

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

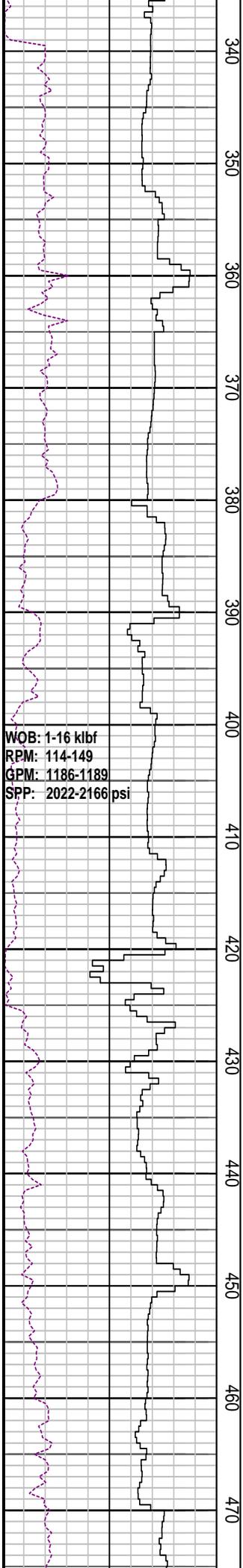
Drill 16" hole with seawater & Hi Vis
 sweeps
 Returns to Seabed 218m to 810m

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

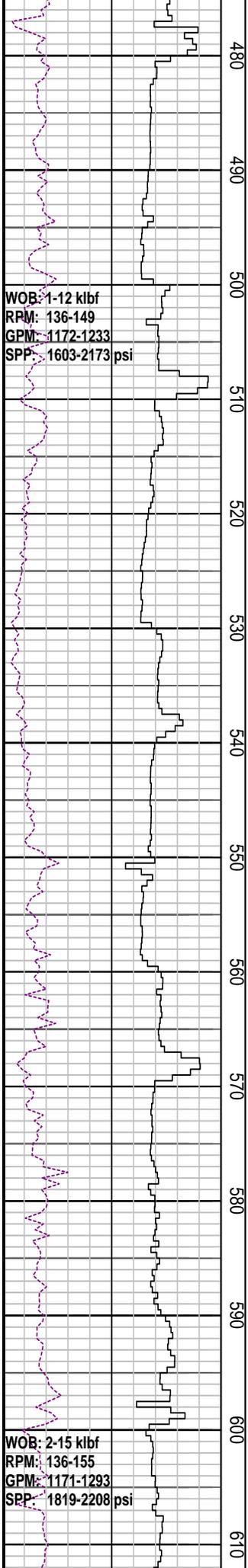
MD: 324.0, AZI: 150.84°
 TVD: 323.9, INC: 1.06°



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°



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

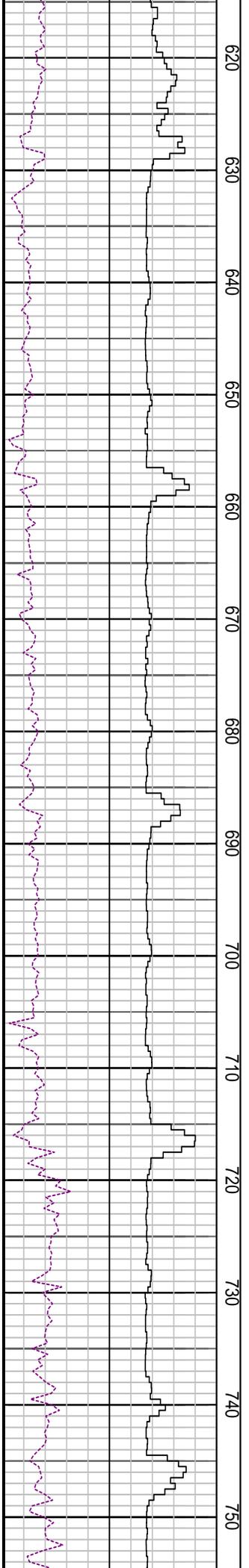
WOB: 2-15 klbf
RPM: 136-155
GPM: 1171-1293
SPP: 1819-2208 psi

Returns to Seabed

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

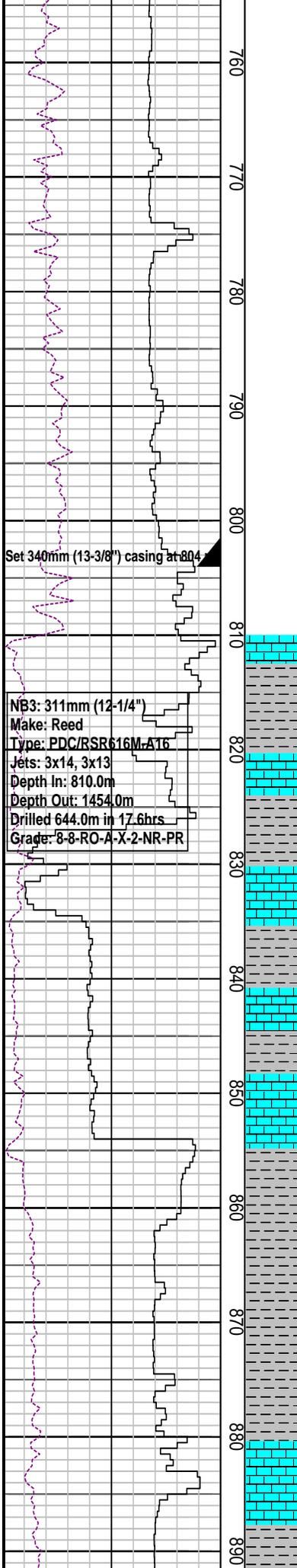
MD: 591.8, AZI: 226.93°
TVD: 591.7, INC: 0.37°

Returns to Seabed



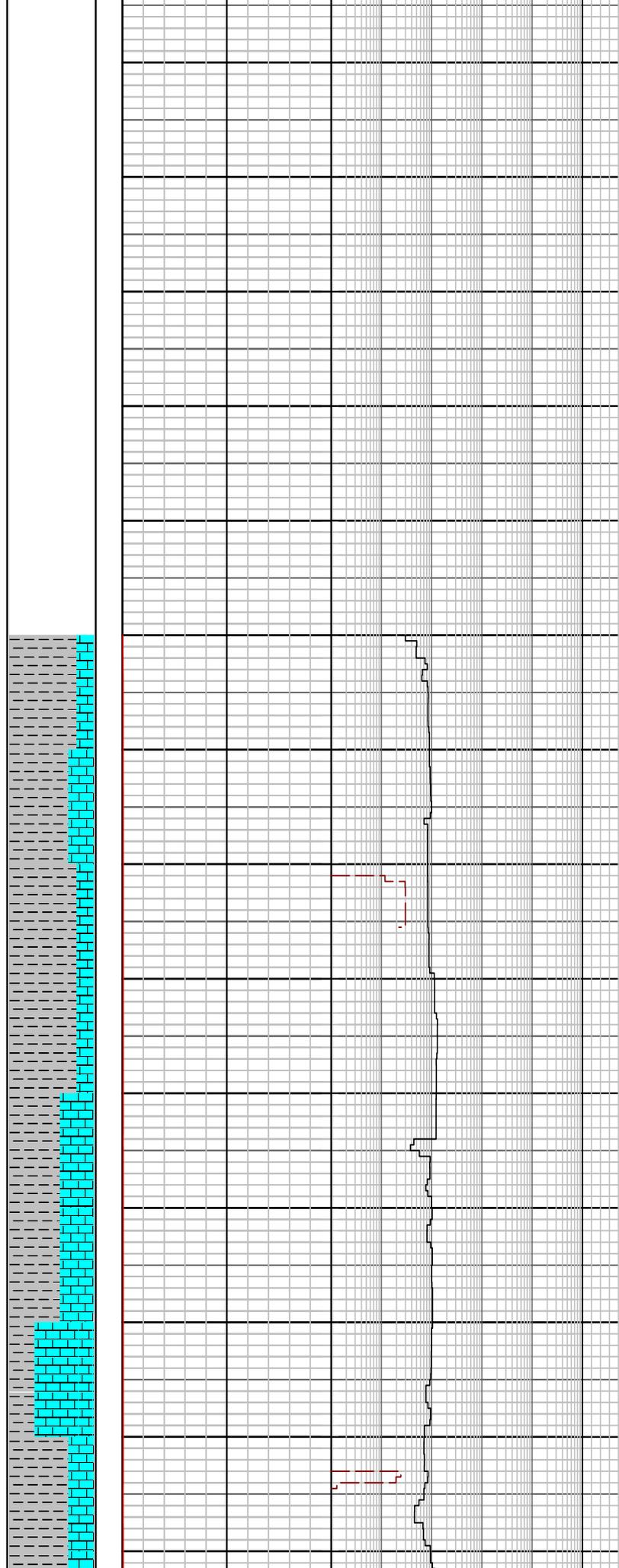
MD: 679.5, AZI: 321.43°
TVD: 679.5, INC: 0.12°

Returns to Seabed



Set 340mm (13-3/8") casing at 804

NB3: 311mm (12-1/4")
 Make: Reed
 Type: PDC/RSR616M-A16
 Jets: 3x14, 3x13
 Depth In: 810.0m
 Depth Out: 1454.0m
 Drilled 644.0m in 17.6hrs
 Grade: 8-8-RO-A-X-2-NR-PR



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 sily, 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 sily, 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

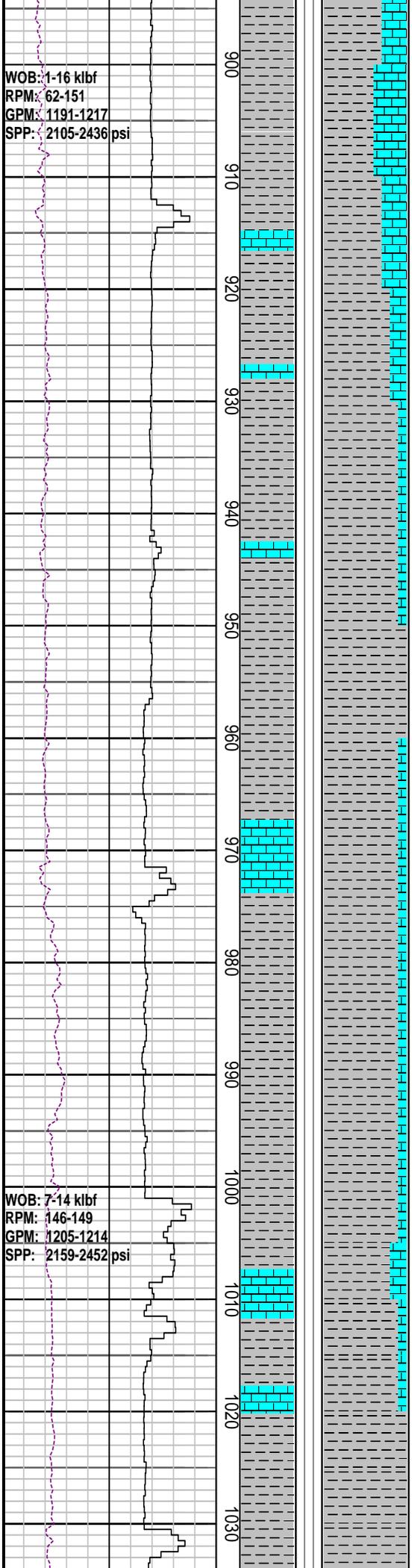
CLAYSTONE: m gy-m dk gy, sli calc, sli sily, tr micmic I.P, occ wh calc, sm, plas,

mas-amor

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

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

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 slty, tr carb mat, mrl tex, sft, plas, mas-amor

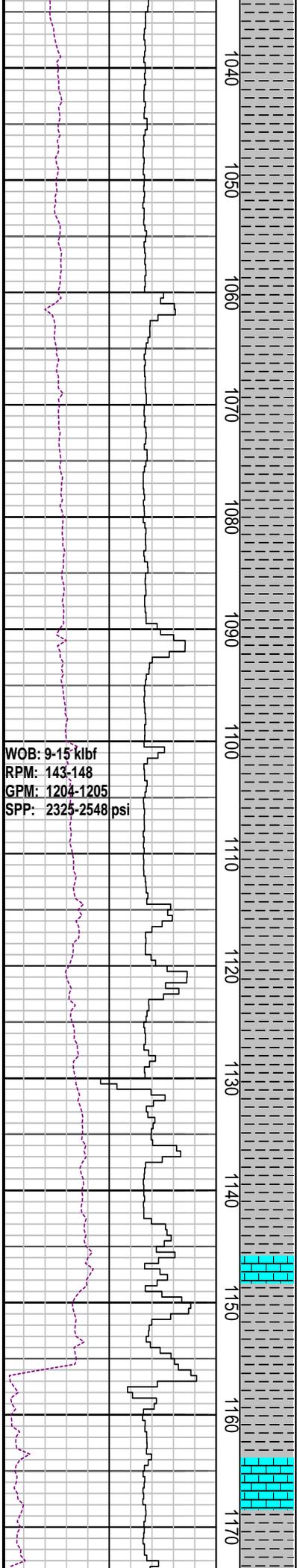
CLAYSTONE: m dk gy-ol gy, mod-loc v calc grd-clclt I.P, sli slty, tr carb mat, mrl tex, sft, plas, mas-amor

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

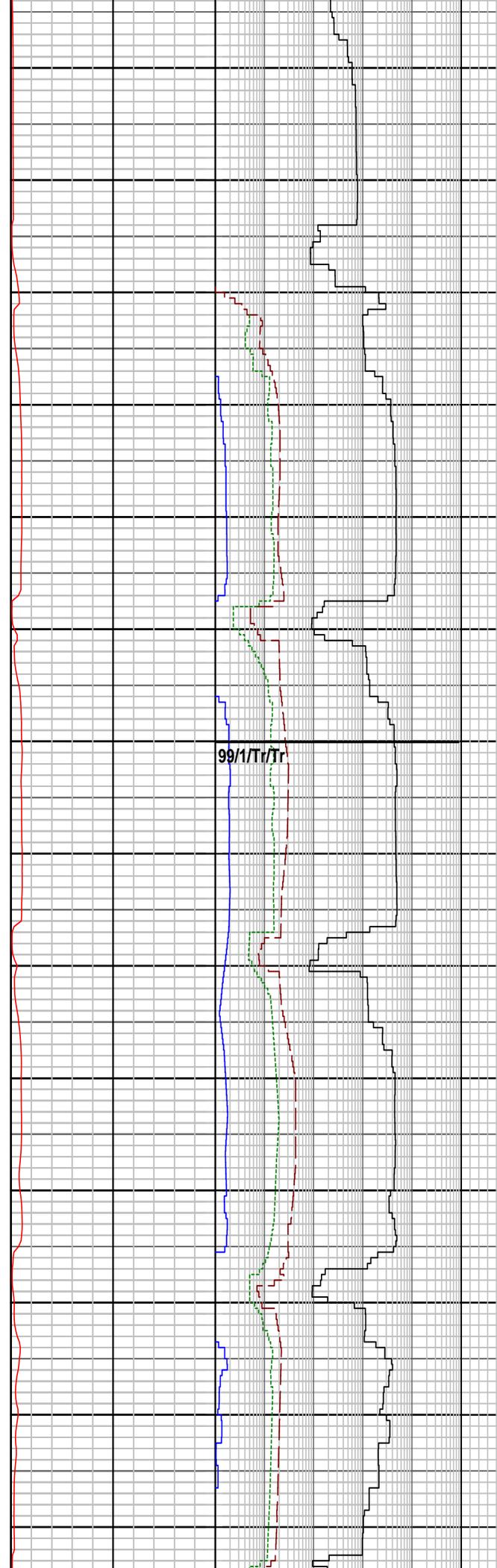
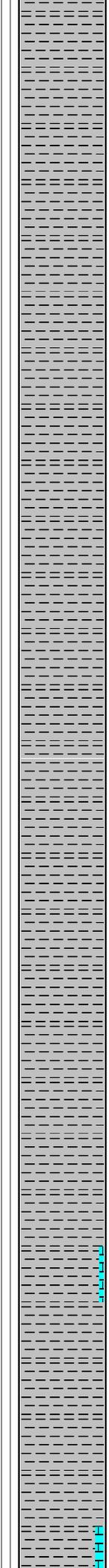
CLAYSTONE: m dk gy-ol gy, mod-loc v calc grd-clclt I.P, sli slty, tr carb mat, mrl tex, sft, plas, mas-amor

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

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



WOB: 9-15 klbf
 RPM: 143-148
 GPM: 1204-1205
 SPP: 2325-2548 psi



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 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-clcIt 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

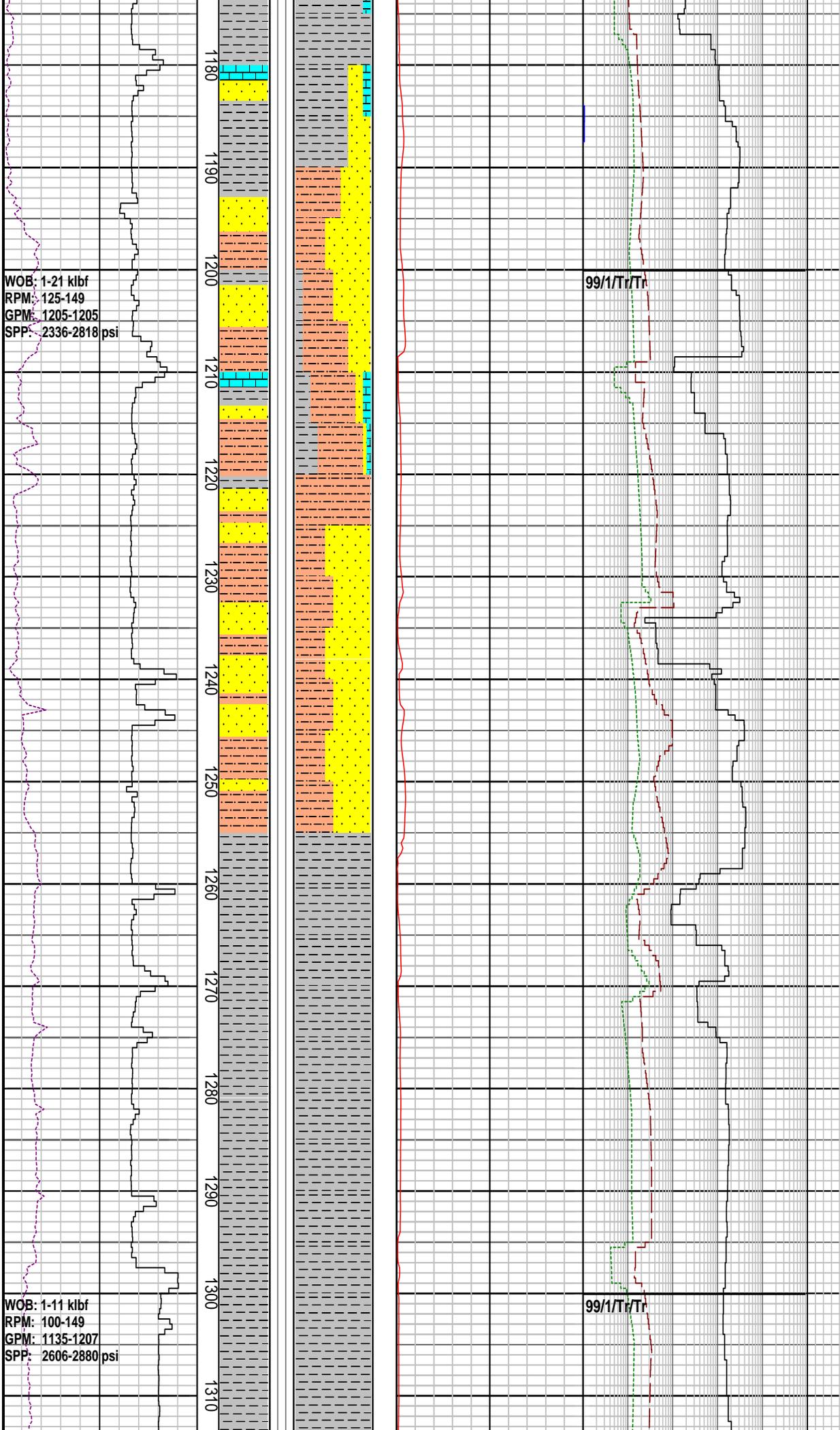
CLAYSTONE: m gy-ol gy, mnr m dk gy, r bl gy, sli-dom calc, loc sli slty, r musc, r carb mat, tr micr pyr, sft-frm, plas I.P, mnr amor

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-clslt, 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



WOB: 1-21 klbf
 RPM: 125-149
 GPM: 1205-1205
 SPP: 2336-2818 psi

WOB: 1-11 klbf
 RPM: 100-149
 GPM: 1135-1207
 SPP: 2606-2880 psi

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, mnrg 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	

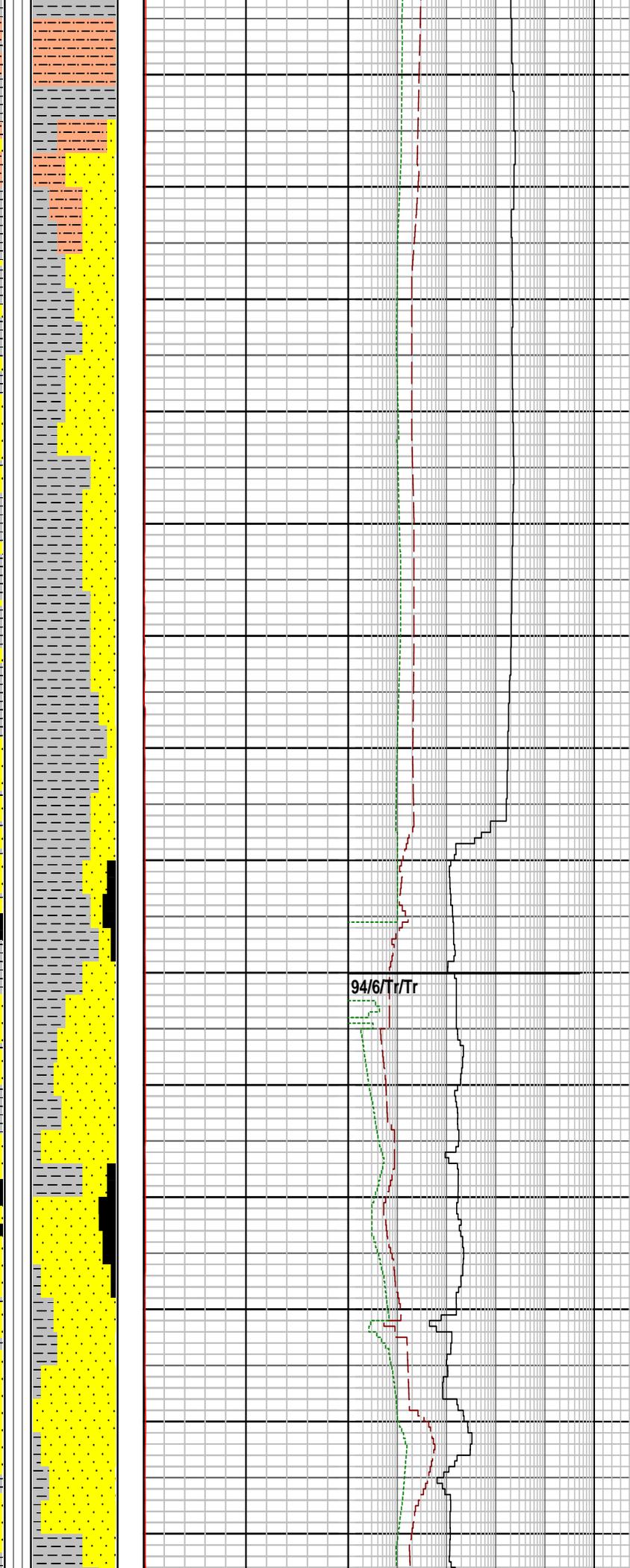
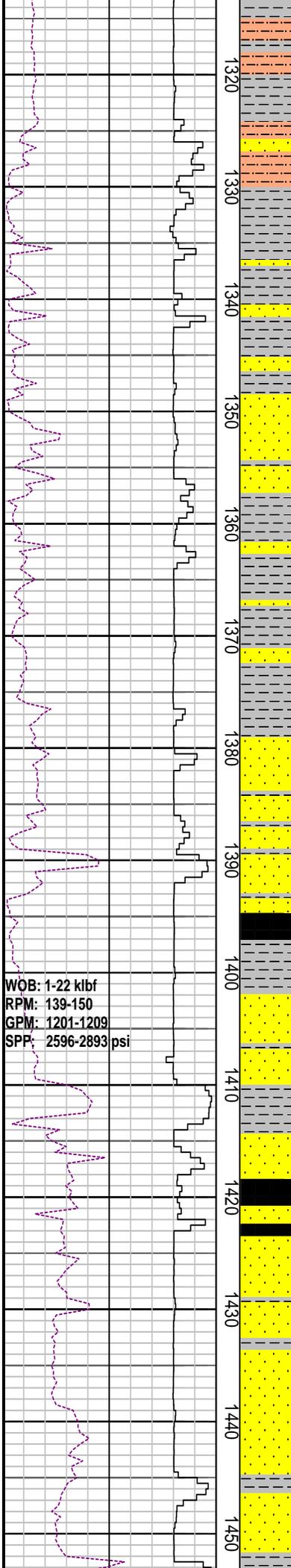
SILTSTONE: ol gy-m dk gy, v sli calc, r nod pyr, sft, plas I.P, sbbiky, grd to Clst

SANDSTONE: yel brn, trnsp-trnsl qtz gr, tr yel brn stn dom f, m-crs, v wl srt, sbang-wl rndd, n vis cmt, mnrg 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, mnrg-com pyr, sli sity, sft, plas-mnr sbbiky



SILTSTONE: m dk gy-dk gy, v sli calc, t 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/Tt/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

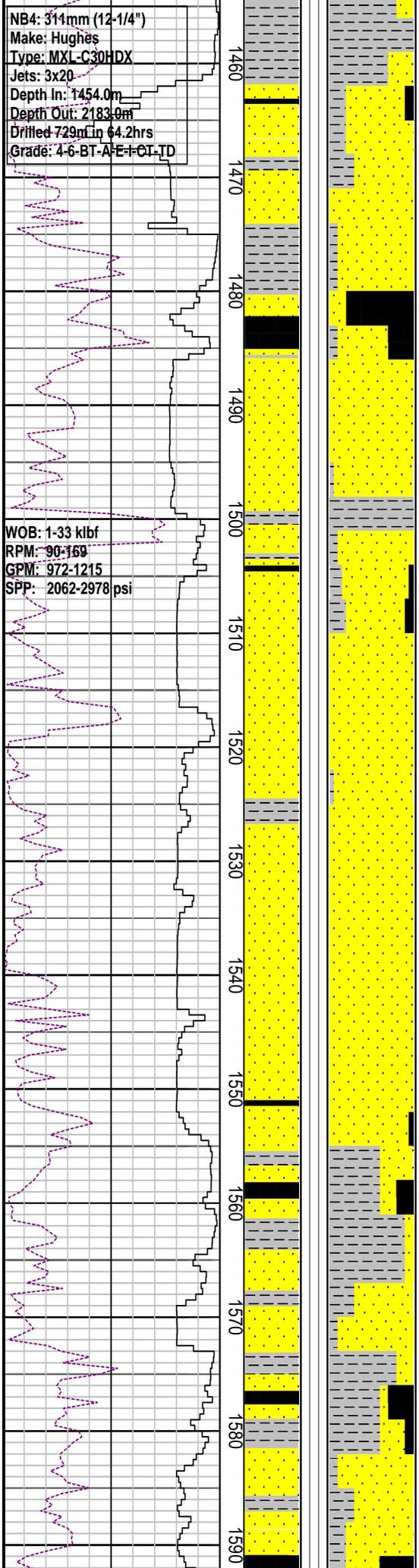
SANDSTONE: qtz, clr-trnsl, fros, f-crs, ang-sbrddd, p srt, wk calc cmt, com arg & slty mtrx, com smky qtz, tr nod pyr, gd por, n fluor

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, gd por, 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: 4-6-BT-A-E-I-CI-ID

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"

100/0

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 sbblk

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

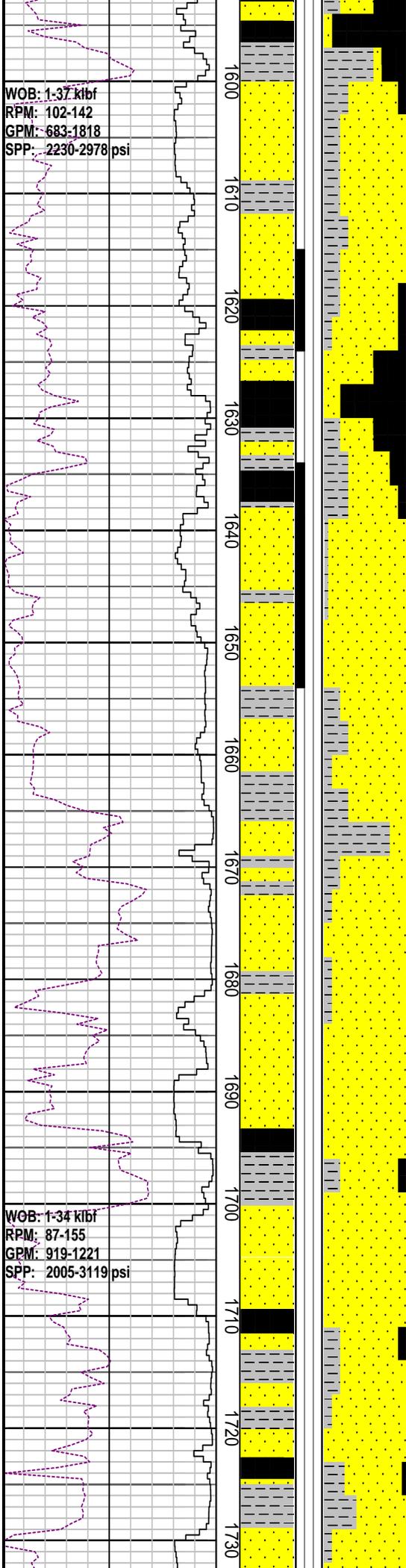
COAL: blk, sbbit, brit, hd, ang plnr, conch frac, tr qtz sd

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

1600
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730



100/Tr

86/9/4/Tr

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

SANDSTONE: qtz, clr-trnsl, fros, m-crs, ang-sbrnnd, v p srt, wk calc cmt, com arg & slty mtrx, tr qtz ovgr, 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 & 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: 1640.5, AZI: 28.44°
TVD: 1640.4, INC: 0.45°

SANDSTONE: qtz, clr-trnsl, fros, m-crs, ang-sbrnnd, v p srt, wk calc cmt, com arg & slty mtrx, tr qtz ovgr, 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

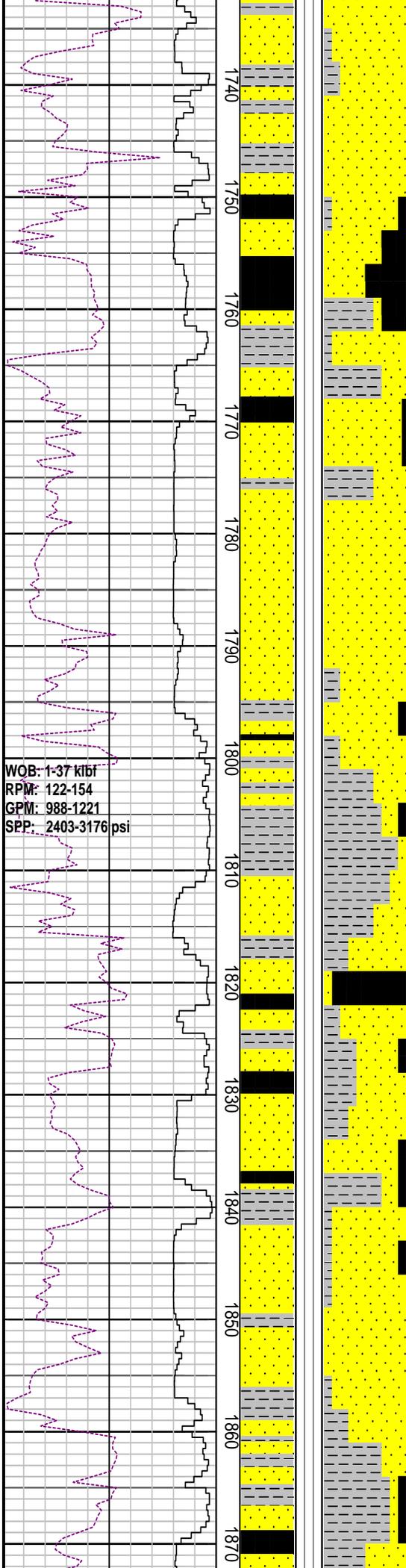
SANDSTONE: qtz, clr-trnsl, fros, m-crs, ang-sbrnnd, v p srt, wk calc cmt, occ Fe stn qtz, fr por

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

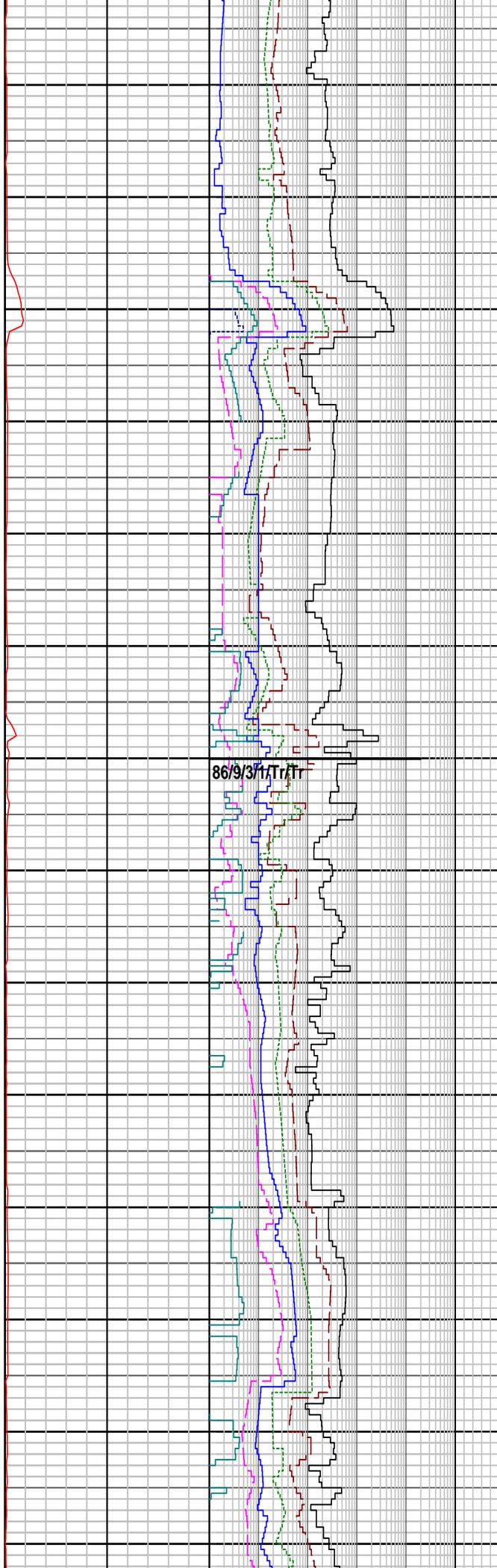
CLAYSTONE: dk blk-ol blk, sli calc I.P, occ sli slty, tr carb spks, sli micmic, sft-frm, mas-sbfis I.P

MD: 1729.6, AZI: 18.32°
TVD: 1729.5, INC: 0.55°



WOB: 1-37 kbf
 RPM: 122-154
 GPM: 988-1221
 SPP: 2403-3176 psi

1740
1750
1760
1770
1780
1790
1800
1810
1820
1830
1840
1850
1860
1870



86/9/3/1/T/T

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, mnr 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	
Cl : 38100	

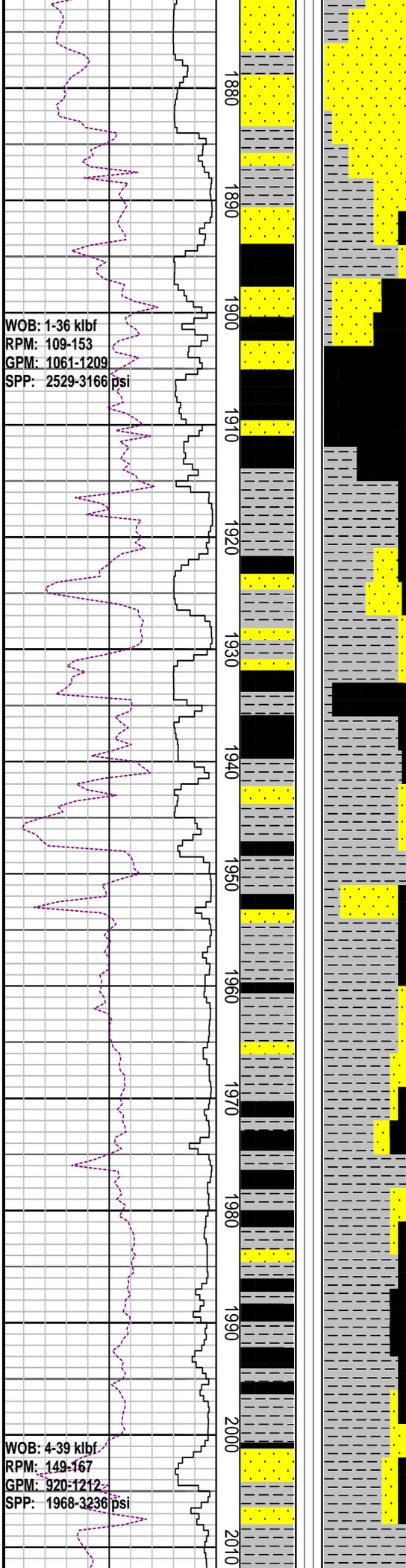
MD: 1818.5, AZI: 33.65°
 TVD: 1818.4, INCL: 0.58°

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, blk, tr sft, disp, amor

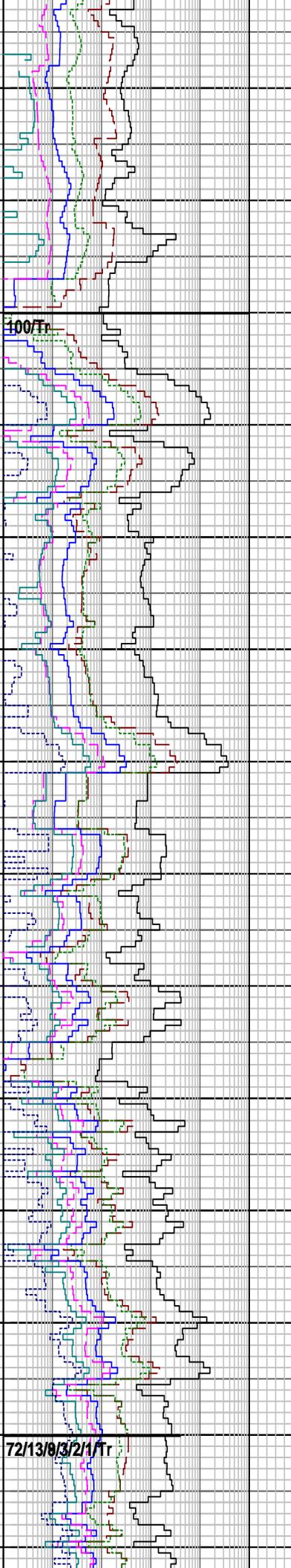
COAL: blk, sbbit, brit, hd, ang plnr, conch frac, tr qtz sd



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

Total Gas: 11.24 unit
C1: 1627 ppm
C2: 143 ppm
C3: 62 ppm
iC4 : 18 ppm
nC4: 6 ppm
iC5: 3 ppm
nC5: 1ppm

Total Gas: 25.34 unit
C1: 3714 ppm
C2: 342ppm
C3: 141ppm
iC4 : 32 ppm
nC4: 12ppm
iC5: 6ppm
nC5: 2ppm



SANDSTONE: qtz, clr-transl, fros, f-gran, sbang-sbrndd, v 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

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

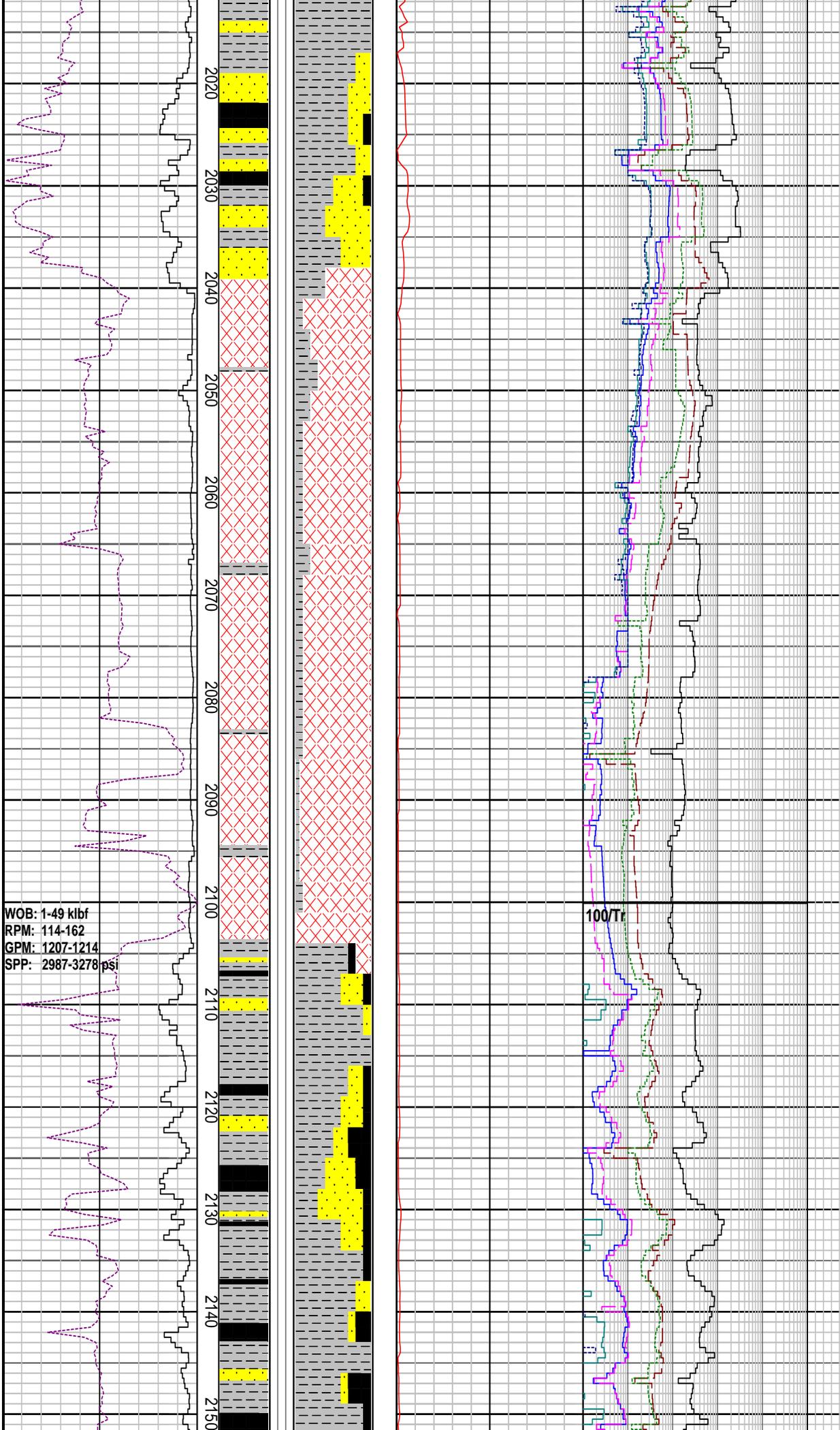
CLAYSTONE: bl gy-ol gy, v slty grds-arg Sltst I.P, aren I.P, sli calc, sli micmic, occ frm, mas-blky, sbfis I.P

SANDSTONE: lit aren, lt brn gy-yel brn, v f-f, sbang-sbrndd, wl srt, v slty I.P, grds-aren Sltst, 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 fluor



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, sbbbit, 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 & blk

CLAYSTONE: bl gy-ol gy yel brn I.P, v
 slty grds-arg Sltst 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 & blk

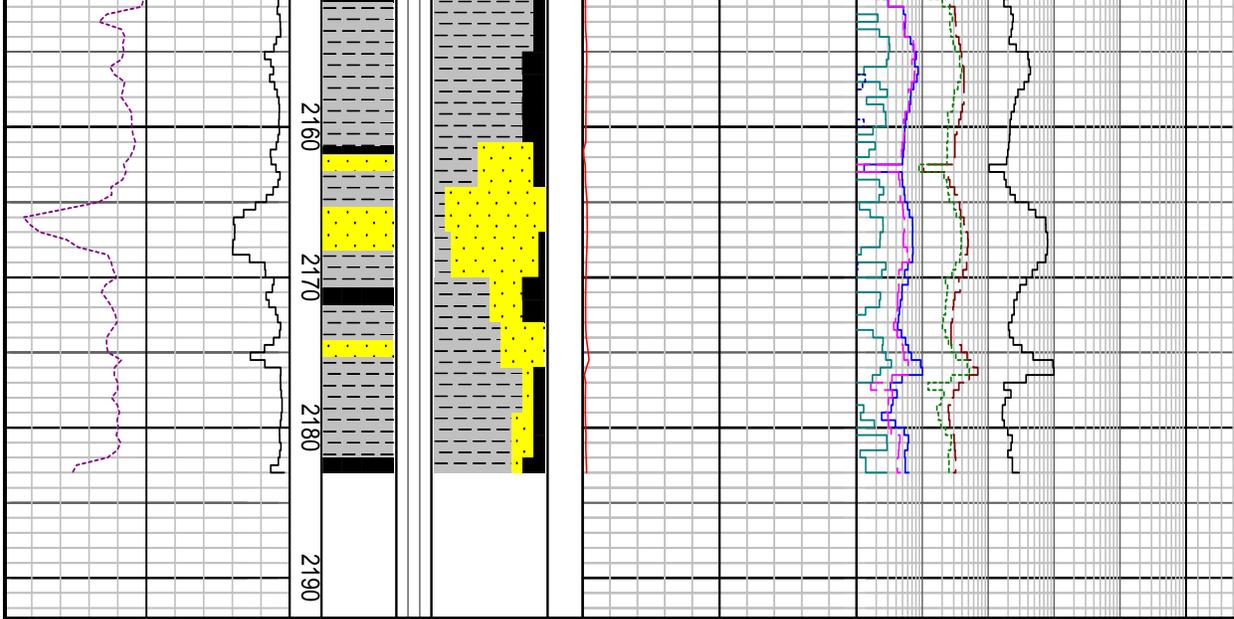
CLAYSTONE: bl gy-ol gy, v slty grds-arg
 Sltst I.P, aren I.P, sli calc, sli micmic, occ
 frm, carb

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°

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



conch frac, tr qtz sd

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

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

PeeJay-1 TD @ 2183.0m,
16:30 Hrs, 27-Nov-2008

FORMATION EVALUATION LOG

DRILLING PARAM		MID meters 1:500	Oil Show P F G	LITHOLOGY %	CORE	TOTAL GAS	CHROMATOGRAPH	Calcmetry	Lithology Description
ROP (m/hr)	WEIGHT ON BIT (klbf)					Total Gas (unit)	Methane ppm		
200	160	1:500				10 20 30 40 50	0.1 Methane ppm 10000		
						0.1 Ethane ppm 10000			
						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							