



Company : Beach Petroleum
 Well : Spikey Beach-1
 Interval : 66.00 - 1770.25 meters
 Created : 12/Sep/2009 3:23:35 PM



INTEQ

FORMATION EVALUATION LOG

DRILLING PARAM		MD meters 1:500	Oil Show P F G	LITHOLOGY %	CORE	TOTAL GAS	CHROMATOGRAPH	Calcimetry	Lithology Description
ROP (m/hr)						Total Gas (unit)	Methane ppm		
250	200	150	100	50		10 100 1000 10000	1 Methane ppm 100000		
WEIGHT ON BIT (klbf)							1 Ethane ppm 100000		
ROP Backup (m/hr)							1 Propane ppm 100000		
GAMMA RAY (API)							1 iso-Butane ppm 100000		
							1 n-Butane ppm 100000		
							1 iso-Pentane ppm 100000		
							1 n-Pentane ppm 100000		

		70							
		80							
		90							
		100							
		110							
		120							
		130							
		140							
		150							
		160							

NB1: 660mm (26") x 914mm
 (36") H/Openner
 Make: Hughes
 Type: CR1
 Jets: 3x20,1x16
 Depth In: 95.5m
 Depth Out: 155.0m
 Drilled: 59.5m in 1.7hrs
 Grade: 0-0-NO-A10-I-NO-TD

All depth measurements in meters referenced from Rotary Table (RT)
 RT-MSL: 21.5mMD
 Water Depth: 74.0mMD
 RT-Seabed: 95.5mMD

Spud Spikey Beach-1 @ 21:00hrs on 5-Sep-09

Drill 914mm (36") hole with seawater and Hi-Vis Sweeps
 Returns to Seabed

Type: SW w/PHG
 MW: 8.8 ppg FV: 100
 PV: - Gel: -
 YP: - pH: 9.5

Set 762mm (30") x 508mm (20") casing shoe at 151.4mMDRT

Drill 445mm (17-1/2") hole with seawater and Hi-Vis Sweeps
 Returns to Seabed

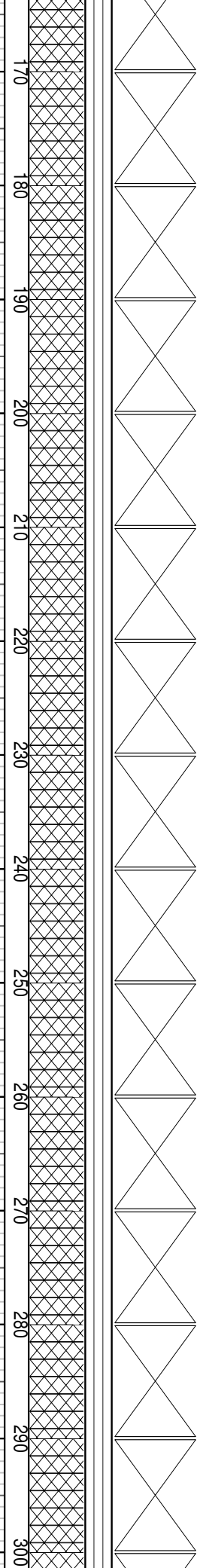
5 Sep 09
 7 Sep 09

NB2: 445mm (17-1/2")
Make: Hughes
Type: GX-CIV
Jets: 3x18,1x16
Depth In: 155.0m
Depth Out: 816.0m
Drilled: 661.0m in 9.2hrs
Grade: 1-1-WT-A-1-IN-NO-TD

7 Sep 09
8 Sep 09

WOB: 1 - 21 klbf
RPM: 0 - 83
SPP: 108 - 2098 psi
GPM: 401 - 1059

WOB: 1 - 12 klbf



Type: SW w/PHG
MW: 8.8 ppg FV: 100
PV: - Gel: -
YP: - pH: 9.0

MD: 206.93 INC: 0.26
AZI: 39.46 TVD: 206.93

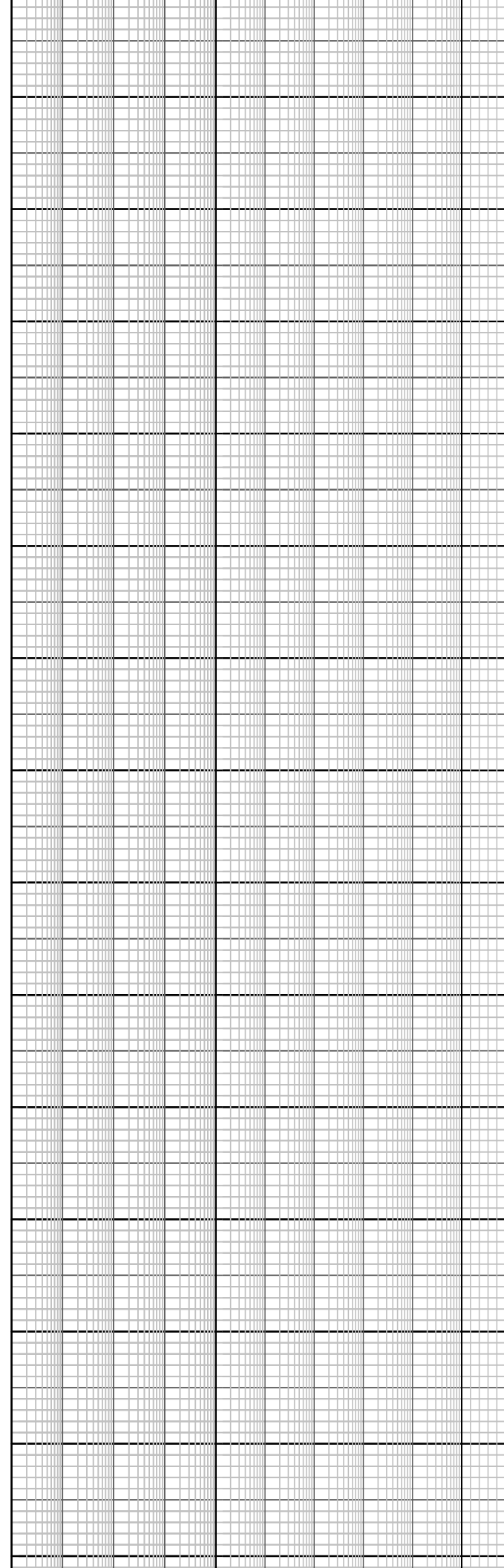
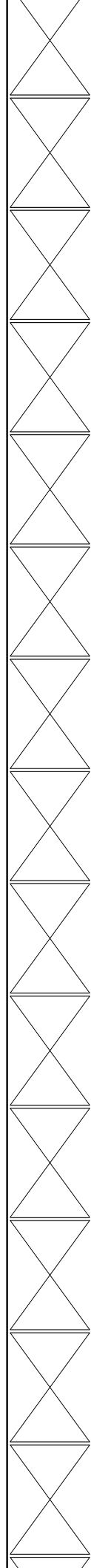
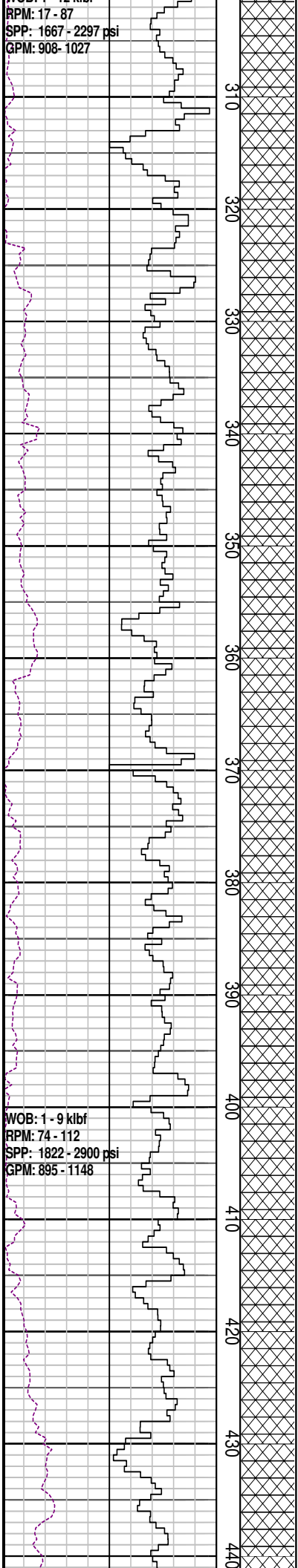
Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

MD: 294.67 INC: 0.38
AZI: 50.78 TVD: 294.66

Drill 445mm (17-1/2") hole with seawater

RPM: 17 - 87
SPP: 1667 - 2297 psi
GPM: 908 - 1027

WOB: 1 - 9 klbf
RPM: 74 - 112
SPP: 1822 - 2900 psi
GPM: 895 - 1148

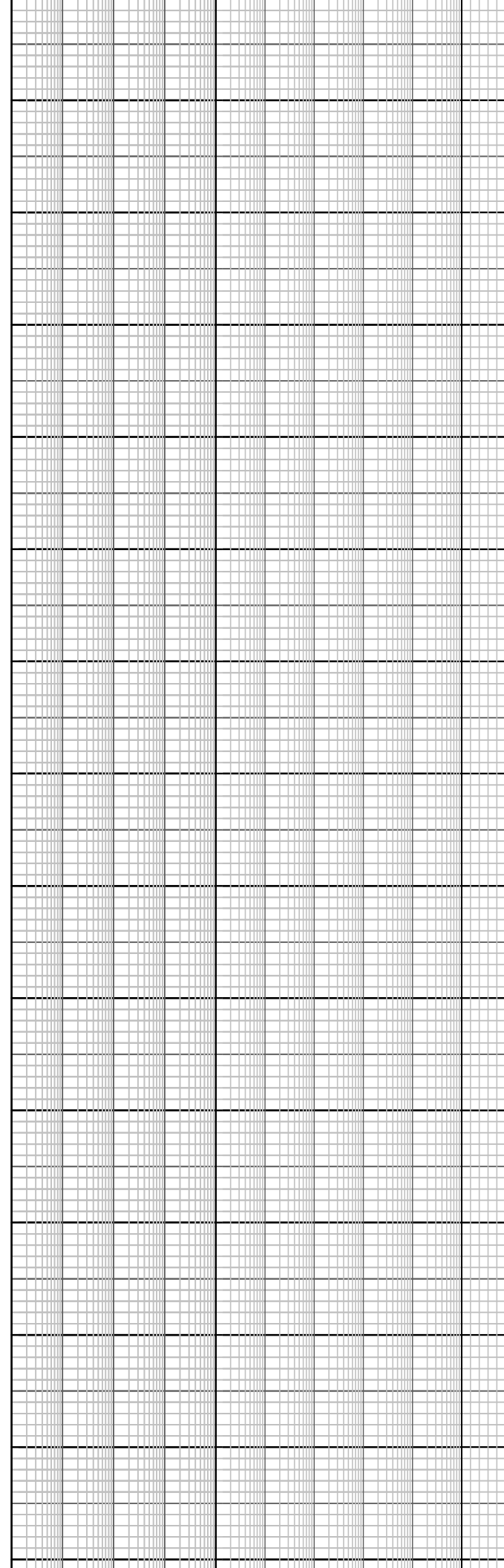
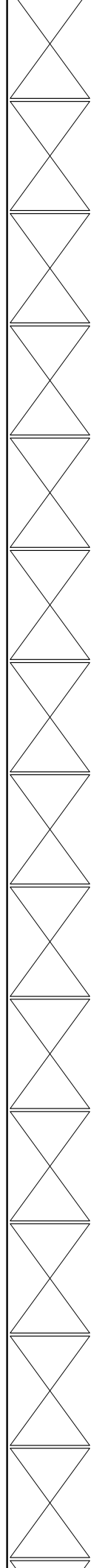
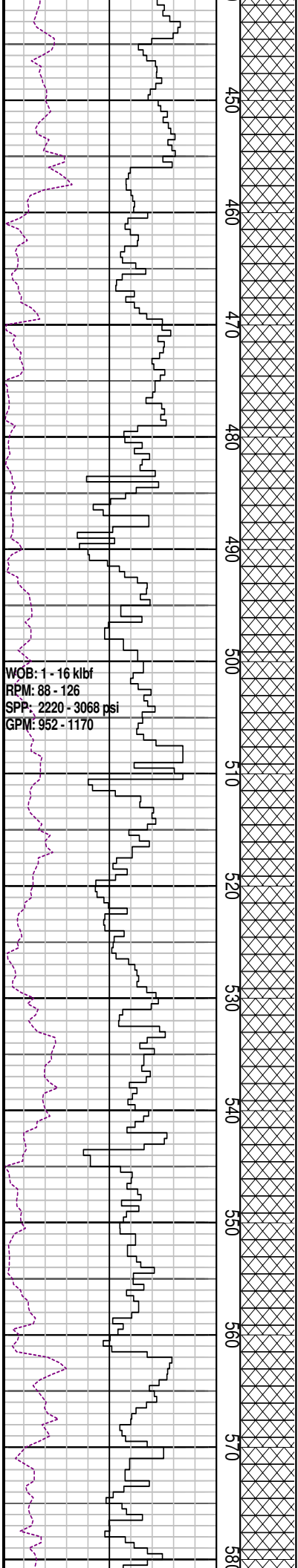


Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

MD: 382.26 INC: 0.19
AZI: 46.93 TVD: 382.26

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed



Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

MD: 468.33 INC: 0.04
AZI: 58.55 TVD: 468.33

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

MD: 556.06 INC: 0.15
AZI: 271.41 TVD: 556.06

WOB: 1 - 15 klbf
RPM: 114 - 152
SPP: 2192 - 3165 psi
GPM: 965 - 1112

WOB: 1 - 16 klbf
RPM: 96 - 153
SPP: 2722 - 3258 psi
GPM: 1058 - 1115

590
600
610
620
630
640
650
660
670
680
690
700
710
72

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

MD: 642.56 INC: 0.27
AZI: 259.95 TVD: 642.56

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

MD: 727.80 INC: 0.26
AZI: 253.63 TVD: 727.80

Drill 445mm (17-1/2") hole with seawater
and Hi-Vis Sweeps
Returns to Seabed

MD: 786.24 INC: 0.17
AZI: 243.78 TVD: 786.23

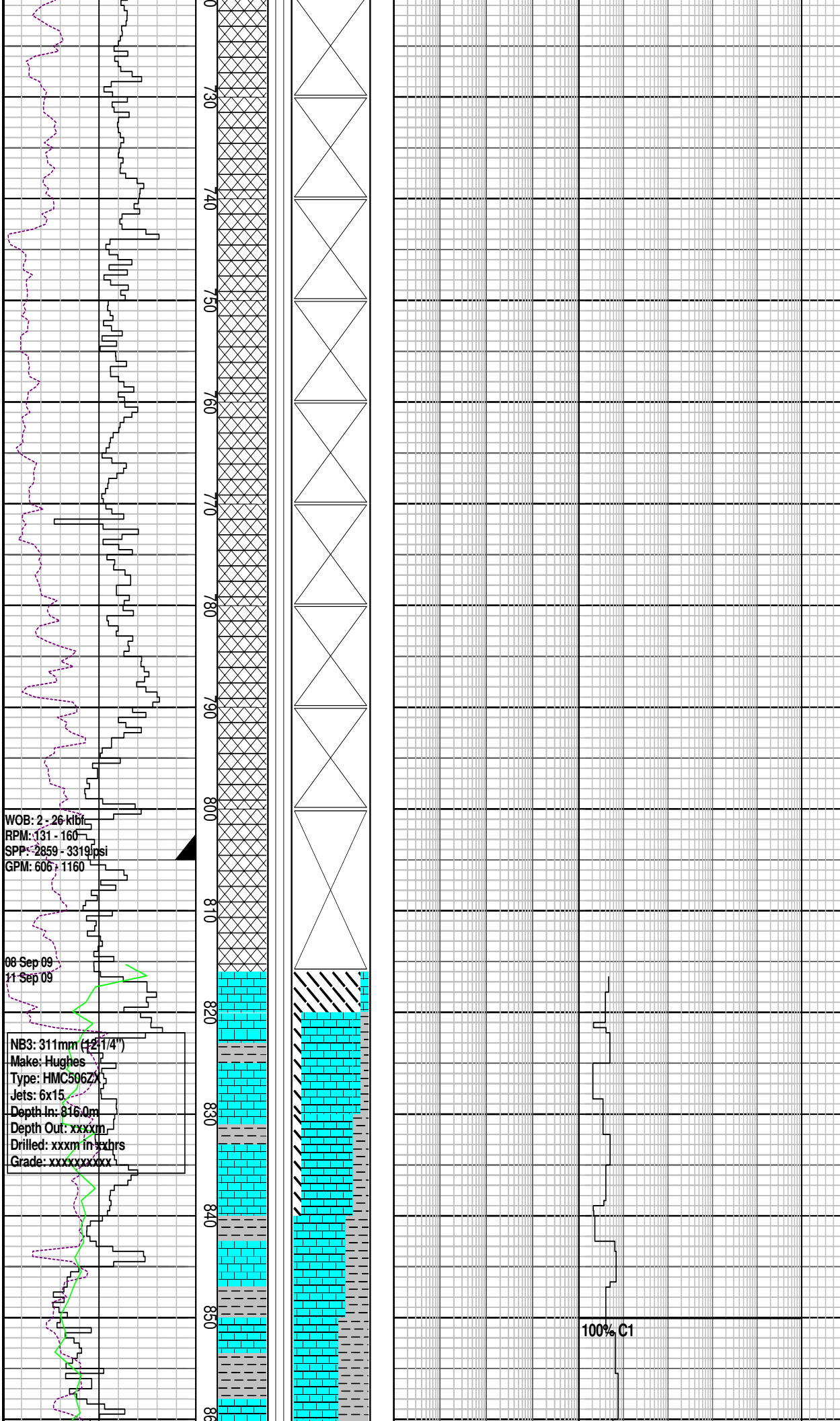
Set 340mm (13-3/8") casing shoe at
805.8mMDRT

LOT @ 805.74m with 9.0 ppg
EMW: 12.34 ppg @ 460 psi

MD: 803.80 INC: 0.17
AZI: 265.12 TVD: 803.80

CALARENITE: lt gy-wh, lt bl gy, abdt foss,
com v f-f qtz gr, rr sid, frm-mod hd,
sbbiky-blky

CALCAREOUS CLAYSTONE: lt-m gy, m
dk gy, lt olv gy-lt brn gy, sli aren, tr carb
spks, rr v f glauc gr, sft-frm, sbbiky-blky

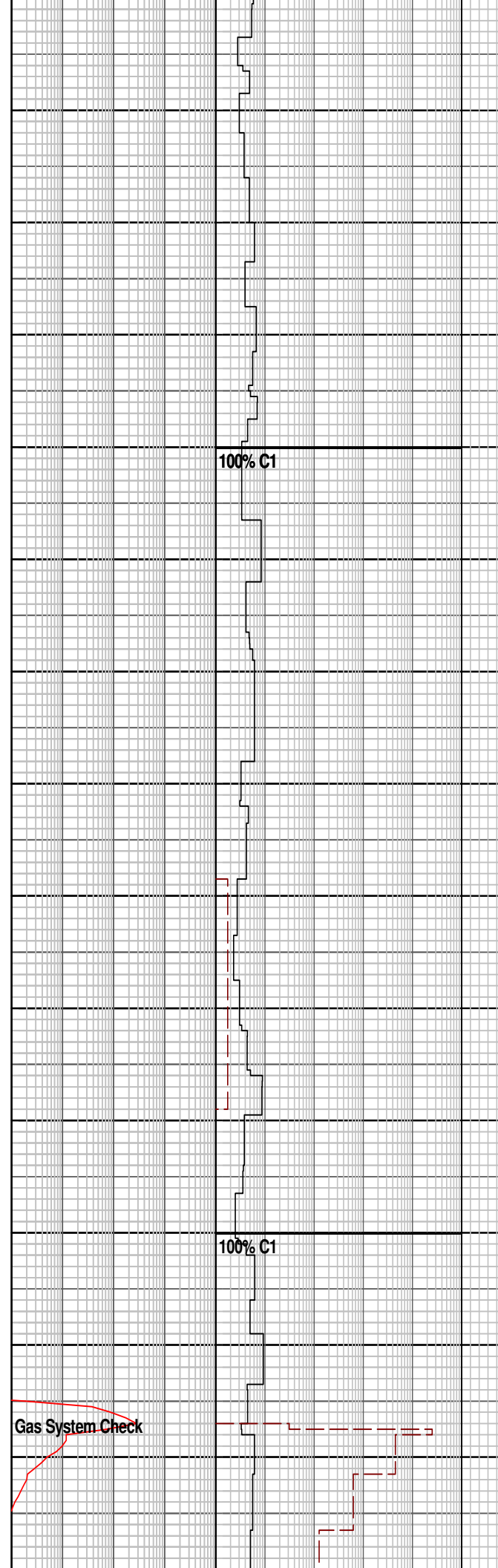
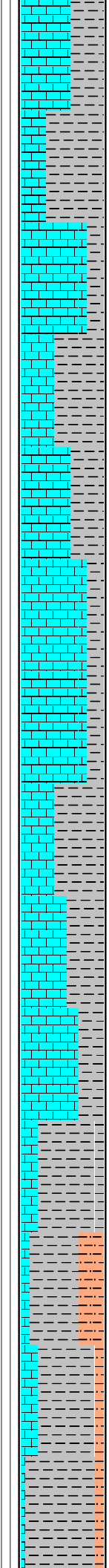
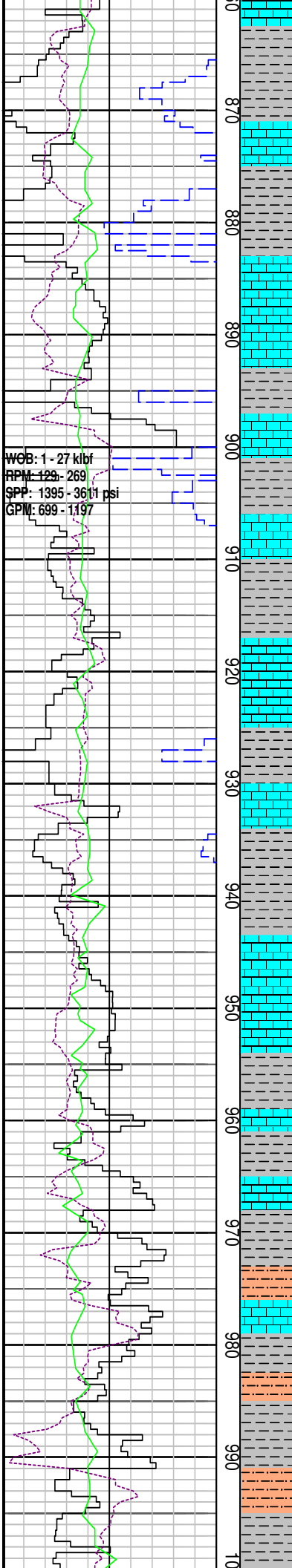


WOB: 2 - 26 klbf
RPM: 131 - 160
SPP: 2859 - 3319 psi
GPM: 606 - 1160

08 Sep 09
11 Sep 09

NB3: 311mm (12 1/4")
Make: Hughes
Type: HMC506ZX
Jets: 6x15
Depth In: 816.0m
Depth Out: xxxm
Drilled: xxxm in xxxhrs
Grade: xxxxxxxx

100% C1



CALCARENITE: lt gy-wh, lt bl gy, abdt foss, com v f-f qtz gr, rr sid, frm-mod hd, sbblky-blky

MD: 879.04 INC: 0.43
 AZI: 77.12 TVD: 879.04

CALCAREOUS CLAYSTONE: lt-m gy, m dk gy, lt olv gy-lt brn gy, sli aren, tr carb spks, rr v f glauc gr, frm-mod hd, sbblky-blky

100% C1

CALCARENITE: lt-m gy, lt bl gy-wh, lt brn gy, com vf qtz grn, com foss frag, tr carb spks, fri, sbblky-blky

CALCAREOUS CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, com foss frag, tr carb spks & mic lam, tr vf glauc gr, frm-mod hd, sbblky-blky

CALCARENITE: lt-m gy, lt bl gy-wh, lt brn gy, com vf qtz gr, com foss frag, tr carb spks, frm, sbblky-blky

CALCAREOUS CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, com foss frag, tr carb spks & mic lam, tr vf glauc gr, frm-mod hd, sbblky-blky

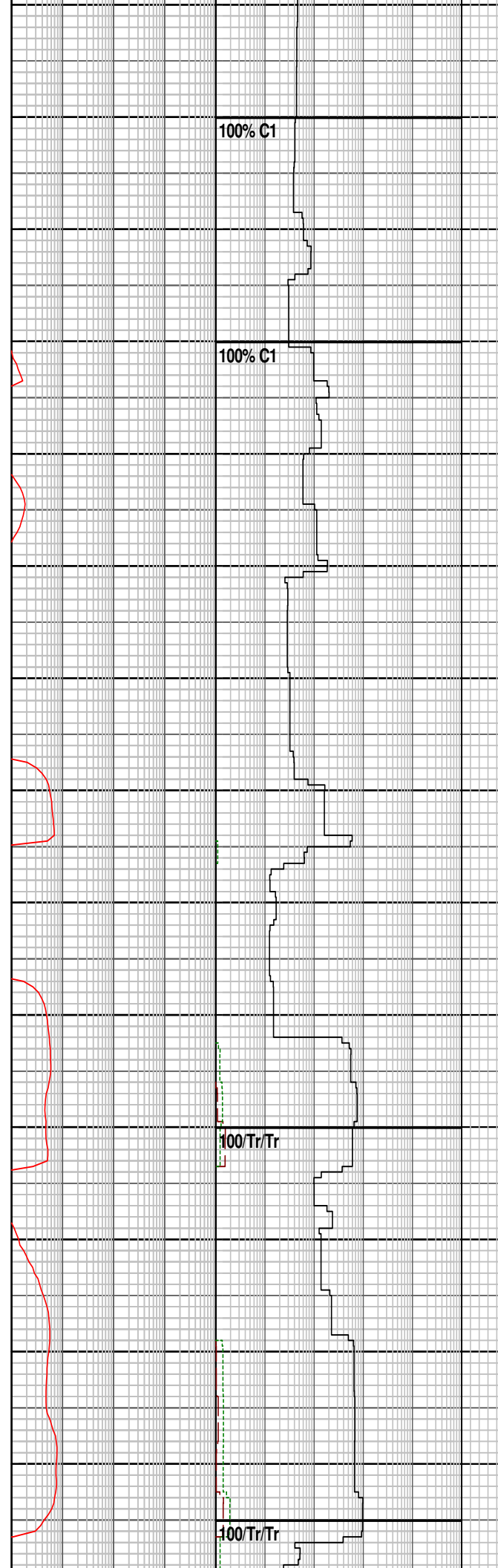
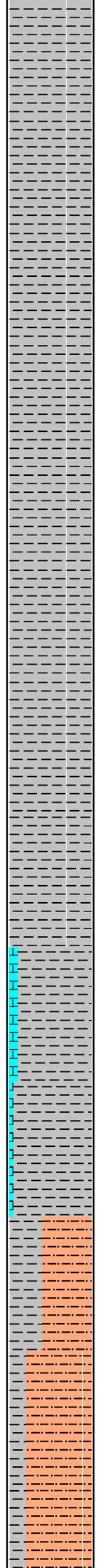
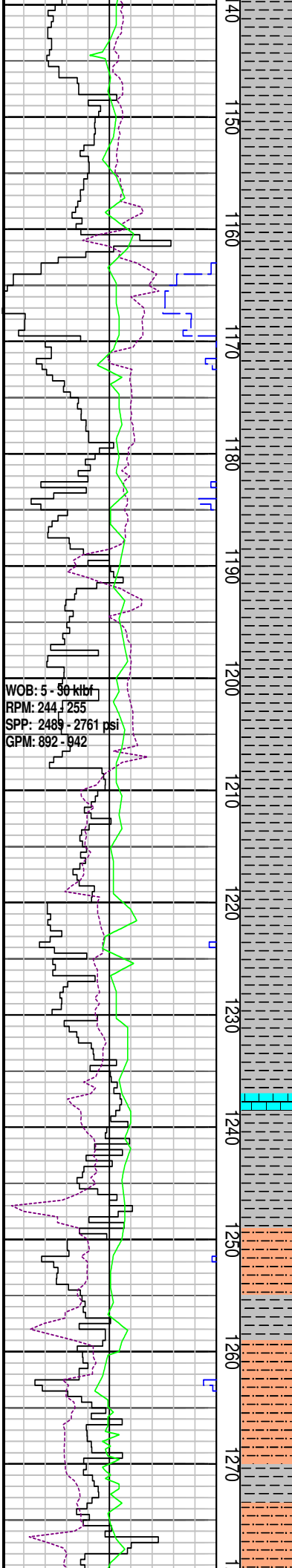
100% C1

CALCAREOUS SILTSTONE: m-dk gy, m olv gy, m brn gy, arg, grd to aren CLYST, tr-com foss frag, tr carb spks, tr glauc, frm, sbblky-blky

Gas System Check

CALCAREOUS CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, tr carb spks & mic lam, tr vf glauc gr, tr foss frag, frm-mod hd, blk

MD: 990.83 INC: 0.34
 AZI: 90.11 TVD: 990.83



100% C1

CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, mod-strg calc, tr carb spks & mic lam, tr disse pyr, tr vf glauc gr, tr foss frag, rr micmic, frm-mod hd, sbblky-blky

MD: 1164.94 INC: 0.40
AZI: 84.09 TVD: 1164.93

100% C1

CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, mod-strg calc, tr carb spks & mic lam, tr disse pyr, tr vf glauc gr, tr foss frag, rr micmic, frm-mod hd, sbblky-blky

MD: 1191.86 INC: 0.35
AZI: 86.03 TVD: 1191.85

CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, calc, tr carb spks & mic lam, com disse & nod pyr, tr vf glauc gr, tr foss frag, rr micmic, frm-mod hd, sbblky-blky

MD: 1221.27 INC: 0.44
AZI: 97.02 TVD: 1221.20

CALCARENITE: lt brn-lt brn gy, bu, com vf qtz gr, tr foss frag, mod hd-hd, blky

100/Tr/Tr

SILTSTONE: lt-m brn, lt-m brn gy, com vf sd gr, n-wk calc, tr-com micmic & glauc, tr disse pyr, tr carb spks, sft-frm, sbblky-blky, grd to vf SST

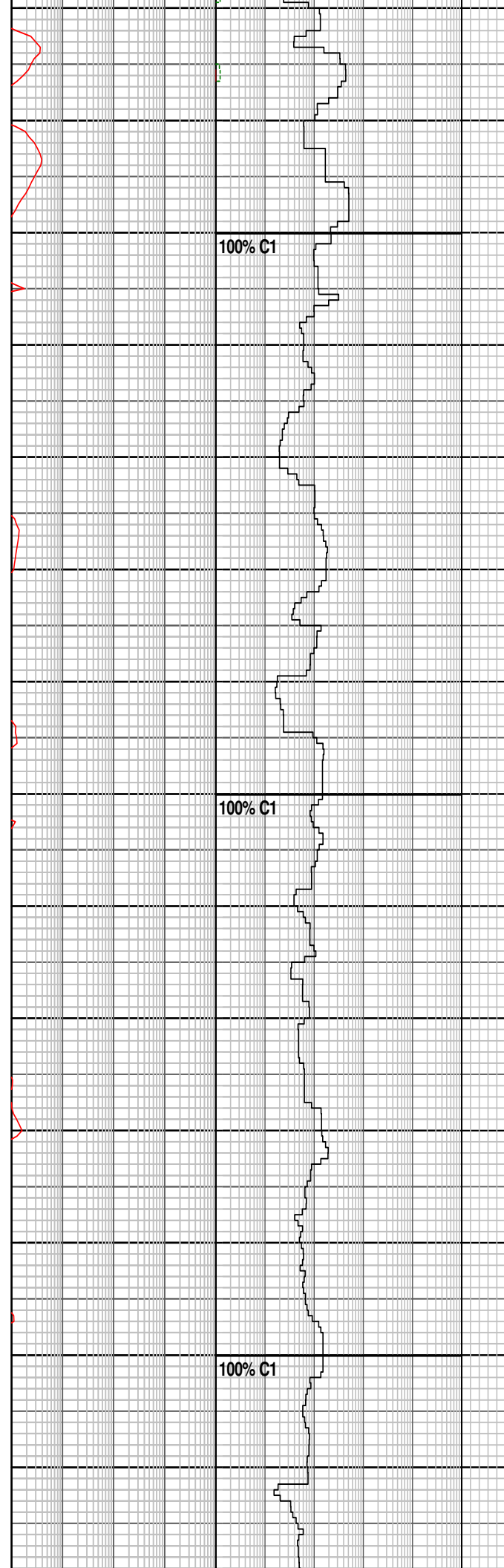
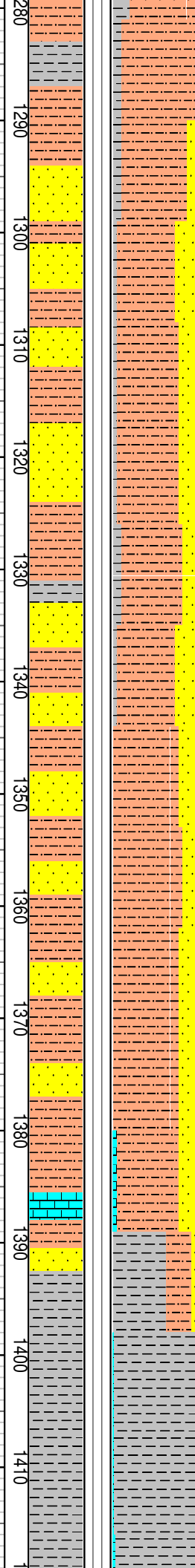
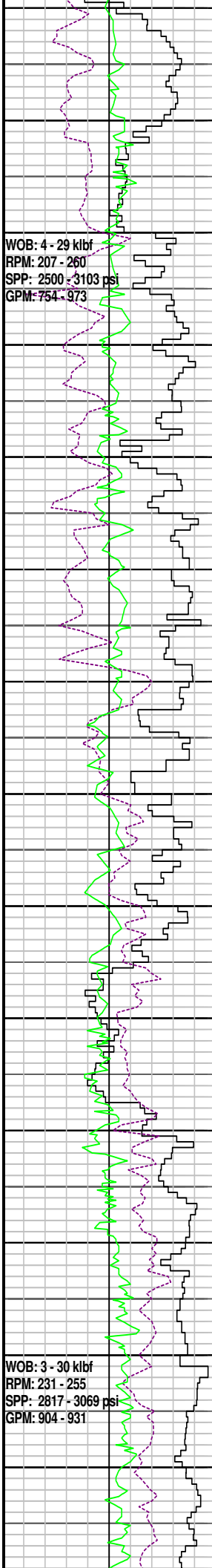
100/Tr/Tr

CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, calc, tr carb spks & mic lam, com disse & nod pyr, tr vf glauc gr, tr foss frag, rr micmic, frm-mod hd, sbblky-blky

WOB: 4 - 29 klbf
RPM: 207 - 260
SPP: 2500 - 3103 psi
GPM: 754 - 973

WOB: 3 - 30 klbf
RPM: 231 - 255
SPP: 2817 - 3069 psi
GPM: 904 - 931

1280
1290
1300
1310
1320
1330
1340
1350
1360
1370
1380
1390
1400
1410
1



SANDSTONE: lt brn-brn gy, clr-trnsl, vf gr, mod srted, sbang-sbrnidd, mod sil cmt, mod-strg calc (dol) cmt, com-abd arg-sily mtrx, i/p grd to sd SLTST, tr carb spks & glauc, tr sid, fri-mod hd, v p inf por, n fluor

SILTSTONE: lt-m brn, lt-m brn gy, com vf sd gr, n-wk calc, tr-com micmic & glauc, tr dissep pyr, tr carb spks, sft-frm, sbbkly-blky, grd to vf SST

CLAYSTONE: m-dk brn gy, m oliv gy, wk-mod calc, tr-com nod pyr, com carb spks, tr micmic & glauc, frm-mod hd, sbbkly-blky

MD: 1338.66 INC: 0.51
AZI: 93.25 TVD: 1338.64

SILTSTONE: lt-m brn, lt-m brn gy, com vf sd gr, n-wk calc, tr-com micmic & glauc, tr dissep & nod pyr, tr carb spks, sft-frm, sbbkly-blky, grd to vf SST

SANDSTONE: lt brn-brn gy, clr-trnsl, vf-f gr, mod-wl srted, sbang-sbrnidd, mod sil cmt, rr agg w/ mod-strg calc (dol) cmt, com-abd arg-sily mtrx, i/p grd to sd SLTST, tr carb spks & glauc, tr sid, fri-mod hd, v p inf por, n fluor

MD: 1367.75 INC: 0.54
AZI: 94.83 TVD: 1367.73

SILTSTONE: lt-m brn, m-dk brn gy, com vf sd gr, n-mod calc, tr-com micmic & glauc, tr dissep & nod pyr, rr-mnr carb mat, sft-frm, sbbkly-blky, grd to vf SST

CLAYSTONE: pl brn, non-sli calc, tr carb spks, tr nod pyr, sft-frm, disp i/p, sbbkly-blky

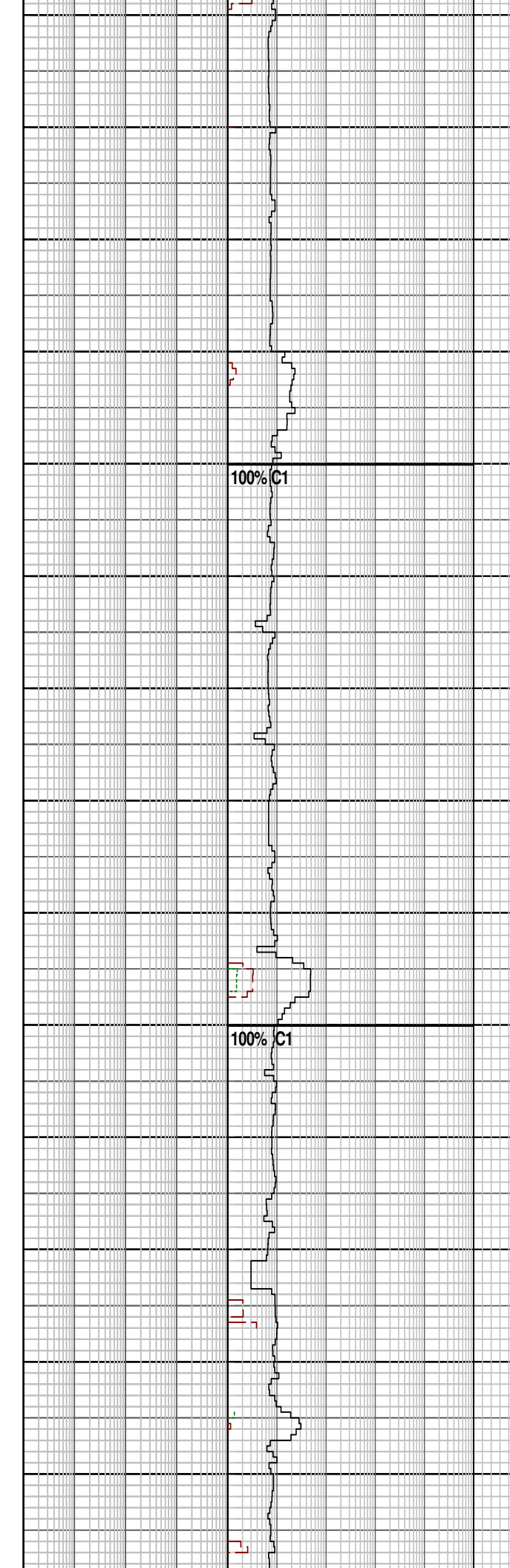
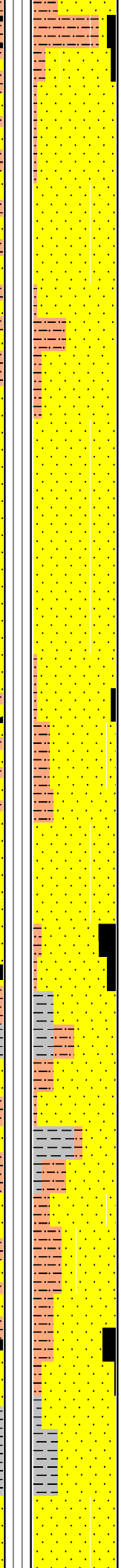
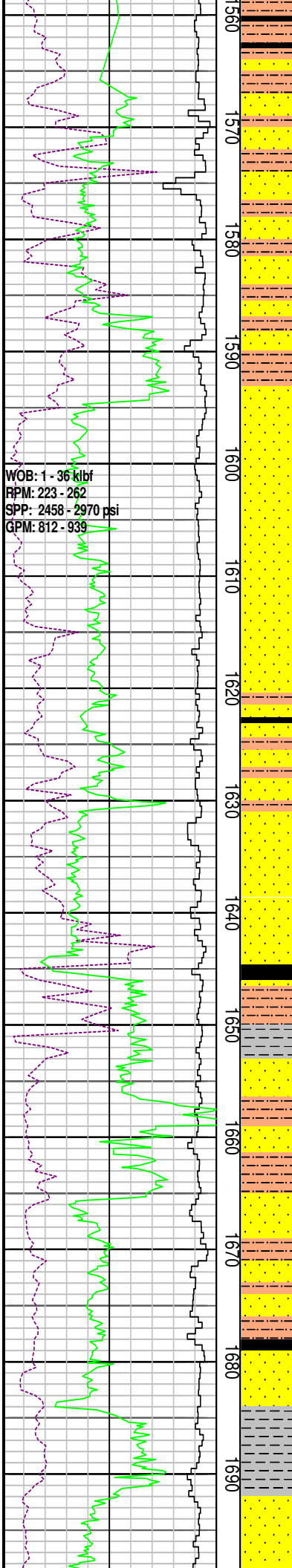
CLAYSTONE: dk gy, brnsh gy-brnsh blk, non-sli calc, carb, rr dissep vf pyr, tr nod pyr, rr micmic, sft-frm, sbbkly-sb fis

CLAYSTONE: v lt gy-lt gy, lt brnsh gy, grd to SLTST, non-mod calc, sft-frm, sbbkly-blky

100% C1

100% C1

100% C1



COAL: blk, brnsh blk, ea-sbvit, rr vit, lig, sft-brit, ang, grd to carb CLST

SANDSTONE: trnsl, trnsp, vf-m, mod srt, sbang-sbrnnd, tr sil cmt, tr loc pyr cmt, tr agg w/ com brn arg mtrx, tr mic, tr coal frag, lse-tr fri, gd inf por, fr vis por, n fluor

SILTSTONE: dk brn-brn gy, dk gy-gy blk, dk olv gy, carb, com disse pyr, tr micmic, mod hd, sbfis-sbblky, com lge splin cvg @ shaker

MD: 1596.34 INC: 0.49
 AZI: 77.67 TVD: 1596.31

SANDSTONE: trnsl, trnsp, lt gy, vf-f, rr m, mod-wl srt, sbang-sbrnnd, sil cmt, loc pyr cmt, rr wh cl mtrx, tr carb spks, tr mic, pred lse, rr fri, gd inf por, fr-gd vis por, n fluor

COAL: blk-gy blk, dk brn, dl-ea lstr, i/p sbvit, sbblky-sbconch

MD: 1625.50 INC: 0.49
 AZI: 69.82 TVD: 1625.47

SANDSTONE: clr-trnsl, mnr op gr, f-crs gr, pred m gr, mod srt, ang-sbrnnd, wk-mod sil cmt, rr pyr cmt, rr lt gy-wh arg-slt mtrx, tr-rr nod pyr, tr lith, com qtz ovgh, lse, tr mod hd agg, fr-p vis & inf por, n fluor

COAL: blk, brnsh blk, sbvit, rr vit, sft-brit amor-sbblky, sbconch

MD: 1650.00 INC: 0.49
 AZI: 77.67 TVD: 1650.00

CLAYSTONE: lt brn-bu, v lt gy-v pl or, sli aren i/p, tr micmic, sft-frm, sbblky-blky

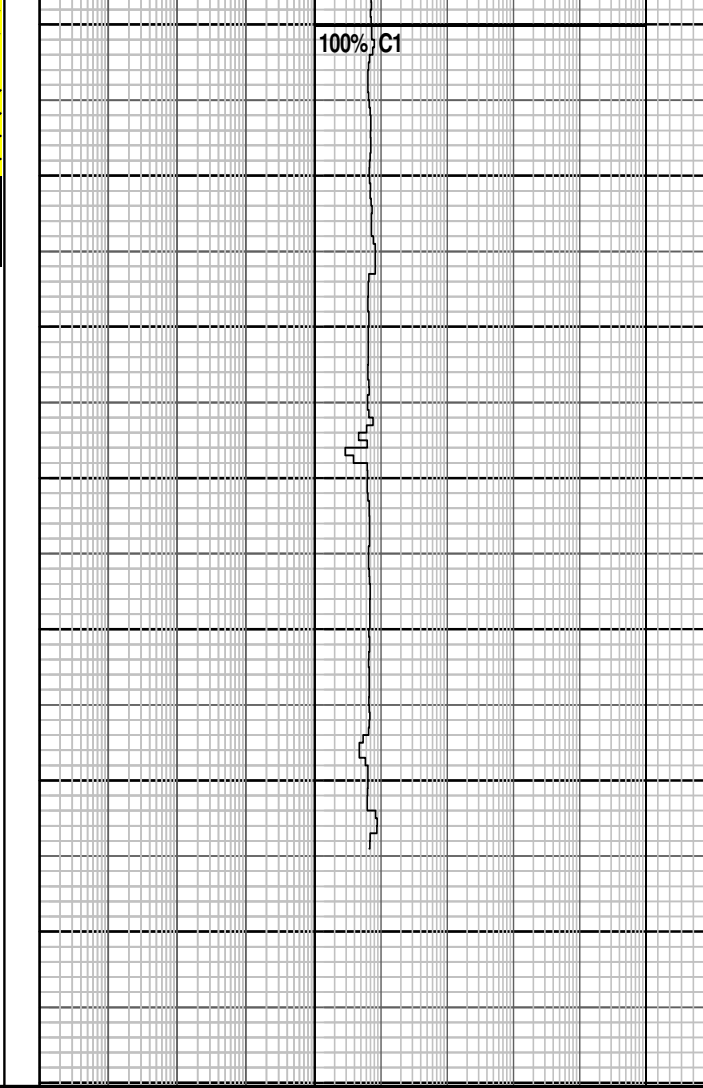
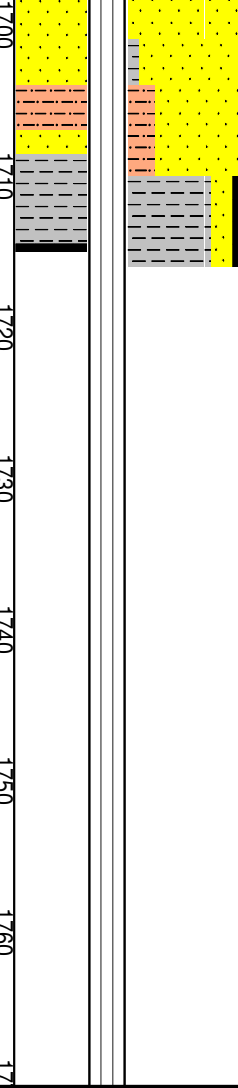
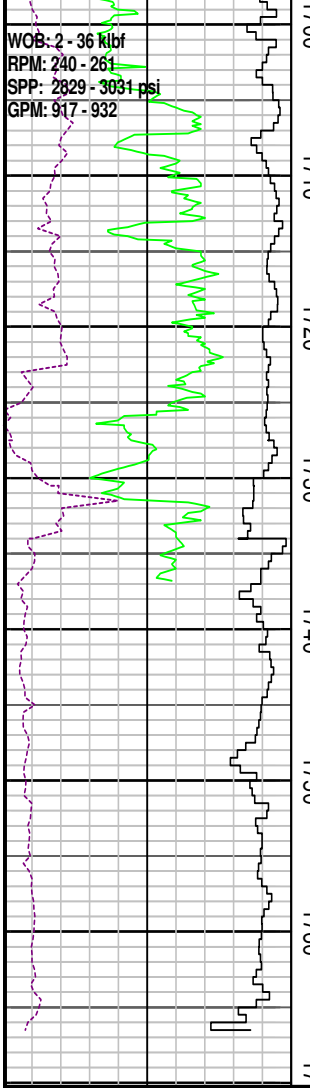
SILTSTONE: m brn-brn gy, lt-m olv gy, sd & i/p grd to vf SST, tr com disse & nod pyr, tr carb spks, com micmic, sft-frm, sbblky-blky

SANDSTONE: clr-trnsl, f-crs gr, pred m gr, p srt, sbang-sbrnnd, wk-mod sil cmt, tr pyr cmt, com wh arg-slt mtrx, com nod pyr, tr lith & carb mat, lse, mnr fri agg, p inf por, n fluor

MD: 1682.67 INC: 0.41
 AZI: 85.01 TVD: 1682.63

CARBONACEOUS CLAYSTONE: dk brn-dk brn gy, dk gy-gy blk, dk olv gy, tr-com disse pyr, com micmic, mod hd, sbfis-sbblky

WOB: 2 - 36 klbf
 RPM: 240 - 261
 SPP: 2829 - 3031 psi
 GPM: 917 - 932



SANDSTONE: clr-trnsl, f-crs gr, pred f-m gr, p srt, sbang-sbrnrd, mod sil cmt, tr pyr cmt, com-abd wh arg-slt mtrx, com nod pyr, tr lit & carb mat, lse, mnr fri agg, p inf por, n fluor

CARBONACEOUS CLAYSTONE: blk-gy blk, dk olv gy, grg to C, tr micmic, tr dissem pyr vn, frm-mod hd, sbbkly-blky

FORMATION EVALUATION LOG

DRILLING PARAM		MD meters 1:500	Oil Show P F G	LITHOLOGY %	CORE	TOTAL GAS	CHROMATOGRAPH	Calcimetry	Lithology Description
ROP (m/hr)						Total Gas (unit)	Methane ppm		
250	200	150	100	50		10 100 1000 10000	1 Methane ppm 100000		
WEIGHT ON BIT (klbf)							1 Ethane ppm 100000		
10	20	30	40	50			1 Propane ppm 100000		
ROP Backup (m/hr)							1 iso-Butane ppm 100000		
400	360	320	280	240			1 n-Butane ppm 100000		
GAMMA RAY (API)							1 iso-Pentane ppm 100000		
0				200			1 n-Pentane ppm 100000		