BAKER HUGHES
INTEQ

Company : Beach Petroleum Ltd
Well : PeeJay-1
Interval : 98.00 - 2093.21 meters
Created : 27/Nov/2008 9:03:52 AM

BEACH PETROLEUM

# FORMATION EVALUATION LOG

| DRILLING PARAM | MD meters 1:500 | INTERPRETED LITHOLOGY | Oil Show | LITHOLOGY % | CORE | TOTAL GAS | CHROMATOGRAPH | Calcimetry | Lithology Description |
|---|---|---|---|---|---|---|---|---|---|
| ROP (m/hr) 200 160 120 80 40<br>WEIGHT ON BIT (klbf) 10 20 30 40 50 | | | P F G | | | Total Gas (unit) 10 20 30 40 50 | Methane ppm 0.1 10000<br>Ethane ppm 0.1 10000<br>Propane ppm 0.1 10000<br>iso-Butane ppm 0.1 10000<br>n-Butane ppm 0.1 10000<br>iso-Pentane ppm 0.1 10000<br>n-Pentane ppm 0.1 10000 | | |

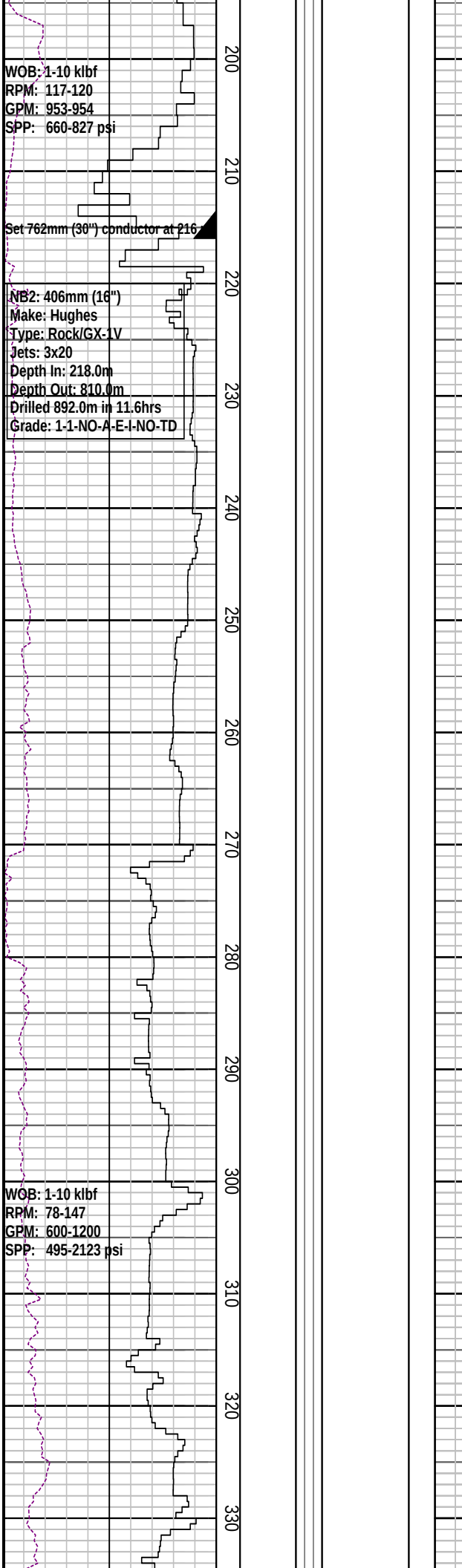
100 110 120 130 140 150 160 170 180 190

RB1: 660mm (26") x 914mm (36") H/Opener
Make: Reed
Type: Rock/YC11
Jets: 3x22, 1x16
Depth In: 112.15m
Depth Out: 218.0m
Drilled 105.85m in 3.9hrs
Grade: 1-1-NO-A-E-I-NO-TD

Spud PeeJay-1 @ 18:30 Hrs on 15/11/2008

RT MSL: 34.15mMDRT
Water Depth: 78.00mMDRT
RT Seabed: 112.15mMDRT

Drill 36" hole with seawater & Hi Vis sweeps
Returns to Seabed 112.15m to 218m




Drill 16" hole with seawater & Hi Vis sweeps
Returns to Seabed 218m to 810m

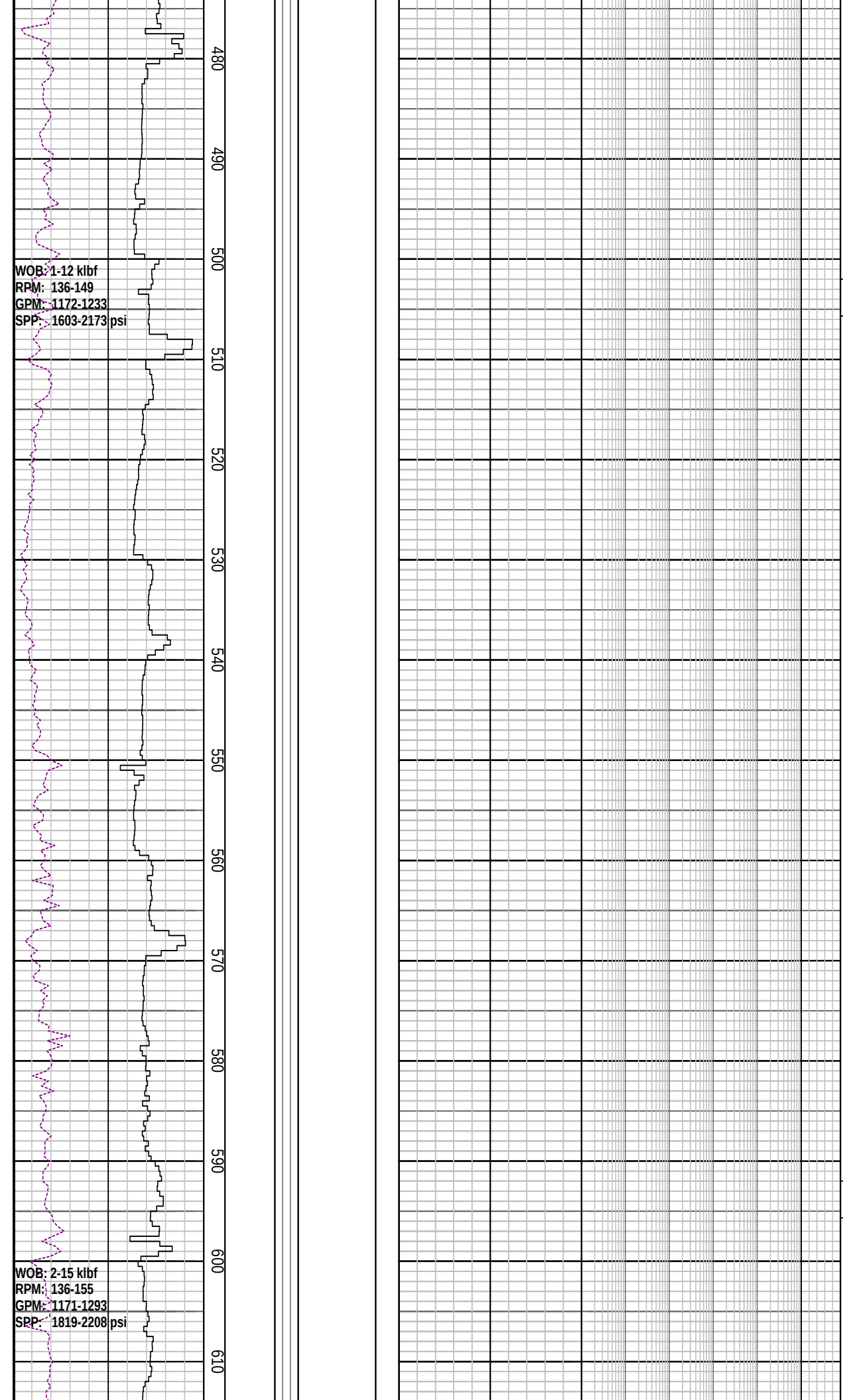
MD: 269.95, AZI: 150.86°
TVD: 264.9, Incl: 1.45°

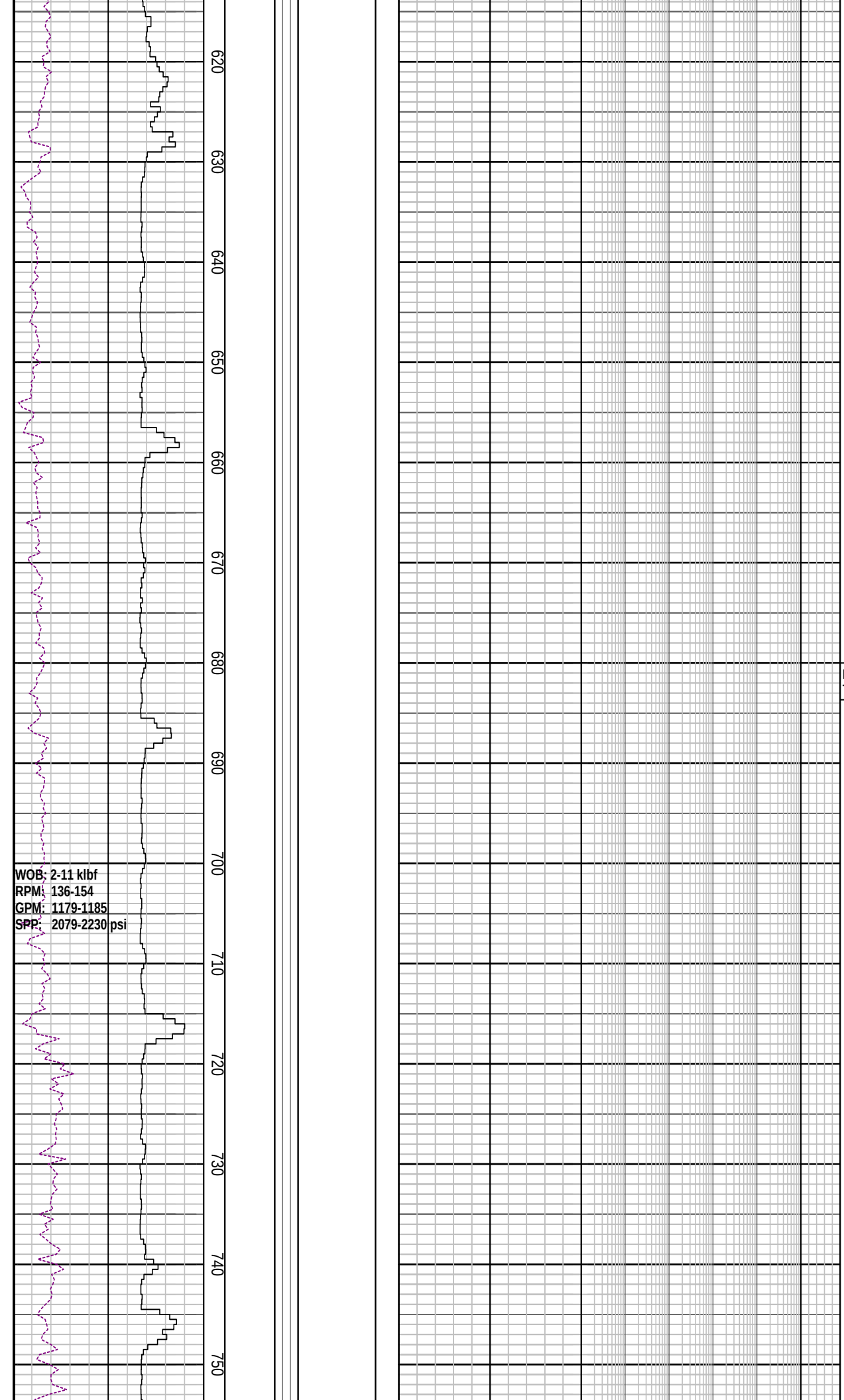
MD: 294.47, AZI: 140.54°
TVD: 294.4, Incl: 1.15°

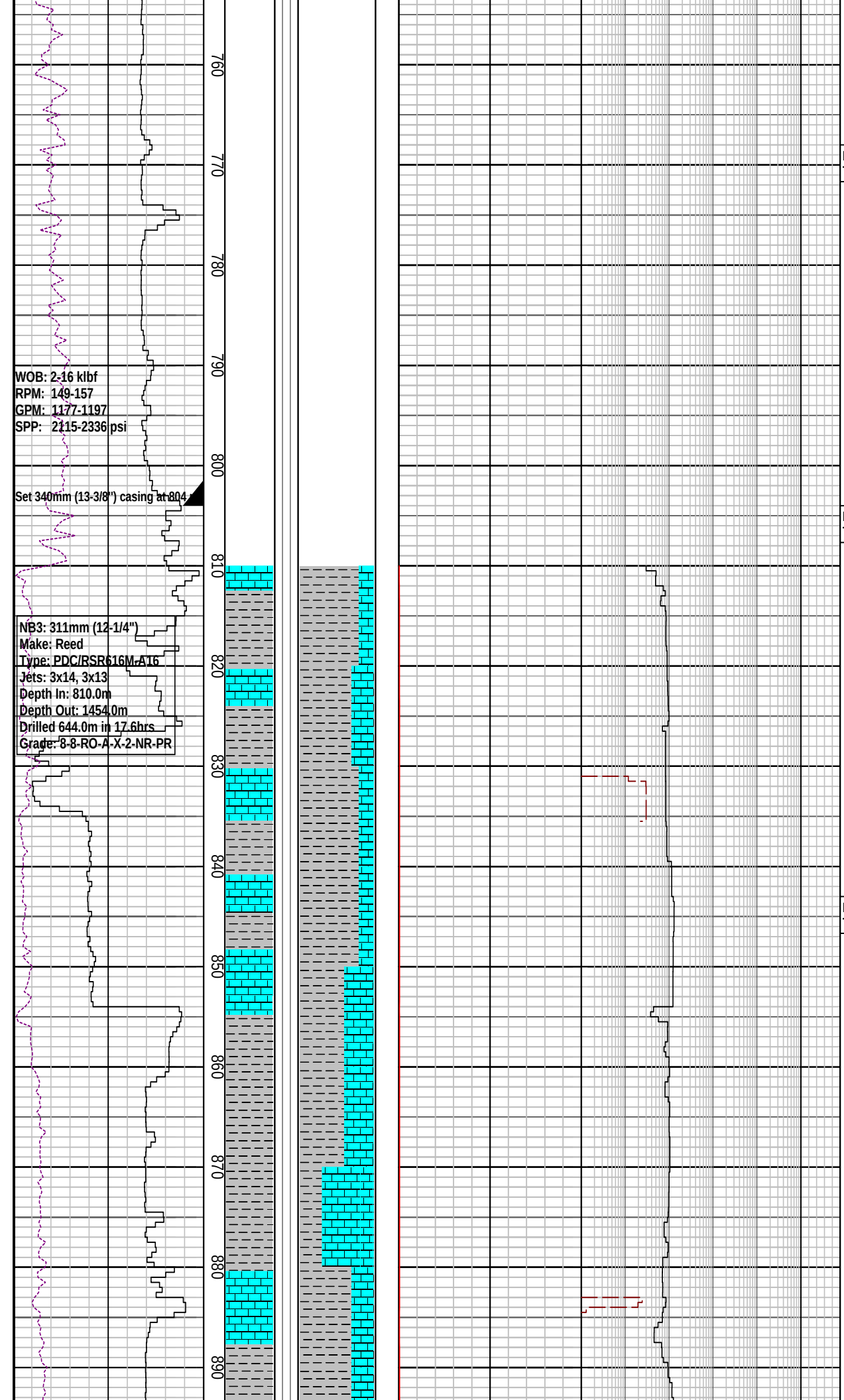
Returns to Seabed

MD: 323.97, AZI: 150.84°
TVD: 323.9, Incl: 1.06°


340
350
360
370
380
390
400
410
420
430
440
450
460
470
WOB: 1-16 klbf
RPM: 114-149
GPM: 1186-1189
SPP: 2022-2166 psi
Returns to Seabed
MD: 413.38, AZI: 197.79°
TVD: 413.3, Incl: 0.46°


480
490
500
510
520
530
540
550
560
570
580
590
600
610
WOB: 1-12 klbf
RPM: 136-149
GPM: 1172-1233
SPP: 1603-2173 psi
WOB: 2-15 klbf
RPM: 136-155
GPM: 1171-1293
SPP: 1819-2208 psi
Returns to Seabed
MD: 502.18, AZI: 197.76°
TVD: 502.1, Incl: 0.23°
MD: 591.8, AZI: 226.93°
TVD: 591.7, Incl: 0.37°
Returns to Seabed


620
630
640
650
660
670
680
690
700
710
720
730
740
750
WOB: 2-11 klbf
RPM: 136-154
GPM: 1179-1185
SPP: 2079-2230 psi
MD: 679.52, AZI: 321.43°
TVD: 679.5, Incl: 0.12°
Returns to Seabed




MD: 768.28, AZI: 271.31°
TVD: 768.2, Incl: 0.20°

Returns to Seabed

MD: 803.99, AZI: 236.85°
TVD: 803.9, Incl: 0.21°

LIMESTONE: Bio clcar pale yel brn-lt brn gy, f-m, micr, com cor frag, com m-crs,wh calc, fr por, n fluor

LOT @ 804m with 8.8 ppg
EMW: 15.55 ppg @ 928 psi

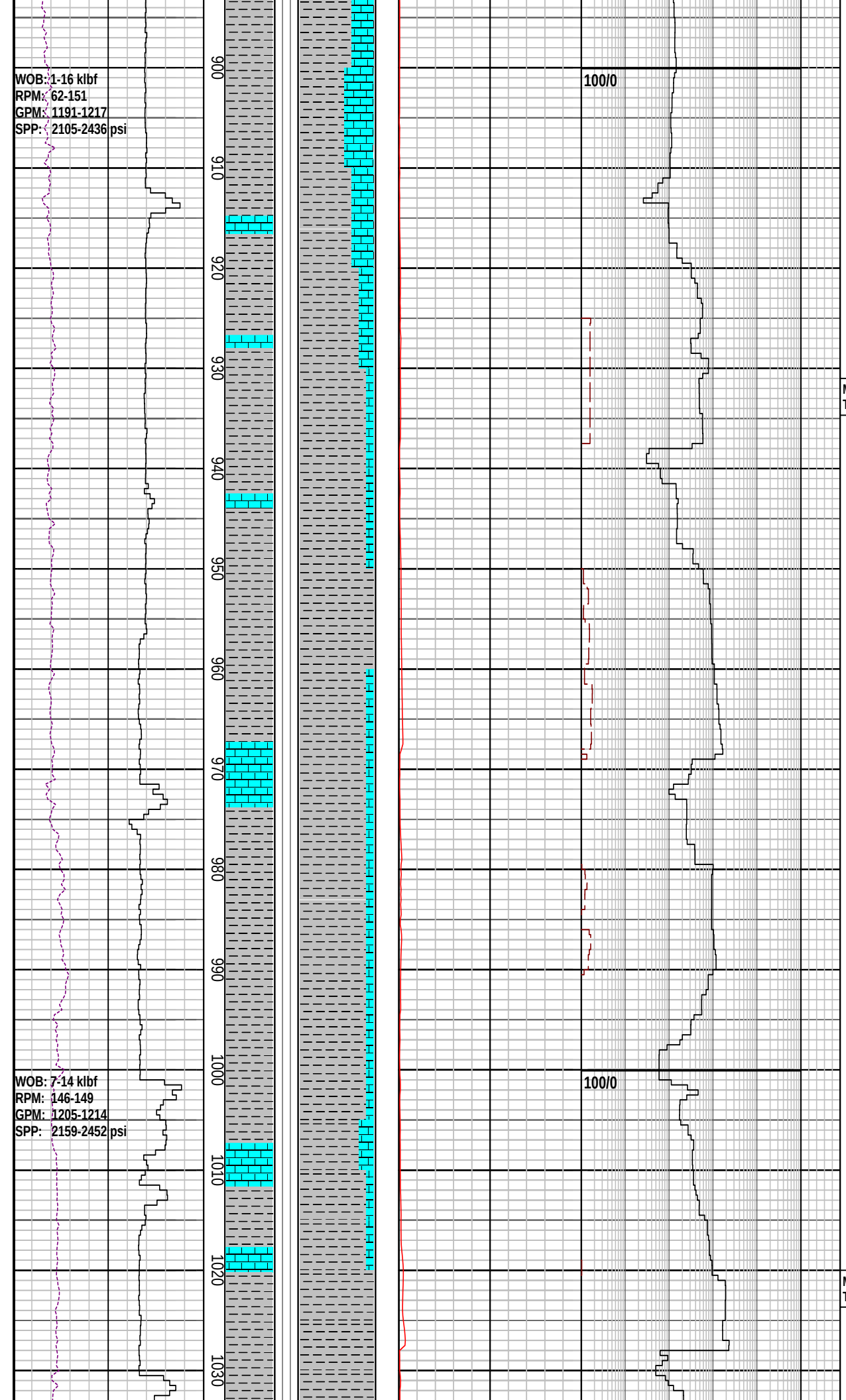
CLAYSTONE: m gy-ol gy, mod calc, sli slty, com f-m calc sd, tr wh calc spar incl, tr carb mat, sft, plas, mas-amor

MD: 842.85, AZI: 127.38°
TVD: 842.8, Incl: 0.43°

CLAYSTONE: m gy-dk gy, sli calc, sli slty, tr micmic l.P., occ wh calc, sm, plas, mas-amor

LIMESTONE: clcar, v lt gy-yel brn, f-medium l.P., micr, com m wh calc spar, tr foss/coral frag, com wh m calc spar, bri, blky, v p por, n fluor

CLAYSTONE: m gy-m dk gy, sli calc, sli slty, tr micmic l.P., occ wh calc, sm, plas




mas-amor

MW: 8.80 ppg FV:50
PV : 17 YP:23
Gels: 5/7/8
Cl : 37000

MD: 930.97, AZI: 102.94°
TVD: 930.9, Incl: 0.44°

CLAYSTONE: m dk gy, sli calc, tr v f calc sd, tr nod pyr, tr carb spks & microlam, sft-plas, mas-amor

LIMESTONE: Bio clcar pale yel brn-lt brn gy, f-m, micr, com cor frag, com m-crs,wh calc, fr por, n fluor

CLAYSTONE: m dk gy-ol gy, mod-loc v calc grd-clclt l.P., sli slty, tr carb mat, mrl tex, sft, plas, mas-amor

CLAYSTONE: m dk gy-ol gy, mod-loc v calc grd-clclt l.P., sli slty, tr carb mat, mrl tex, sft, plas, mas-amor

LIMESTONE: clcar-clslt, brn gy-dk yel brn, micr, loc sli Dol, com m-crs calc spar, occ coral frag, bri-hd in pt, blky, p por, n fluor

CLAYSTONE: m dk gy-ol gy, mod-loc v calc grd-clclt l.P., sli slty, tr carb mat, mrl tex, sft, plas, mas-amor

MD: 1019.59, AZI: 112.01°
TVD: 1019.5, Incl: 0.43°

CLAYSTONE: m dk gy-ol gy, mod-loc v calc grd-clclt l.P., sli slty, tr carb mat, mr


tex, sft, plas, mas-amor

LIMESTONE: clcar-clslt, brn gy-dk yel brn, micr, loc sli Dol, com m-crs calc spar, occ coral frag, bri-hd l.P., blky, p por, n fluor

MD: 1048.56, AZI: 126.08°
TVD: 1048.5, Incl: 0.33°

CLAYSTONE: m dk gy-ol gy, mod-loc v calc grd-clclt l.P., sli slty, tr carb mat, mrl tex, sft, plas, mas-amor

CLAYSTONE: m gy-ol gy, mnr m dk gy, r bl gy, sli-dom calc, loc sli slty, r foram, r carb mat, tr micr pyr, sft-frm, plas l.P., mnr amor

CLAYSTONE: m gy-ol gy, mnr m dk gy, r bl gy, sli-dom calc, loc sli slty, r musc, r carb mat, tr micr pyr, sft-frm, plas l.P., mnr amor

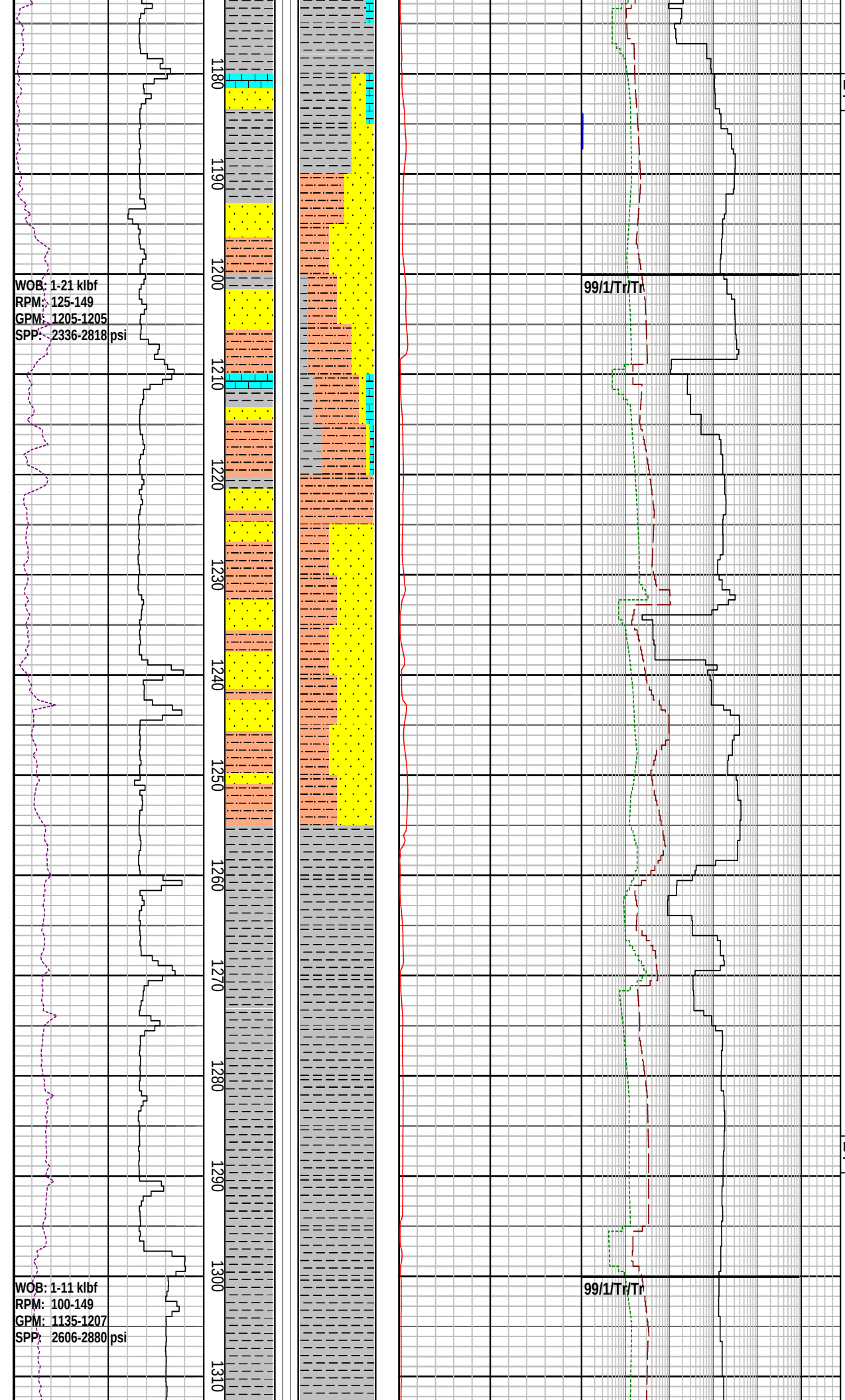
MD: 1108.49, AZI: 130.22°
TVD: 1108.4, Incl: 0.33°

CLAYSTONE: m gy-ol gy, dom calc, tr nod pyr, r musc, r foram, v r carb mat, r micmic biot, sft-frm, plas l.P., mnr amor

LIMESTONE: clcar-clslt, brn gy-dk yel brn, micr, loc sli Dol, com m-crs calc spar, occ coral frag, bri-hd l.P., blky, p por, n fluor

CLAYSTONE: m gy-ol gy, dom calc, tr nod pyr, r musc, r foram, v r carb mat, r micmic biot, sft-frm, plas l.P., mnr amor

CLAYSTONE: m gy-ol gy, dom calc, tr




micmic biot, sft-frm, plas l.P., mnr amor

MD: 1167.38, AZI: 121.98°
TVD: 1167.3, Incl: 0.22°

SANDSTONE : yel brn, trnsp-trnsl qtz gr, tr yel brn stn dom f, m-crs, v wl srt, sbang-wl rndd, n vis cmt, mnr arg slt mtrx, fr inf por

SILTSTONE: ol gy-md dk gy, v sli calc, r nod pyr, sft, plas l.P., sbblky, grd to Clst

CLAYSTONE: lt bl gy, sli calc, com calc vn, sft, plas l.P., sbblky

| | |
|---|---|
| MW: 9.5 ppg | FV:65 |
| PV : 19 | YP:32 |
| Gels: 7/9/11 | |
| Cl : 35000 | |

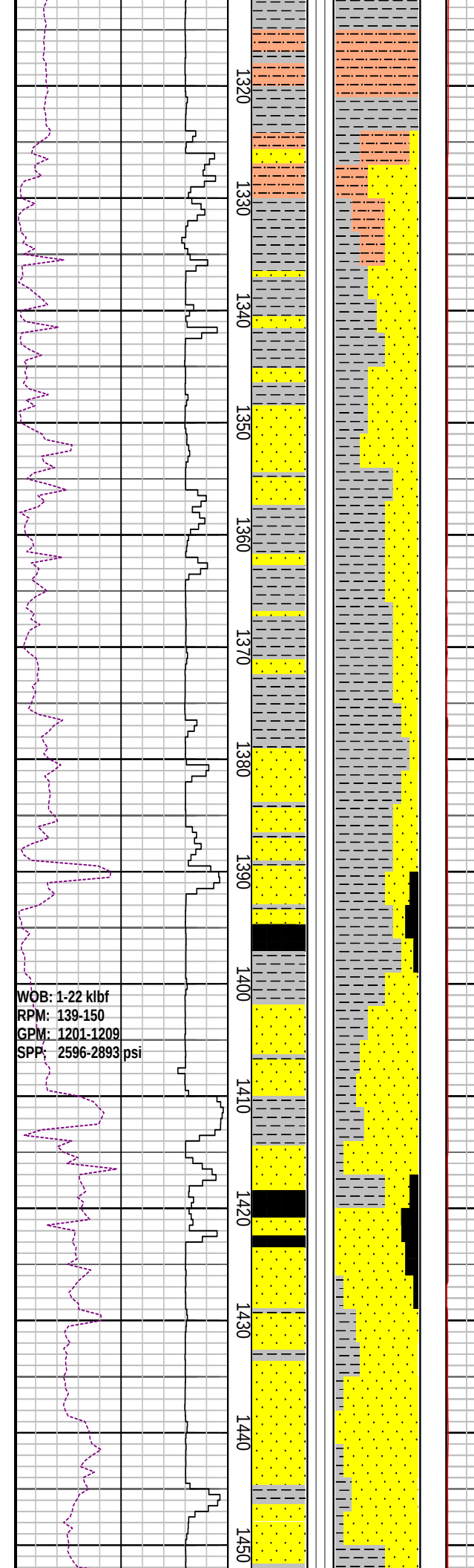
SILTSTONE: ol gy-md dk gy, v sli calc, r nod pyr, sft, plas l.P., sbblky, grd to Clst

SANDSTONE : yel brn, trnsp-trnsl qtz gr, tr yel brn stn dom f, m-crs, v wl srt, sbang-wl rndd, n vis cmt, mnr arg slt mtrx, fr inf por

CLAYSTONE: lt bl gy, sli calc, com calc vn, sft, plas l.P., sbblky

MD: 1285.81, AZI: 61.10°
TVD: 1285.8, Incl: 0.69°

CLAYSTONE: md dk gy-dk gy, v sli calc, mnr com pyr, sli slty, sft, plas-mnr sbblky, tr pyr




SILTSTONE: md dk gy-dk gy, v sli calc, tr pyr, r foram, arg l.P., grd to Clst, sft-frm l.P., tr plas, dom sbblky, tr blky

CLAYSTONE: brn gy, sli calc, sft pyr, amor

SANDSTONE : lt ol gy, trnsp-trnsl qtz gr, v f, wl srt, sbang-srndd, wk calc cmt, mnr Dol cmt, mnr arg & slty mtrx, mnr fri agg, tr nod pyr, fr inf por

MD: 1345.01, AZI: 106.82°
TVD: 1345, Incl: 0.68°

CLAYSTONE: brn gy, sli calc, v f qtz, amor, sli dis mass

MD: 1374.54, AZI: 110.27°
TVD: 1374.5, Incl: 0.67°

SANDSTONE : lt ol gy, trnsp-trnsl qtz gr, v f, wl srt, sbang-srndd, wk calc cmt, mnr Dol cmt, mnr arg & slty mtrx, mnr fri agg, tr nod pyr, fr inf por

COAL: dk brn blk, sft-hd, ang planar, conch frac

94/6/Tr/Tr

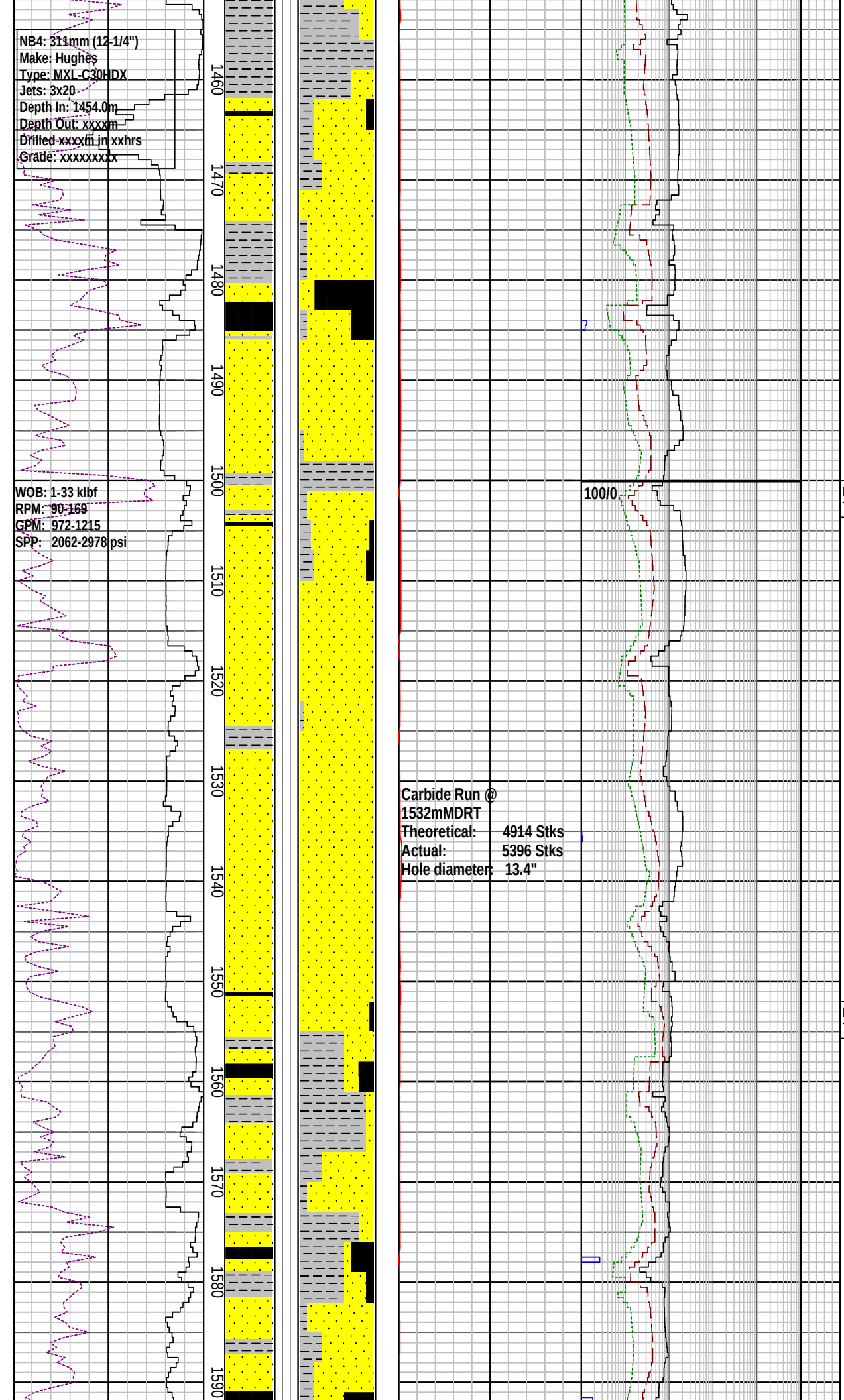
SANDSTONE : qtz, clr-trnsl, fros, f-crs, ang-sbrndd, p srt, wk calc cmt, com arg & slty mtrx, tr Fe stn qtz, fr-gd inf por, n fluor

COAL: blk, sft-hd, sbbit, ang planar, conch frac

SANDSTONE : qtz, clr-trnsl, fros, f-crs, ang-sbrndd, p srt, wk calc cmt, com arg & slty mtrx, com smky qtz, tr nod pyr, gd por, n fluor

MD: 1433.56, AZI: 132.78°
TVD: 1433.5, Incl: 0.69°

SANDSTONE : qtz, clr-trnsl, fros, m-crs, ang-sbrndd, p srt, wk calc cmt, com arg & slty mtrx, com smky qtz, tr nod pyr, gd por, n fluor




CLAYSTONE: lt brn gy, sli slty, sli aren l.P., tr carb frag & micrlam, sli micmic, tr foss frag, sft-frm l.P., mass-amor, occ blky

COAL: blk, sft-hd, sbbit, ang planar, conch frac

SANDSTONE : qtz, clr-trnsl, fros, m-crs, ang-sbrndd, p srt, wk calc cmt, com arg & slty mtrx, tr qtzovgth, tr nod pyr, gd por, n fluor

MD: 1492.77, AZI: 331.27°
TVD: 1492.7, Incl: 0.31°

CLAYSTONE : m brn gy-ol gy, sli calc l.P., loc sli slty, micmic, tr carb spks, occ lit frag, frm, blky-sbfis l.P.

SANDSTONE : qtz, clr-trnsl, fros, m-crs, ang-sbrndd, p srt, wk calc cmt, com arg & slty mtrx, tr qtzovgth, tr nod pyr, gd por, n fluor

MD: 1552.04, AZI: 350.47°
TVD: 1552.0, Incl: 0.35°

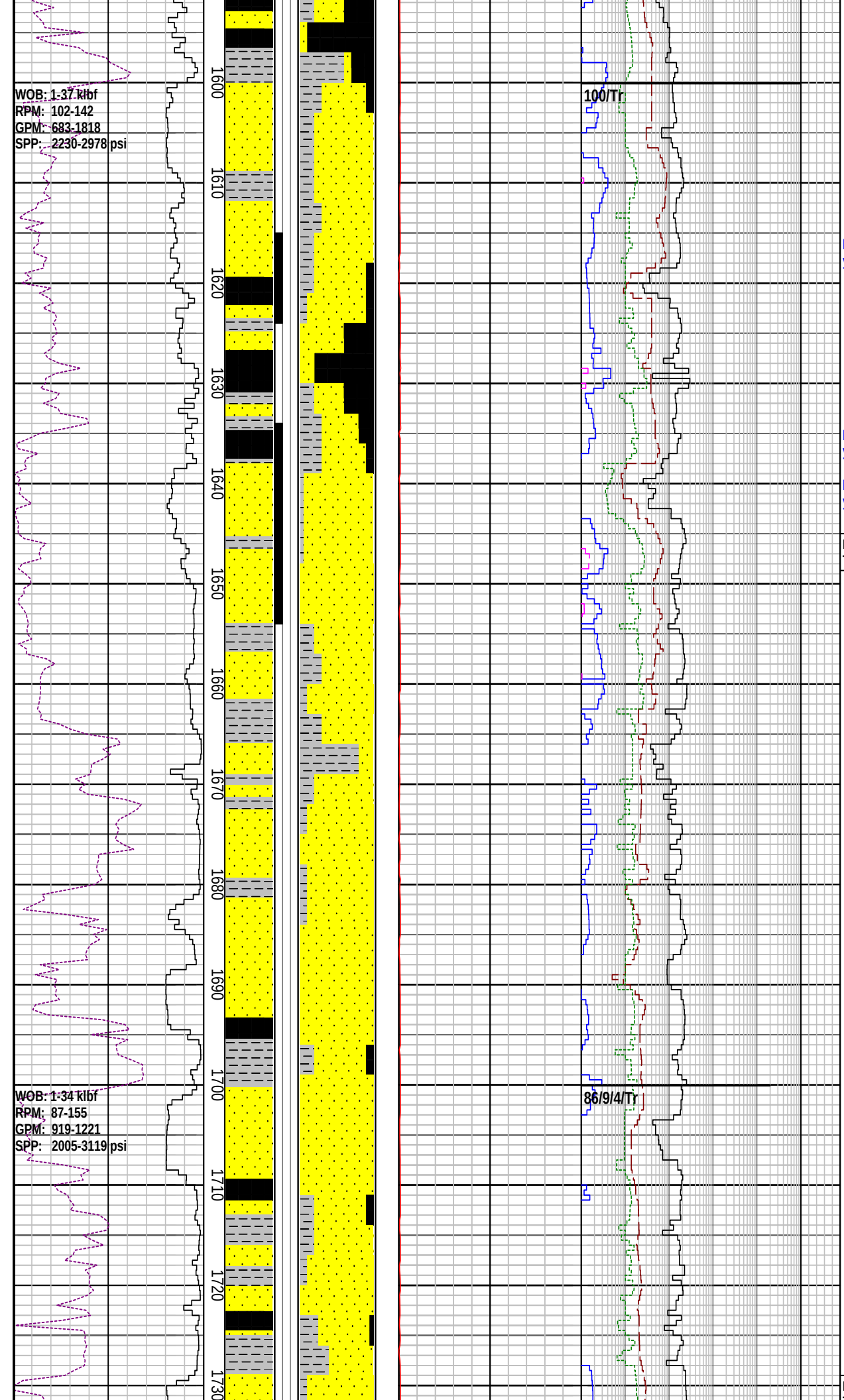
COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

CLAYSTONE: m lt gy, sli calc, sli slty, dom disp, amor, tr sbblky

SANDSTONE : qtz, clr-trnsl, fros, m-crs, ang-sbrndd, v p srt, wk calc cmt, com arg & slty mtrx, tr qtzovgth, tr nod pyr, gd por, n fluor

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

MW: 9.5 ppg FV:75
PV : 20 YP:34
Gels: 12/16/18
Cl : 36000




COAL: blk, brit, hd, ang planar, conch frac, tr qtz sd

SANDSTONE : qtz, clr-trnsl, fros, m-crs, ang-sbrndd, v p srt, wk calc cmt, com arg & slty mtrx, tr qtzovgth, tr nod pyr, gd por, n fluor

FLUORESCENCE(1615-1624): tr p.p. mod br yel fluor, v slw mky stmg cut, n res ring

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

CLAYSTONE: m lt gy, sli calc, carb lam I.P., com disp, amor, tr frm & sbblky

FLUORESCENCE(1634-1639): 5% p.p. dull yel fluor, v slw mky stmg cut, n res ring

FLUORESCENCE(1639-1654): 80% p.p. dull yel fluor, v slw mky stmg cut, n res ring

MD: 1640.51, AZI: 28.44°
TVD: 1640.4, Incl: 0.45°

SANDSTONE : qtz, clr-trnsl, fros, m-crs, ang-sbrndd, v p srt, wk calc cmt, com arg & slty mtrx, tr qtzovgth, tr nod pyr, p vis por

CLAYSTONE: dk blk-ol blk, sli calc I.P., occ sli slty, tr carb spks, sli micmic, sft-frm, mas-sbfis I.P.

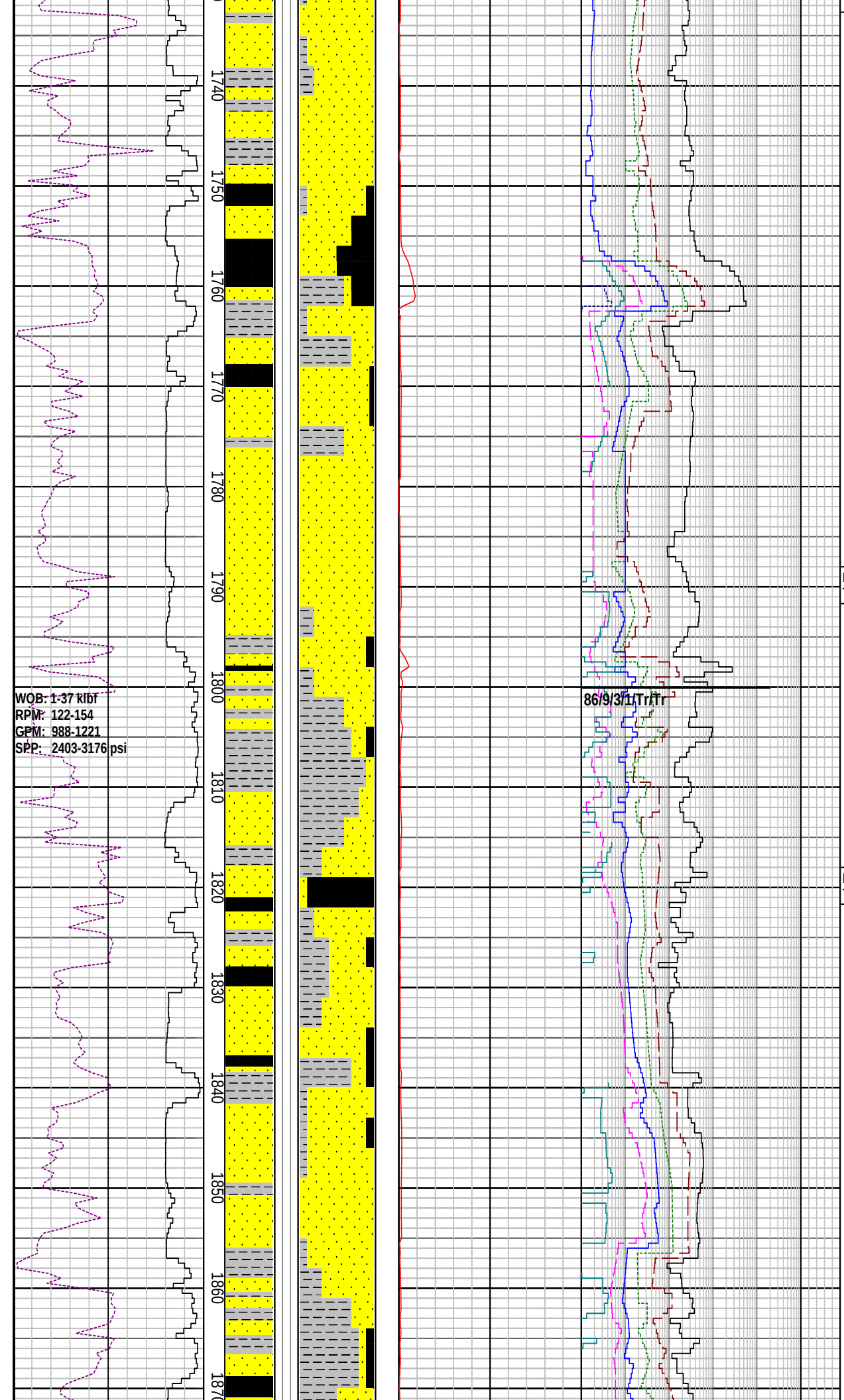
SANDSTONE : qtz, clr-trnsl, fros, m-crs, ang-sbrndd, v p srt, wk calc cmt, occ Fe stn qtz, fr por

CLAYSTONE: dk blk-ol blk, sli calc I.P., occ sli slty, tr carb spks, sli micmic, sft-frm, mas-sbfis I.P.

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

CLAYSTONE: dk blk-ol blk, sli calc I.P., occ sli slty, tr carb spks, sli micmic, sft-frm, mas-sbfis I.P.

MD: 1729.6, AZI: 18.32°




TVD: 1729.5, Incl: 0.55°

SANDSTONE: qtz, clr-transl, fros, m crs-v crs, ang-sbang, p srt, mod strng Dolcalc cmt, tr pyr cmt, tr kao incl, occ qtz ovgth, hd agg, p por

COAL: dk blk, brit, hd, ang planar, conch-frac

CLAYSTONE: dk blk-ol blk, sli calc l.P., occ sli slty, tr carb spks, sli micmic, sft-frm, mas-sbfis l.P.

SANDSTONE: qtz, clr-transl, fros, m-crs, sbang-sbrndd, wl srt, tr musc, mnr qtz ovgth, tr Fe stn, gd inf por, n shw

MD: 1788.72, AZI: 29.31°
TVD: 1788.6, Incl: 0.69°

CLAYSTONE: brn blk-ol gy, sli calc l.P., occ sli slty, tr carb spks, sli micmic, sft-frm, mas-sbfis l.P.

| | |
|---|---|
| MW: 9.5 ppg | FV:56 |
| PV : 19 | YP:35 |
| Gels: 12/15/17 | |
| Cl : 38100 | |

MD: 1818.45, AZI: 33.65°
TVD: 1818.4, Incl: 0.58°

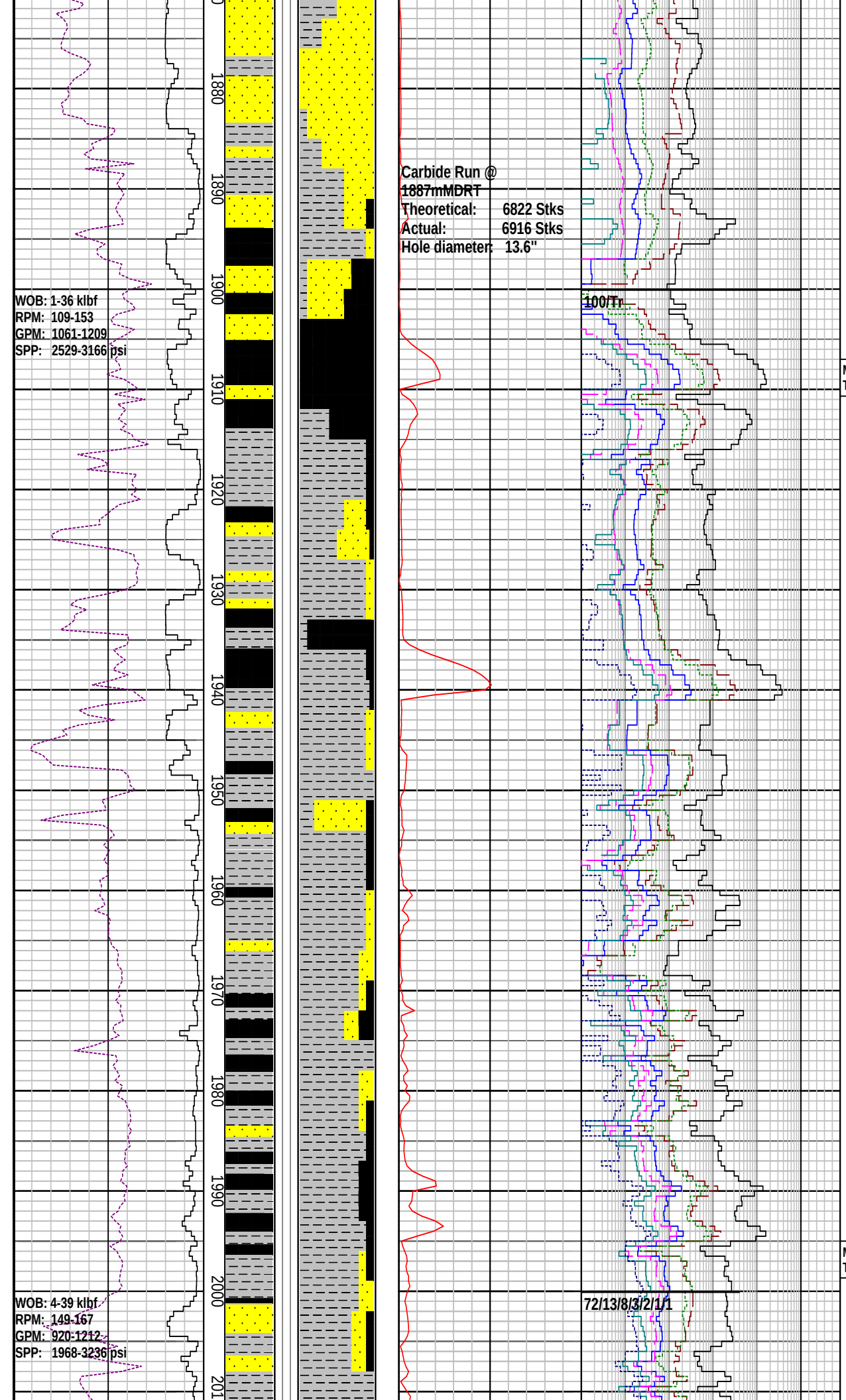
COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

SANDSTONE: qtz, clr-transl, fros, crs-gran, ang-sbrndd, mod srt, com musc, tr lit gr, gd inf por, n shw

CLAYSTONE: bl gy, sli calc l.P., sli slty, occ foss frag, sli micmic, dom frm blky, tr sft disp, amor

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd




SANDSTONE: qtz, clr-transl, fros, f-gran, sbang-sbrndd, p srt, com arg mtrx, tr lit gr, p inf por, n shw

CLAYSTONE: bl gy, sli calc l.P., sli slty, occ foss frag, sli micmic, dom frm blky, tr sft disp, amor

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

MD: 1906.9, AZI: 28.21°
TVD: 1906.8, Incl: 0.63°

CLAYSTONE: bl gy-ol gy, v slty grds-arg Sltst l.P., aren l.P., sli calc, sli micmic, occ frm, mas-blky

SANDSTONE: lit aren, lt brn gy-yel brn, v f-f, v slty l.P.grds-aren Sltst, sbang-sbrndd, wl srt, lt brn arg mtrx, com musc, tr carb spks, tr lit frag, fri-sft, v p vis por, n fluor

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

CLAYSTONE: bl gy-ol gy, v slty grds-arg Sltst l.P., aren l.P., sli calc, sli micmic, occ frm, mas-blky, sbfis l.P.

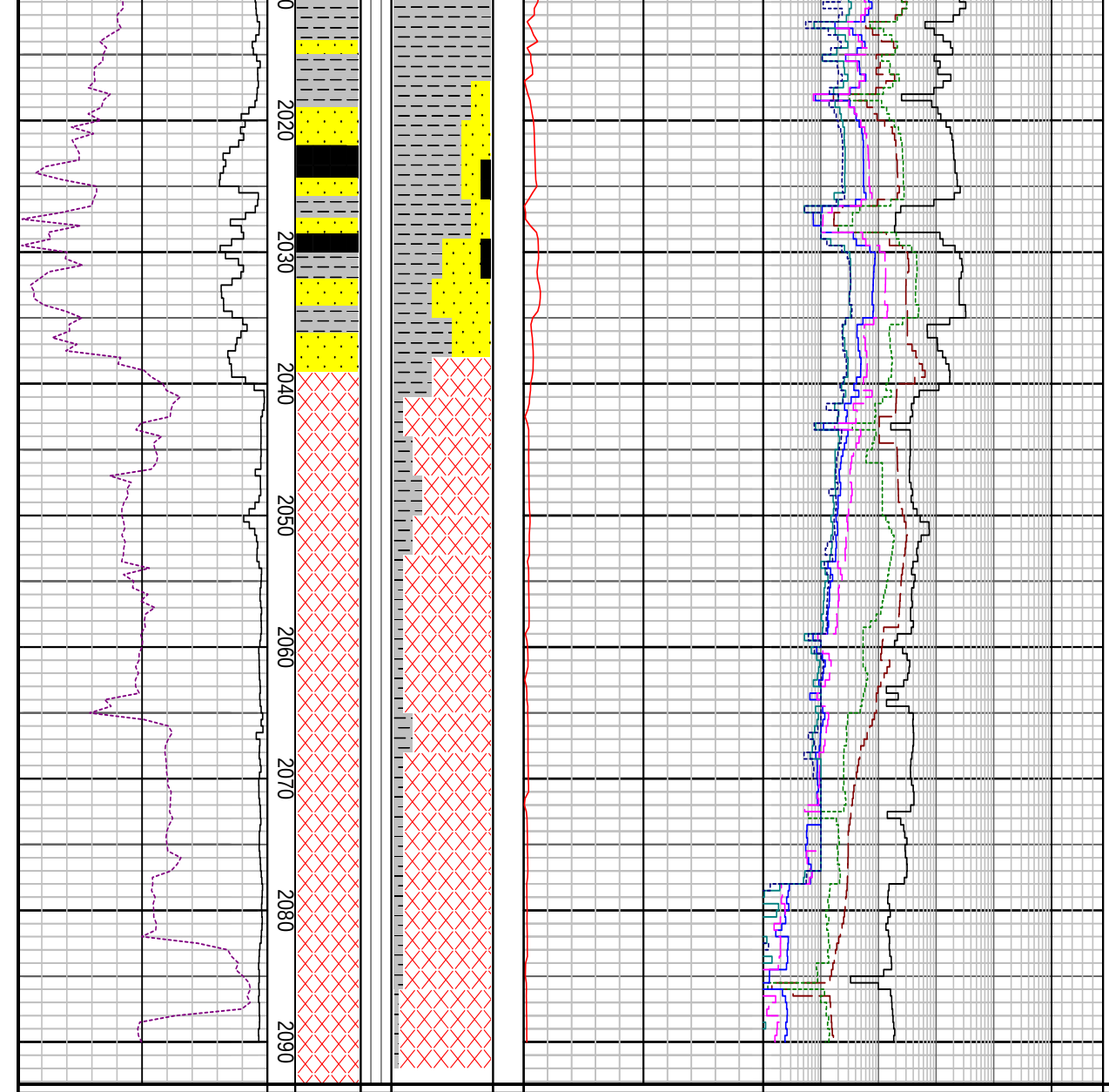
COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

SANDSTONE: lit aren, lt brn gy-yel brn, v f-f, v slty l.P.grds-aren Sltst, sbang-sbrndd, wl srt, lt brn arg mtrx, com musc, tr carb spks, tr lit frag, fri-sft, v p vis por, n fluor

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

MD: 1995.04, AZI: 13.45°
TVD: 1995.0, Incl: 0.77°

SANDSTONE: lit aren, lt brn gy-yel brn, f-m, sbang-sbrndd, mod srt, lt brn arg mtrx, com musc, tr carb spks, tr lit frag, fri-sft, v p vis por, n fluor




CLAYSTONE: bl gy-ol gy, v slty grds-arg Sltst l.P., aren l.P., sli calc, sli micmic, occ frm, mas-blky, sbfis l.P.

COAL: blk, sbbit, brit, hd, ang planar, conch frac, tr qtz sd

SANDSTONE: lit aren, lt brn gy-yel brn, f-m, sbang-sbrndd, mod srt, v slty arg mtrx, com musc, tr carb spks, tr lit frag, fri-sft, v p vis por, n fluor

DOLERITE: dk gn-gy ol gy, c xln, wlded grn bndrs, occ v f grn grnd mass l.P., xln comp plag, hornbd, hd & blky

## FORMATION EVALUATION LOG

**DRILLING PARAM**
ROP (m/hr)
200 160 120 80 40
WEIGHT ON BIT (klbf)
10 20 30 40 50

MD meters 1:500

INTERPRETED LITHOLOGY

Oil Show
P F G

LITHOLOGY %

CORE

**TOTAL GAS**
Total Gas (unit)
10 20 30 40 50

**CHROMATOGRAPH**
Methane ppm 0.1 10000
Ethane ppm 0.1 10000
Propane ppm 0.1 10000
iso-Butane ppm 0.1 10000
n-Butane ppm 0.1 10000
iso-Pentane ppm 0.1 10000
n-Pentane ppm 0.1 10000

Calcimetry

**Lithology Description**