BAKER HUGHES
INTEQ

Company : Beach Petroleum
Well : Spikey Beach-1
Interval : 68.00 - 1306.97 meters
Created : 11/Sep/2009 4:44:14 PM

BEACH PETROLEUM

FORMATION EVALUATION LOG

DRILLING PARAM
ROP (m/hr)
250 | 200 | 150 | 100 | 50
WEIGHT ON BIT (klbf)
10 | 20 | 30 | 40 | 50
GAMMA RAY (API)
0 | 200

MD meters 1:500

INTERPRETED LITHOLOGY

Oil Show
P F G

LITHOLOGY %

CORE

TOTAL GAS
Total Gas (unit)
10 | 100 | 1000 | 10000

CHROMATOGRAPH
Methane ppm 1 | 100000
Ethane ppm 1 | 100000
Propane ppm 1 | 100000
iso-Butane ppm 1 | 100000
n-Butane ppm 1 | 100000
iso-Pentane ppm 1 | 100000
n-Pentane ppm 1 | 100000

Calcimetry

Lithology Description

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-A-0-I-NO-TD

5 Sep 09
7 Sep 09

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

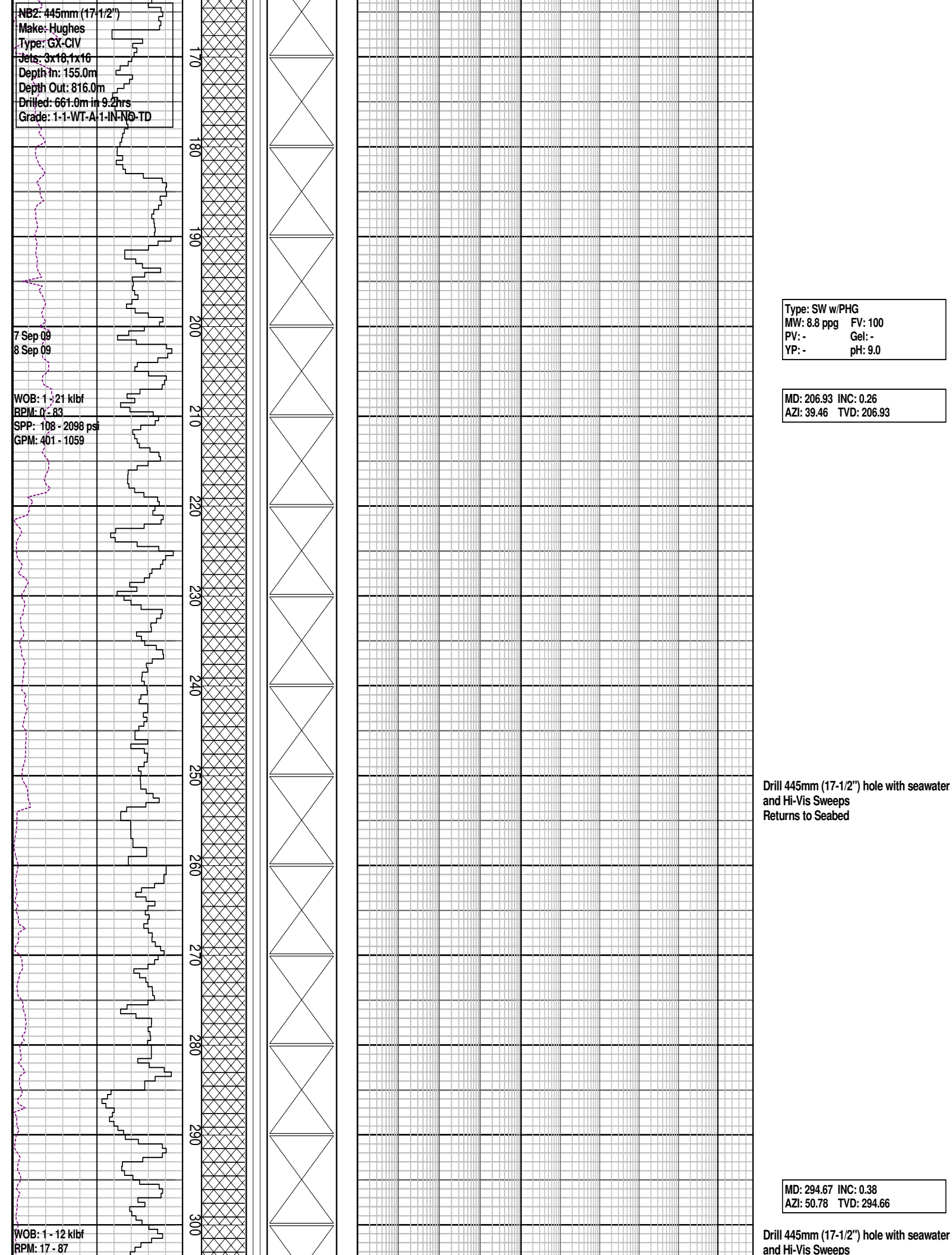
Spud Spikey Beach-1 @ 21:00hrs on 5-Sep-09

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


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
170
180
190
200
210
220
230
240
250
260
270
280
290
300
7 Sep 09
8 Sep 09
WOB: 1 - 21 klbf
RPM: 0 - 83
SPP: 108 - 2098 psi
GPM: 401 - 1059
WOB: 1 - 12 klbf
RPM: 17 - 87
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 and Hi-Vis Sweeps

SPP: 1667 - 2297 psi
GPM: 908- 1027

Returns to Seabed

310
320
330
340
350

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

360
370
380

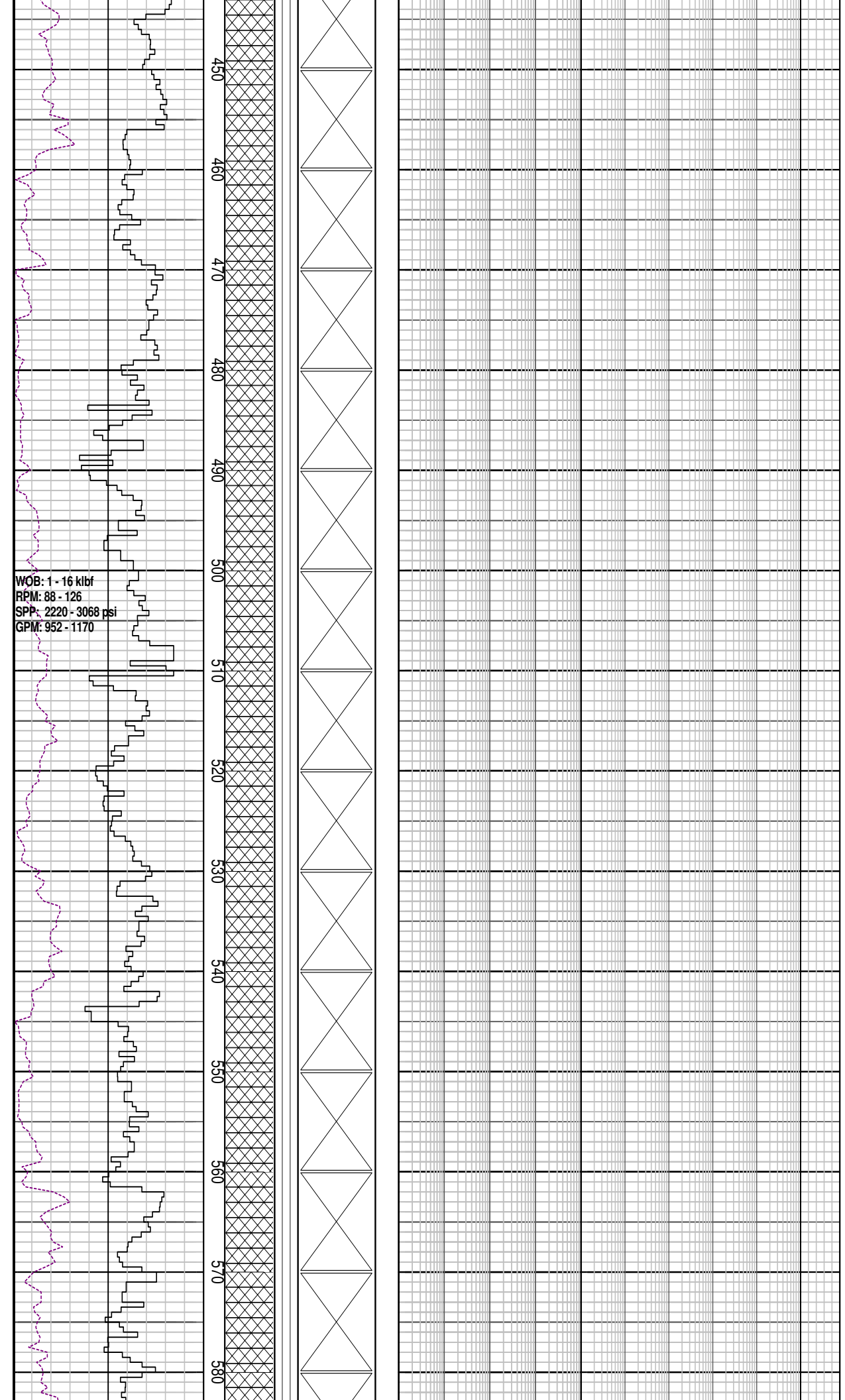
MD: 382.26 INC: 0.19
AZI: 46.93 TVD: 382.26

390
400

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

410
420
430
440



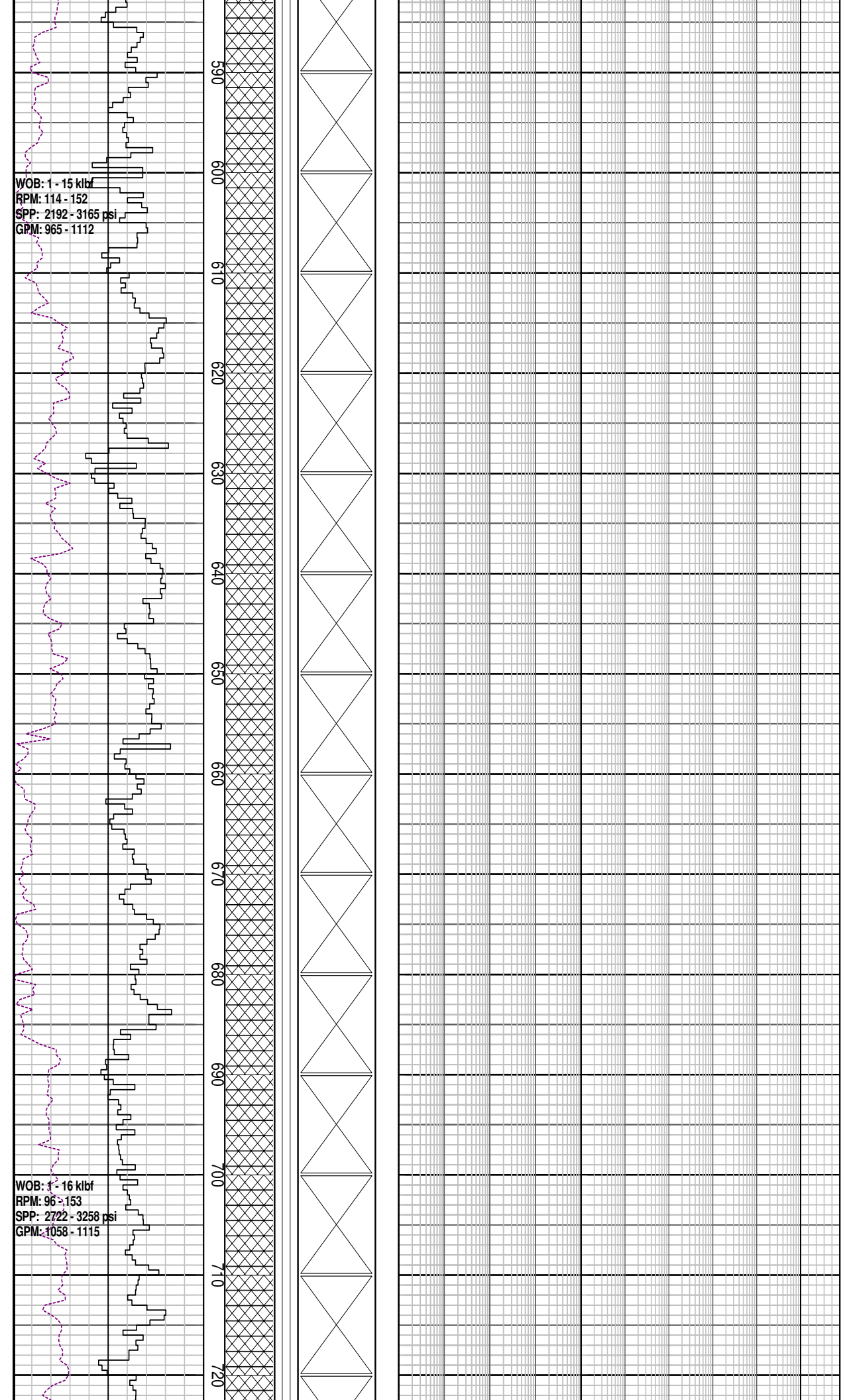
Drill 445mm (17-1/2") hole with seawater and Hi-Vis Sweeps
Returns to Seabed

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

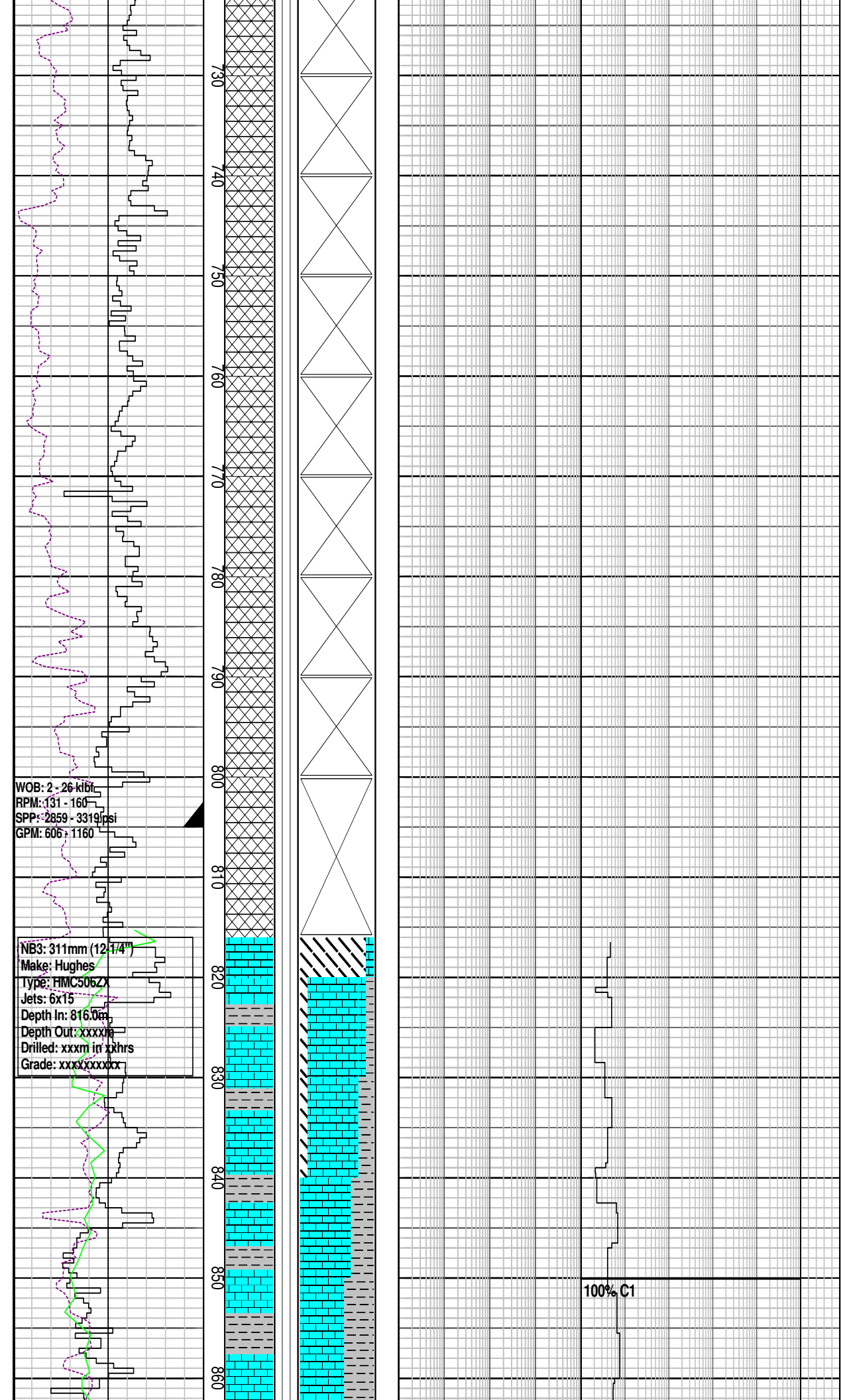


Drill 445mm (17-1/2") hole with seawater and Hi-Vis Sweeps
Returns to Seabed

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

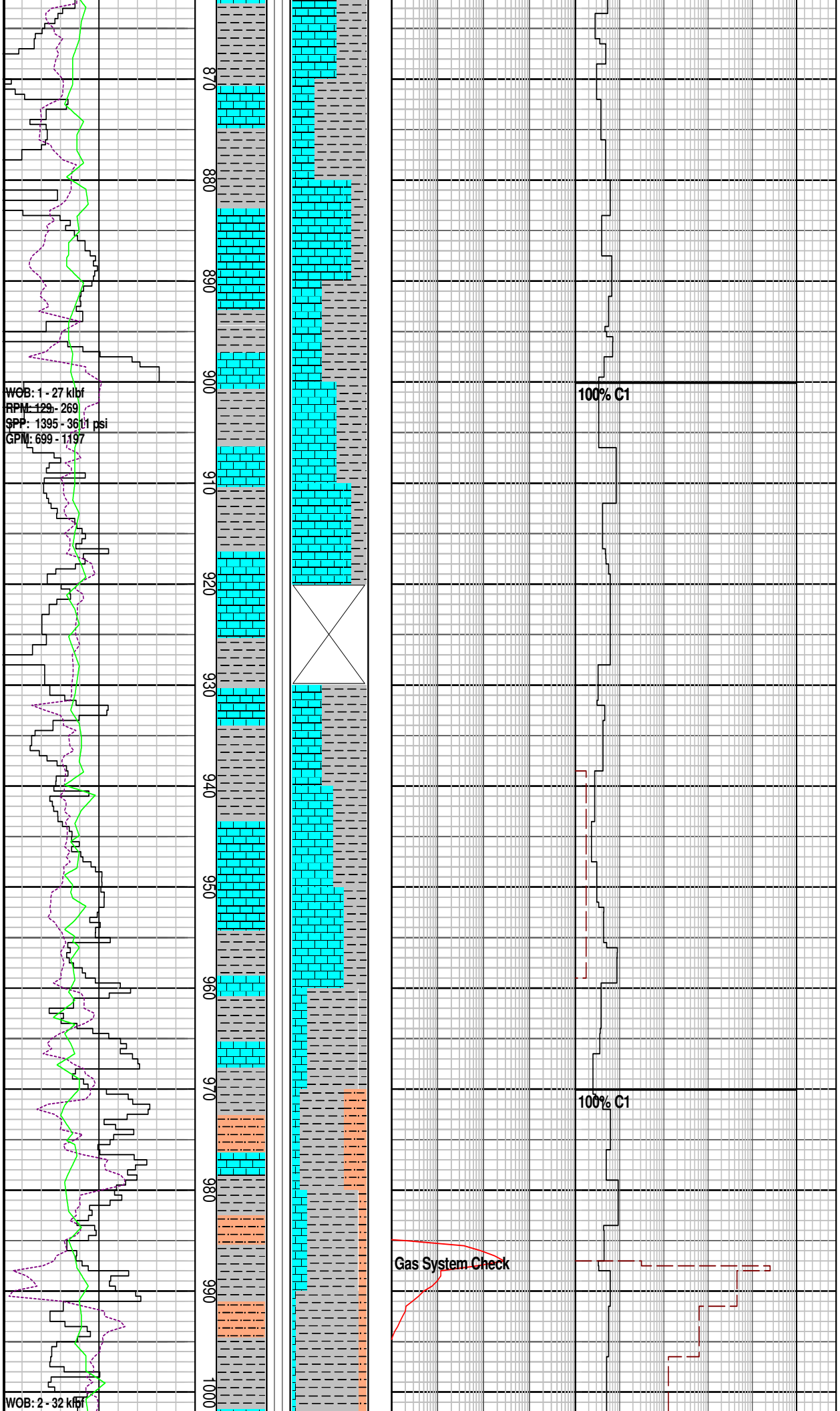
Set 340mm (13-3/8") casing shoe at 805.8mMDRT

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 grn qtz, rr sid, frm-mod hd, sbblky-blky

CALCAREOUS CLAYSTONE: lt-m gy, m dk gy, lt olv gy-lt brn gy, sli aren, tr carb spks, rr-v f glau grn, sft-frm, sbblky-blky



CALARENITE: lt gy-wh, lt bl gy, abdt foss, com v f-f grn qtz, 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 grn, frm-mod hd, sbblky-blky

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 glau grn, frm-mod hd, sbblky-blky

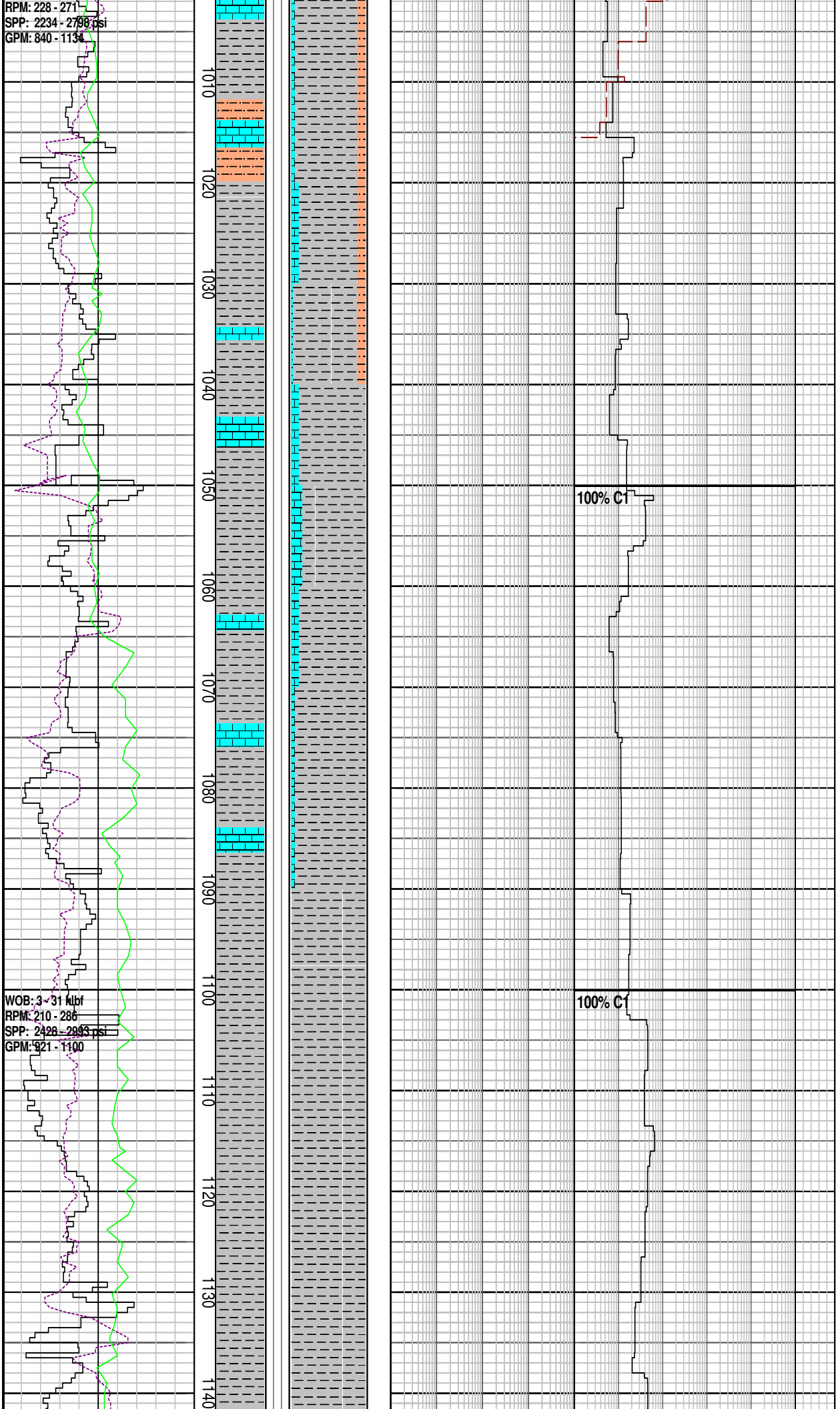
CALCARENITE: lt-m gy, lt bl gy-wh, lt brn gy, com vf qtz gr, com foss frag, tr carb spks, frm, sbblky-blky

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 glau grn, frm-mod hd, sbblky-blky

CALCAREOUS SILTSTONE: m-dk gy, m olv gy, m brn gy, arg, grdg to ARENACEOUS CLAYSTONE, tr-com foss frag, tr carb spks, tr glau, frm, sbblky-blky

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

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



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 SILTSTONE: m-dk gy, m olv gy, m brn gy, arg, grdg to ARENACEOUS CLAYSTONE, tr-com foss frag, tr carb spks, tr glau, frm, sbblky-blky

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

MD: 1078.27 INC: 0.31
AZI: 90.35 TVD: 1078.26

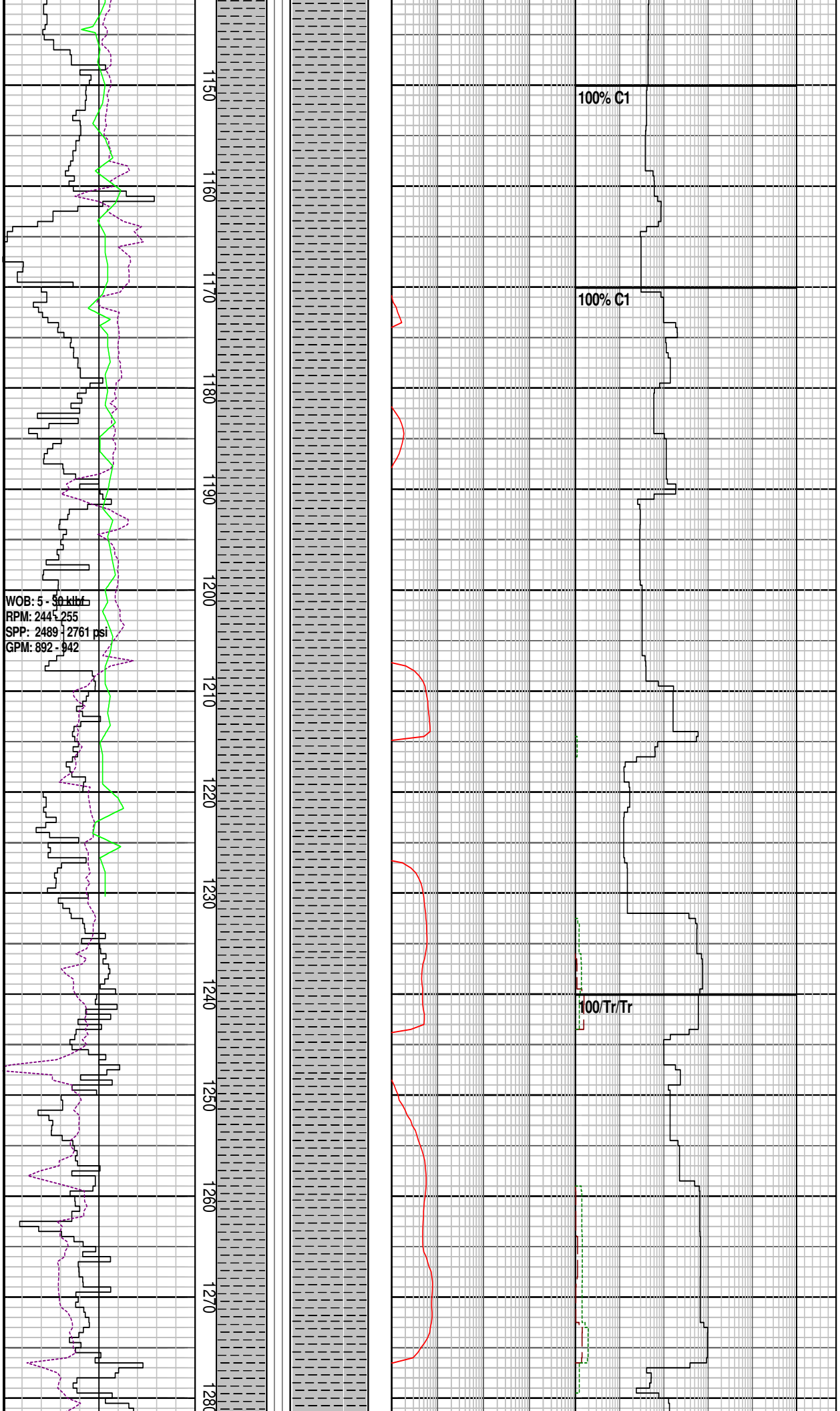
CLAYSTONE: lt-m gy, lt brn-brn gy, lt-m olv gy, m dk gy, mod-strg calc, tr carb spks & mic lam, tr dissem pyr, tr vf glau gr, tr foss frag, rr micmic, frm-mod hd, sbblky-blky

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

MD: 1106.44 INC: 0.42
AZI: 79.90 TVD: 1106.43

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

MD: 1135.98 INC: 0.37
AZI: 78.73 TVD: 1135.97



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

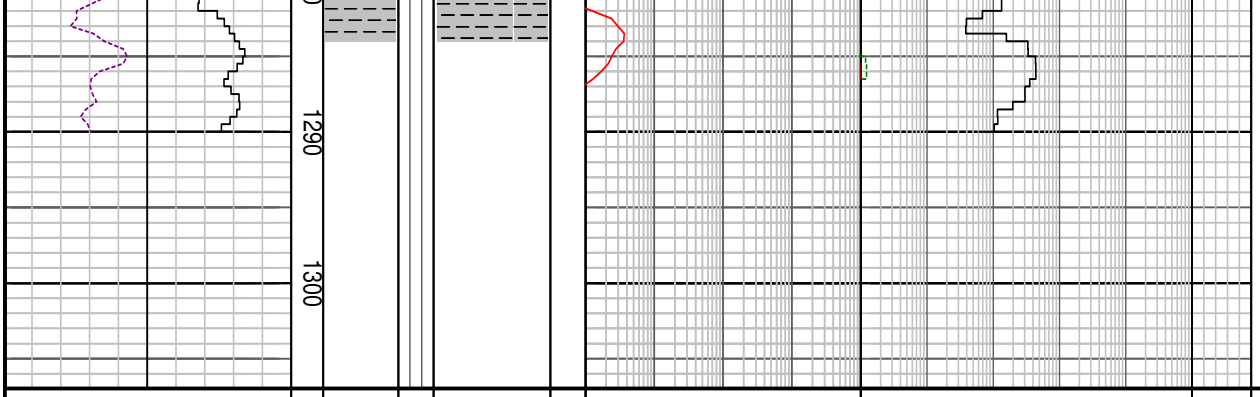
MD: 1164.94 INC: 0.40
AZI: 84.09 TVD: 1164.93

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

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

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

MD: 1280.39 INC: 0.44



AZI: 76.24 TVD: 1280.38

FORMATION EVALUATION LOG

DRILLING PARAM

ROP (m/hr)

250 | 200 | 150 | 100 | 50

WEIGHT ON BIT (klbf)

10 | 20 | 30 | 40 | 50

GAMMA RAY (API)

0 — 200

MD meters 1:500

INTERPRETED LITHOLOGY

Oil Show

P F G

LITHOLOGY %

CORE

TOTAL GAS

Total Gas (unit)

10 | 100 | 1000 | 10000

CHROMATOGRAPH

Methane ppm	1	100000
Ethane ppm	1	100000
Propane ppm	1	100000
iso-Butane ppm	1	100000
n-Butane ppm	1	100000
iso-Pentane ppm	1	100000
n-Pentane ppm	1	100000

Calcimetry

Lithology Description