

FORMATION EVALUATION LOG

1:200



Company : Beach Petroleum Ltd

Well : PeeJay-1

Interval : 96.00 - 2191.92 meters

Created : 28/Nov/2008 6:45:42 AM



INTEQ

FORMATION EVALUATION LOG

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

		100							Spud PeeJay-1 @ 18:30 Hrs on 15-Nov-2008
		110							RT MSL: 34.15mMDRT Water Depth: 78.00mMDRT RT Seabed: 112.15mMDRT
		120							Drill 36" hole with seawater & Hi Vis sweeps Returns to Seabed 112.15m to 218m
		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

WOB: 1-10 klbf
RPM: 117-120
GPM: 953-954
SPP: 660-827 psi

Set 762mm (30") conductor at 216

NB2: 406mm (16")
Make: Hughes
Type: Rock/GX-1V
Jets: 3x20
Depth In: 218.0m
Depth Out: 810.0m
Drilled 892.0m in 11.6hrs
Grade: 1-1-NO-A-E-I-NO-TD

WOB: 1-10 klbf
RPM: 78-147
GPM: 600-1200
SPP: 495-2123 psi

200
210
220
230
240
250
260
270
280
290
300
310
320
330

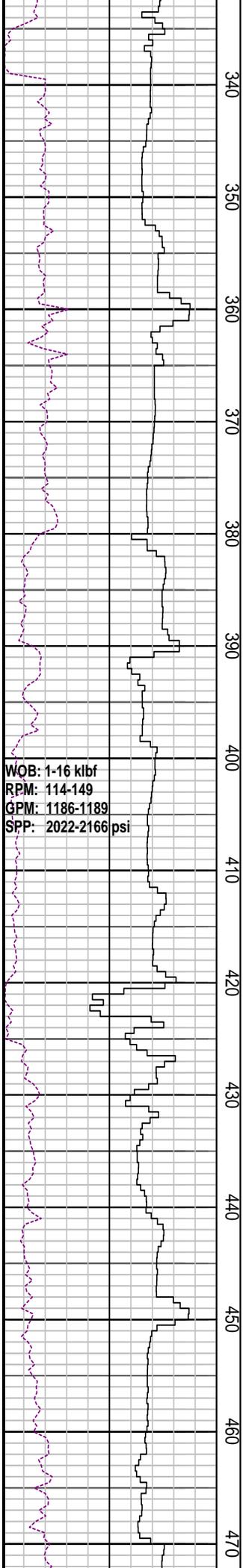
Drill 16" hole with seawater & Hi Vis sweeps
Returns to Seabed 218m to 810m

MD: 270.0, AZI: 150.86°
TVD: 265.0, INC: 1.45°

MD: 294.5, AZI: 140.54°
TVD: 294.4, INC: 1.15°

Returns to Seabed

MD: 324.0, AZI: 150.84°
TVD: 323.9, INC: 1.06°



340

350

360

370

380

390

400

410

420

430

440

450

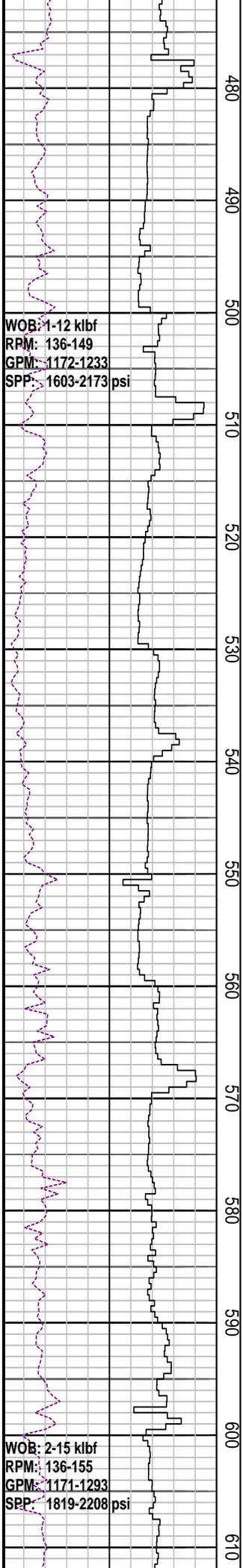
460

470

Returns to Seabed

MD: 413.4, AZI: 197.79°

TVD: 413.3, INC: 0.46°



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

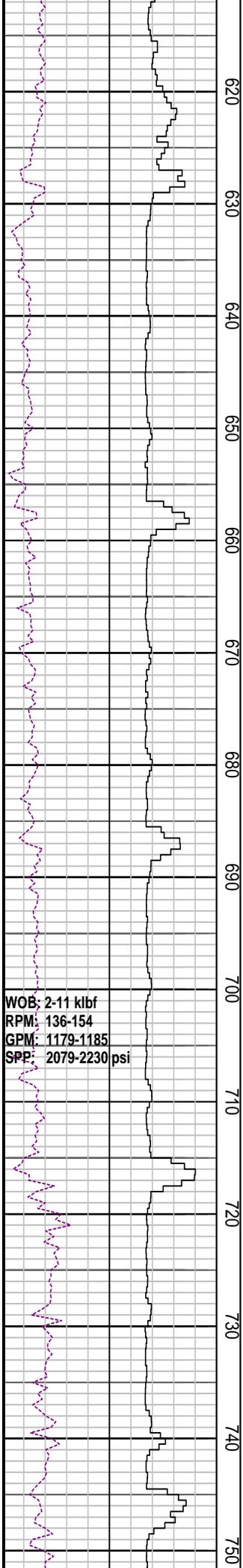
480
490
500
510
520
530
540
550
560
570
580
590
600
610

Returns to Seabed

MD: 502.2, AZI: 197.76°
TVD: 502.1, INC: 0.23°

MD: 591.8, AZI: 226.93°
TVD: 591.7, INC: 0.37°

Returns to Seabed

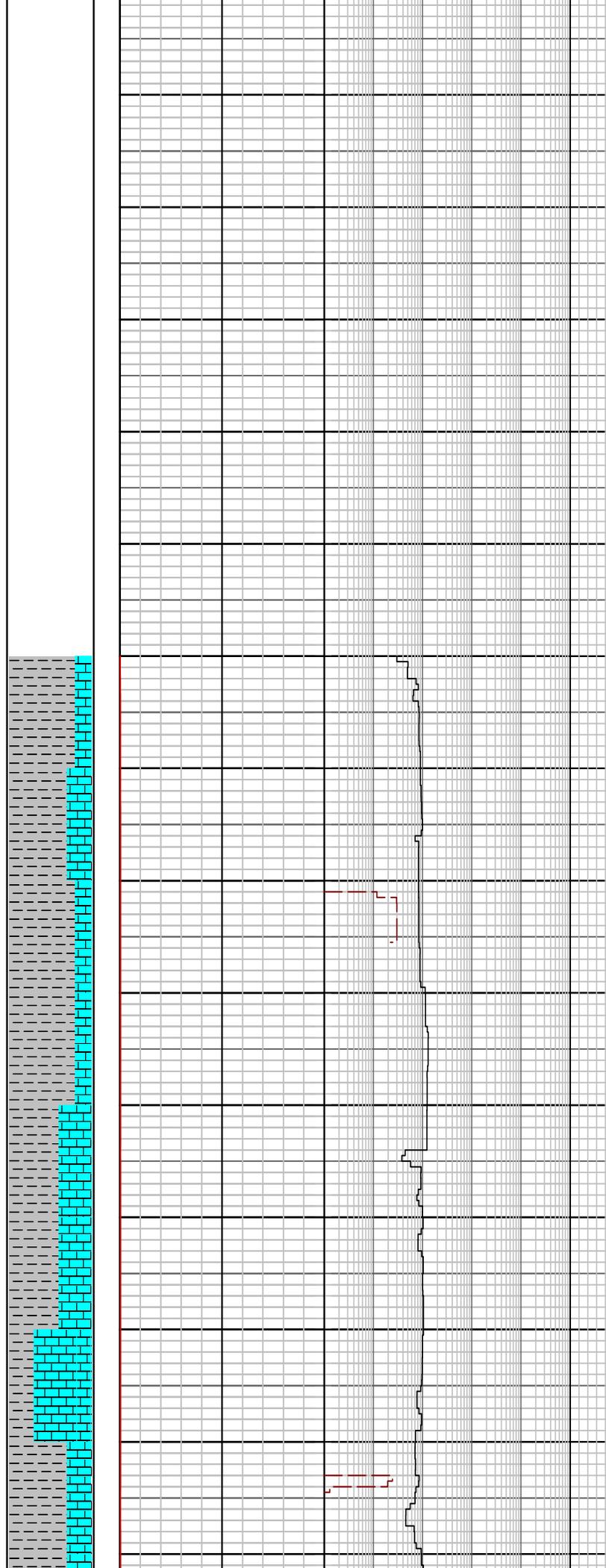
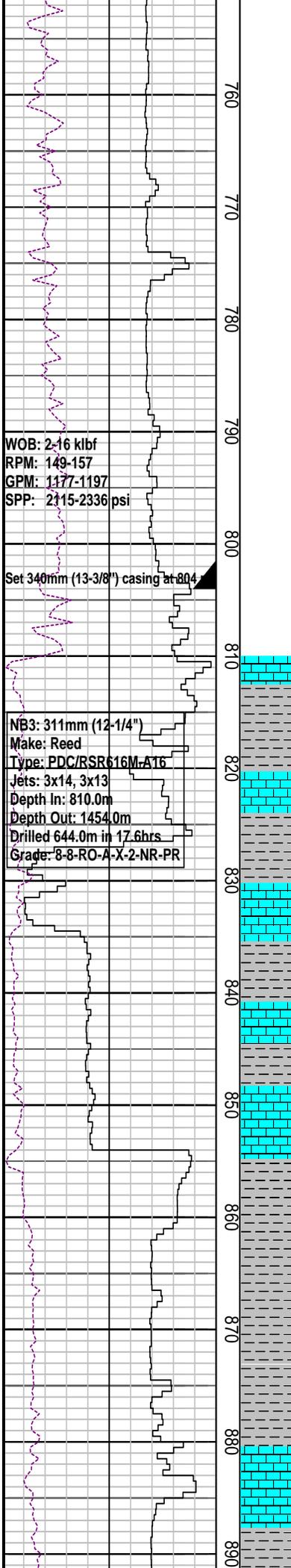


620
630
640
650
660
670
680
690
700
710
720
730
740
750

WOB: 2-11 klbf
RPM: 136-154
GPM: 1179-1185
SPP: 2079-2230 psi

MD: 679.5, AZI: 321.43°
TVD: 679.5, INC: 0.12°

Returns to Seabed



MD: 768.3, AZI: 271.31°
 TVD: 768.2, INC: 0.20°

Returns to Seabed

MD: 804.0, AZI: 236.85°
 TVD: 803.9, INC: 0.21°

LIMESTONE: Bio clear pale yel brn-lt brn gy, micr, com cor frag, f-m, 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: 842.9, AZI: 127.38°
 TVD: 842.8, INC: 0.43°

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

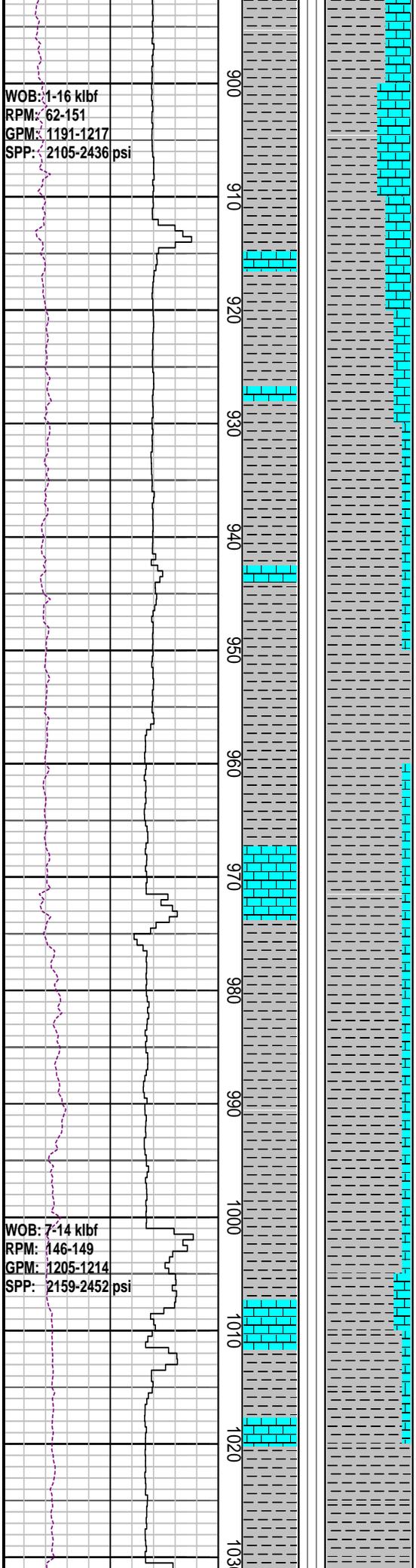
LIMESTONE: clear, v lt gy-yel brn, f-m I.P, micr, com m wh calc spar, tr foss/coral frag, com wh m calc spar, bri, blk, v p por, n fluor

CLAYSTONE: m gy-m dk gy, sli calc, s

WOB: 1-16 klbf
RPM: 62-151
GPM: 1191-1217
SPP: 2105-2436 psi

WOB: 7-14 klbf
RPM: 146-149
GPM: 1205-1214
SPP: 2159-2452 psi

900
910
920
930
940
950
960
970
980
990
1000
1010
1020
1030



100/0

100/0

CLAYSTONE: m gy-m dk gy, sli calc, s
silty, tr micmic I.P, occ wh calc, sm, plas,
mas-amor

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

MD: 931.0, AZI: 102.94°
TVD: 930.9, INC: 0.44°

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

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

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

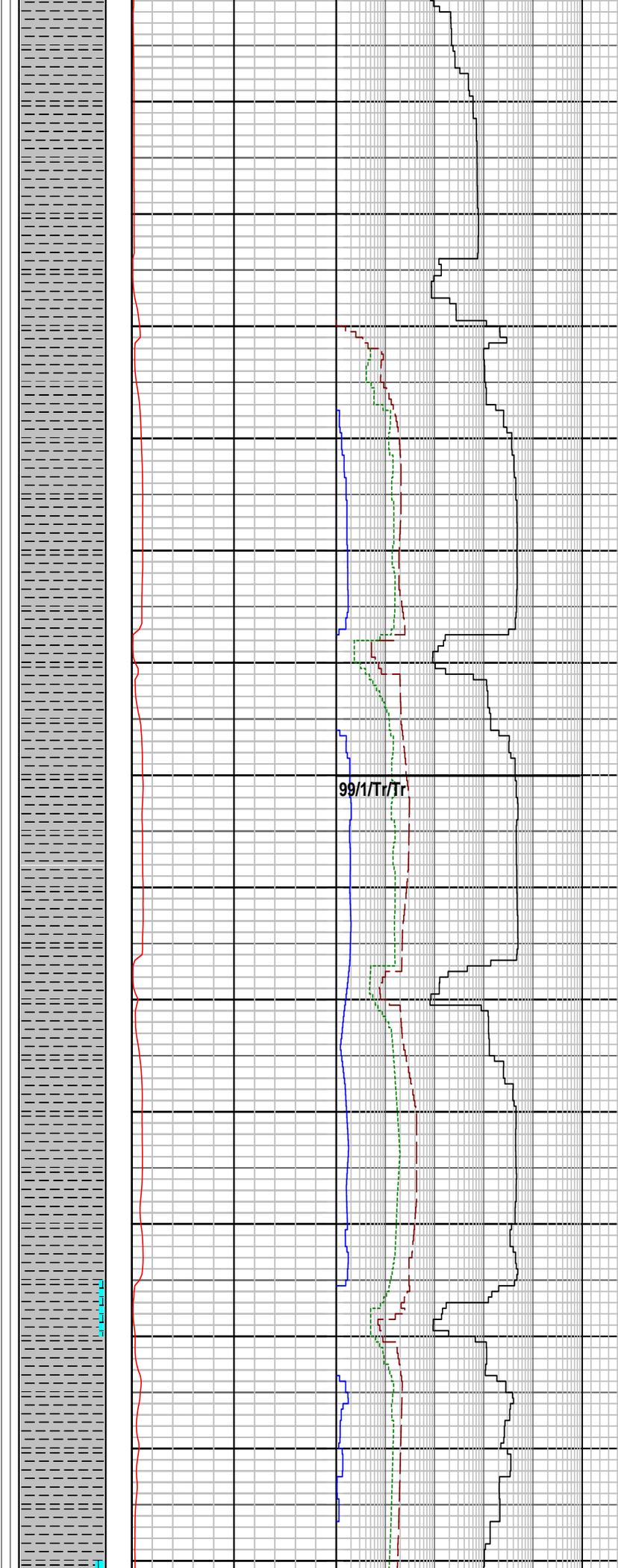
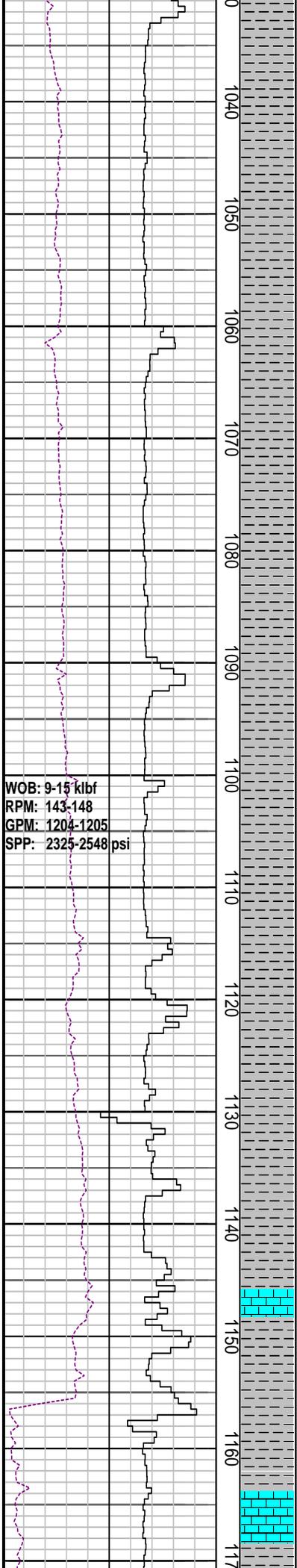
CLAYSTONE: m dk gy-ol gy, mod-loc v
calc grd-clclt I.P, sli silty, tr carb mat, mrl
tex, sft, plas, mas-amor

LIMESTONE: clcar-clst, brn gy-dk yel
brn, micr, loc sli Dol, com m-crs calc
spar, occ cor frag, bri-hd I.P, blkly, p por,
n fluor

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

MD: 1019.6, AZI: 112.01°
TVD: 1019.5, INC: 0.43°

CLAYSTONE: m dk gy-ol gy, mod-loc v



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

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

MD: 1048.6, AZI: 126.08°
 TVD: 1048.5, INC: 0.33°

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

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

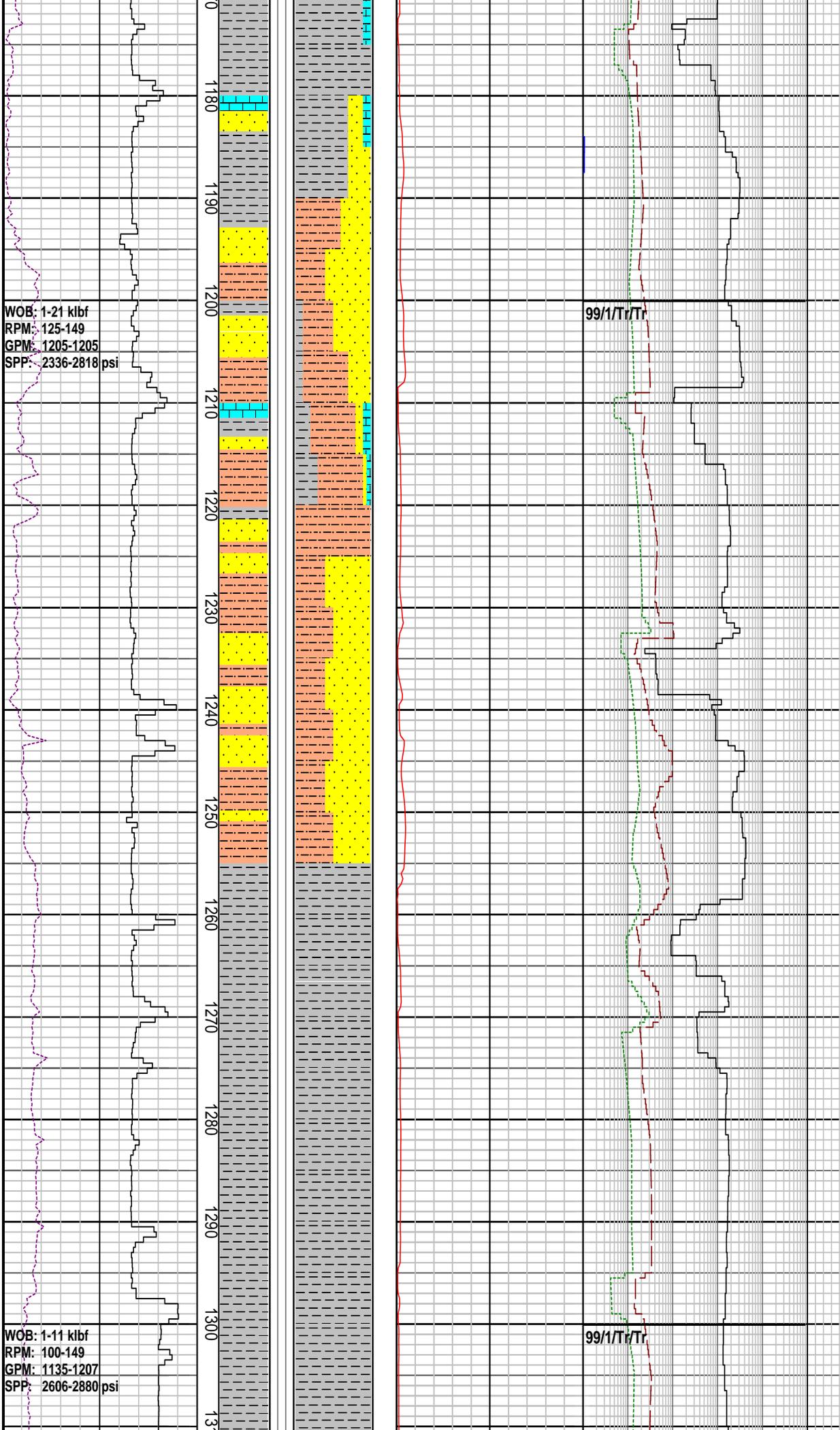
CLAYSTONE: m gy-ol gy, mnr m dk gy, r bl gy, sli-dom calc, loc sli slty, r musc, r carb mat, tr micr pyr, sft-frm, plas I.P, mnr amor

MD: 1108.5, AZI: 130.22°
 TVD: 1108.4, INC: 0.33°

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

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

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



MD: 1167.4, AZI: 121.98°
TVD: 1167.3, INC: 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 slit mtrx, fr inf por

SILTSTONE: ol gy-m dk gy, v sli calc, r nod pyr, sft, plas I.P, sbbiky, grd to Clst

CLAYSTONE: lt bl gy, sli calc, com calc vn, sft, plas I.P, sbbiky

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

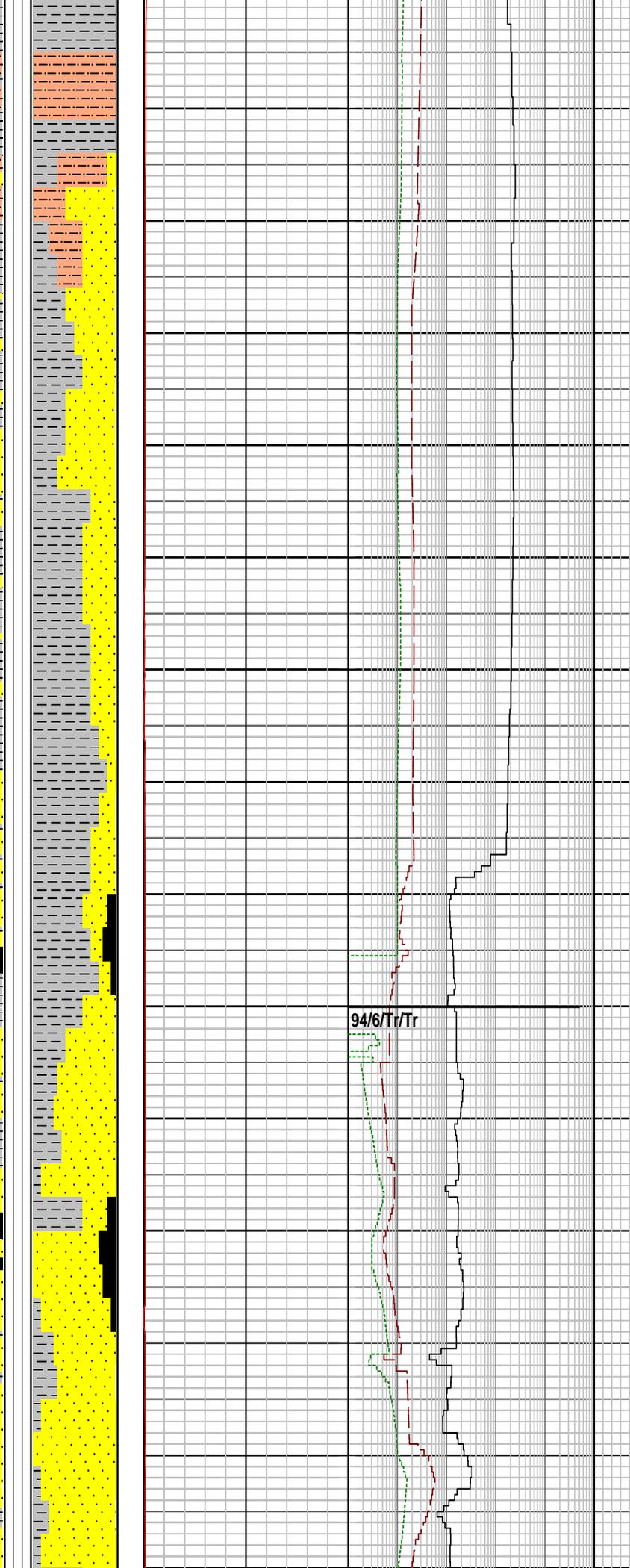
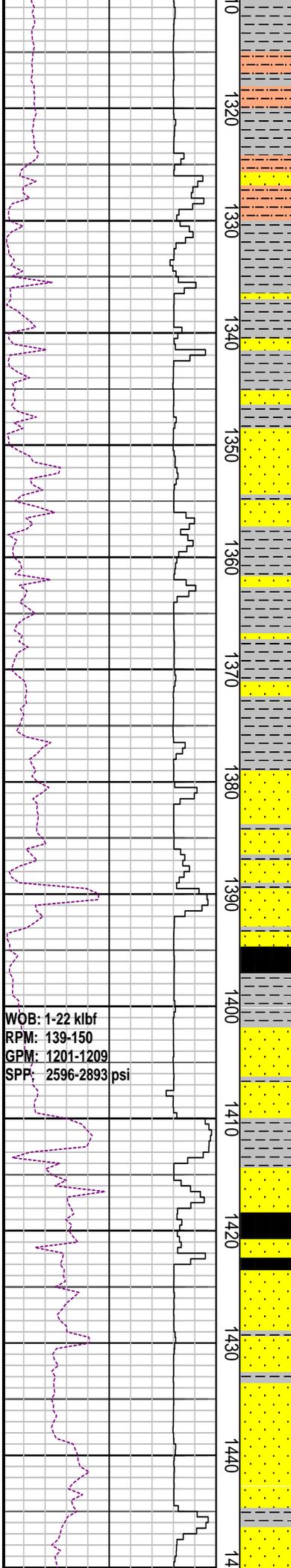
SILTSTONE: ol gy-m dk gy, v sli calc, r nod pyr, sft, plas I.P, sbbiky, grd to Clst

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 slit mtrx, fr inf por

CLAYSTONE: lt bl gy, sli calc, com calc vn, sft, plas I.P, sbbiky

MD: 1285.8, AZI: 61.10°
TVD: 1285.8, INC: 0.69°

CLAYSTONE: m dk gy-dk gy, v sli calc, mnr-com pyr, sli slty, sft, plas-mnr sbbiky



SILTSTONE: m dk gy-dk gy, v sli calc, tr pyr, r foram, arg I.P, grd to Clst, sft-frm I.P, tr plas, dom sbbkly, tr blkly

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

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

MD: 1345.0, AZI: 106.82°
 TVD: 1345, INC: 0.68°

CLAYSTONE: brn gy, sli calc, tr qtz, mnr amor,

MD: 1374.5, AZI: 110.27°
 TVD: 1374.5, INC: 0.67°

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

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

94/6/Tr/Tr

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

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

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

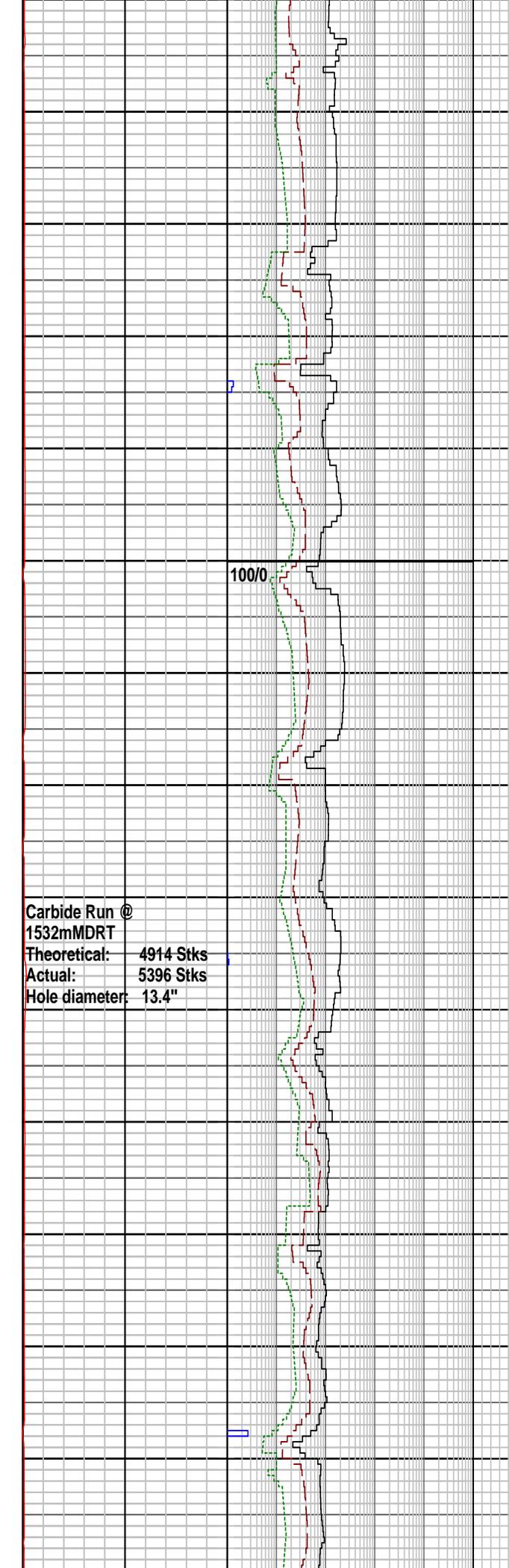
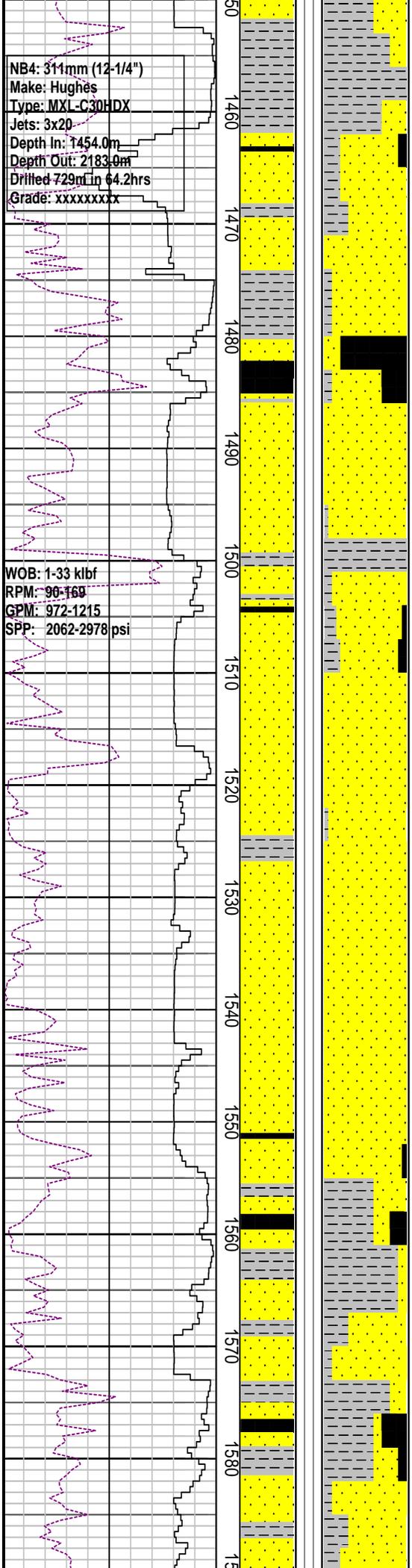
MD: 1433.6, AZI: 132.78°
 TVD: 1433.5, INC: 0.69°

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

NB4: 311mm (12-1/4")
 Make: Hughes
 Type: MXL-C30HDX
 Jets: 3x20
 Depth In: 1454.0m
 Depth Out: 2183.0m
 Drilled 729m in 64.2hrs
 Grade: xxxxxxxx

WOB: 1-33 klbf
 RPM: 90-169
 GPM: 972-1215
 SPP: 2062-2978 psi

Carbide Run @
 1532mMDRT
 Theoretical: 4914 Stks
 Actual: 5396 Stks
 Hole diameter: 13.4"



por, n fluor

CLAYSTONE: lt brn gy, sli slty, sli aren I.P, tr carb frag & micr lam, sli micmic, tr foss frag, sft-frm I.P, mass-amor, occ blk

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

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

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

MD: 1492.8, AZI: 331.27°
 TVD: 1492.7, INC: 0.31°

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

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

MD: 1552.0, AZI: 350.47°
 TVD: 1552.0, INC: 0.35°

COAL: blk, sbbit, brit, hd, ang plnr, 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 qtz ovgh, tr nod pyr, gd por, n fluor

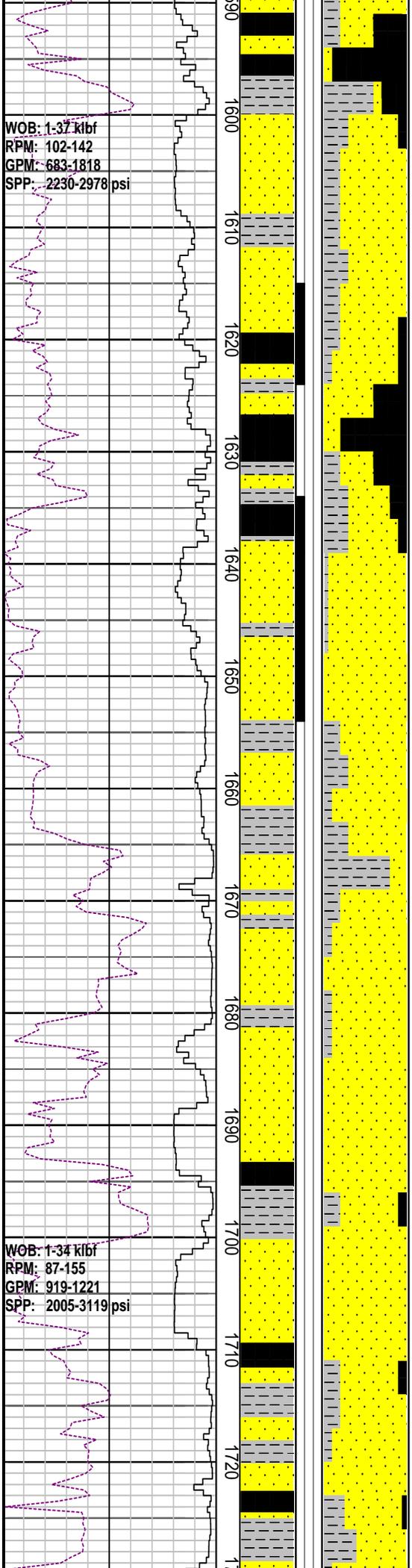
COAL: blk, sbbit, brit, hd, ang plnr, conch frac, tr qtz sd

MW: 9.5 ppg
 PV : 20
 Gels: 12/16/18
 CI : 36000

FV:75
 YP:34

WOB: 1-37 kibf
RPM: 102-142
GPM: 683-1818
SPP: 2230-2978 psi

WOB: 1-34 kibf
RPM: 87-155
GPM: 919-1221
SPP: 2005-3119 psi



100/Tt

86/9/4/Tt

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

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

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: 1640.5, AZI: 28.44°
TVD: 1640.4, INC: 0.45°

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

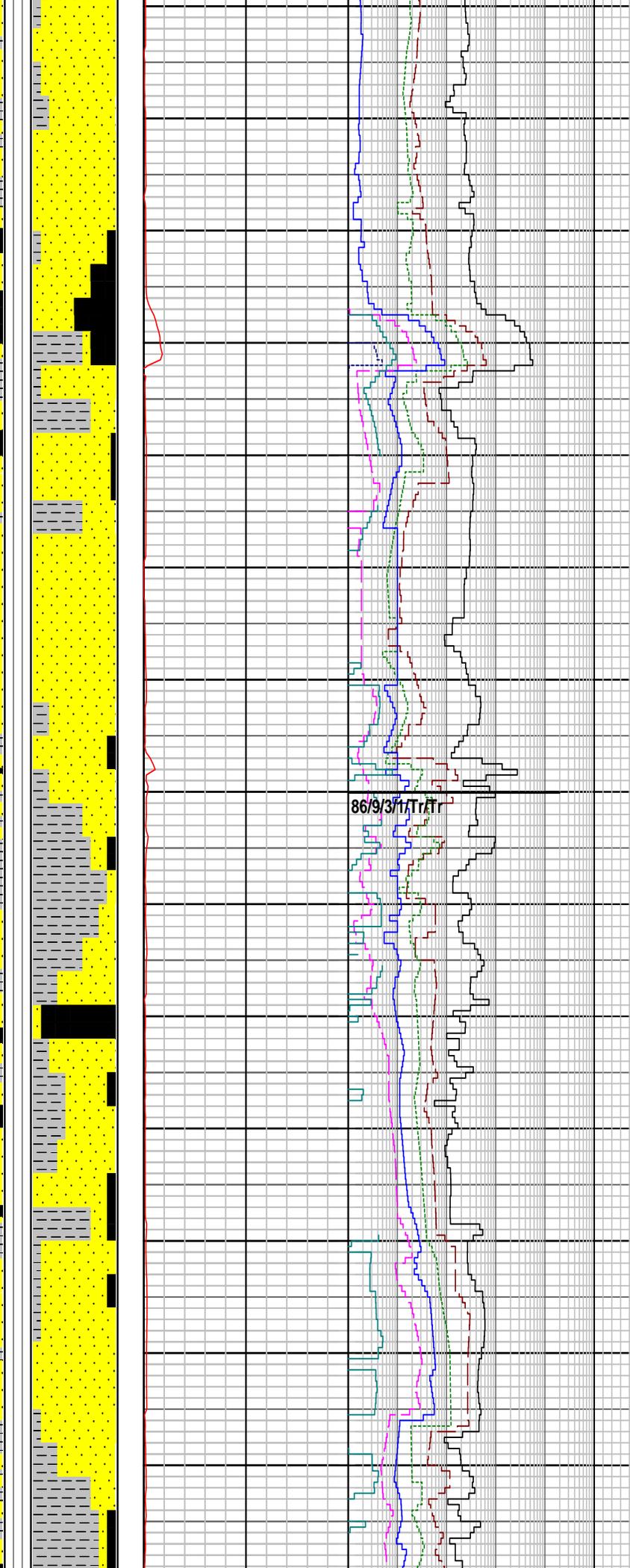
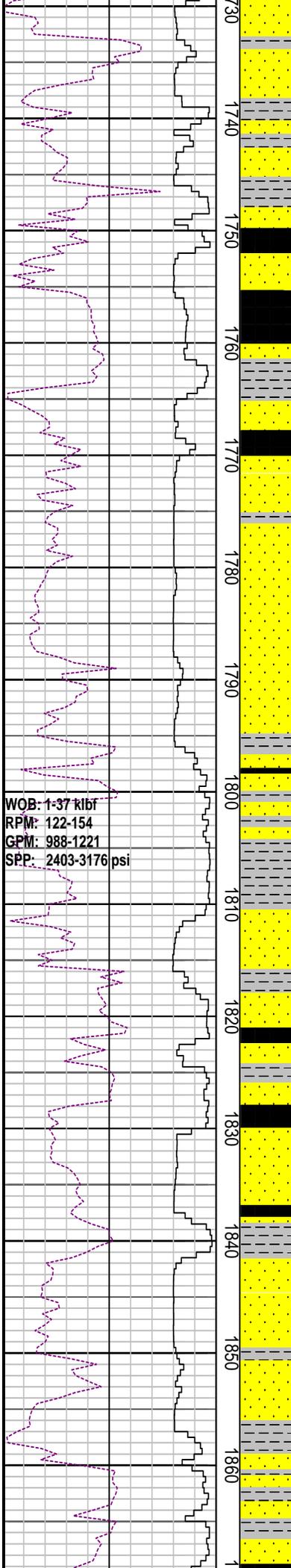
CLAYSTONE: dk blk-ol blk, sli calc I.P, occ sli slty, tr carb spks, sli micmic, sft-frm, mas-sbfis I.P

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 plnr, 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, INC: 0.55°

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

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

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-transl, fros, m-crs, sbang-sbrndd, wl srt, tr musc, mntr qtz ovgh, tr Fe stn, gd inf por, n shw

MD: 1788.7, AZI: 29.31°
 TVD: 1788.6, INC: 0.69°

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

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

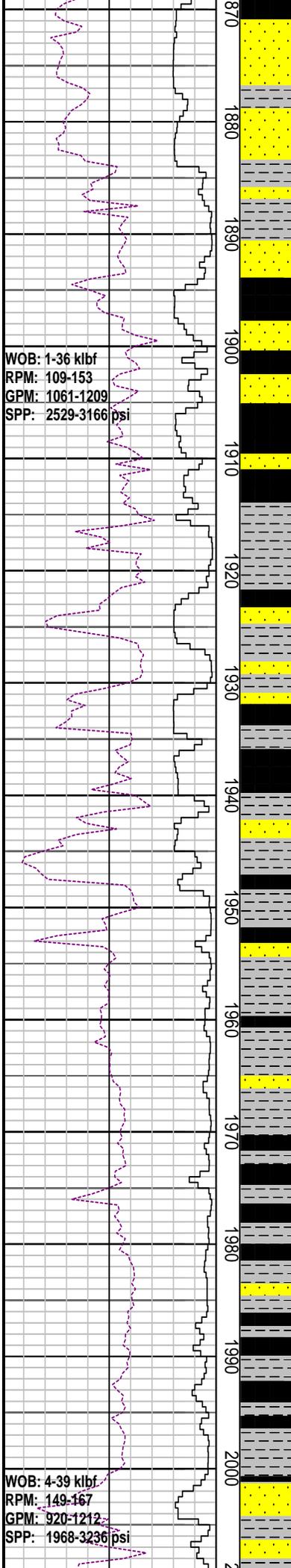
MD: 1818.5, AZI: 33.65°
 TVD: 1818.4, INCL: 0.58°

COAL: blk, sbbit, brit, hd, ang plnr, 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

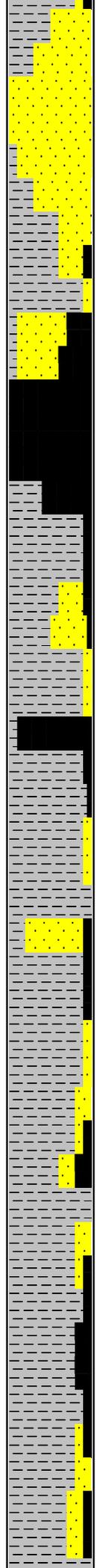
CLAYSTONE: bl gy, sli calc I.P, sli slty, occ foss frag, sli micmic, dom frm, blkly, tr sft, disp, amor

COAL: blk sbbit brit hd ang plnr

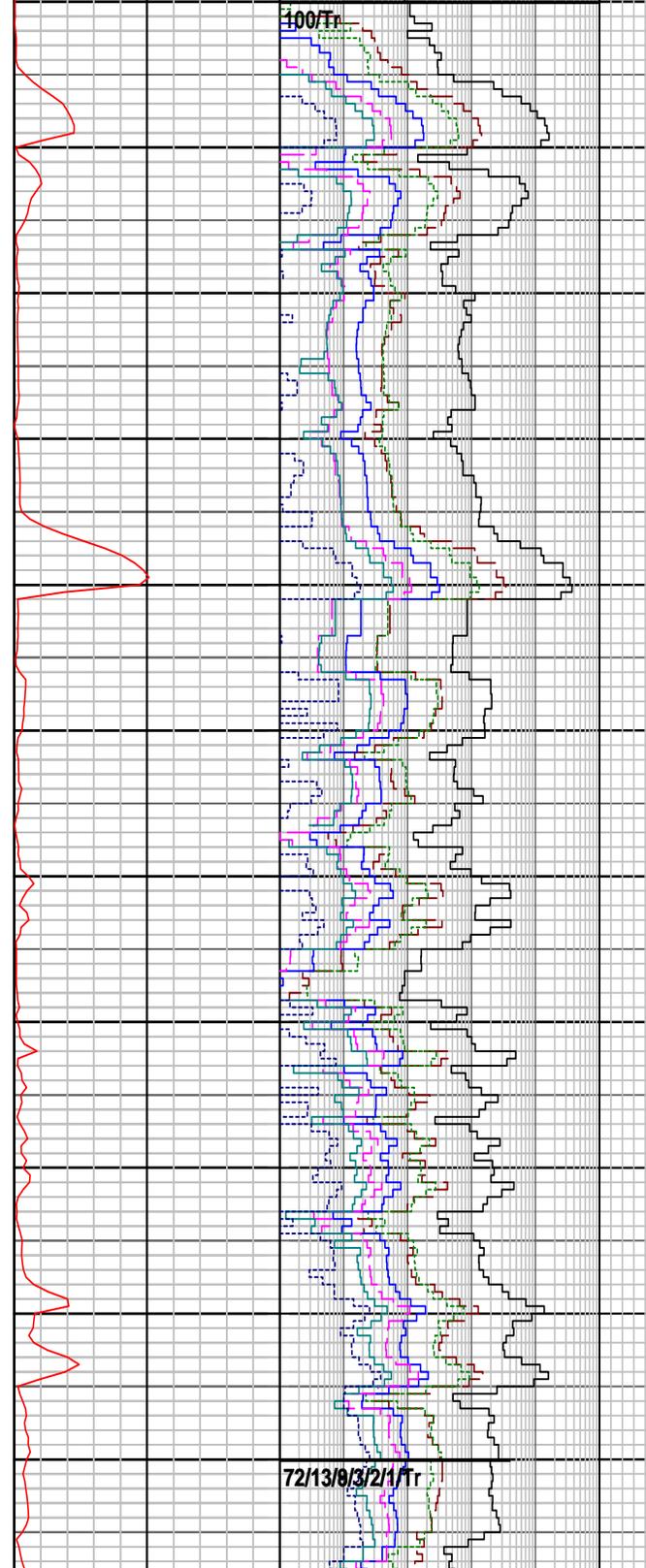


WOB: 1-36 klbf
 RPM: 109-153
 GPM: 1061-1209
 SPP: 2529-3166 psi

WOB: 4-39 klbf
 RPM: 149-167
 GPM: 920-1212
 SPP: 1968-3236 psi



Carbide Run @
1887mMDRT
 Theoretical: 6822 Stks
 Actual: 6916 Stks
 Hole diameter: 13.6"



100/T

72/13/8/3/2/1/T

COAL: blk, sbbit, brit, hd, ang plnr, 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 I.P, sli slty, occ foss frag, sli micmic, dom frm blk, tr sft disp, amor

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

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

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

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

SANDSTONE: lit aren, lt brn gy-yel brn, v f-f, v slty I.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 fluo

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

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

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

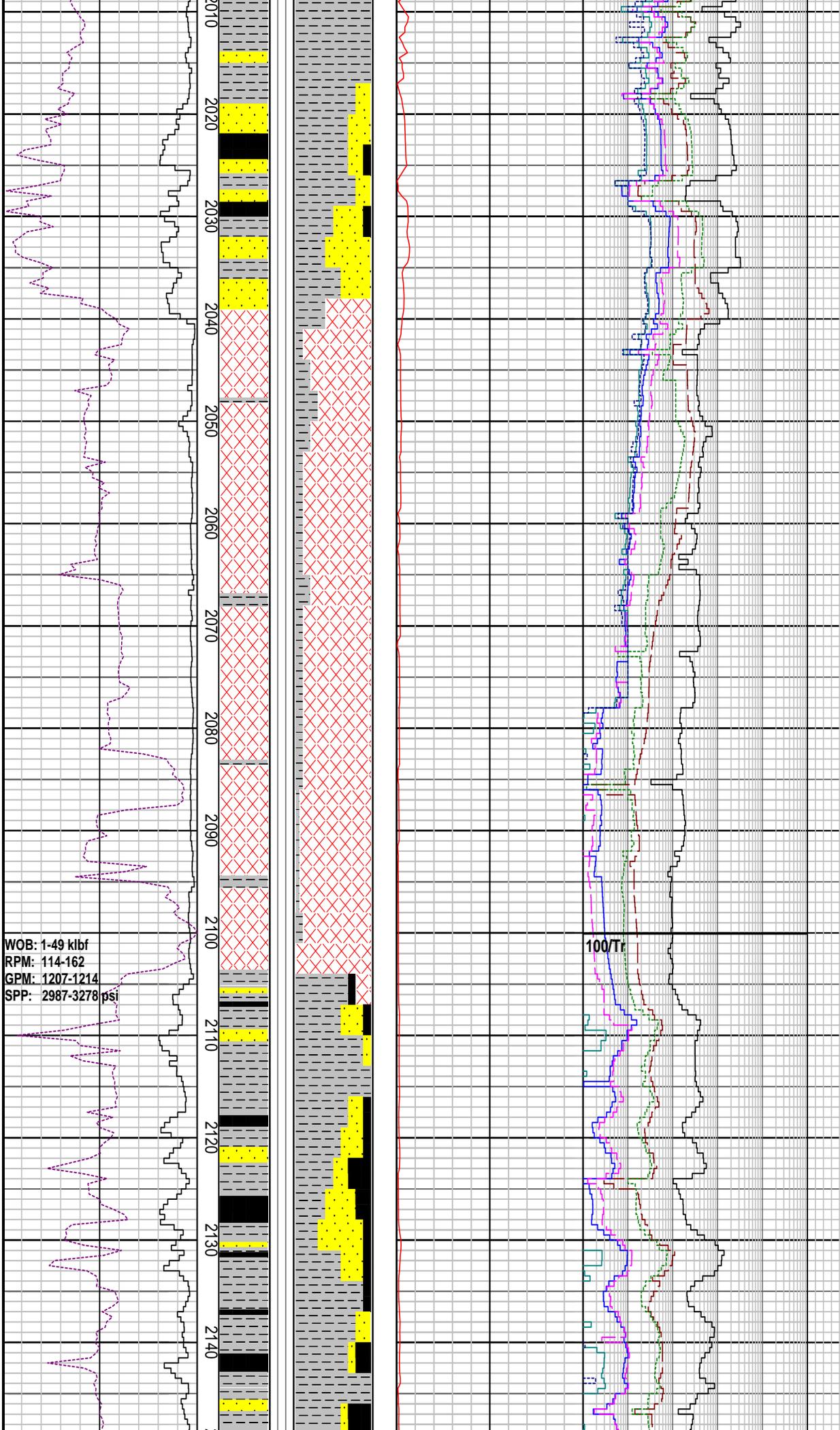
CLAYSTONE: bl gy-ol gy, v slty grds-arg Sltst I.P, aren I.P, sli calc, sli micmic, occ frm, mas-blky, sbfis I.P

SANDSTONE: lit aren, lt brn gy-yel brn, v f-f, v slty I.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 fluo

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

MD: 1995.0, AZI: 13.45°
 TVD: 1995.0, INC: 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 fluo



WOB: 1-49 kbf
 RPM: 114-162
 GPM: 1207-1214
 SPP: 2987-3278 psi

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

COAL: blk, sbbit, brit, hd, ang plnr,
 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 I.P, xln
 comp plag, hornbd, hd & blkly

CLAYSTONE: bl gy-ol gy yel brn I.P, v
 slty grds-arg Slst I.P, aren I.P, sli calc,
 sli micmic, occ frm, mas-blky, sbfis I.P

MD: 2084.0, AZI: 6.88°
 TVD: 2083.9, INC: 0.81°

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

100/Tf

CLAYSTONE: bl gy-ol gy, v slty grds-arg
 Slst I.P, aren I.P, sli calc, sli micmic, occ
 frm, carb

SANDSTONE: lit aren, m dk gy-olv gy,
 f-m, sbang-sbrndd, mod srt, slty arg mtrx
 I.P, com musc, tr carb spks, tr lit frag,
 fri-sft, v p vis por, n fluor

CLAYSTONE: bl gy-ol gy yel brn I.P, v
 slty, sli calc, tr lith frag, sli calc, micmic,
 occ frm, tr carb spk

MD: 2142.8, AZI: 57.33°
 TVD: 2142.7, INC: 1.07°

