |
| 183 | Pump Lag Strokes Up |
| 184 | Pump Lag Strokes Total |
| 185 | Pressure #1 |
| 186 | Pressure #2 |
| 187 | Pressure #3 |
| 188 | Pressure #4 |
| 189 | Pressure #5 |
| 190 | Pressure #6 |
| 191 | Pressure #7 |
| 192 | Pressure #8 |