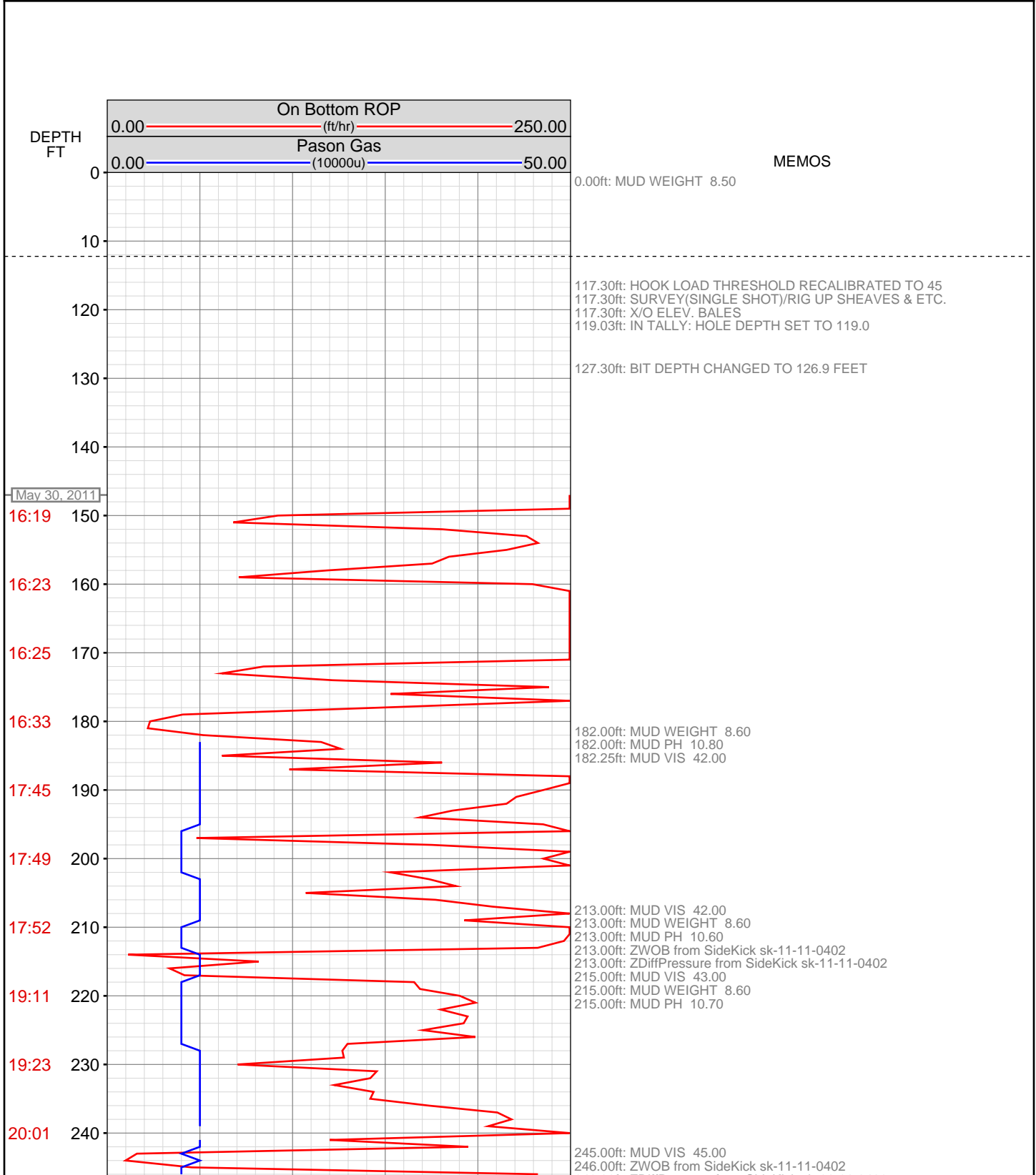
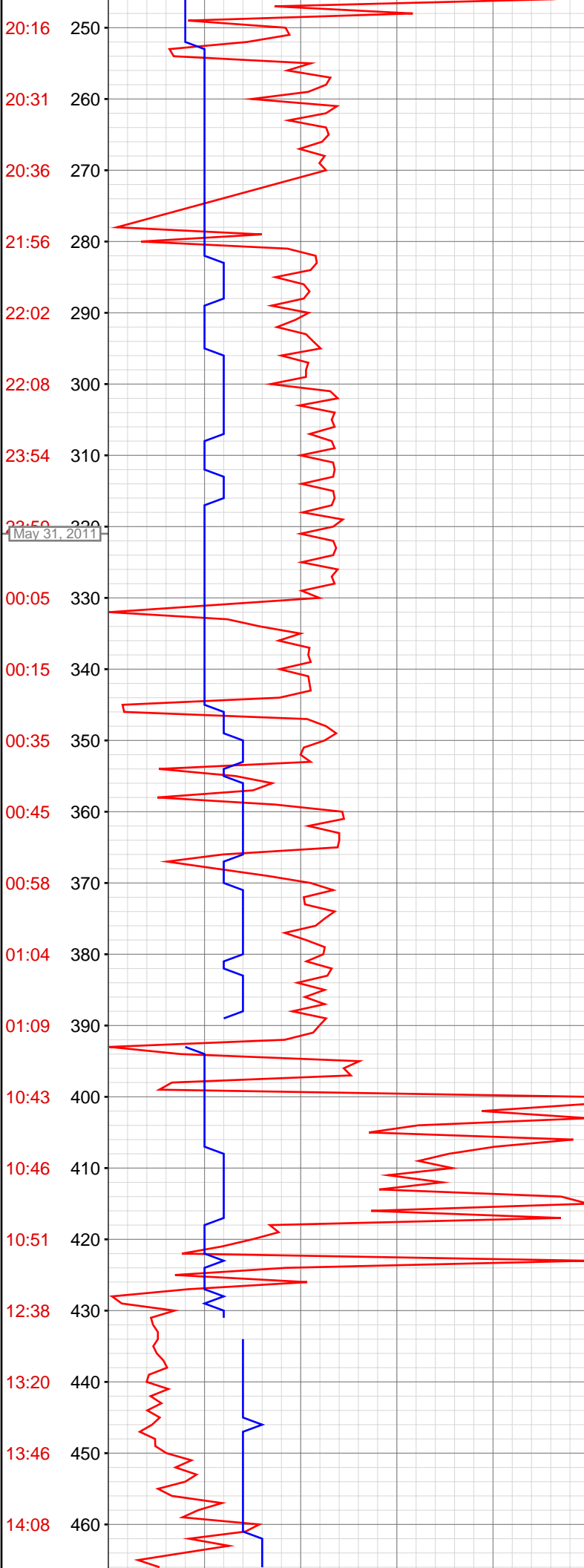


OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: ORCHARD UNIT 15-12H (D14OU) SURFACE
FIELD:
LOCATION: SEC. 14 T8S R96W MER 6PM
COUNTRY: USA
RIG: Pat-UTI 330

CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 050771014600
SPUD DATE: May 30, 2011 12:30
RELEASE DATE: Jun 04, 2011 18:00





246.00ft: ZDiffPressure from SideKick sk-11-11-0402
 246.00ft: MUD WEIGHT 8.60
 246.00ft: MUD PH 10.70
 252.59ft: SWEEP

270.00ft: MUD VIS 48.00
 270.00ft: MUD WEIGHT 8.60
 270.00ft: MUD PH 10.70
 270.00ft: ZDiffPressure from SideKick sk-11-11-0402
 270.00ft: ZWOB from SideKick sk-11-11-0402
 270.00ft: BIT DEPTH CHANGED TO 277.0 FEET

279.00ft: RPM HIGH READING RECALIBRATED
 280.00ft: TORQUE HIGH READING RECALIBRATED

291.00ft: MUD VIS 47.00
 291.00ft: MUD WEIGHT 8.70
 291.00ft: MUD PH 10.60
 296.00ft: RPM HIGH READING RECALIBRATED
 300.00ft: 021TGAS 04100442 SW0.30 HW30.00 - 123 days on
 300.00ft: 008TGAS-Check dryer cable (rig air)
 300.00ft: BIT DEPTH CHANGED TO 298.0 FEET
 300.00ft: MUD VIS 47.00
 300.00ft: MUD WEIGHT 8.70
 300.00ft: ZDiffPressure from SideKick sk-11-11-0402
 300.16ft: GYRO 240' 1.25 @ 132 TF257
 300.16ft: MUD PH 10.60
 300.16ft: ZWOB from SideKick sk-11-11-0402

316.00ft: MUD WEIGHT 8.70
 316.55ft: MUD VIS 44.00
 317.00ft: MUD PH 10.70

386.00ft: MUD VIS 45.00
 386.00ft: MUD WEIGHT 8.70
 387.00ft: MUD PH 10.80
 392.00ft: BIT DEPTH CHANGED TO 390.0 FEET
 392.00ft: 008TGAS-Check dryer cable (rig air)
 392.00ft: MUD VIS 45.00
 392.00ft: MUD WEIGHT 8.70
 392.00ft: MUD PH 10.70
 393.00ft: GYRO @ 338' INC 2.0 AZI 147 TF 211
 393.00ft: BIT DEPTH CHANGED TO 83.2 FEET
 393.00ft: BIT DEPTH CHANGED TO 142.0 FEET
 393.00ft: BIT DEPTH CHANGED TO 238.0 FEET
 393.00ft: MUD VIS 45.00
 393.00ft: MUD WEIGHT 8.70
 393.00ft: MUD PH 10.00
 393.00ft: BIT DEPTH CHANGED TO 330.0 FEET
 393.00ft: 008TGAS-Check dryer cable (rig air)
 393.00ft: HOOK LOAD HIGH RECALIBRATED
 393.00ft: ZWOB from SideKick sk-11-11-0402
 393.37ft: ZDiffPressure from SideKick sk-11-11-0402

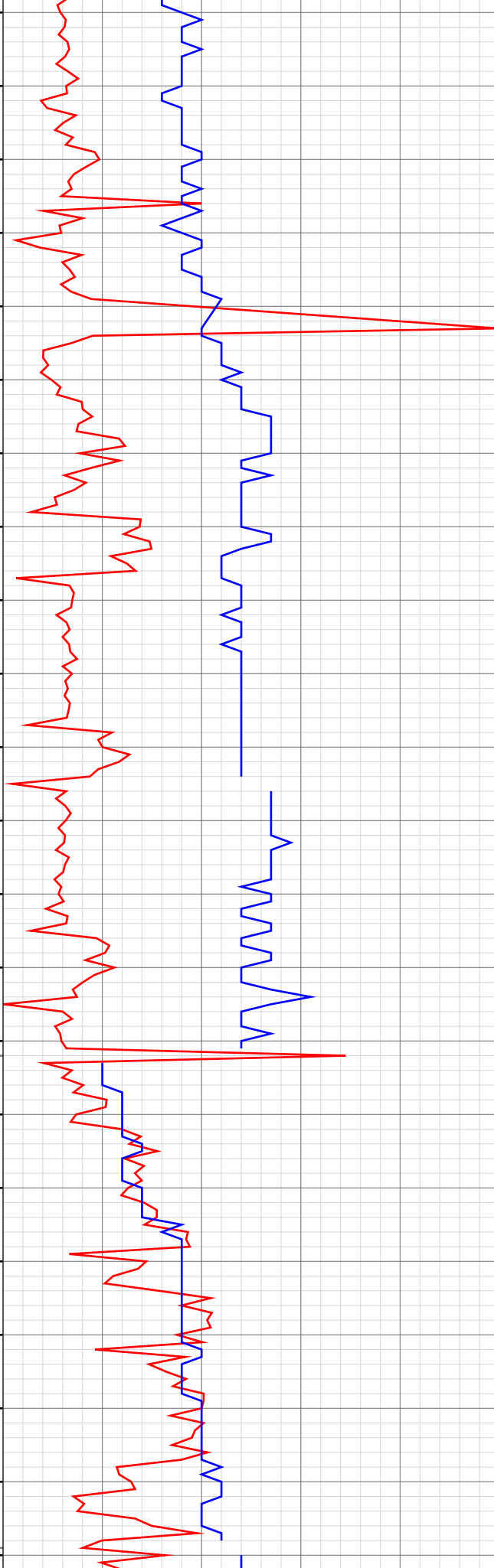
422.00ft: MUD VIS 45.00
 422.00ft: MUD WEIGHT 8.70
 422.00ft: BIT DEPTH CHANGED TO 420.0 FEET
 422.00ft: ZDiffPressure from SideKick sk-11-11-0402
 422.87ft: ZWOB from SideKick sk-11-11-0402
 426.00ft: ZDiffPressure from SideKick sk-11-11-0402

433.38ft: SLIDING

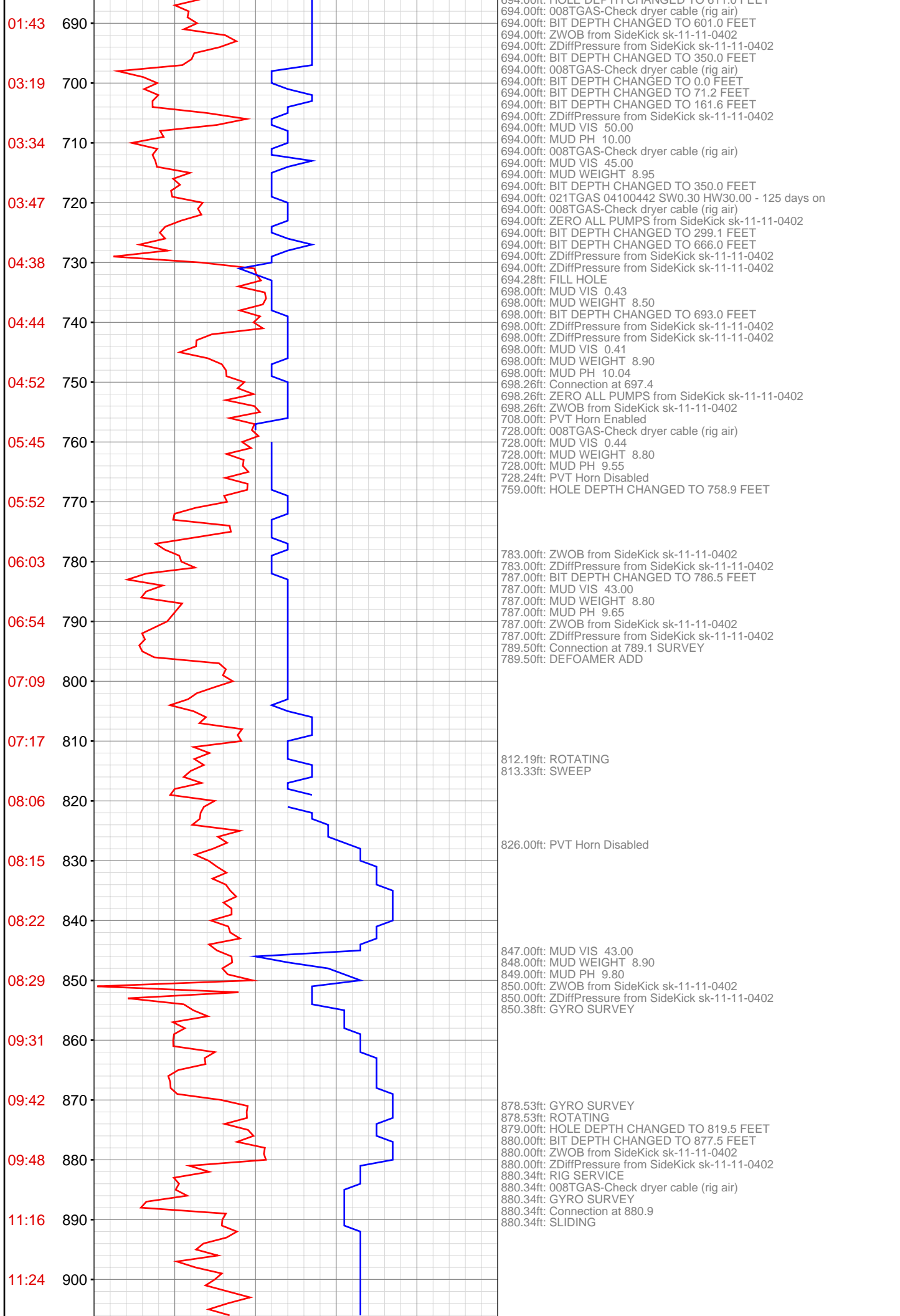
438.00ft: RPM LOW READING RECALIBRATED

455.00ft: MUD VIS 42.00
 455.00ft: MUD WEIGHT 8.70
 457.00ft: RPM HIGH READING RECALIBRATED

14:27 470
14:46 480
15:13 490
15:36 500
18:04 510
18:32 520
18:47 530
19:05 540
19:25 550
19:44 560
20:03 570
20:29 580
20:50 590
21:09 600
22:06 610
Jun 01, 2011
05:15 620
05:25 630
06:11 640
06:18 650
06:31 660
07:10 670
Jun 02, 2011
07:35 680

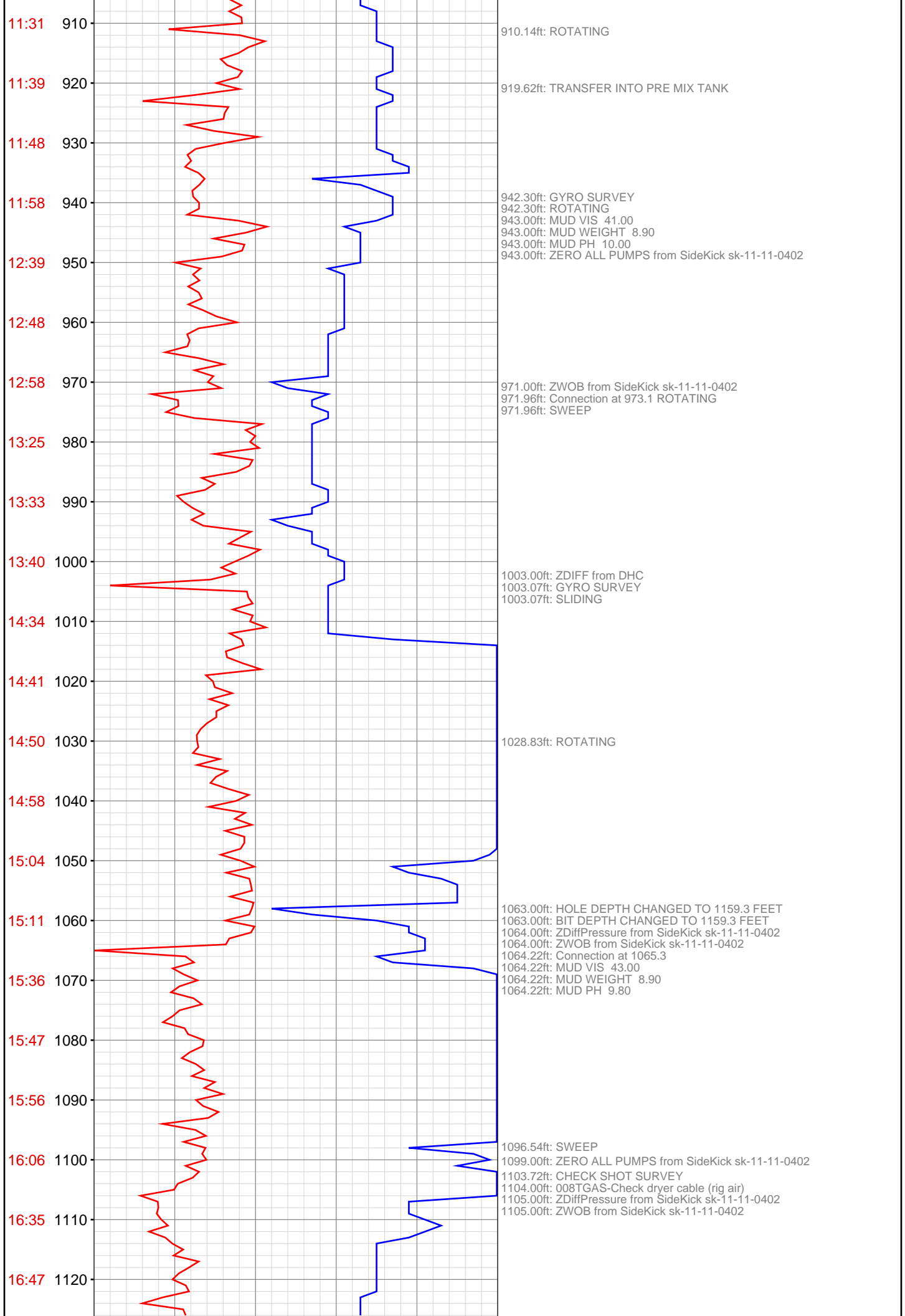


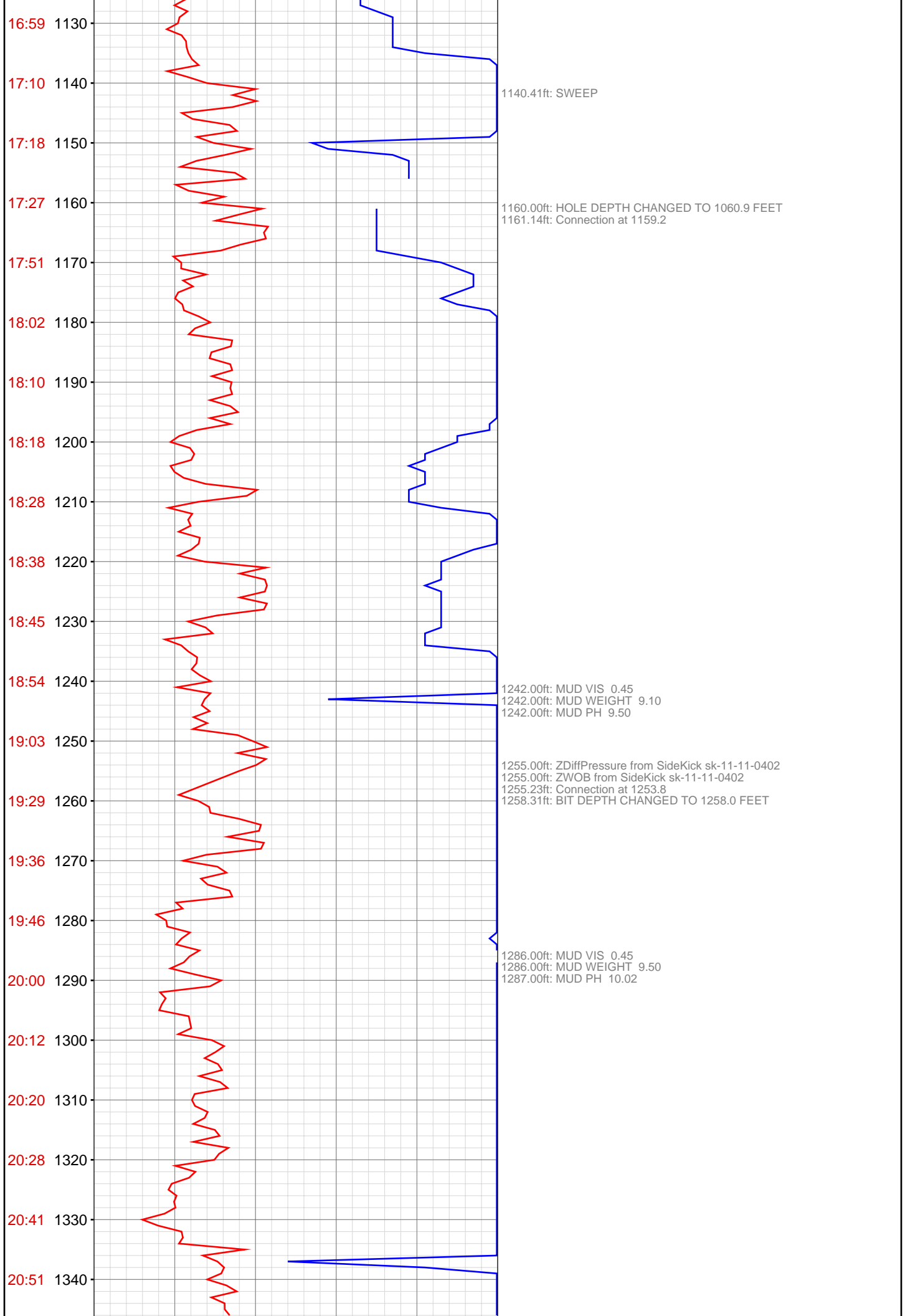
485.00ft: ZWOB from SideKick sk-11-11-0402
485.00ft: ZDiffPressure from SideKick sk-11-11-0402
509.00ft: MUD VIS 45.00
509.00ft: MUD WEIGHT 8.70
513.00ft: ZWOB from SideKick sk-11-11-0402
513.00ft: ZDiffPressure from SideKick sk-11-11-0402
518.00ft: MUD VIS 47.00
518.00ft: MUD WEIGHT 8.70
518.00ft: MUD PH 9.70
531.15ft: ADDING DEFOAMER TO ACTIVE
546.00ft: ZDiffPressure from SideKick sk-11-11-0402
546.00ft: ZDiffPressure from SideKick sk-11-11-0402
546.74ft: CHECK SHOT SURVEY @ 480' INC-3.51 AZI-152.39
559.00ft: MUD VIS 48.00
559.00ft: MUD WEIGHT 8.80
559.00ft: MUD PH 9.90
574.50ft: CHECK SHOT SURVEY @ 511' INC-3.60 AZI-145.96
597.00ft: MUD WEIGHT 8.90
597.00ft: MUD PH 9.70
597.13ft: MUD VIS 48.00
604.08ft: Connection at 605.3
605.00ft: IN TALLY: HOLE DEPTH SET TO 605.3
605.00ft: ZDiffPressure from SideKick sk-11-11-0402
605.00ft: ZWOB from SideKick sk-11-11-0402
605.00ft: BIT DEPTH CHANGED TO 602.0 FEET
605.31ft: GYRO AND MWD SURVEY
605.31ft: SURVEY @ 540' INC-3.90 AZI-140.92 (AZI QUALIFIERS STILL OFF)
607.21ft: GYRO SURVEY @ 518' INC-3.75 AZI-134 TF-328
611.00ft: 021TGAS 04100442 SW0.30 HW30.00 - 124 days on
611.00ft: 008TGAS-Check dryer cable (rig air)
611.00ft: MUD VIS 49.00
611.00ft: MUD WEIGHT 8.90
611.00ft: MUD PH 10.00
611.00ft: BIT DEPTH CHANGED TO 0.0 FEET
613.00ft: MUD VIS 46.00
613.00ft: MUD WEIGHT 8.90
613.00ft: MUD PH 9.70
638.00ft: MUD WEIGHT 8.90
638.00ft: MUD PH 10.30
638.00ft: ZDiffPressure from SideKick sk-11-11-0402
638.18ft: MUD VIS 47.00
638.18ft: GYRO SURVEY @ 553' INC-3.75 AZI-131 TF-114
638.18ft: ZWOB from SideKick sk-11-11-0402
651.00ft: ZWOB from SideKick sk-11-11-0402
651.00ft: ZDiffPressure from SideKick sk-11-11-0402
651.17ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
668.06ft: GYRO SURVEY @ 585' INC-4.5 AZI-128 TF-135
672.57ft: SWEEP
674.00ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
674.71ft: ROTATING
678.30ft: HOLE DEPTH CHANGED TO 678.3 FEET
678.30ft: ADD DEFOAMER
678.30ft: MUD WEIGHT 8.90
678.30ft: MUD PH 9.90
678.30ft: COM CH 100% DMAN TIE OFF
678.30ft: FILL HOLE
678.30ft: ZDiffPressure from SideKick sk-11-11-0402
678.69ft: COM CH 100% DMAN TIE OFF CS MD WG BF TH CS KH
694.00ft: MUD VIS 49.00
694.00ft: MUD WEIGHT 8.80
694.00ft: MUD PH 9.90
694.00ft: MUD VIS 45.00
694.00ft: MUD WEIGHT 8.85
694.00ft: MUD PH 9.50
694.00ft: HOLE DEPTH CHANGED TO 611.0 FEET

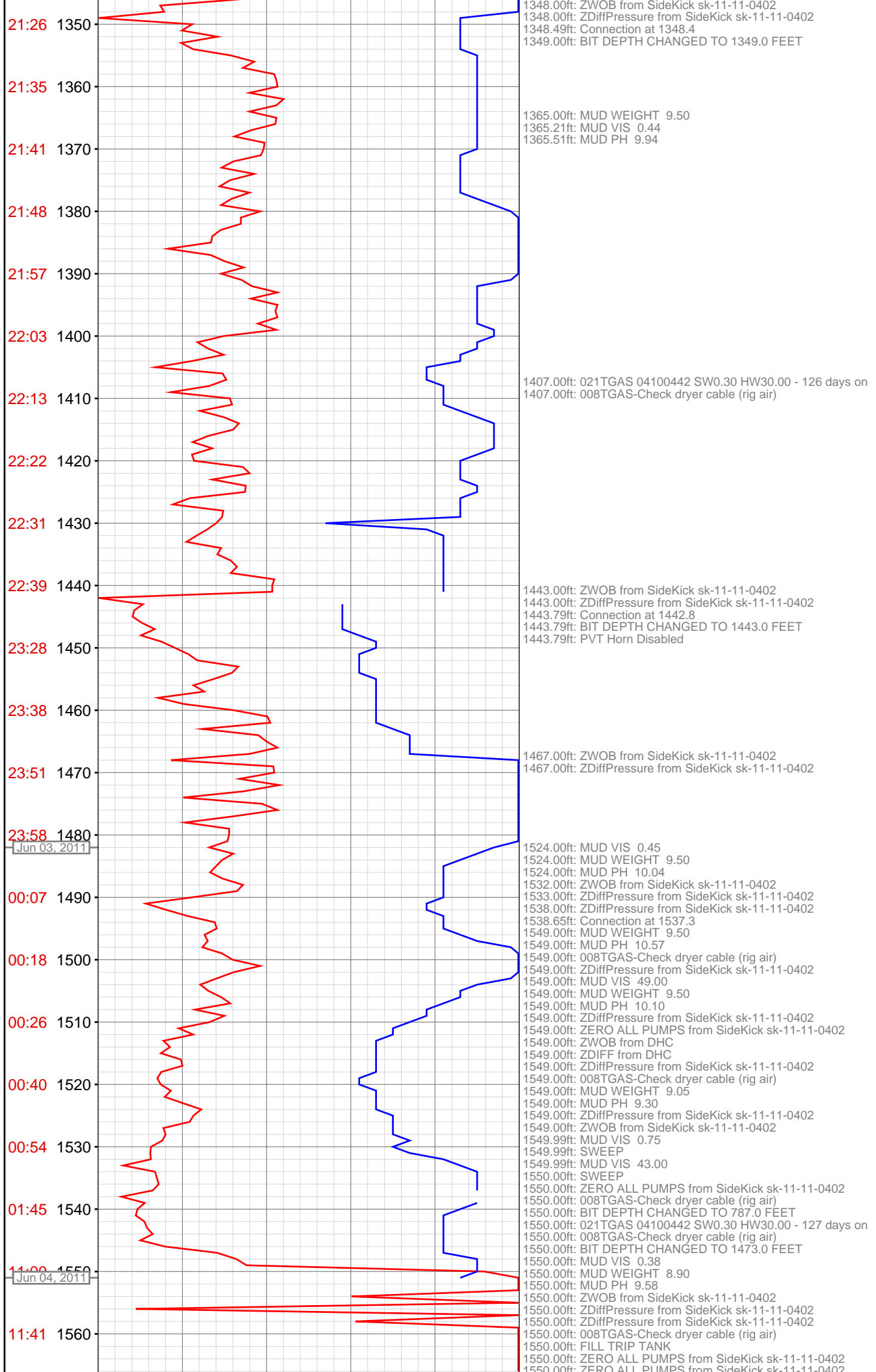


01:43 690
 03:19 700
 03:34 710
 03:47 720
 04:38 730
 04:44 740
 04:52 750
 05:45 760
 05:52 770
 06:03 780
 06:54 790
 07:09 800
 07:17 810
 08:06 820
 08:15 830
 08:22 840
 08:29 850
 09:31 860
 09:42 870
 09:48 880
 11:16 890
 11:24 900

694.00ft: HOLE DEPTH CHANGED TO 611.0 FEET
 694.00ft: 008TGAS-Check dryer cable (rig air)
 694.00ft: BIT DEPTH CHANGED TO 601.0 FEET
 694.00ft: ZWOB from SideKick sk-11-11-0402
 694.00ft: ZDiffPressure from SideKick sk-11-11-0402
 694.00ft: BIT DEPTH CHANGED TO 350.0 FEET
 694.00ft: 008TGAS-Check dryer cable (rig air)
 694.00ft: BIT DEPTH CHANGED TO 0.0 FEET
 694.00ft: BIT DEPTH CHANGED TO 71.2 FEET
 694.00ft: BIT DEPTH CHANGED TO 161.6 FEET
 694.00ft: ZDiffPressure from SideKick sk-11-11-0402
 694.00ft: MUD VIS 50.00
 694.00ft: MUD PH 10.00
 694.00ft: 008TGAS-Check dryer cable (rig air)
 694.00ft: MUD VIS 45.00
 694.00ft: MUD WEIGHT 8.95
 694.00ft: BIT DEPTH CHANGED TO 350.0 FEET
 694.00ft: 021TGAS 04100442 SW0.30 HW30.00 - 125 days on
 694.00ft: 008TGAS-Check dryer cable (rig air)
 694.00ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
 694.00ft: BIT DEPTH CHANGED TO 299.1 FEET
 694.00ft: BIT DEPTH CHANGED TO 666.0 FEET
 694.00ft: ZDiffPressure from SideKick sk-11-11-0402
 694.00ft: ZDiffPressure from SideKick sk-11-11-0402
 694.28ft: FILL HOLE
 698.00ft: MUD VIS 0.43
 698.00ft: MUD WEIGHT 8.50
 698.00ft: BIT DEPTH CHANGED TO 693.0 FEET
 698.00ft: ZDiffPressure from SideKick sk-11-11-0402
 698.00ft: ZDiffPressure from SideKick sk-11-11-0402
 698.00ft: MUD VIS 0.41
 698.00ft: MUD WEIGHT 8.90
 698.00ft: MUD PH 10.04
 698.26ft: Connection at 697.4
 698.26ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
 698.26ft: ZWOB from SideKick sk-11-11-0402
 708.00ft: PVT Horn Enabled
 728.00ft: 008TGAS-Check dryer cable (rig air)
 728.00ft: MUD VIS 0.44
 728.00ft: MUD WEIGHT 8.80
 728.00ft: MUD PH 9.55
 728.24ft: PVT Horn Disabled
 759.00ft: HOLE DEPTH CHANGED TO 758.9 FEET
 783.00ft: ZWOB from SideKick sk-11-11-0402
 783.00ft: ZDiffPressure from SideKick sk-11-11-0402
 787.00ft: BIT DEPTH CHANGED TO 786.5 FEET
 787.00ft: MUD VIS 43.00
 787.00ft: MUD WEIGHT 8.80
 787.00ft: MUD PH 9.65
 787.00ft: ZWOB from SideKick sk-11-11-0402
 787.00ft: ZDiffPressure from SideKick sk-11-11-0402
 789.50ft: Connection at 789.1 SURVEY
 789.50ft: DEFOAMER ADD
 812.19ft: ROTATING
 813.33ft: SWEEP
 826.00ft: PVT Horn Disabled
 847.00ft: MUD VIS 43.00
 848.00ft: MUD WEIGHT 8.90
 849.00ft: MUD PH 9.80
 850.00ft: ZWOB from SideKick sk-11-11-0402
 850.00ft: ZDiffPressure from SideKick sk-11-11-0402
 850.38ft: GYRO SURVEY
 878.53ft: GYRO SURVEY
 878.53ft: ROTATING
 879.00ft: HOLE DEPTH CHANGED TO 819.5 FEET
 880.00ft: BIT DEPTH CHANGED TO 877.5 FEET
 880.00ft: ZWOB from SideKick sk-11-11-0402
 880.00ft: ZDiffPressure from SideKick sk-11-11-0402
 880.34ft: RIG SERVICE
 880.34ft: 008TGAS-Check dryer cable (rig air)
 880.34ft: GYRO SURVEY
 880.34ft: Connection at 880.9
 880.34ft: SLIDING







11:41 1570
11:42 1580
1590

1550.00ft: BIT DEPTH CHANGED TO 317.5 FEET
1550.00ft: BIT DEPTH CHANGED TO 498.5 FEET
1550.00ft: 008TGAS-Check dryer cable (rig air)
1550.00ft: BIT DEPTH CHANGED TO 769.5 FEET
1550.00ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
1550.00ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
1550.00ft: LOW1000 & HIGH PRESSURE TEST 3800PSI
1550.00ft: PLUG AWAY
1550.11ft: SWEEP
1588.00ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
1588.00ft: HOLE DEPTH CHANGED TO 1550.0 FEET
1588.00ft: BIT DEPTH CHANGED TO 1528.4 FEET
1588.00ft: 008TGAS-Check dryer cable (rig air)
1588.00ft: 003TGAS-Manual flush
1588.00ft: 012TGAS-Analyzer air pressure low, check air supply. Standby
1588.00ft: 022TGAS-Trap needs service
1588.00ft: 046TGAS-Analyzer air pressure = zero, check air supply. Standby

