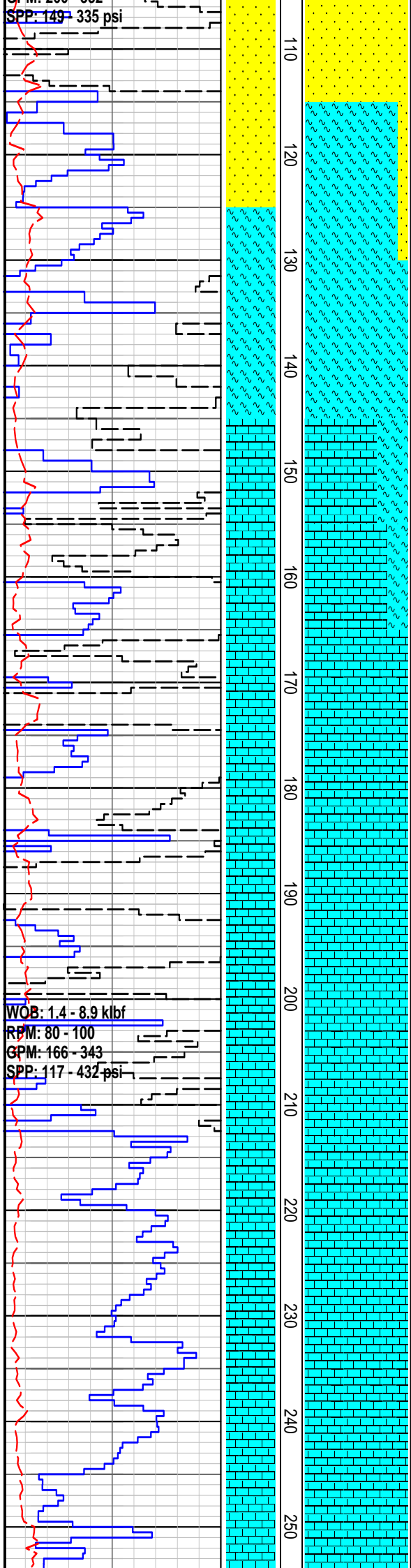




Created : 06/Nov/2009 6:57:23 AM



RATE OF PENETRATION										LITHOLOGY	LITHOLOGY	MD meters 1:500	CORE	OIL SHOWS	TOTAL GAS	CHROMATOGRAPH				REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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RB1 311mm (12-1/4") Reed EHP 41KPR Jets: 3x18 In: 16m Out: 302m Drilled: 286m in 5.7hrs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</



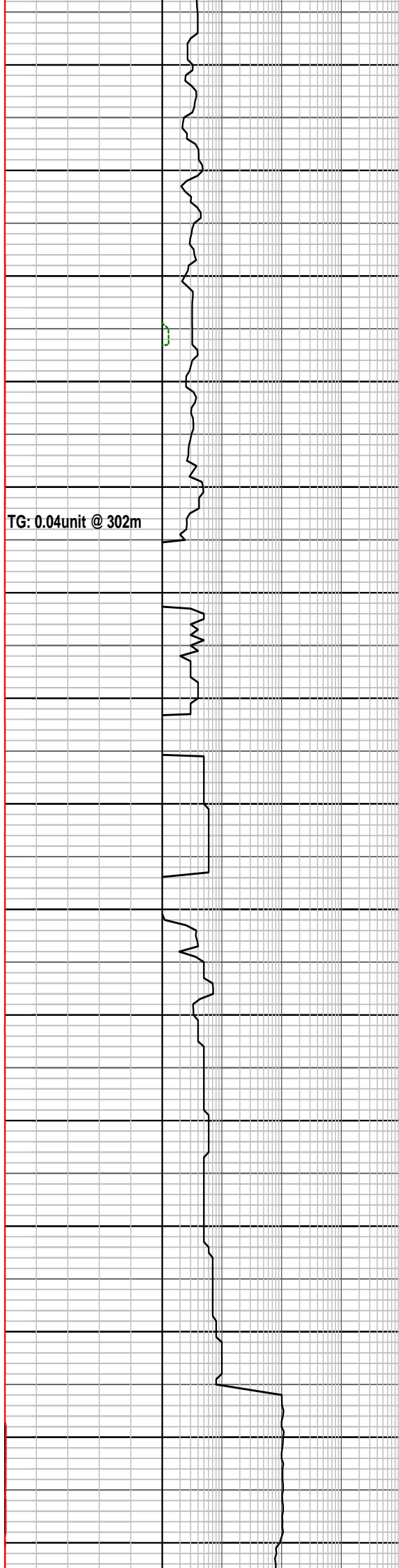
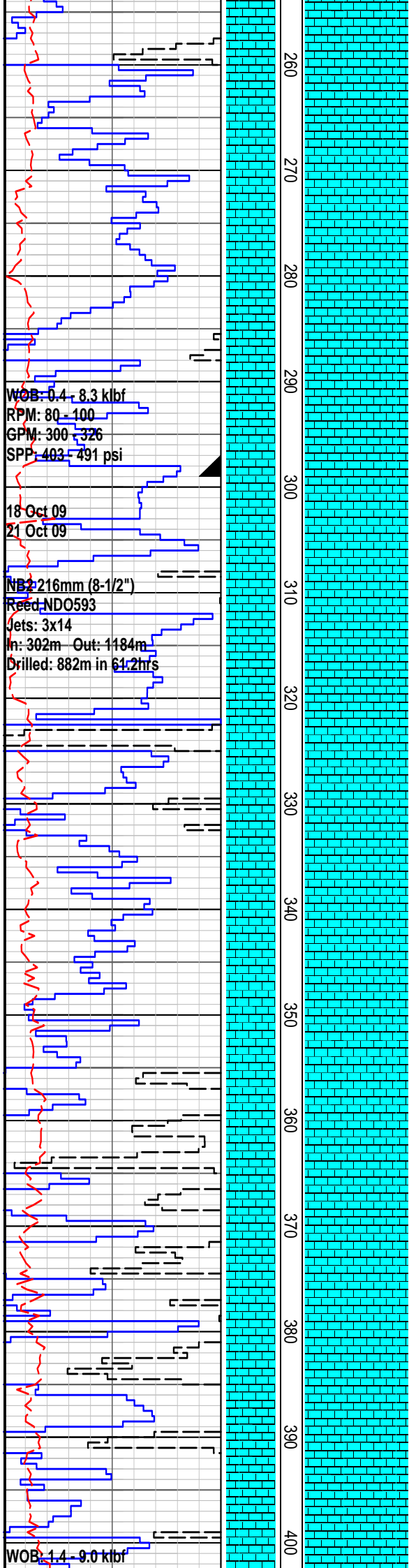
MARL: lt gry-m gry, m gn gry-m brn gry, com-abd foss frags incl bry, shell frags, forams, v sft, v disp, n fiss

CALCARENITE: lt gry-lt brn gry, f-m gr, wk calc cmt, abd foss frag incl bry, forams, shell frags, mod argill, tr-com v f-f qtz gr, rr m gn glauc, p vis por, n fluor

CALCARENITE: lt gry-lt brn gry, f-m gr, wk calc cmt, abd foss frags incl bry, forams, shell frags, mod argill, tr-com v f-f qtz gr, rr m gn glauc, p vis por, n fluor

MW 9.20 FV 48 PV 10 YP 23
Gels 5/7 F n/c Ck - Sol 6.1
pH 10.0 Cl 1100

CALCARENITE: lt gry-lt brn gry, f-m gr, wk calc cmt, abd foss frags incl bry, forams, shell frags, mod argill, tr-com v f-f qtz gr, rr m gn glauc, p vis por, n fluor



CALCARENITE: lt gry-lt brn gry, rr lt gn gry, f-m gr, wk calc cmt, abd foss frags incl bry, forams, shell frags, sli argill, rr v f-f qtz gr, rr m gn glauc, p vis por, n fluor

244mm (9-5/8") casing shoe at 299mMD

TG: 0.04unit @ 302m

Formation L.O.T. @ 305m
MW: 8.4ppg EMW: 12.8ppg

CALCARENITE: lt gry-lt brn gry, rr lt gn gry, f-m gr, wk calc cmt, abd bry, forams, shell frags, mod argill, rr-com v f-f qtz gr, tr gn glauc gn glauc, p vis por, n fluor

MW 9.50 FV 54 PV 16 YP 21
Gels 7/9 F n/c Ck - Sol 8.2
pH 10.0 CI 1100

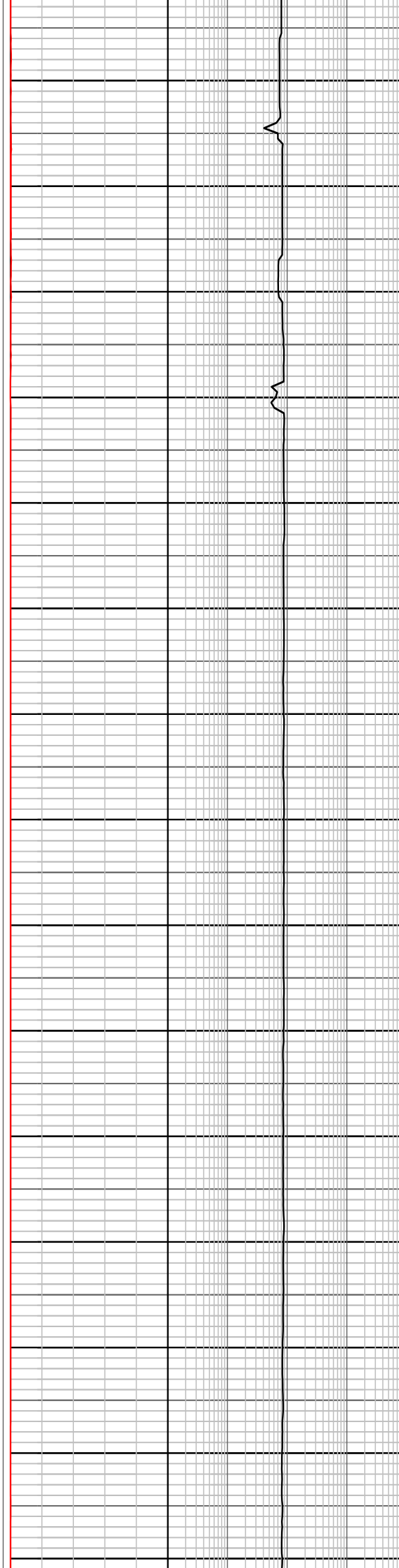
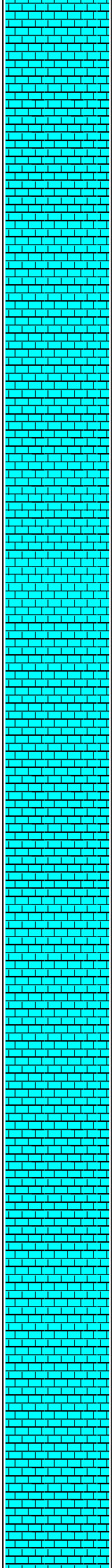
CALCARENITE: lt gry-lt brn gry, rr lt gn gry, f-m gr, wk calc cmt, abd bry, forams, shell frags, mod argill, rr v f-f qtz gr, tr gn glauc, p vis por, n fluor

MW 8.70 FV 43 PV 9 YP 18
Gels 2/4 F 11.9 Ck 1.0 Sol 1.5
pH 10.0 CI 15.0k

RPM: 80 - 120
GPM: 213 - 310
SPP: 165 - 598 psi

WOB: 1.4 - 12.0 klbf
RPM: 80 - 120
GPM: 203 - 362
SPP: 311 - 798 psi

410
420
430
440
450
460
470
480
490
500
510
520
530
540
550



CALCARENITE: off wh-lt m gry-lt brn
gry, f-m gr, wk-mod strong calc cmt,
abd bry, forams, shell frags, mod
argill, rr v f-f qtz gr, tr gn glauc, p vis
por, n fluor

CALCARENITE: off wh-lt m gry-lt brn
gry, f-m gr, wk-mod strong calc cmt,
abd bry, forams, shell frags, n-mod
argill, rr v f-f qtz gr, tr gn glauc, p vis
por, n fluor

Survey at 472m
N25degsE
2 degs

CALCARENITE: off wh-lt m gry-lt brn
gry, f-m gr, wk-mod strong calc cmt,
abd bry, forams, shell frags, mod
argill, rr v f-f qtz gr, tr gn glauc, p vis
por, n fluor

MW 8.90 FV 43 PV 11 YP 19
Gels 4/6 F 11.1 Ck 1.0 Sol 3.0
pH 9.5 Cl 17.0k

CALCARENITE: off wh-lt m gry-lt brn
gry, f-m gr, wk-mod strong calc cmt,
abd bry, forams, shell frags, mod
argill, rr v f-f qtz gr, tr gn glauc, p vis
por, n fluor

21 Oct 09
22 Oct 09

WOB: 1.4 - 17.8 klbf
RPM: 48 - 187
GPM: 200 - 367
SPP: 278 - 978 psi

560
570
580
590
600
610
620
630
640
650
660
670
680
690
7

CALCARENITE: off wh-lt m gry-lt brn
gry, f-m gr, wk-strong calc cmt, com
bry, tr echinoid spines, forams & shell
frags, n-mod argill, rr v f-f qtz gr,
tr-com gn glauc, fri, v p vis

MARL: m gry-m brn, v calc grd to
CLCLT, tr foss frags, sft, stky, n fiss

CALCILUTITE: lt gry-m gry-m lt gry,
sli-v argill, grd i/p to MRL, oft v f
calcerenitic, grd CLCAR, tr foss frags,
sft, stky, n fiss

MW 9.0 FV 42 PV 10 YP 18
Gels 4/6 F 11.1 Ck 1.0 Sol 3.5
pH 9.5 Cl 19.0k

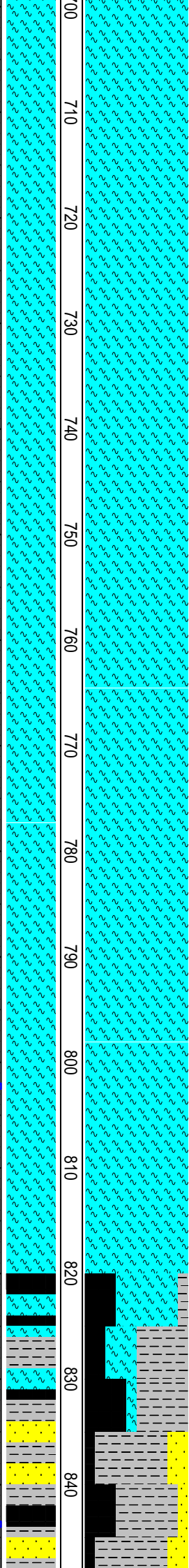
MARL: v lt-m gry-gn gry-brn gry, v
calc grd i/p to off wh argil calc CLCLT
tr foss frags, sft, stky, n fiss

Survey at 687m
N86degSE
2 degs

WOB: 5.0 - 14.0 klbf
RPM: 80 - 128
GPM: 187 - 379
SPP: 278 - 978 psi

22 Oct 09
23 Oct 09

WOB: 3.0 - 15.0 klbf
RPM: 50 - 116
GPM: 104 - 320
SPP: 420 - 940 psi



Run Carbide at 699m
MW: 9.0ppg Vis: 41
Average hole size: 8.90inch

MARL: v lt-m gry-gn gry-brn gry, occ
lt-m brn gry, mod-v calc, tr foss frags,
sft, stky, n fiss

MW 9.05 FV 42 PV 9 YP 21
Gels 3/5 F 10.6 Ck 1.0 Sol 3.9
pH 9.5 Cl 19.0k

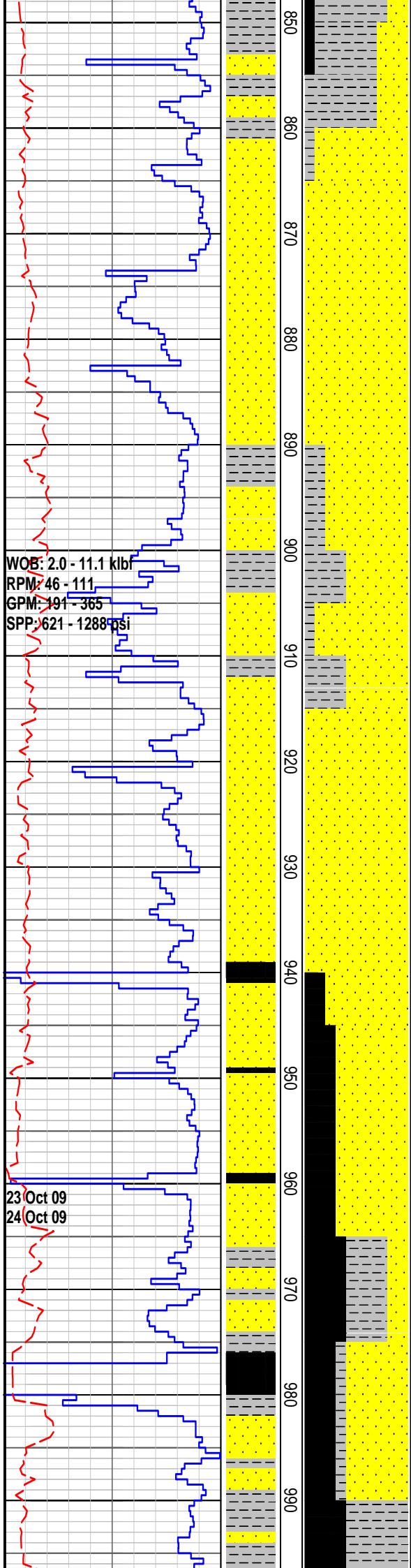
MARL: lt-m gn gry-lt m gry, mod-v
calc, tr foss frags, sft, stky, n fiss

MARL: lt-m gn gry-lt m gry, mod-v
calc, tr foss frags, sft, tr glauc, stky, n
fiss

COAL: m brn-blk, irreg-blky frac, ea
lstr, sli-dom v argil, frm-mod hd

MW 9.5 FV 43 PV 10 YP 20
Gels 3/5 F 10.4 Ck 1.0 Sol 5.0
pH 9.0 Cl 21.0k

SANDSTONE: lt-m brn, vf-m gr, dom
vf, ang-sbrnd, p-mod srtd, v wk sil
cmt, abd lt brn argil & slt mtrx,
quartzose w/clr-opq qtz gr, tr crs clr
mic flks, tr blk c detr, rr pyr, fri, v p inf
por, n fluor



CLAYSTONE: lt-dk brn, dom m brn, sl
silty and f aren i/p, v sli-mod carb, tr
blk coal flk, tr amber, sft, v disp, n fiss

SANDSTONE: lt brn gry, vf-v crs, dom
m-crs, sbang-rnd, p-mod srted, wk sil
cmt, tr-com lt brn argill & slt mtrx,
quartzose w/clr-op qtz gr w/mnr brn
stn, tr gr gry & blk cht lit, tr blk c detr,
fri, gd-v gd inf por, n fluor

CLAYSTONE: lt-dk brn, dom m brn, sl
silty and f aren i/p, v sli-mod carb, tr
blk coal flk, tr amb, sft, v disp, n fiss

Survey at 917m
N50degSE
3 degs

SANDSTONE: lt brn gry, vf-v crs, dom
m-crs, sbang-rnd, p srted, wk sil cmt,
tr-com lt brn argill & slt mtrx,
quartzose w/clr-op qtz gr w/mnr brn
stn, tr gr gry & blk cht lit, tr blk c detr,
fri, gd-v gd inf por, n fluor

MW 9.7 FV 41 PV 10 YP 19
Gels 3/5 F 9.8 Ck 1.0 Sol 6.9
pH 9.0 Cl 21.0k

CLAYSTONE: m-dk brn, sli silty & f
aren i/p, mod-v carb, tr blk c flks, sft,
v disp, n fiss

COAL: m brn-blk, irr-blky frac, ea lstr,
sli-dom v argill, tr amb, frm-mod hd

CLAYSTONE: m-dk brn, sli silty & f

WOB: 0.5 - 11.9 klbf
RPM: 14 - 141
GPM: 150 - 355
SPP: 364 - 1233 psi

WOB: 0.5 - 9.1 klbf
RPM: 31 - 121
GPM: 215 - 332
SPP: 287 - 1234 psi

24 Oct 09
25 Oct 09

1000
1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
1140

CLAYSTONE: lt-brn blk, sil slty & /
aren, mod-v carb, tr blk c flks, sft, v
disp, n fiss

COAL: m brn-blk, irr-blky frac, ea lstr,
sli-dom v argill, tr amb, frm-mod hd

COAL: m brn-blk, irr-blky frac, ea lstr,
sli-dom v argill, tr amb, frm-mod hd

Survey at 1079m
N88degsE
3 degs

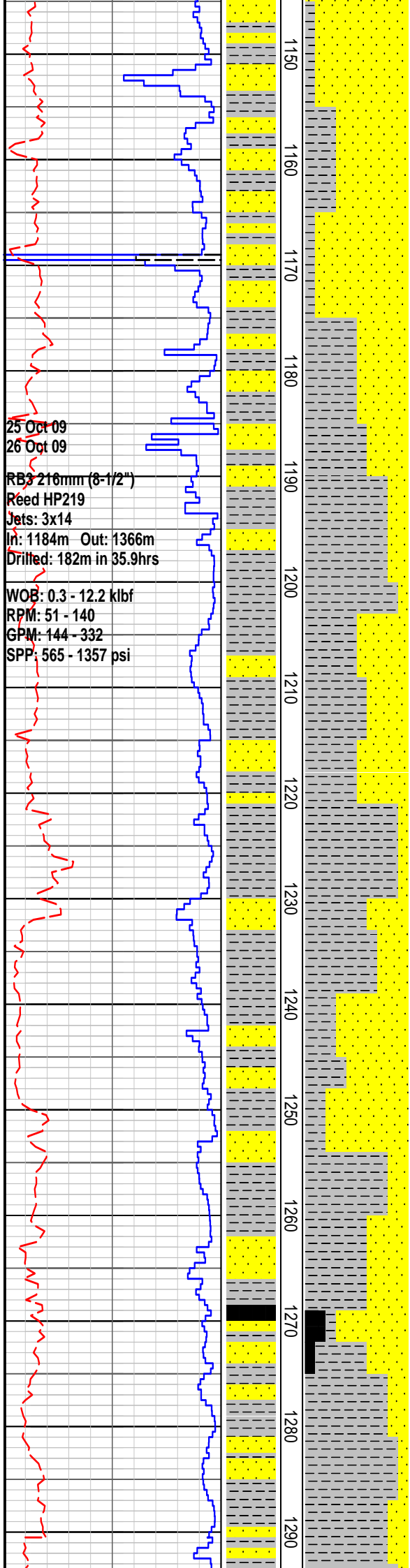
SANDSTONE: lt brn gry, vf-pbl, dom
m-crs, sbang-rnd, v p srtd, wk sil cmt,
com lt brn argill & slt mtrx, qtz
w/cir-op quartzose gr w/mnr or brn
stn, tr gn gry & blk cht lith, tr-com blk
c detr, fri, g inf por, n fluor

COAL: m brn-dom blk, irr-blky frac,
ea-sbvit lstr, sli-v argill, tr amb, mod
hd. The Coal has no natural fluor but
gives a wk dull lt yel rn crsh cut fluor
The amb has mod bri sol lt-m yel
natural fluor and gives a wk v slo
strmg lt yell cut fluor

MW 9.75 FV 42 PV 9 YP 20
Gels 3/6 F 9.4 Ck 1.0 Sol 5.9
pH 8.5 CI 18.0k

MW 10.1 FV 47 PV 16 YP 23
Gels 4/6 F 8.0 Ck 1.0 Sol 8.8
pH 8.5 CI 20.0k

SANDSTONE: v lt gry-lt brn gy, v f-gt,
dom m-crs, ang-sbrnd, v p srtd, wk sil
cmt, com wh-lt brn argill & slt mtrx,
quartzose w/cir-op qtz gr, tr gn gry
& blk cht lith, tr-com blk c detr, fri, gd
inf por, no fluor



TG: 0.82unit @ 1184m

CLAYSTONE: wh-m brn, v slt & v aren
i/p, kao i/p, sli-mod carb, tr blk c flks,
tr micrmic, frm, v disp & washing
f/spl, n fiss

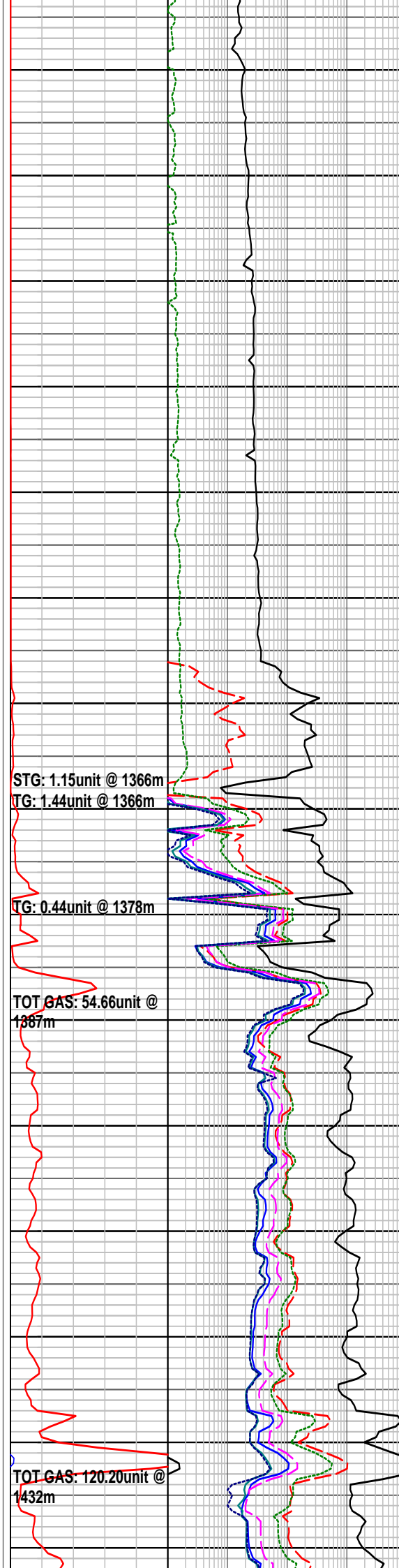
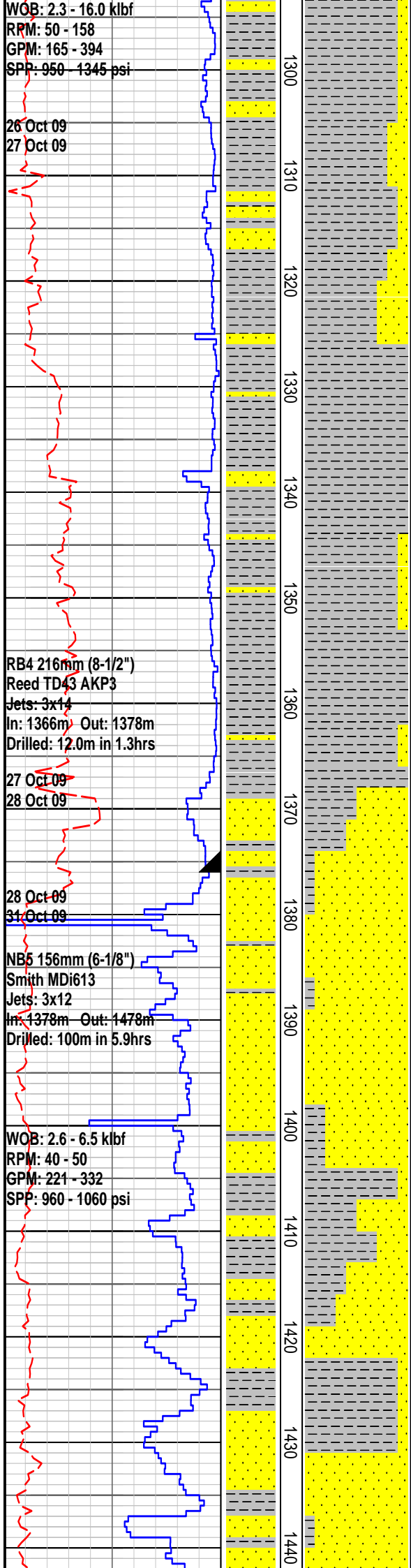
MW 10.1 FV 48 PV 16 YP 24
Gels 4/6 F 8.0 Ck 1.0 Sol 8.3
pH 8.5 CI 20.0k

SANDSTONE: v lt gry-lt brn gy, v f-v
crs, dom m-crs, ang-sbrnd, v p srtd,
mod sil cmt, com-abd wh-lt brn argill
& slt mtrx, quartzose w/clr-op qtz gr,
rr gn & blk cht lith, tr blk c detr,
fri-mod hd, fr-gd inf por, no fluor

CLAYSTONE: off wh-m brn, v slt & v
aren, v kao i/p, sli carb, tr blk c flks, tr
micrmic, frm-mod hd, v disp, n fiss

MW 10.3 FV 47 PV 15 YP 29
Gels 7/9 F 7.8 Ck 2.0 Sol 9.2
pH 8.5 CI 17.0k

COAL: v dk brn-dom blk,
blk-y-sbconch frac, ea-sli sbvit lstr,
sli-m argill, mod hd



CLAYSTONE: off wh-m brn, v slt & v aren, v kao i/p, sli carb, tr blk c flks, tr micrmic, rr pyr, frm-mod hd, v disp, n fiss

MW 10.35 FV 54 PV 20 YP 34
Gels 7/10 F 7.0 Ck 2.0 Sol 10.0
pH 8.5 CI 18.0k

SANDSTONE: v lt gry-lt brn gy, v f-gt, dom m, ang-sbrnd, v p srtd, mod sil cmt, abd off wh-lt brn argill & slt mtrx, quartzose w/clr-op qtz gr, rr gn & blk cht lith, tr blk c detr, tr pyr, mod hd, fr inf por, no fluor

CLAYSTONE: off wh-m brn, dom lt brn, v slt & v f aren, v kao i/p, sli carb, tr blk c flks, tr micrmic, tr pyr, mod hd, v disp, sli sbfiss

Survey at 1354m
N60degE
1.5 degs

CLAYSTONE: off wh-m gn gry-m brn gry, mod slty, tr vf off wh alt fspr gr, tr brn-blk carb spks, tr micrmic, sft, v disp, sli sbfiss

Run#1 HALS - BHC - PEX
1361 - 299m
GR to Surface

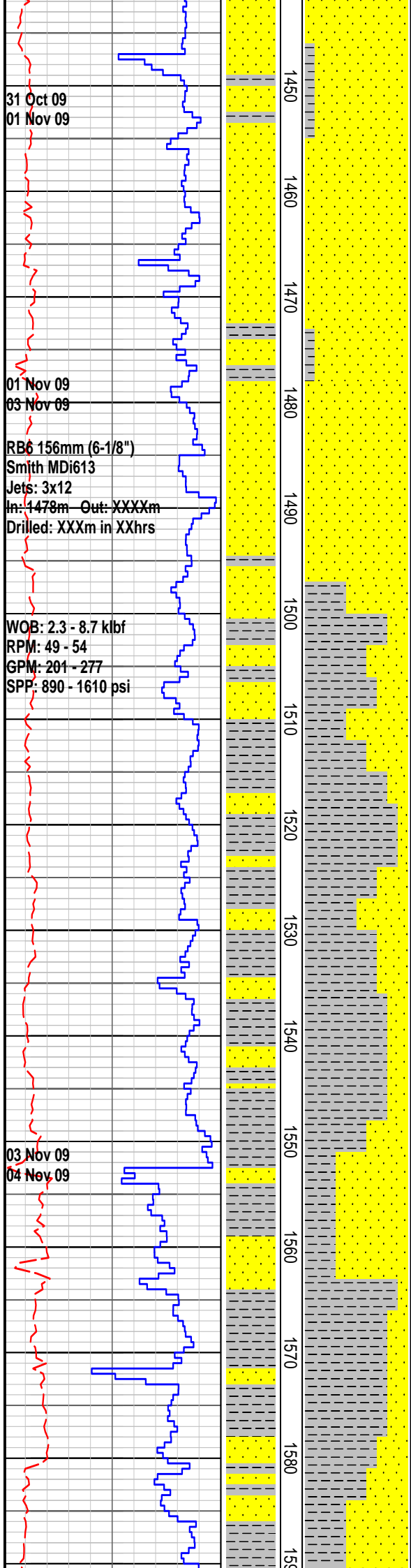
178mm (7") casing shoe
at 1376mMD

SANDSTONE: lt gry, vf-f, occ m, dom f, sbang-sbrnd, mod srtd, wk sil cmt, abd off wh argill & mtrx, abd alt fspr gr, com rd brn gry & gn, lith, tr qtz gr, tr c brn mic flk, tr v f blk carb detr, tr pyr, fri, v p vis por, no fluor

Formation L.O.T. @ 1382m
MW: 9.8ppg EMW: 13.1ppg

CLAYSTONE: off wh-m gn gry-m gry, occ m brn gry, mod slty, tr v f off wh alt fspr gr, tr brn-blk carb spks, tr micrmic, frm, v disp, sli sbfiss

MW 10.0 FV 42 PV 10 YP 22
Gels 4/7 F N/A Ck 35.0 Sol 9.5
pH 9.5 CI 16.8k



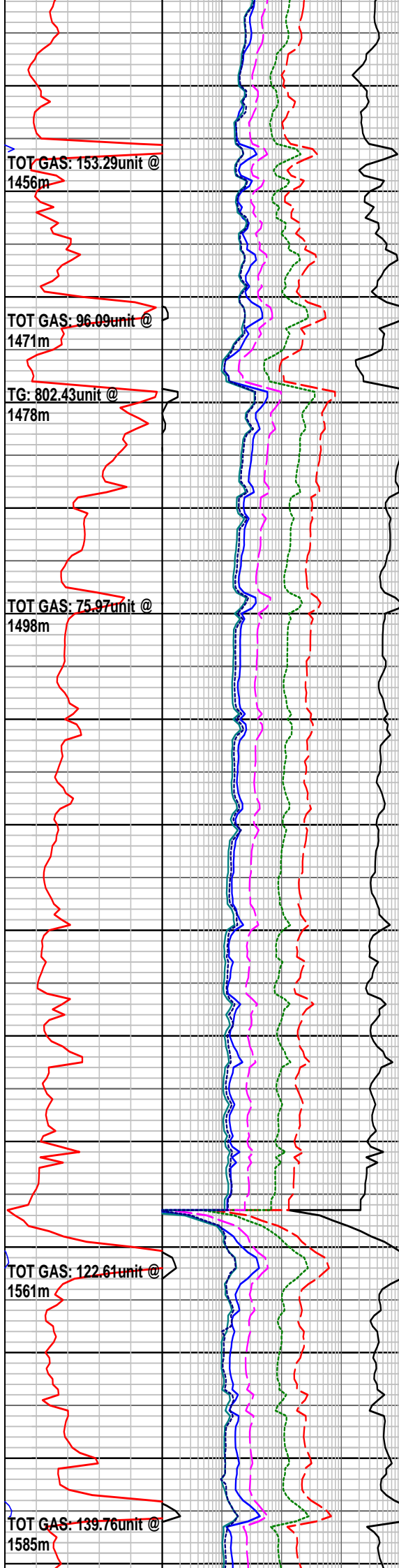
31 Oct 09
01 Nov 09

01 Nov 09
03 Nov 09

RB6 156mm (6-1/8")
Smith MDi613
Jets: 3x12
In: 1478m Out: XXXXm
Drilled: XXXm in XXhrs

WOB: 2.3 - 8.7 klbf
RPM: 49 - 54
GPM: 201 - 277
SPP: 890 - 1610 psi

03 Nov 09
04 Nov 09



TOT GAS: 153.29unit @
1456m

TOT GAS: 96.09unit @
1471m

TG: 802.43unit @
1478m

TOT GAS: 75.97unit @
1498m

TOT GAS: 122.61unit @
1561m

TOT GAS: 139.76unit @
1585m

SANDSTONE: lt gry-lt gn gry, v f-rr m, dom f, dom f, sbang-sbrnd, mod srtd, mod sil cmt, wk calc cmt i/p, abd off wh argill mtrx, abd alt fspr gr & rd brn gry & gn lith, 10% qtz gr, tr crs brn mic flks, tr v f blk carb detr, tr pyr, fri, v p vis por, no fluor

DST #1 1383m - 1478m
IF 15 min
ISI 90 min
FF 180 min
FSI 540 min
GTS 5 min into FF @ RTSM
Rec 140m gas cut rathole mud

SANDSTONE: lt gn gry, v f-occ m, dom f, sbang-sbrnd, mod srtd, mod sil cmt, wk calc cmt i/p, abd off wh argill mtrx, abd alt fspr gr & rd brn gry & gn lith, 10% qtz gr, tr crs brn mic flks, tr v f blk carb detr, rr pyr, fria, v p vis por, no fluor

CLAYSTONE: lt-m brn gry-m gry-occ m gn gry, v slty i/p grdg to argill SLTST, v f aren i/p, tr v f off wh alt fspr gr, tr-com brn-blk carb spks, tr micrmic, frm, v disp, sli sbfiss

MW 9.8 FV 46 PV 15 YP 22
Gels 5/7 F N/A Ck 28 Sol 7.8
pH 9.5 Cl 18.0k

SANDSTONE: lt gn gry, v f-f, dom f, sbang-sbrnd, mod srtd, mod sil cmt, wk calc cmt i/p, abd off wh argill mtrx, abd alt fspr gr & rd brn gry & gn lith, com qtz gr, tr crs brn mic flks, tr v f blk carb detr, tr calc lined frac, fria, no vis por, no fluor

MW 9.7 FV 39 PV 10 YP 17
Gels 3/4 F 9.0 Ck 1.0 Sol 7.3
pH 9.5 Cl 12.0k

CLAYSTONE: lt-m gn gry-m gry-m brn gry, mod-v slty grdg to argill SLTST i/p, v f aren i/p, tr v f off wh alt fspr gr

WOB: 0.9 - 12.1 klbf
RPM: 25 - 60
GPM: 195 - 252
SPP: 870 - 1451 psi

WOB: 1.2 - 15.6 klbf
RPM: 14 - 56
GPM: 189 - 248
SPP: 1010 - 1540 psi

1600
1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1

tr-com brn-blk carb spks & c detr, tr micrmic, frm, v disp, sli sbfiss

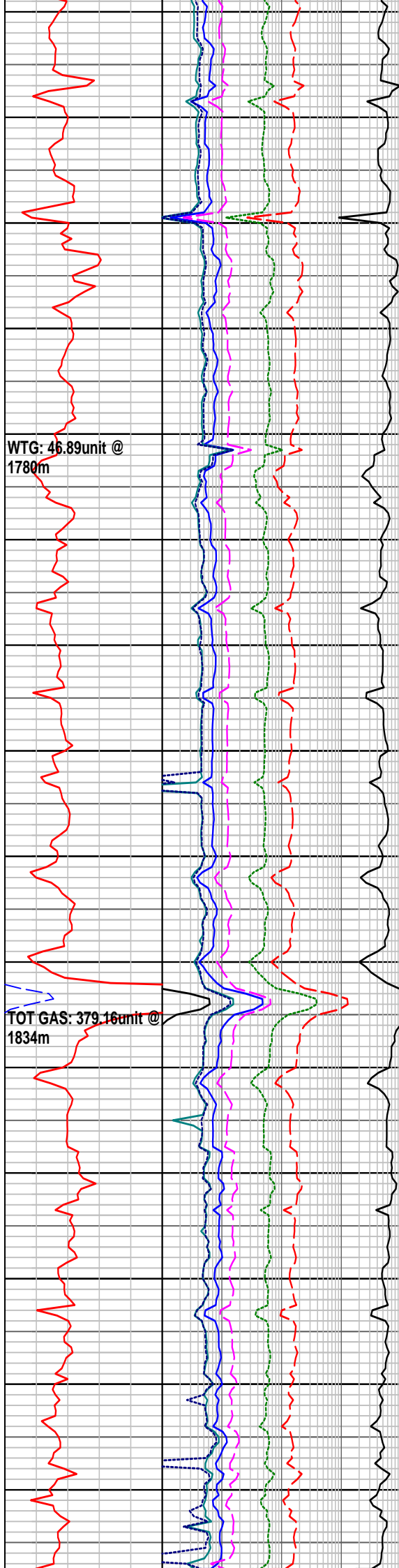
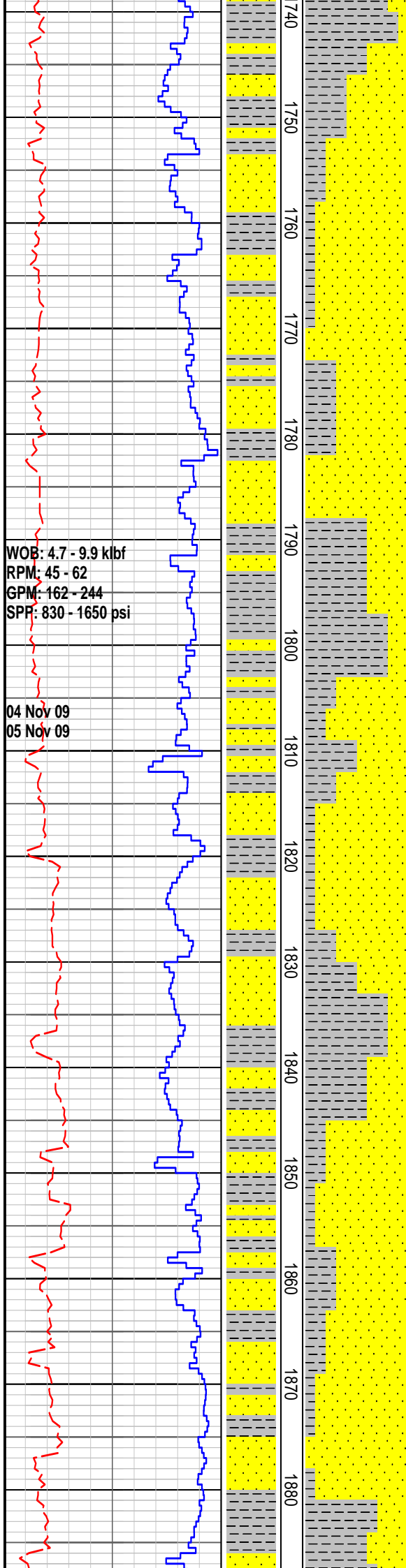
SANDSTONE: lt gn gry, v f-m, dom m, sbang-sbrnd, mod srtd, mod sil cmt, wk calc cmt i/p, abd off wh argill mtrx, abd alt fspr gr & rd brn gry & gn lith, com qtz gr, tr crs brn mic flks, tr blk c detr, fria, no vis por, no fluor

SANDSTONE: lt gn gry, v f-m, dom f, sbang-sbrnd, mod srtd, mod sil cmt, mod-strong calc cmt i/p, abd off wh argill mtrx, abd alt fspr gr & rd brn gry & gn lith, com qtz gr, tr crs brn mic flks, tr blk c detr, rr calc infilled frac, fria, p vis por, no fluor

MW 9.75 FV 42 PV 13 YP 22
Gels 3/5 F 7.5 Ck 1.0 Sol 7.6
pH 9.5 Cl 10.5k

CLAYSTONE: lt-m gn gry-m gry-m brn gry, mod-v slty grdng to argill SLTST i/p, v f aren i/p, tr v f off wh alt fspr gr, tr-com brn-blk carb spks & c detr, tr micrmic, tr calc infilled frac, frm-mod hd, v disp, sli sbfiss

SANDSTONE: lt gn gry, v f-f, dom f, sbang-sbrnd, mod srtd, mod sil cmt, mod-strong calc cmt i/p, abd off wh argill mtrx, abd alt fspr gr & rd brn gry & gn lith, com qtz gr, tr crs brn mic flks, tr blk c detr, rr calc infilled frac, fria, p vis por, no fluor



CLAYSTONE: lt-m gn gry-m gry-m brn gry, mod-v slty grd to argill SLTST i/p, v f aren i/p, tr v f off wh alt fspr gr, tr-com brn-blk carb spks & c detr, tr micrmic, rr calc infilled frac, frm-mod hd, v disp, sli sbfiss

Survey at 1768m
S5.0degSE
3.5 degs

CLAYSTONE: lt-m gn gry-m gry-m brn gry, mod-v slty grd to argill SLTST i/p, v f aren i/p, tr v f off wh alt fspr gr, tr brn-blk carb spks & c detr, tr micrmic, tr calc infilled frac, frm-mod hd, v disp, sbfiss

MW 9.9 FV 44 PV 14 YP 21
Gels 2/4 F 8.0 Ck 1.0 Sol 8.7
pH 9.5 Cl 10.0k

SANDSTONE: lt gn gry-m gn, v f-m, dom f, sbang-sbrnd, mod srtd, mod si cmt, mod calc cmt i/p, com-abd off wh-m gn argill mtrx, abd alt fspr gr & rd brn gry & gn lith, com qtz gr, tr crs brn mic flks, tr blk c detr, tr calc infilled frac, fria, tr vis por, no fluor

SANDSTONE: off wh-lt gn gry-lt pk, v f-f, dom f, sbang-sbrnd, mod srtd, strong sil cmt, mod calc cmt i/p, abd off wh-m gn argill mtrx, abd wh & pk fspr gr, com gn rd brn gry & blk lith, tr qtz gr, tr crs gn brn mic flks, tr blk c detr, tr calc infilled frac, hd, no vis por, no fluor

WOB: 3.2 - 15.3 klbf
RPM: 42 - 79
GPM: 157 - 241
SPP: 858 - 1648 psi

WOB: 4.5 - 9.8 klbf
RPM: 54 - 79
GPM: 153 - 291
SPP: 858 - 1648 psi

05 Nov 09
06 Nov 09

1890
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
2010
2020
2030

TOT GAS: 94.83unit @
1943m

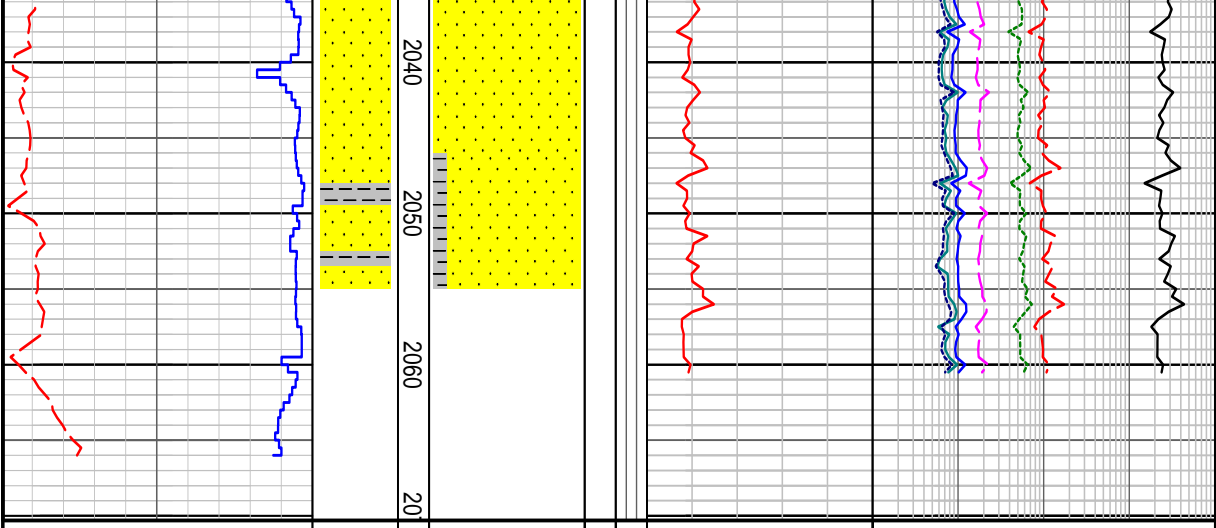
TOT GAS: 119.44unit @
1971m

CLAYSTONE: lt-m gn gry, occ m gn
gry-m brn gry, mod-v slty grdg to
argill SLTST i/p, v f aren i/p, tr-com v f
off wh alt fspr gr, tr brn-blk carb spks
& c detr i/p, tr-com micrmic, rr calc
infilled frac, mod hd, v disp, sbfiss

SANDSTONE: off wh-lt gn gry, v f-m,
dom f, sbang-sbrnd, mod srtd, strong
sil cmt, mod calc cmt i/p, abd off
wh-occ pk argill mtrx, abd wh &
occ pk fspr gr, com gn rd brn gry &
blk lith, tr qtz gr, tr crs gn brn mic
flks, tr blk c detr, tr calc & rd min vn,
hd, no vis intgran por, no fluor

CLAYSTONE: lt-m gry-occ m brn gry,
mod-v slty, v f aren i/p, tr-com v f off
wh alt fspr gr, tr -com brn-blk carb
spks & c detr, tr-com micrmic,
tr calc & rd min infilled frac, com
slick, mod hd, v disp, sbfiss

SANDSTONE: off wh-lt gn gry-lt pk
gry, v f-occ m, dom f, sbang-sbrnd,
mod srtd, strong sil cmt, strong calc



cmt i/p, abd off wh & tr pk argill mtrx,
abd wh & occ pk fspr gr, com gn rd
brn gry & blk lith, 10% qtz gr, tr gn brn
mic flks, rr blk c detr, tr calc & rd min
vn, hd, no vis intgran por, no fluor

FORMATION EVALUATION LOG

RATE OF PENETRATION										LITHOLOGY	INTERPRETED LITHOLOGY	MD meters 1:500	LITHOLOGY	CORE	OIL SHOWS	TOTAL GAS	CHROMATOGRAPH				REMARKS
ROP (0-100m/hr)																	1	Methane ppm		10000	
100	90	80	70	60	50	40	30	20	10								1	Ethane ppm		10000	
Backup ROP (100-200m/hr)																	1	Propane ppm		10000	
200	190	180	170	160	150	140	130	120	110								1	iso-Butane ppm		10000	
WOB (klb)																	1	n-Butane ppm		10000	
5	10	15	20	25	30	35	40	45	50								1	iso-Pentane ppm		10000	
																	1	n-Pentane ppm		10000	
										10	100	1000	10000								