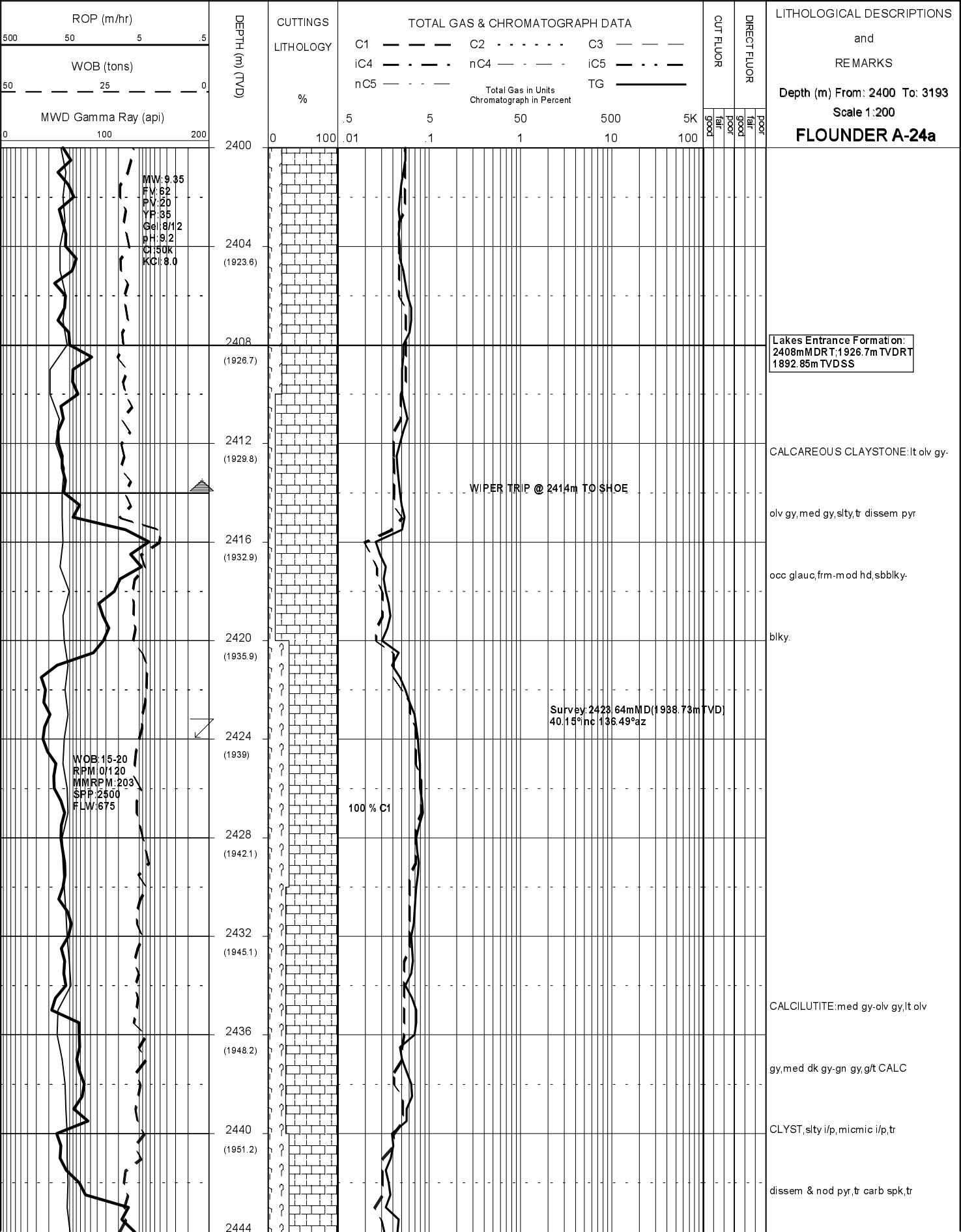
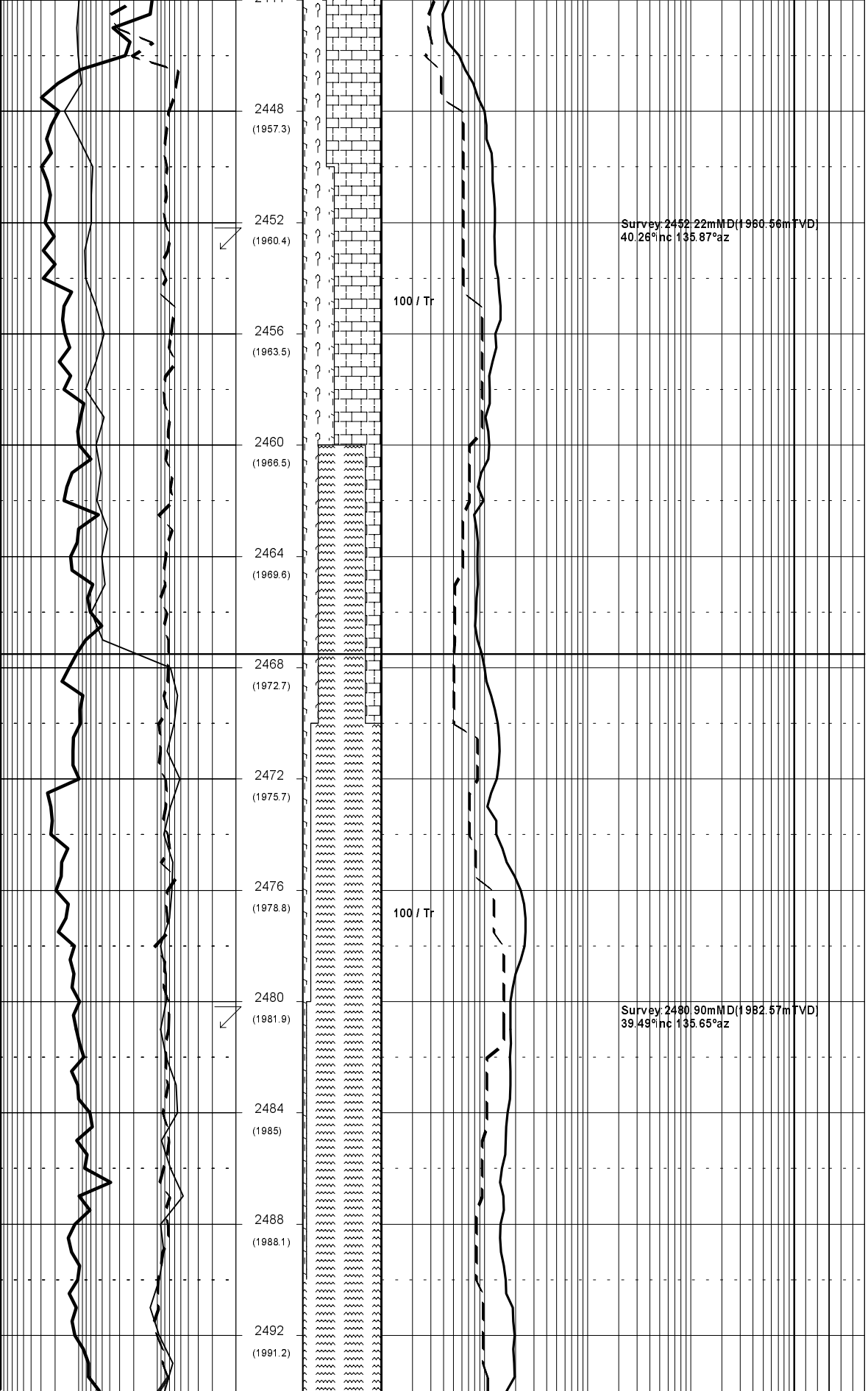

ROP (m/hr)
500 50 5 .5
WOB (tons)
50 25 0
MWD Gamma Ray (api)
0 100 200
DEPTH (m) (TVD)
CUTTINGS
LITHOLOGY
%
0 100
TOTAL GAS & CHROMATOGRAPH DATA
C1
C2
C3
iC4
nC4
iC5
nC5
TG
Total Gas in Units
Chromatograph in Percent
.5 5 50 500 5K
.01 .1 1 10 100
CUT FLUOR
good fair poor
DIRECT FLUOR
good fair poor
LITHOLOGICAL DESCRIPTIONS
and
REMARKS
Depth (m) From: 2400 To: 3193
Scale 1:200
FLOUNDER A-24a
2400
2404
(1923.6)
2408
(1926.7)
2412
(1929.8)
2416
(1932.9)
2420
(1935.9)
2424
(1939)
2428
(1942.1)
2432
(1945.1)
2436
(1948.2)
2440
(1951.2)
2444
MW:9.35
FV:62
PV:20
YP:35
Gel:8/12
pH:9.2
Cl:50k
KCl:8.0
WOB:15-20
RPM:0/120
MMRPM:203
SPP:2500
FLW:675
WIPER TRIP @ 2414m TO SHOE
Survey:2423.64mMD(1938.73mTVD)
40.15°inc 136.49°az
100 % C1
Lakes Entrance Formation:
2408mMDRT;1926.7mTVDRT
1892.85mTVDSS
CALCAREOUS CLAYSTONE:lt olv gy-
olv gy,med gy,slty,tr dissem pyr
occ glauc,frm-mod hd,sbblky-
blky.
CALCILUTITE:med gy-olv gy,lt olv
gy,med dk gy-gn gy,g/t CALC
CLYST,slty i/p,micmic i/p,tr
dissem & nod pyr,tr carb spk,tr



foss frag,frm-mod hd,sbblky-

blky.

SILTSTONE:dk yel bn-gy bn,arg,

g/t CLYST,com micmic,sft-frm,

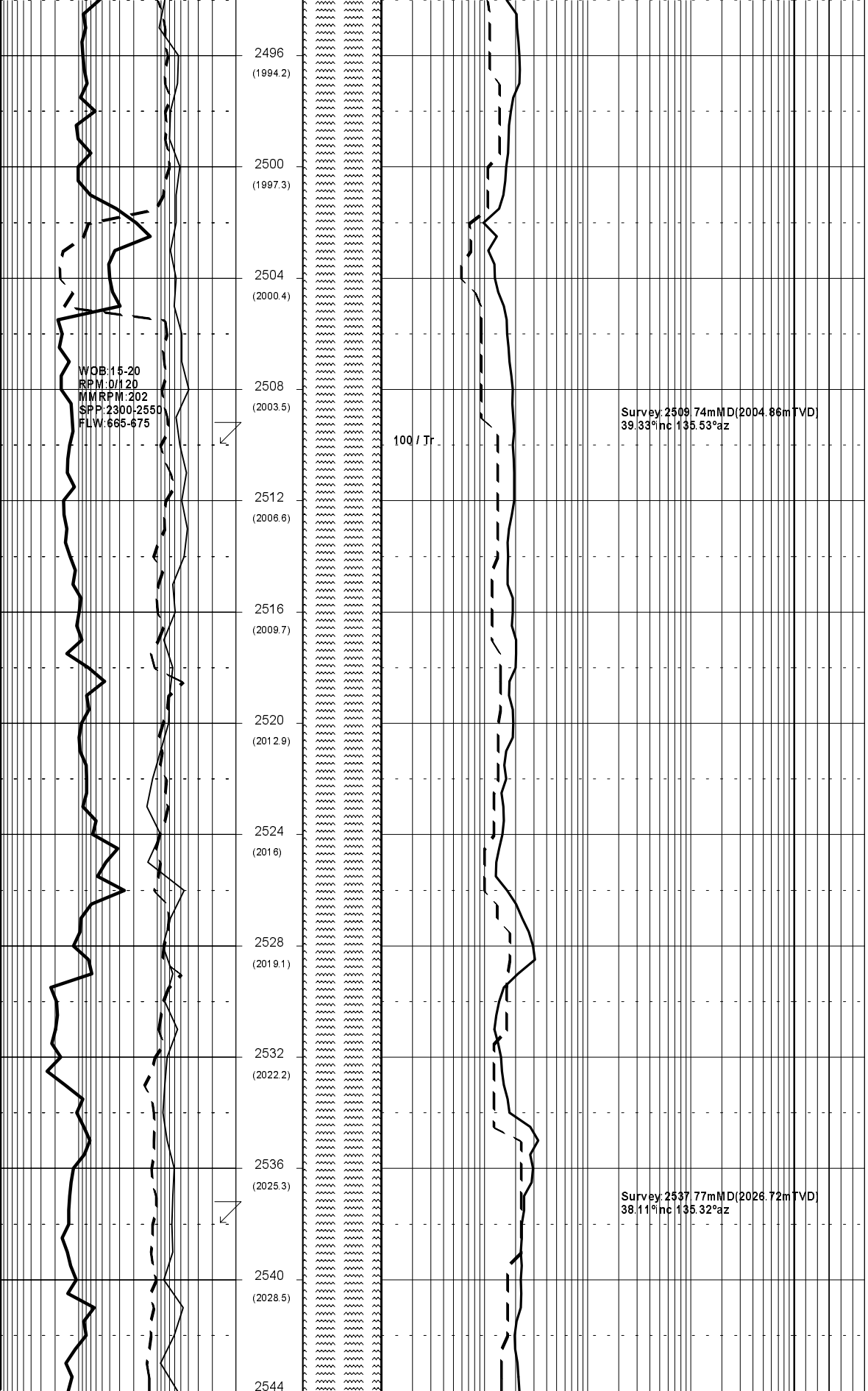
disp,sbblky-amor.

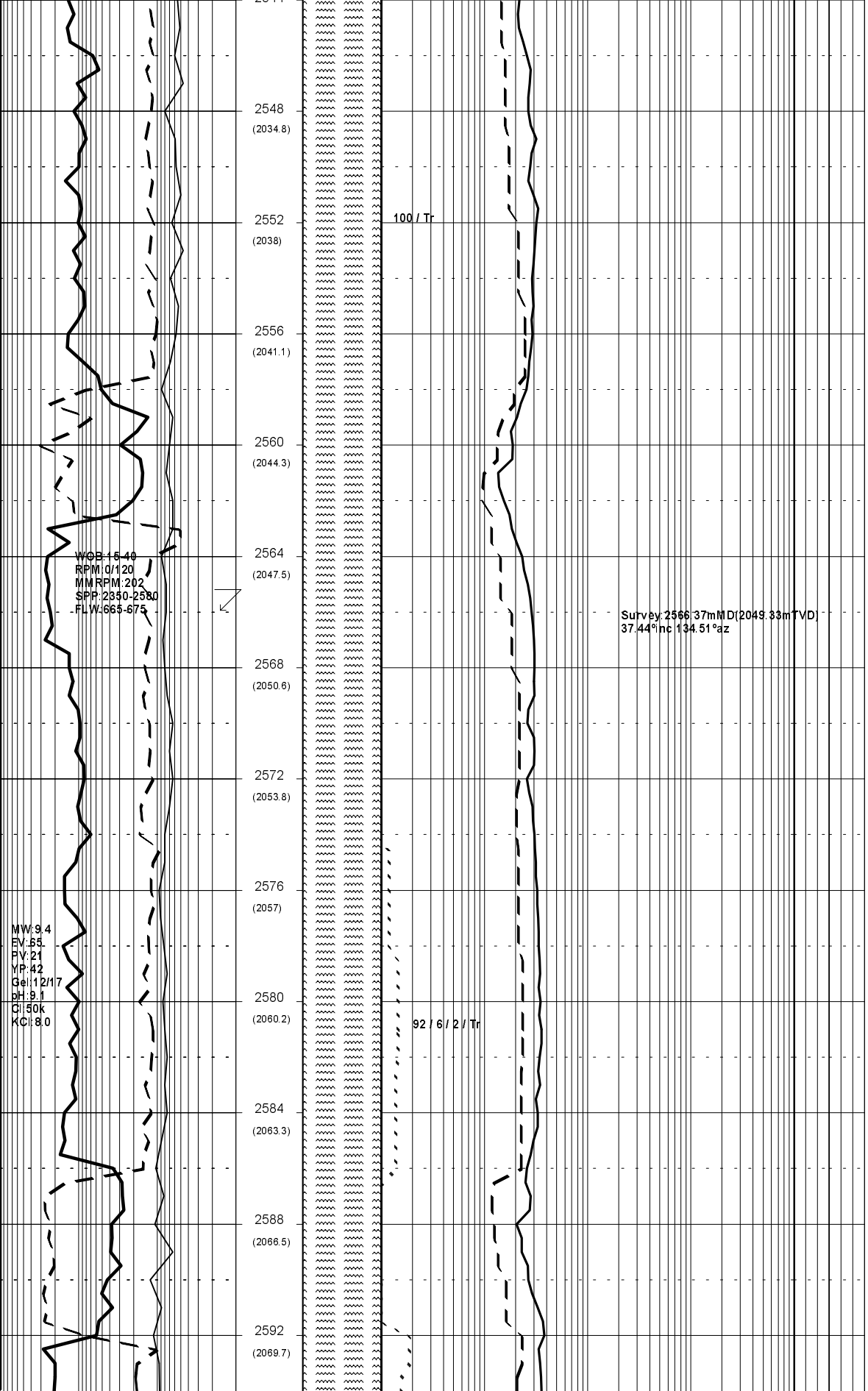
CALCAREOUS CLAYSTONE:med gy-

med dk gy,olv gy,tr pyr,tr glauc

nod,occ tr micmic,frm-mod hd,

sbblky-blky.


2496
(1994.2)
2500
(1997.3)
2504
(2000.4)
WOB:15-20
RPM:0/120
MMRPM:202
SPP:2300-2550
FLW:665-675
2508
(2003.5)
Survey:2509.74mMD(2004.86mTVD)
39.33°inc 135.53°az
100 / Tr
2512
(2006.6)
2516
(2009.7)
2520
(2012.9)
SILTSTONE:dk yel bn-gy bn,arg,
g/t CLYST,com-abdt micmic,tr
2524
(2016)
glauc,sft-frm,disp,sbblky-amor.
2528
(2019.1)
2532
(2022.2)
2536
(2025.3)
Survey:2537.77mMD(2026.72mTVD)
38.11°inc 135.32°az
2540
(2028.5)
2544



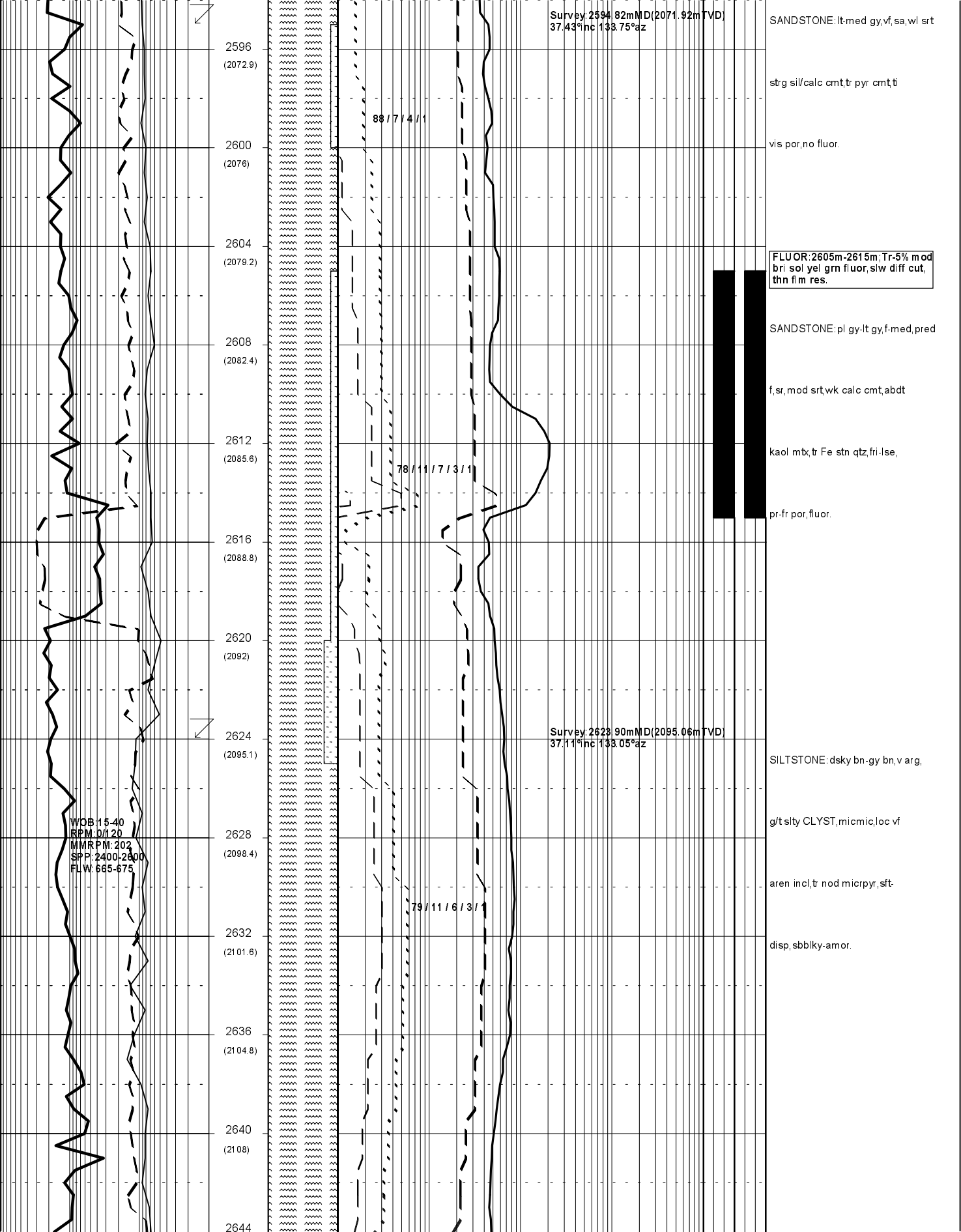
SILTSTONE: dsky bn, dsky yel bn, v

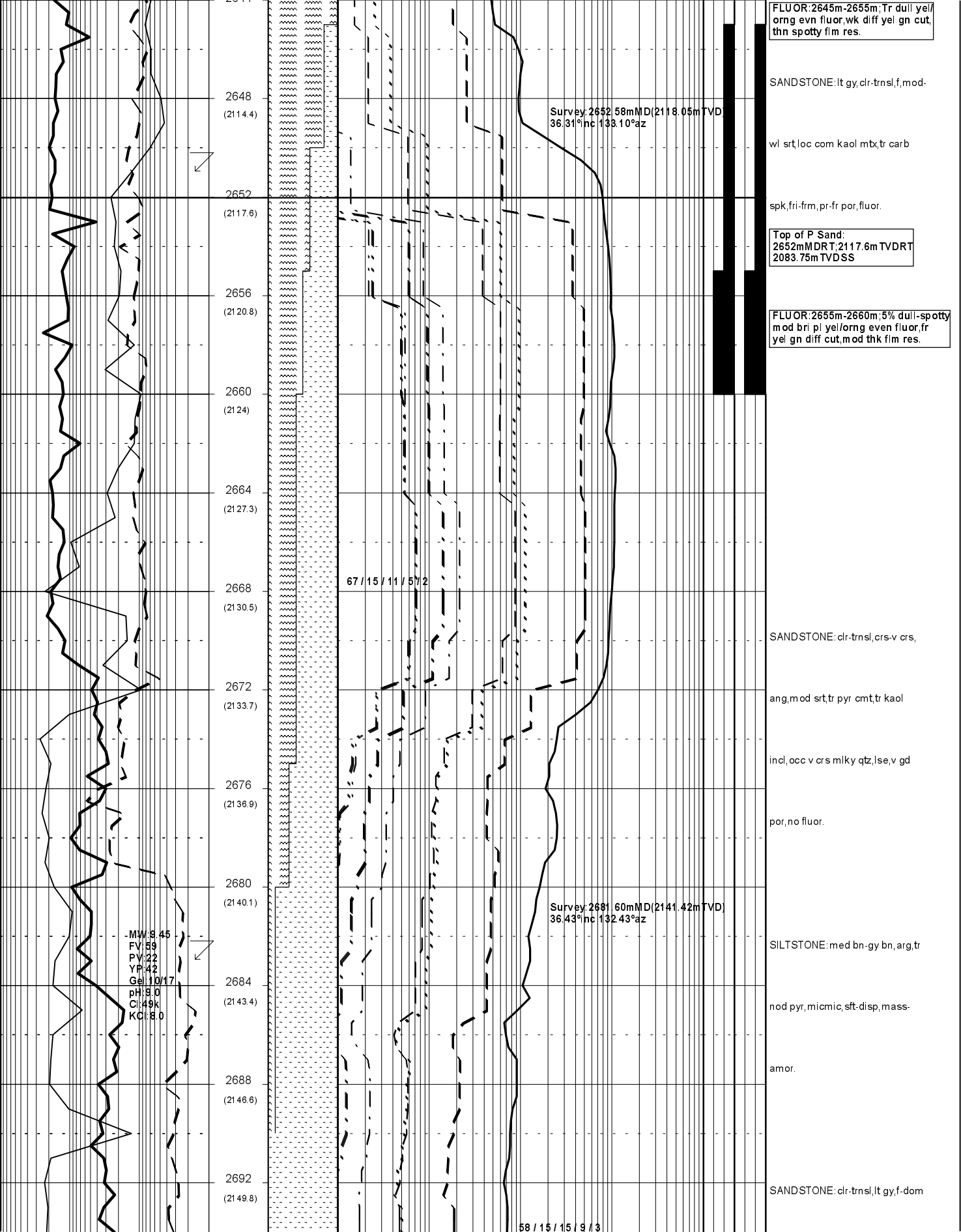
arg, g/t slty CLYST, micmic, loc

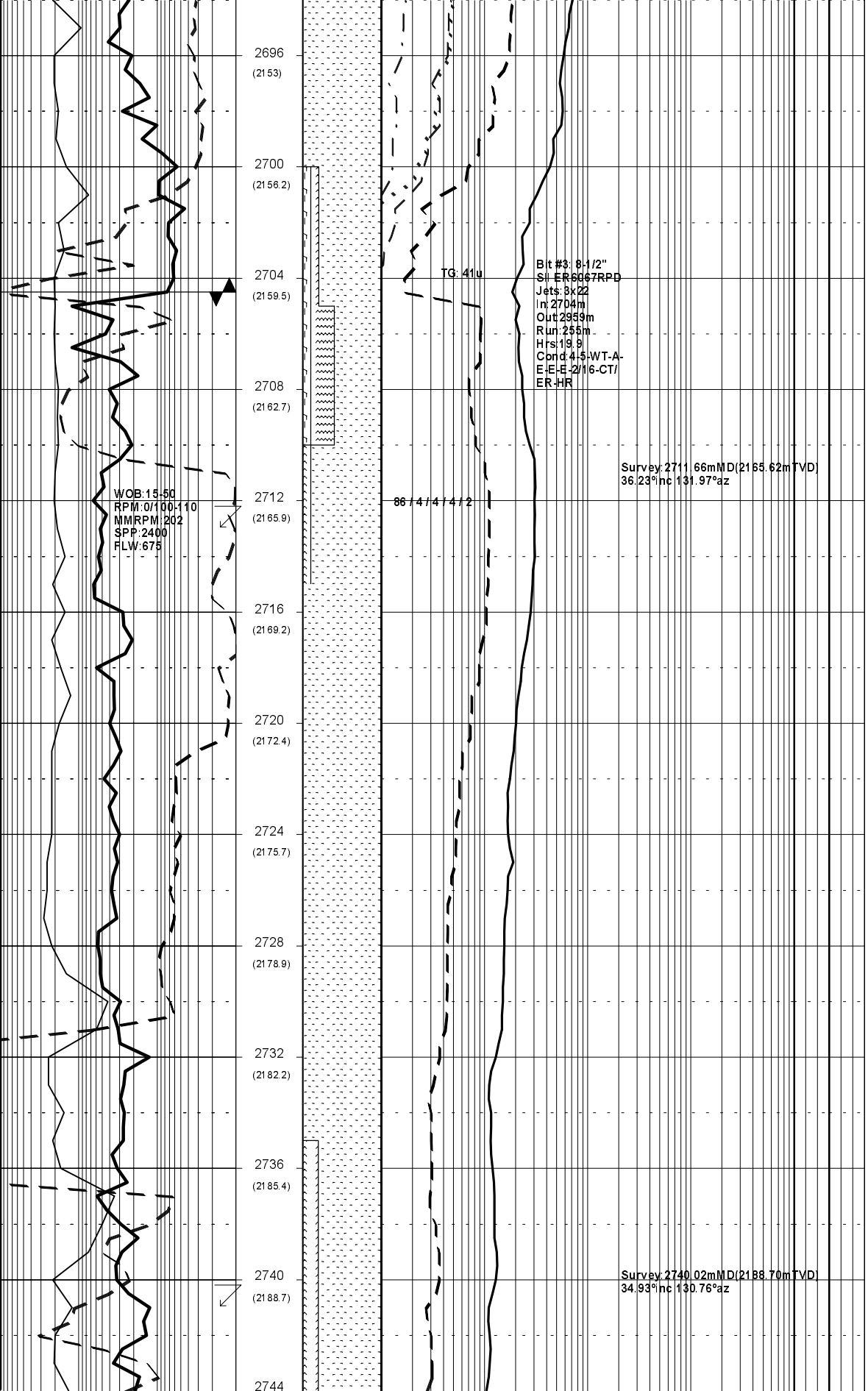
com glauc, com dissem & nod pyr,

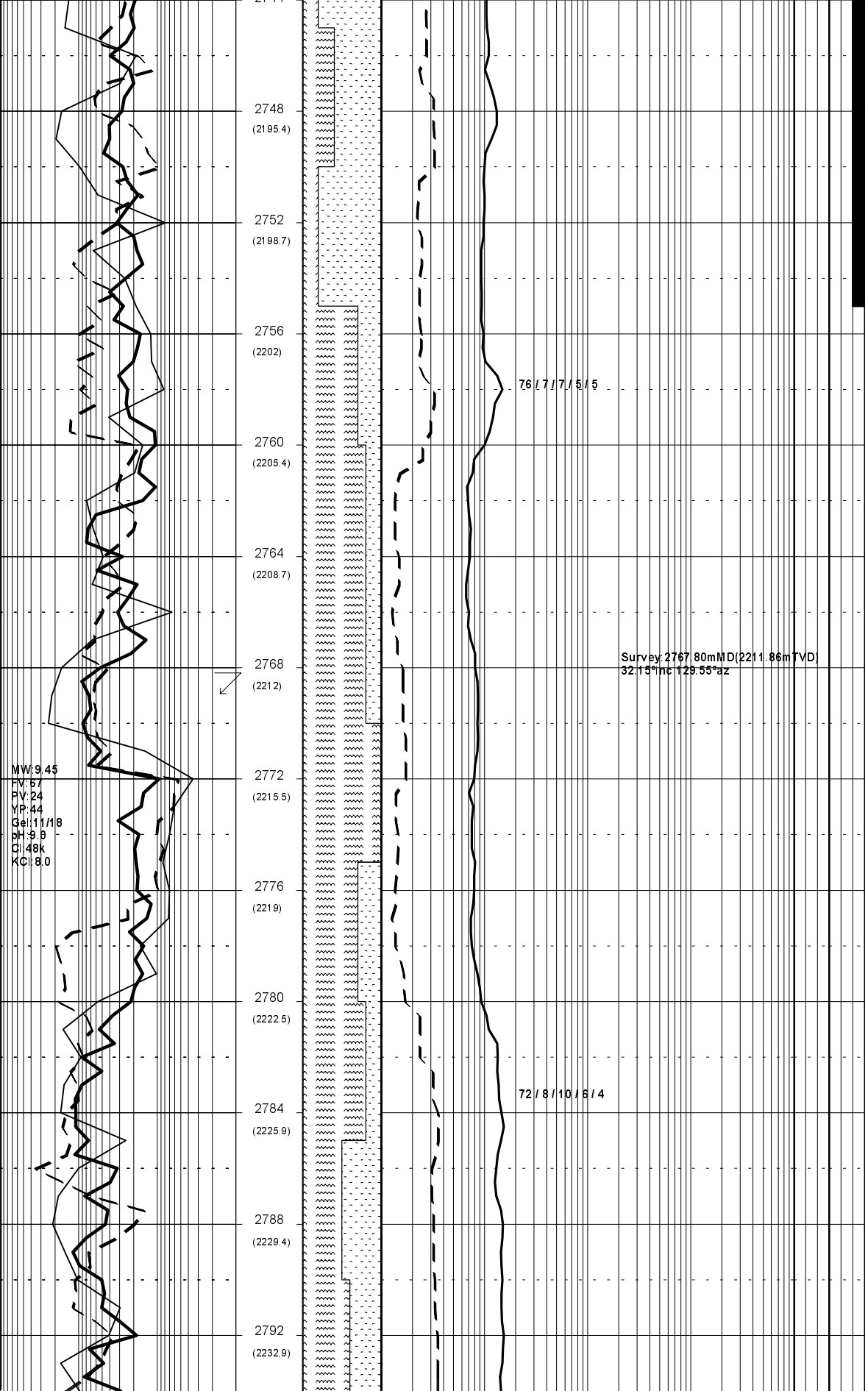
loc com lt gy arg incl, sft-disp,

amor.


Survey:2594.82mMD(2071.92mTVD)
37.43°inc 133.75°az
SANDSTONE:lt-med gy,vf,sa,wl srt
strg sil/calc cmt,tr pyr cmt,ti
88 / 7 / 4 / 1
vis por,no fluor.
FLUOR:2605m-2615m;Tr-5% mod bri sol yel grn fluor,slw diff cut, thn flm res.
SANDSTONE:pl gy-lt gy,f-med,pred
f,sr,mod srt,wk calc cmt,abdt
kaol mtx,tr Fe stn qtz,fri-lse,
78 / 11 / 7 / 3 / 1
pr-fr por,fluor.
Survey:2623.90mMD(2095.06mTVD)
37.11°inc 133.05°az
SILTSTONE:dsky bn-gy bn,v arg,
g/t slty CLYST,micmic,loc vf
aren incl,tr nod micrpyr,sft-
79 / 11 / 6 / 3 / 1
disp,sbblky-amor.
WOB:15-40
RPM:0/120
MMRPM:202
SPP:2400-2800
FLW:665-675
2596
(2072.9)
2600
(2076)
2604
(2079.2)
2608
(2082.4)
2612
(2085.6)
2616
(2088.8)
2620
(2092)
2624
(2095.1)
2628
(2098.4)
2632
(2101.6)
2636
(2104.8)
2640
(2108)
2644


FLUOR:2645m-2655m;Tr dull yel/orng evn fluor,wk diff yel gn cut, thn spotty flm res.
SANDSTONE:lt gy,clr-trnsl,f,mod-
wl srt,loc com kaol mtx,tr carb
spk,fri-frm,pr-fr por,fluor.
Top of P Sand: 2652mMDRT;2117.6mTVDRT 2083.75mTVDSS
FLUOR:2655m-2660m;5% dull-spotty mod bri pl yel/orng even fluor,fr yel gn diff cut,mod thk flm res.
SANDSTONE:clr-trnsl,crs-v crs,
ang,mod srt,tr pyr cmt,tr kaol
incl,occ v crs mlky qtz,lse,v gd
por,no fluor.
SILTSTONE:med bn-gy bn,arg,tr
nod pyr,micmic,sft-disp,mass-
amor.
SANDSTONE:clr-trnsl,lt gy,f-dom
2648
(2114.4)
2652
(2117.6)
2656
(2120.8)
2660
(2124)
2664
(2127.3)
2668
(2130.5)
2672
(2133.7)
2676
(2136.9)
2680
(2140.1)
2684
(2143.4)
2688
(2146.6)
2692
(2149.8)
Survey:2652.58mMD(2118.05mTVD) 36.31°inc 133.10°az
67 / 15 / 11 / 5 / 2
Survey:2681.60mMD(2141.42mTVD) 36.43°inc 132.43°az
MW:9.45
FV:59
PV:22
YP:42
Gel:10/17
pH:9.0
Cl:49k
KCl:8.0
58 / 15 / 15 / 9 / 3


2696
(2153)
2700
(2156.2)
2704
(2159.5)
2708
(2162.7)
2712
(2165.9)
2716
(2169.2)
2720
(2172.4)
2724
(2175.7)
2728
(2178.9)
2732
(2182.2)
2736
(2185.4)
2740
(2188.7)
2744
WOB:15-50
RPM:0/100-110
MMRPM:202
SPP:2400
FLW:675
TG: 41u
Bit #3: 8-1/2"
SII ER6067RPD
Jets: 3x22
In: 2704m
Out: 2959m
Run: 255m
Hrs: 19.9
Cond: 4-5-WT-A-
E-E-E-2/16-CT/
ER-HR
86 / 4 / 4 / 4 / 2
Survey: 2711.66mMD(2165.62mTVD)
36.23°inc 131.97°az
Survey: 2740.02mMD(2188.70mTVD)
34.93°inc 130.76°az
crs-v crs, mod srt, ang-sr, loc com
abdt kaol mtx, tr nod pyr, lse, fri
i/p, fr-gd por, no fluor.
SILTSTONE: gy bn-dsky yel bn, sli
arg, micmic, com biot/muscovite,
com lith frag, tr carb spk, sli
aren i/p, sft-frm, blky.
SANDSTONE: clr-trnsl, med-dom crs-
v crs, pr-mod srt, ang-sr, tr-rr
pyr cmt, tr kaol incl, tr-occ com-
frac qtz float, cln, lse, gd-v gd
por, no fluor.
SILTSTONE: gy bn-dsky yel bn, v
arg g/t CLYST, micmic, tr biot, com
lith frag, tr carb spk, sft-disp,
mass-blky.
FLUOR: 2740-2755m; Tr v dll yel gn ptchy fluor, v wk diff cut, tr-nil rng res.



SANDSTONE: clr-trnsl,frstd,f-com

med-crs,pr-mod srt,ang-sr,tr pyr

cmt,tr kaol incl,com v crs frac

mlky qtz,lse,gd por,fluor.

SILTSTONE: bn gy-olv gy,v arg g/t

CLYST,sli micmic,tr biot,tr carb

spk,tr lith frag,sft-disp,mass-

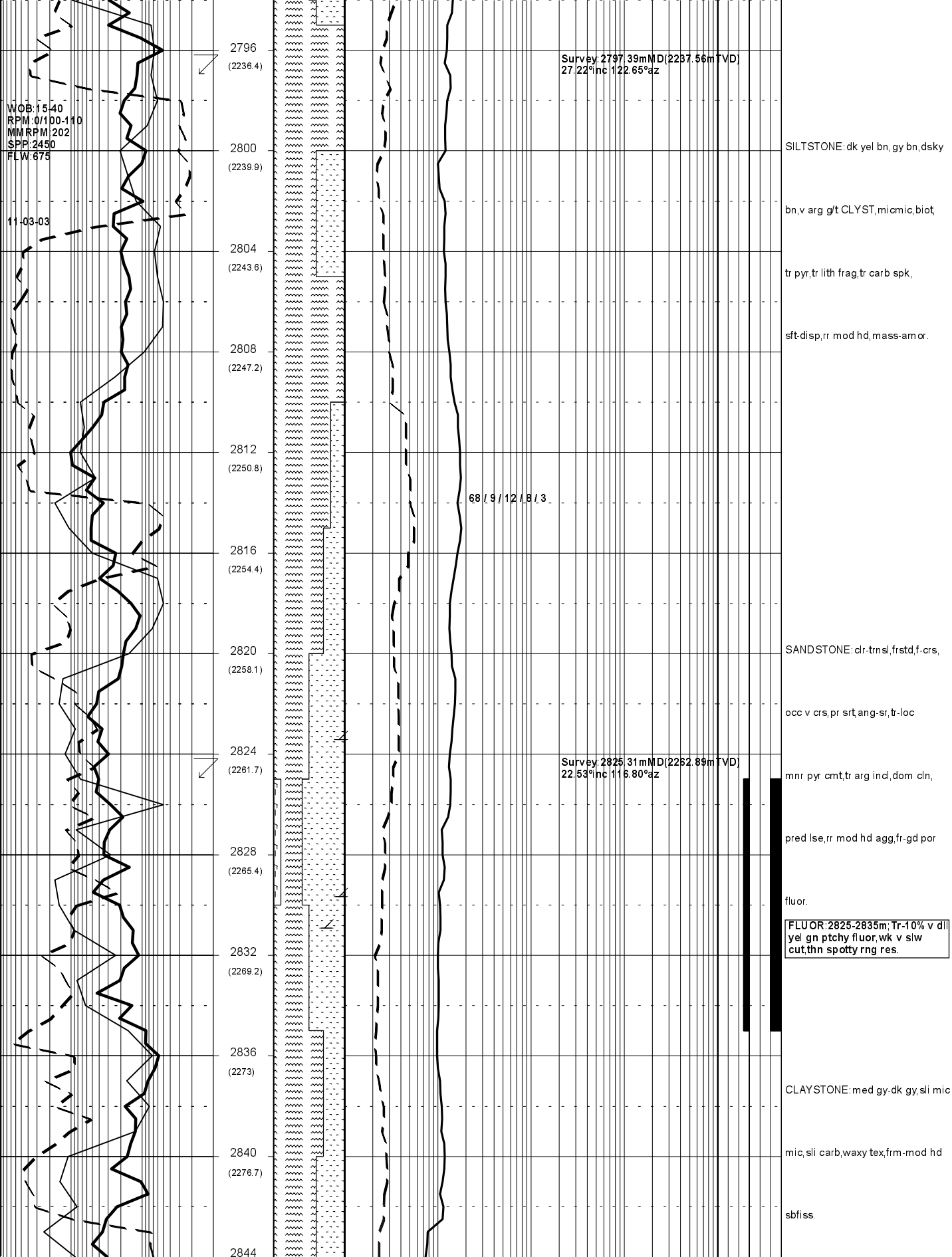
amor.

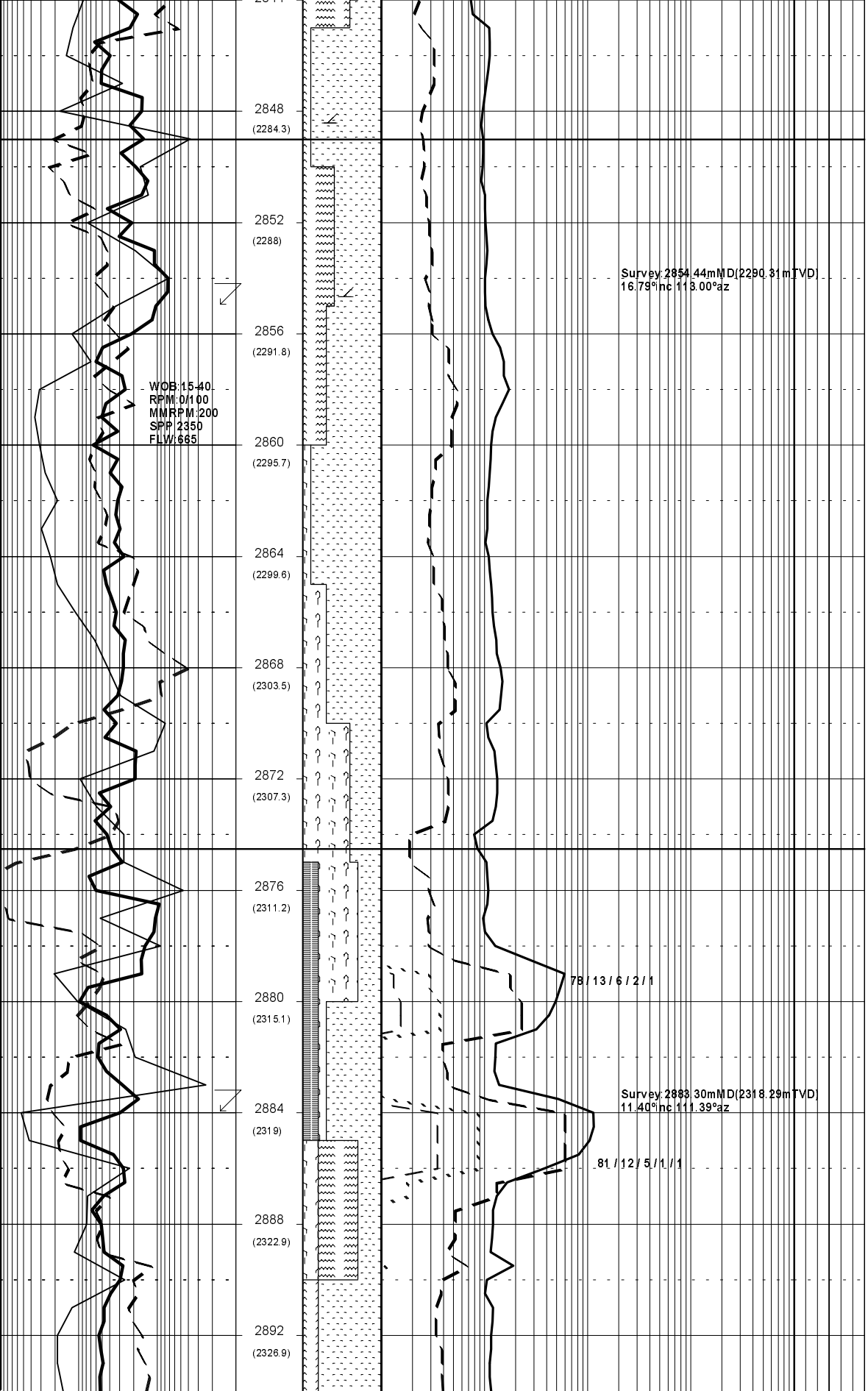
SANDSTONE: clr-trnsl,frstd,med-v

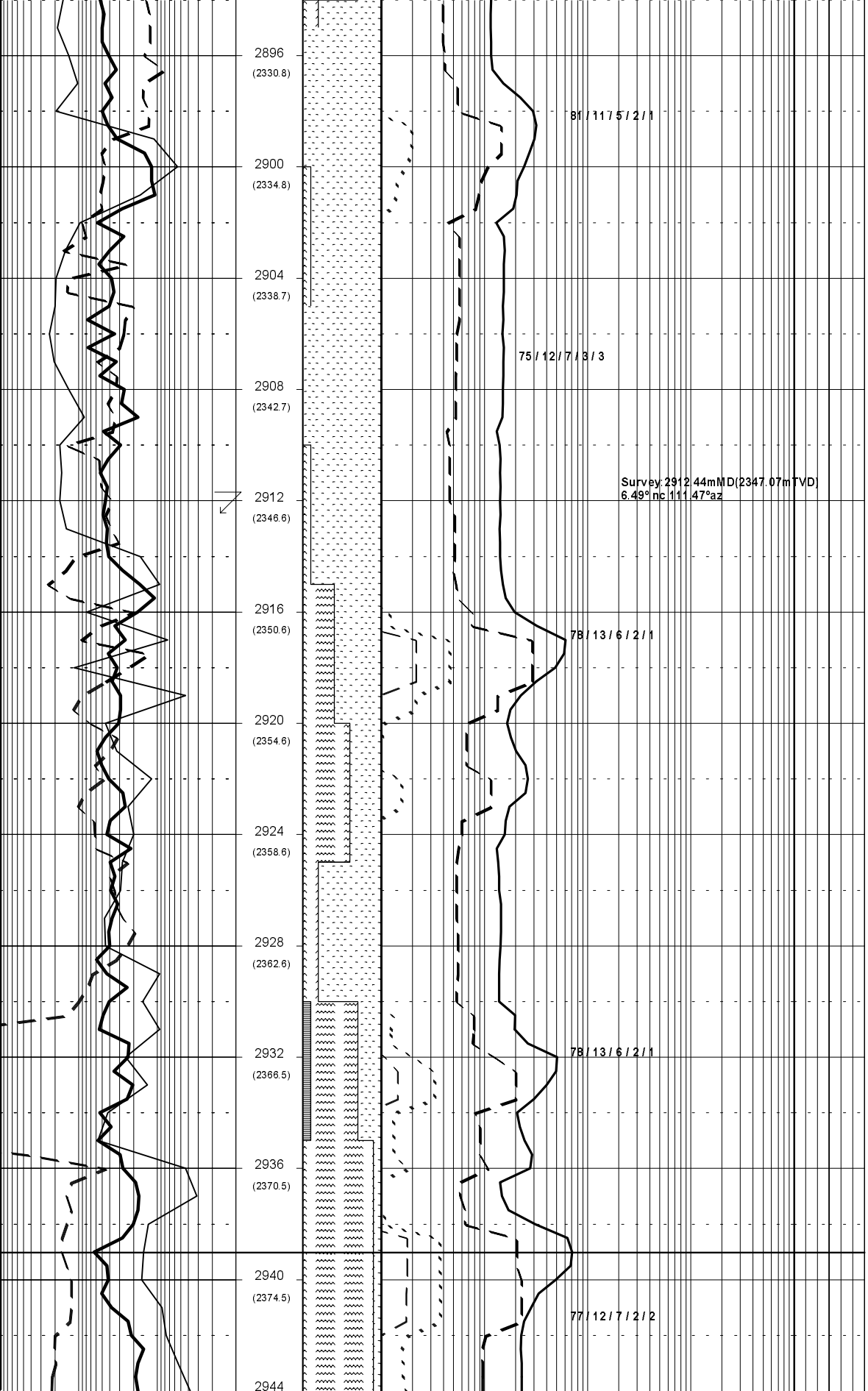
crs,pr srt,ang-sr,tr pyr cmt,

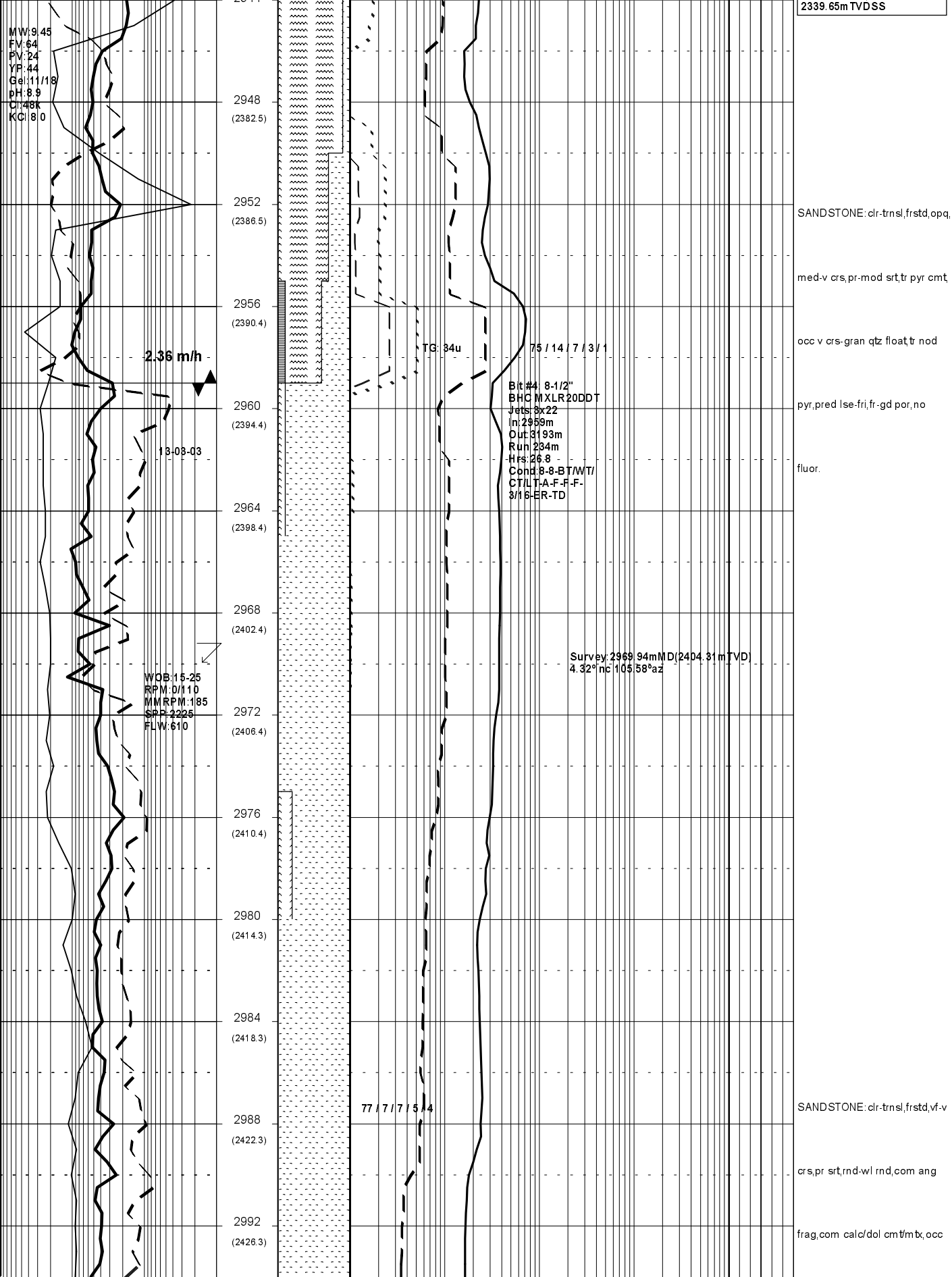
pred cln,com mlky qtz,lse,v gd

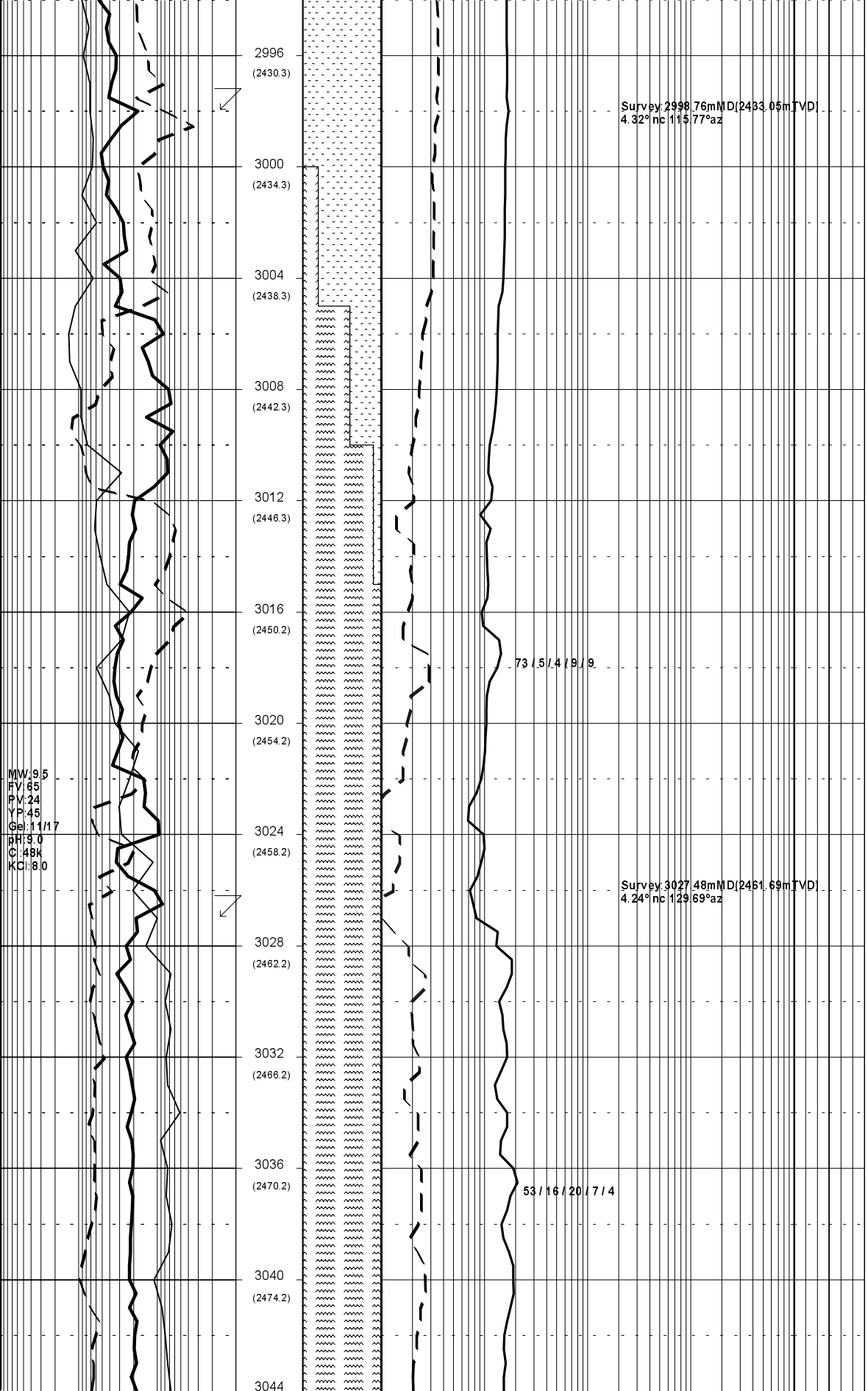
por,no fluor.


WOB:15-40
RPM:0/100-110
MMRPM:202
SPP:2450
FLW:675
11-03-03
2796
(2236.4)
2800
(2239.9)
2804
(2243.6)
2808
(2247.2)
2812
(2250.8)
2816
(2254.4)
2820
(2258.1)
2824
(2261.7)
2828
(2265.4)
2832
(2269.2)
2836
(2273)
2840
(2276.7)
2844
Survey:2797.39mMD(2237.56mTVD)
27.22°inc 122.65°az
68 / 9 / 12 / 8 / 3
Survey:2825.31mMD(2262.89mTVD)
22.53°inc 116.80°az
SILTSTONE:dk yel bn,gy bn,dsky
bn,v arg g/t CLYST,micmic,biot,
tr pyr,tr lith frag,tr carb spk,
sft-disp,rr mod hd,mass-amor.
SANDSTONE:clr-trnsl,frstd,f-crs,
occ v crs,pr srt,ang-sr,tr-loc
mnr pyr cmt,tr arg incl,dom cln,
pred lse,rr mod hd agg,fr-gd por
fluor.
FLUOR:2825-2835m;Tr-10% v dll yel gn ptchy fluor,wk v slw cut,thn spotty rng res.
CLAYSTONE:med gy-dk gy,sli mic
mic,sli carb,waxy tex,frm-mod hd
sbfiss.


2848
(2284.3)
Base Tuna-Flounder Channel:
2849mMDRT;2285.2mTVDRT
2251.35mTVDSS
2852
(2288)
Survey:2854.44mMD(2290.31mTVD)
16.79°inc 113.00°az
2856
(2291.8)
WOB:15-40
RPM:0/100
MMRPM:200
SPP:2350
FLW:665
SANDSTONE:clr-trnsl,qtzose,
2860
(2295.7)
frstd,mod-wl srt,sa-sr,loc com
dol/calc cmt,tr pyr cmt,tr nod
2864
(2299.6)
pyr,tr kaol inc,tr mlky qtz,ti-
pr por,mnr min fluor only.
2868
(2303.5)
2872
(2307.3)
Shallow Coal Marker:
2874.5mMDRT;2309.8mTVDRT
2275.95mTVDSS
CLAYSTONE:med gy-dk gy,olv gy,
2876
(2311.2)
bn gy i/p,slty i/p,g/t SLTST,
73 / 13 / 6 / 2 / 1
2880
(2315.1)
micmic,tr carb spk,sft,sbblky.
Survey:2883.30mMD(2318.29mTVD)
11.40°inc 111.39°az
2884
(2319)
COAL:bn blk-blk,sli arg i/p,sli
81 / 12 / 5 / 1 / 1
2888
(2322.9)
micmic,mnr micrpyr,striat,dll-
sbvit,sbconch i/p,brit,blky.
2892
(2326.9)


2896
(2330.8)
2900
(2334.8)
2904
(2338.7)
2908
(2342.7)
2912
(2346.6)
2916
(2350.6)
2920
(2354.6)
2924
(2358.6)
2928
(2362.6)
2932
(2366.5)
2936
(2370.5)
2940
(2374.5)
2944
81 / 11 / 5 / 2 / 1
75 / 12 / 7 / 3 / 3
Survey: 2912.44mMD(2347.07mTVD)
6.49° inc 111.47°az
78 / 13 / 6 / 2 / 1
78 / 13 / 6 / 2 / 1
77 / 12 / 7 / 2 / 2
SANDSTONE: clr-trnsl, qtzose,
frstd, sa-sr, mod-pr srt, cln, tr
pyr cmt, tr v crs-gran qtz float,
tr musc, pred lse, gd por, no fluor
SILTSTONE: bn gy-dsky bn, loc v
arg, micmic, com carb frag & lam,
sft, loc frm, blky.
SANDSTONE: clr-trnsl, frstd, f-dom
med-crs, mod srt, sa-sr, tr pyr cmt
tr v crs-gran qtz float, tr mica,
pred lse, fr-gd por, no fluor.
SILTSTONE: bn gy-dsky bn, loc v
arg g/t CLYST, micmic, com carb
frag & lam, sft, occ frm, blky.
Mid Palaeocene Marker:
2939mMDRT; 2373.5mTVDRT


2339.65mTVDSS
MW:9.45
FV:64
PV:24
YP:44
Gel:11/18
pH:8.9
Cl:48k
KCl:8.0
2948
(2382.5)
2952
(2386.5)
2956
(2390.4)
2960
(2394.4)
2964
(2398.4)
2968
(2402.4)
2972
(2406.4)
2976
(2410.4)
2980
(2414.3)
2984
(2418.3)
2988
(2422.3)
2992
(2426.3)
2.36 m/h
13-03-03
WOB:15-25
RPM:0/110
MMRPM:185
SPP:2225
FLW:610
TG: 34u
75 / 14 / 7 / 3 / 1
Bit:#4, 8-1/2"
BHC MXLR20DDT
Jets: 3x22
In:2959m
Out:3193m
Run:234m
Hrs:26.8
Cond:8-8-BT/WT/
CT/LT-A-F-F-F-
3/16-ER-TD
Survey:2969.94mMD(2404.31mTVD)
4.32° nc 105.58°az
77 / 7 / 7 / 5 / 4
SANDSTONE: clr-trnsl,frstd,opq,
med-v crs,pr-mod srt,tr pyr cmt,
occ v crs-gran qtz float,tr nod
pyr,pred lse-fri,fr-gd por,no
fluor.
SANDSTONE: clr-trnsl,frstd,vf-v
crs,pr srt,rnd-wl rnd,com ang
frag,com calc/dol cmt/mtx,occ



pyr cmt,lse,com hd-v hd agg,pr

-v pr por,mnr min fluor.

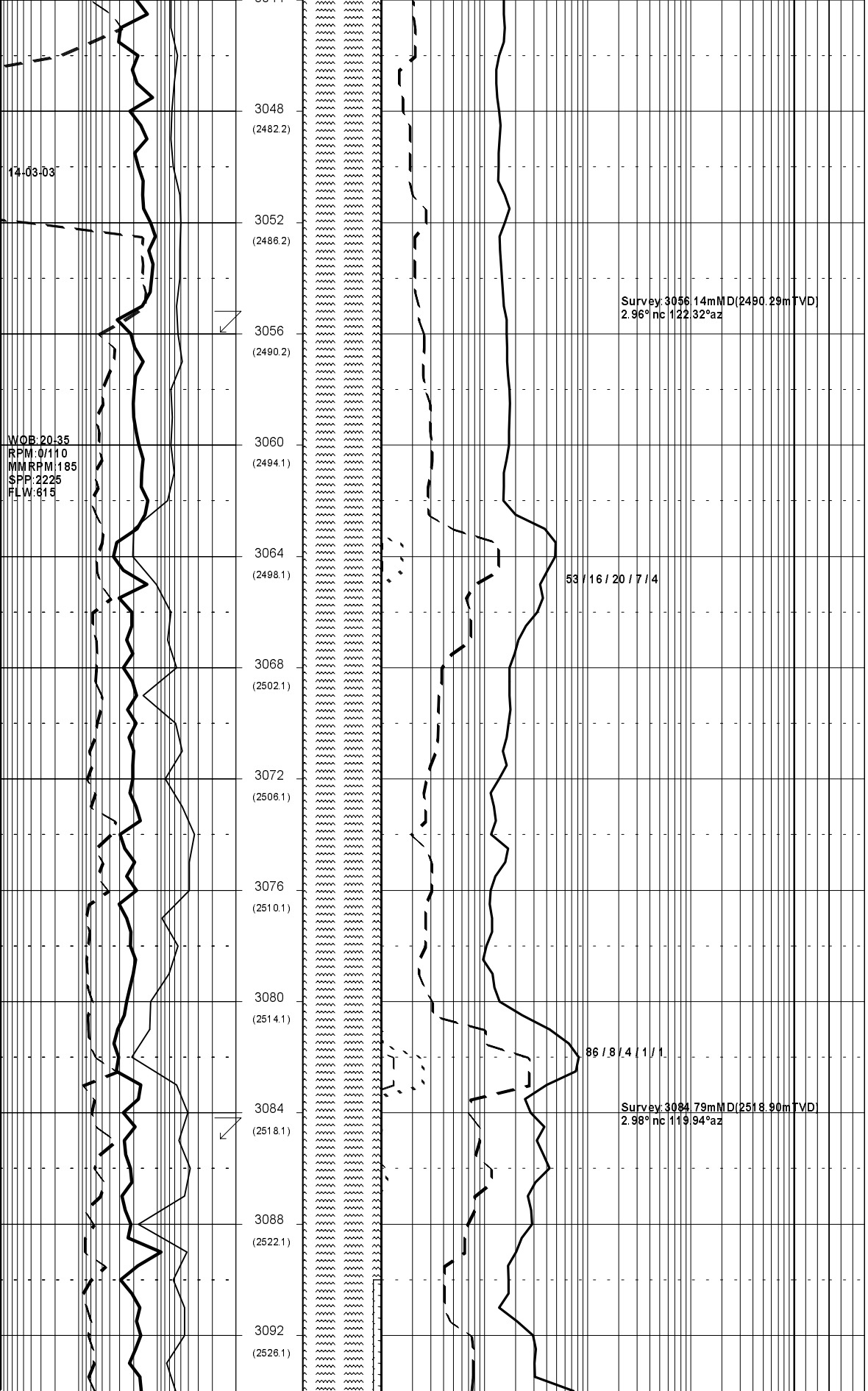
SILTSTONE:v lt gy-gy bn,mod bn

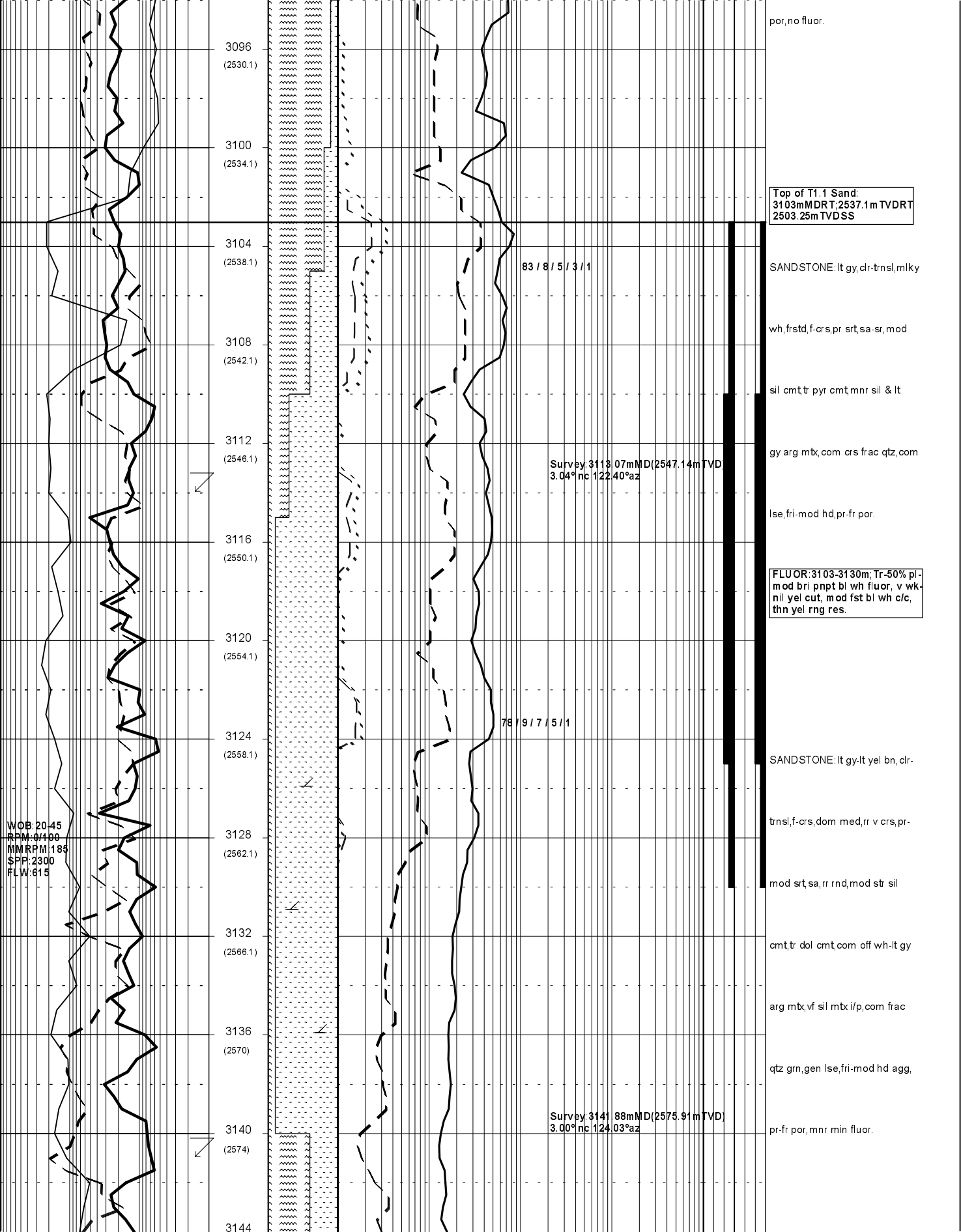
i/p,arg,calc i/p,com dissem pyr,

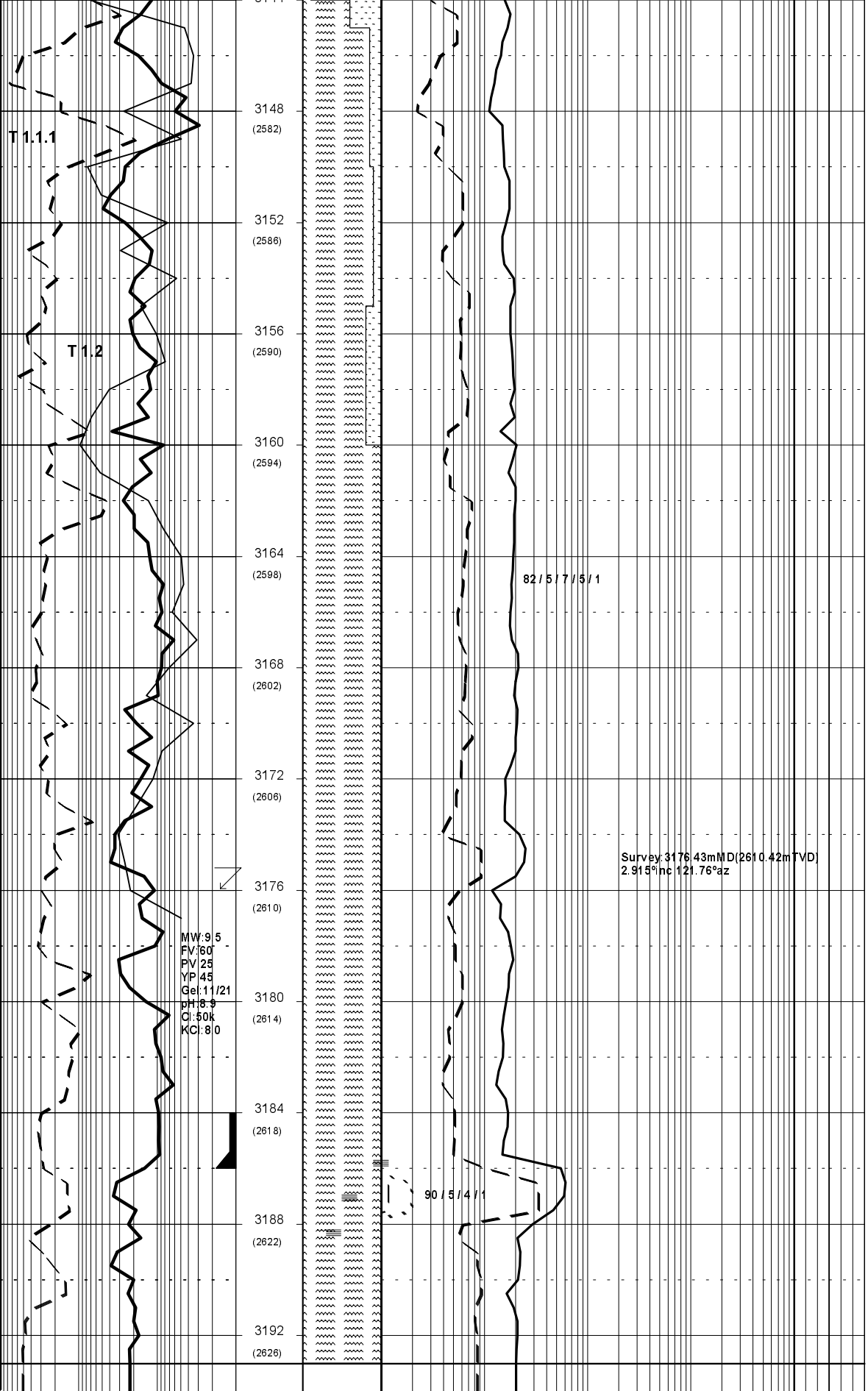
micmic i/p,com coaly incl,sft,

mnr frm-mod hd i/p,amor,mnr

sbblky.


3048
(2482.2)
14-03-03
3052
(2486.2)
Survey:3056.14mMD(2490.29mTVD)
2.96° nc 122.32°az
3056
(2490.2)
3060
(2494.1)
WOB:20-35
RPM:0/110
MMRPM:185
SPP:2225
FLW:615
3064
(2498.1)
53 / 16 / 20 / 7 / 4
3068
(2502.1)
3072
(2506.1)
3076
(2510.1)
3080
(2514.1)
86 / 8 / 4 / 1 / 1
3084
(2518.1)
Survey:3084.79mMD(2518.90mTVD)
2.98° nc 119.94°az
3088
(2522.1)
3092
(2526.1)
SILTSTONE:pl yel bn-lt bn,mod bn
i/p,gy gn-dk gy gn i/p,arg,dol
i/p,com nod pyr,com dissem glauc
gen sft,occ mod hd-hd,amor,
sbblky-blky i/p.
SANDSTONE:lt gy-lt gy bn,trnsl,
vf-f,pr-mod srt,sa,wk sil cmt,
com lt bn arg mtx,fri-mod hd,pr


3096
(2530.1)
3100
(2534.1)
3104
(2538.1)
3108
(2542.1)
3112
(2546.1)
3116
(2550.1)
3120
(2554.1)
3124
(2558.1)
3128
(2562.1)
3132
(2566.1)
3136
(2570)
3140
(2574)
3144
WOB:20-45
RPM:0/100
MMRPM:185
SPP:2300
FLW:615
83 / 8 / 5 / 3 / 1
Survey:3113.07mMD(2547.14mTVD)
3.04° inc 122.40°az
78 / 9 / 7 / 5 / 1
Survey:3141.88mMD(2575.91mTVD)
3.00° inc 124.03°az
por,no fluor.
Top of T1.1 Sand:
3103mMDRT;2537.1mTVDRT
2503.25mTVDSS
SANDSTONE:lt gy,clr-trnsl,mlky
wh,frstd,f-crs,pr srt,sa-sr,mod
sil cmt,tr pyr cmt,mnr sil & lt
gy arg mtx,com crs frac qtz,com
lse,fri-mod hd,pr-fr por.
FLUOR:3103-3130m;Tr-50% pl-
mod bri pnpt bl wh fluor, v wk-
nil yel cut, mod fst bl wh c/c,
thn yel rng res.
SANDSTONE:lt gy-lt yel bn,clr-
trnsl,f-crs,dom med,rr v crs,pr-
mod srt,sa,rr rnd,mod str sil
cmt,tr dol cmt,com off wh-lt gy
arg mtx,vf sil mtx i/p,com frac
qtz grn,gen lse,fri-mod hd agg,
pr-fr por,mnr min fluor.


T 1.1.1
T 1.2
3148
(2582)
3152
(2586)
3156
(2590)
3160
(2594)
3164
(2598)
3168
(2602)
3172
(2606)
3176
(2610)
3180
(2614)
3184
(2618)
3188
(2622)
3192
(2626)
MW:9 5
FV:60
PV 25
YP 45
Gel:11/21
pH:8.9
Cl:50k
KCl:8 0
82 / 5 / 7 / 5 / 1
Survey:3176.43mMD(2610.42mTVD)
2.915°inc 121.76°az
90 / 5 / 4 / 1
SILTSTONE(1):bn gy-lt bn,med gy-
olv gy,arg,dol,com nod pyr,occ
dissem pyr,mnr carb spk,rr glauc
incl,sft,rr mod hd-hd,amor,rr
sbfiss.
(2):wh-off wh,arg g/t CLYST,calc
sft-frm,amor-fiss.
SANDSTONE:clr-trnsl,mlky i/p,vf-
f,occ m-vcrs,sa-rnd,com dol cmt,
com dol mtx,pred lse,com hd-v hd
agg,pr-fr inf por,ti-nil vis por
com min fluor.
SILTSTONE:mod org pnk-dk yel bn,
arg-sli aren,sli dol,mnr carb
spk,micmic,sft,frm i/p,amor,mnr
sbblky.
7" Production Casing Shoe @ 3186m
FLOUNDER A-24a REACHED TD
@ 3193.0mMDRT(2626.97mTVDRT)
@ 23:30 HRS ON 14-03-2003

3196

E-LOG RUN: TD TO 80mTVD ATOL
1: MCG-MDN-MPD-MDL-MSS-MAI