HORIZONTAL LITHOLOGY STRIP LOG

WellSight Systems

Scale 1:240 (5"=100') Metric
Measured Depth Log

Well Name:	**Oil Company et al Foothills 06-06-060-06W6**		
Location:	**06-06-060-06W06**	**UWI**	**100/06-06-060-06W6/0**
License Number:	**AB-license**	**Region:**	**Foothills**
Spud Date:	**1/20/2060 16:30**	**Drilling Completed:**	**March 13, 2060**
Surface Coordinates:	**Surf: 82.13m S & 458.8m E of NW corner Sec 06**		
	ICP: 58.4m N & 584.8m E of SW corner Sec 06		
Bottom Hole Coordinates:	**FTD: 244.2m S & 801.8m E of NW corner Sec 06**		
Ground Elevation (m):	**1286.60**	**K.B. Elevation (m):**	**1292.10**
Logged Interval (m):	**2280** **To: 4312MD**	**Total Depth (m):**	**4312MD**
Formation:	**Dunvegan C**		
Type of Drilling Fluid:	**Invert oil**		

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

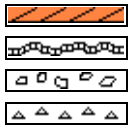
Company: **Oil Company**
Address: **800, 555 - 4th Ave. S.W. Calgary, AB T2P 3E7**
0 403.234.7625, www.WellsiteGeologists.com
C 403.660.9883, info@WellsiteGeologists.com

Wellsite Geologists

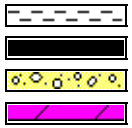
GEOLOGIST

Name: **Wellsite Geologist, B.Sc.**
Company: **Wellsite Geologists Inc.**
Address: **800, 555 - 4th Ave. S.W. Calgary, AB T2P 3E7**
0 403.234.7625, www.WellsiteGeologists.com
C 403.660.9883, info@WellsiteGeologists.com

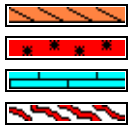
ROCK TYPES



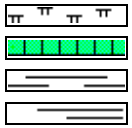
Anhy
Bent
Brec
Cht



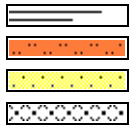
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta



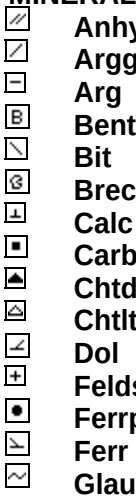
Mrlst
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till

ACCESSORIES

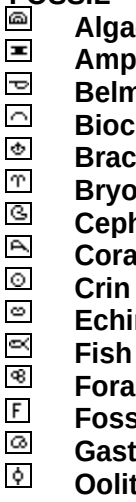
MINERAL



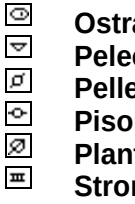
Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau

Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff

FOSSIL



Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite



Ostra
Pelec
Pellet
Pisolite
Plant
Strom

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst

Sltstrg
Ssstrg

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY

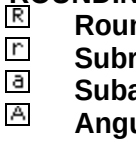
Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint

Vuggy

SORTING

Well
Moderate
Poor

ROUNDING



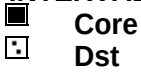
Rounded
Subrnd
Subang
Angular

OIL SHOW

Even

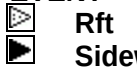
Spotted
Ques
Dead

INTERVAL

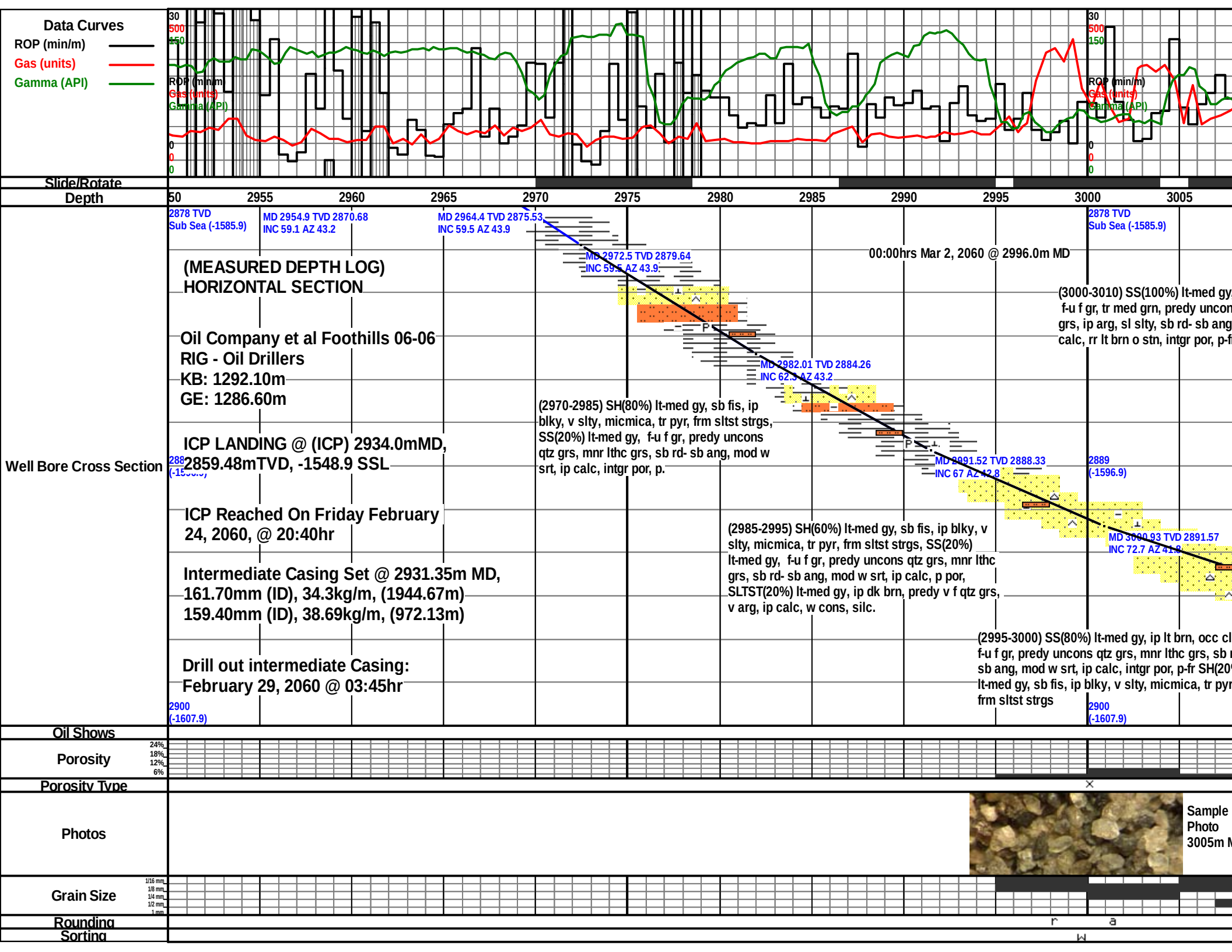


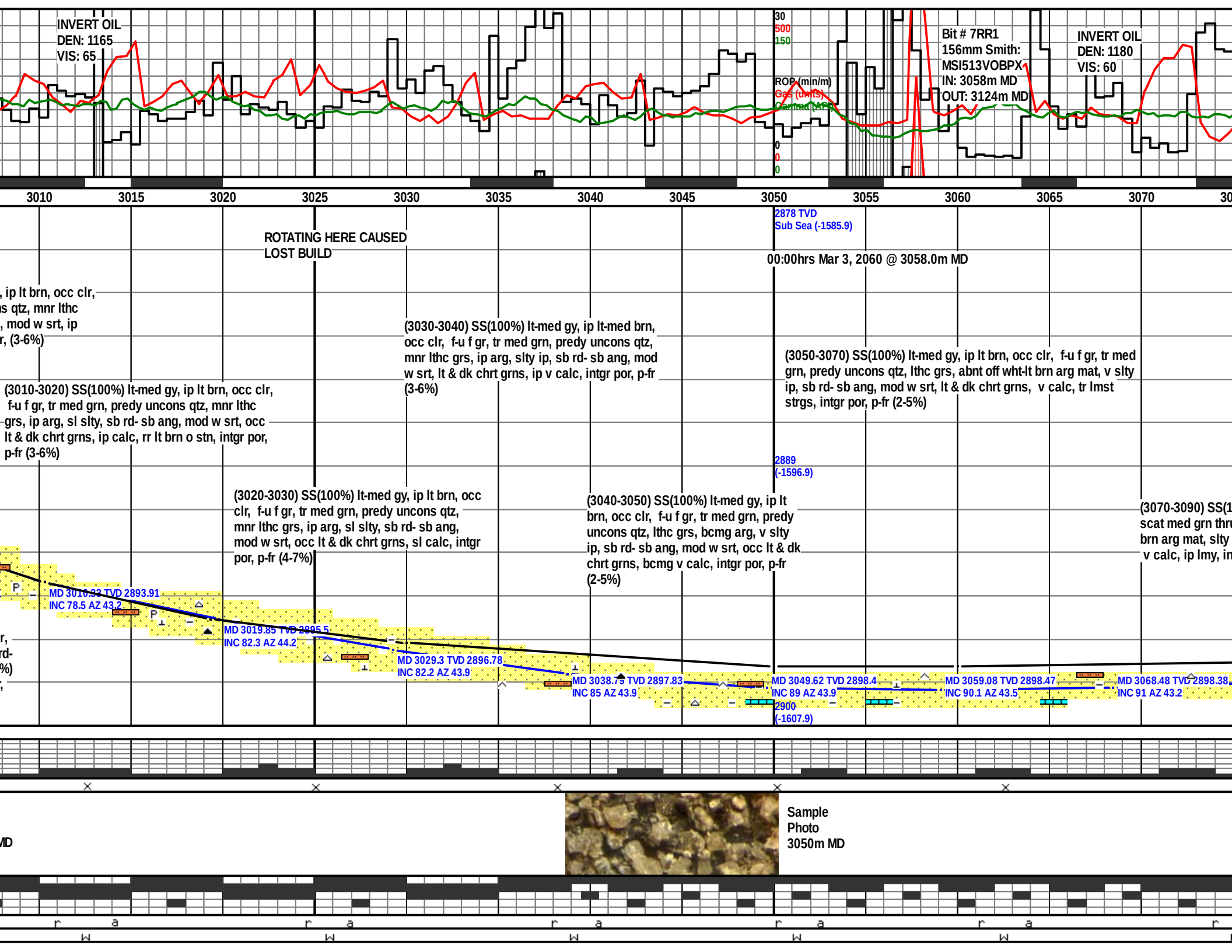
Core
Dst

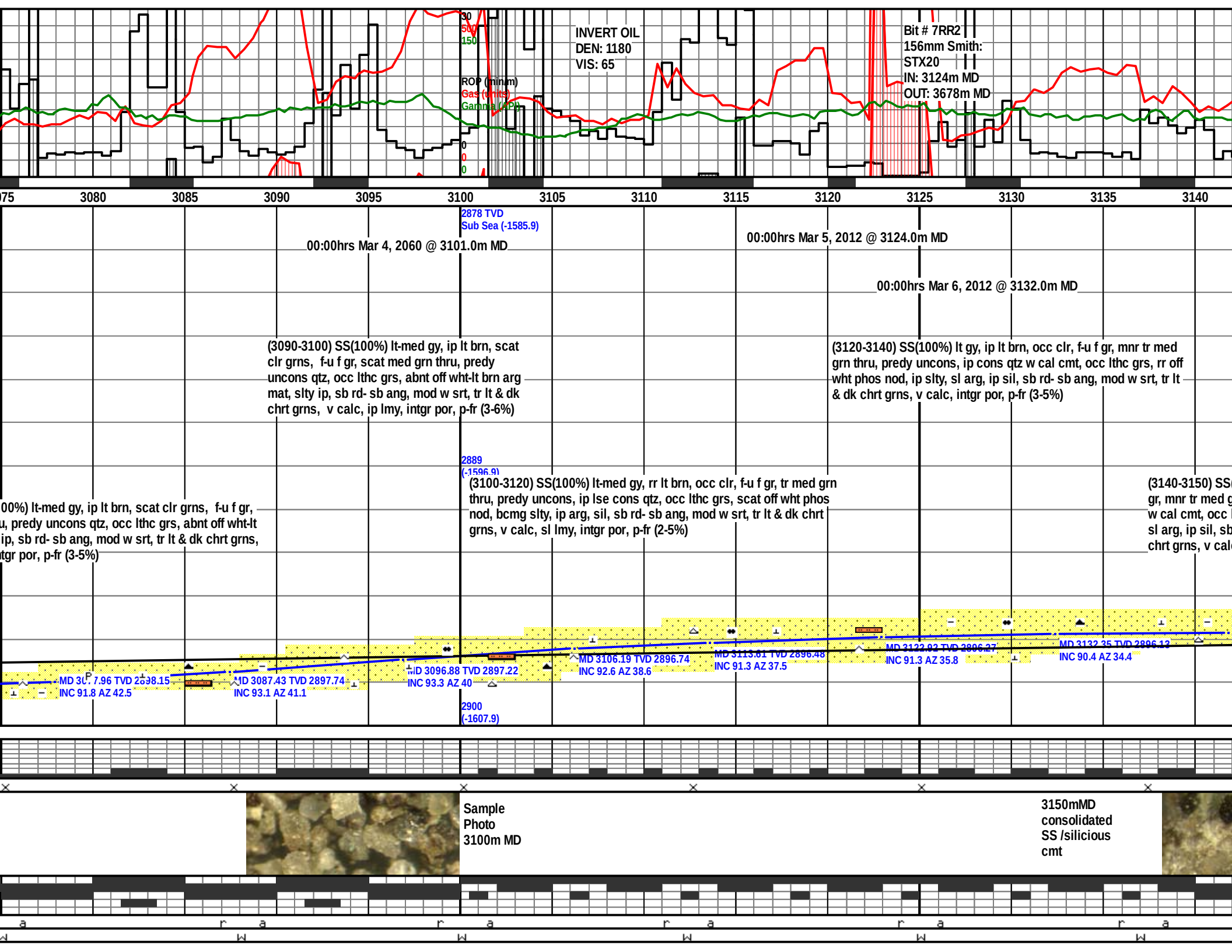
EVENT

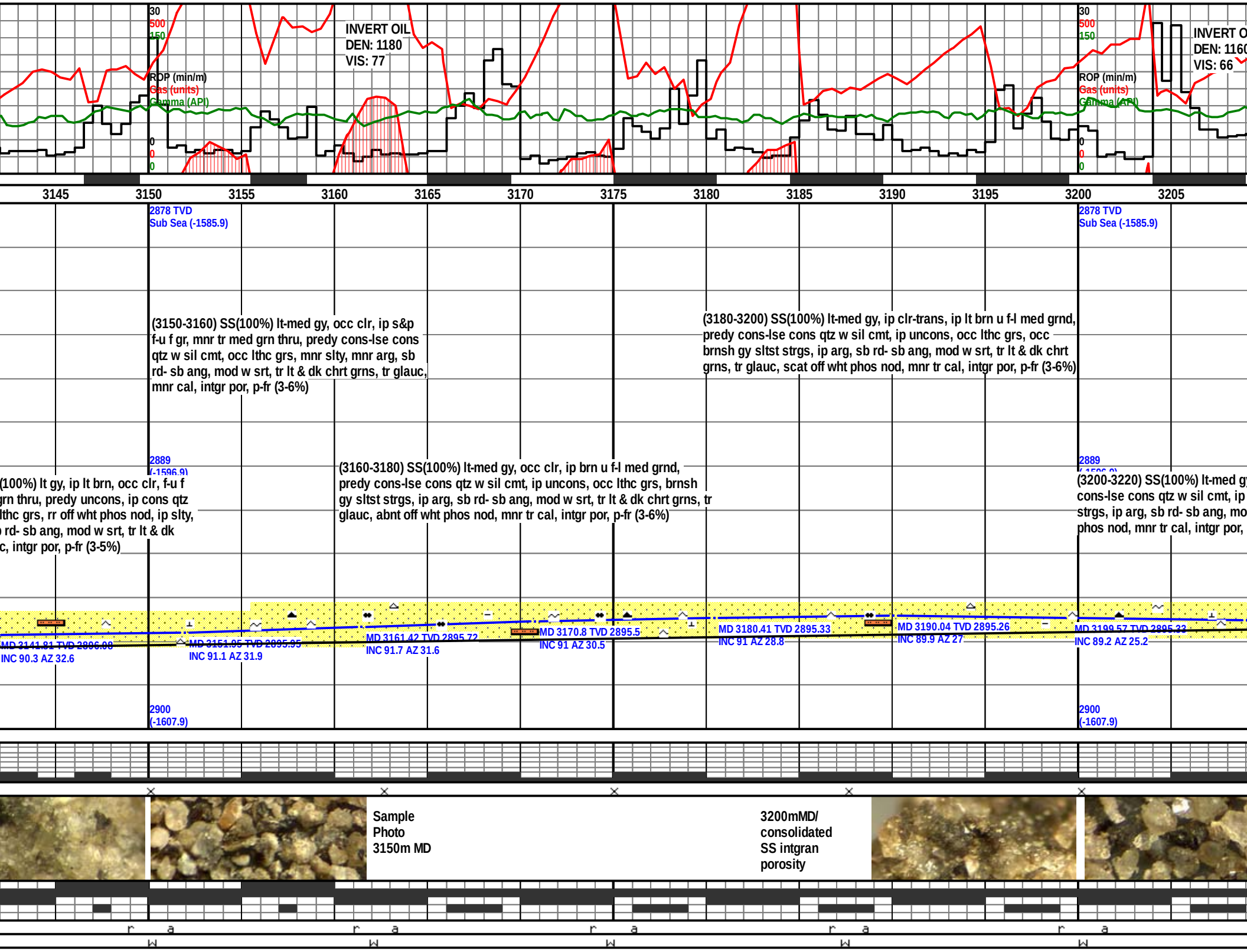


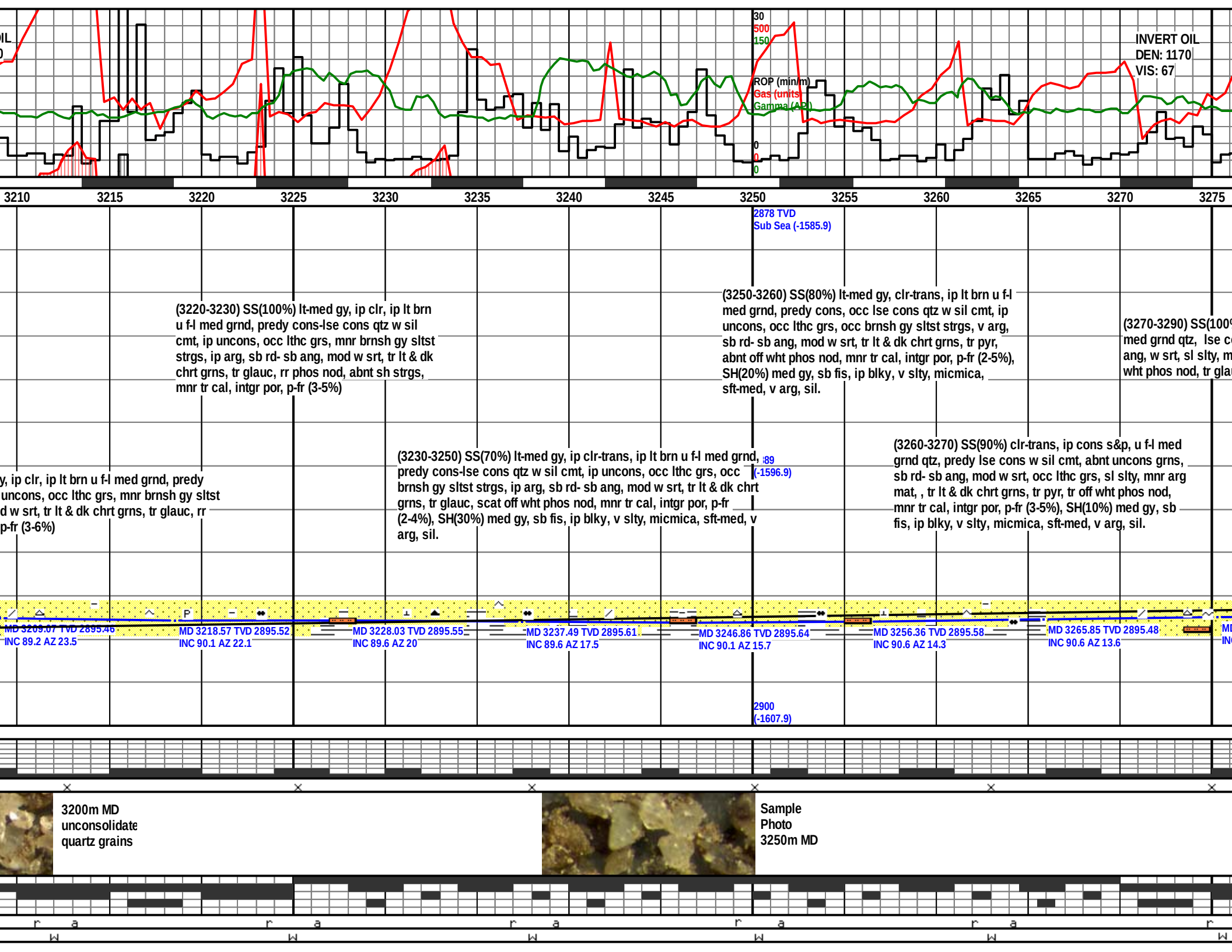
Rft
Sidewall

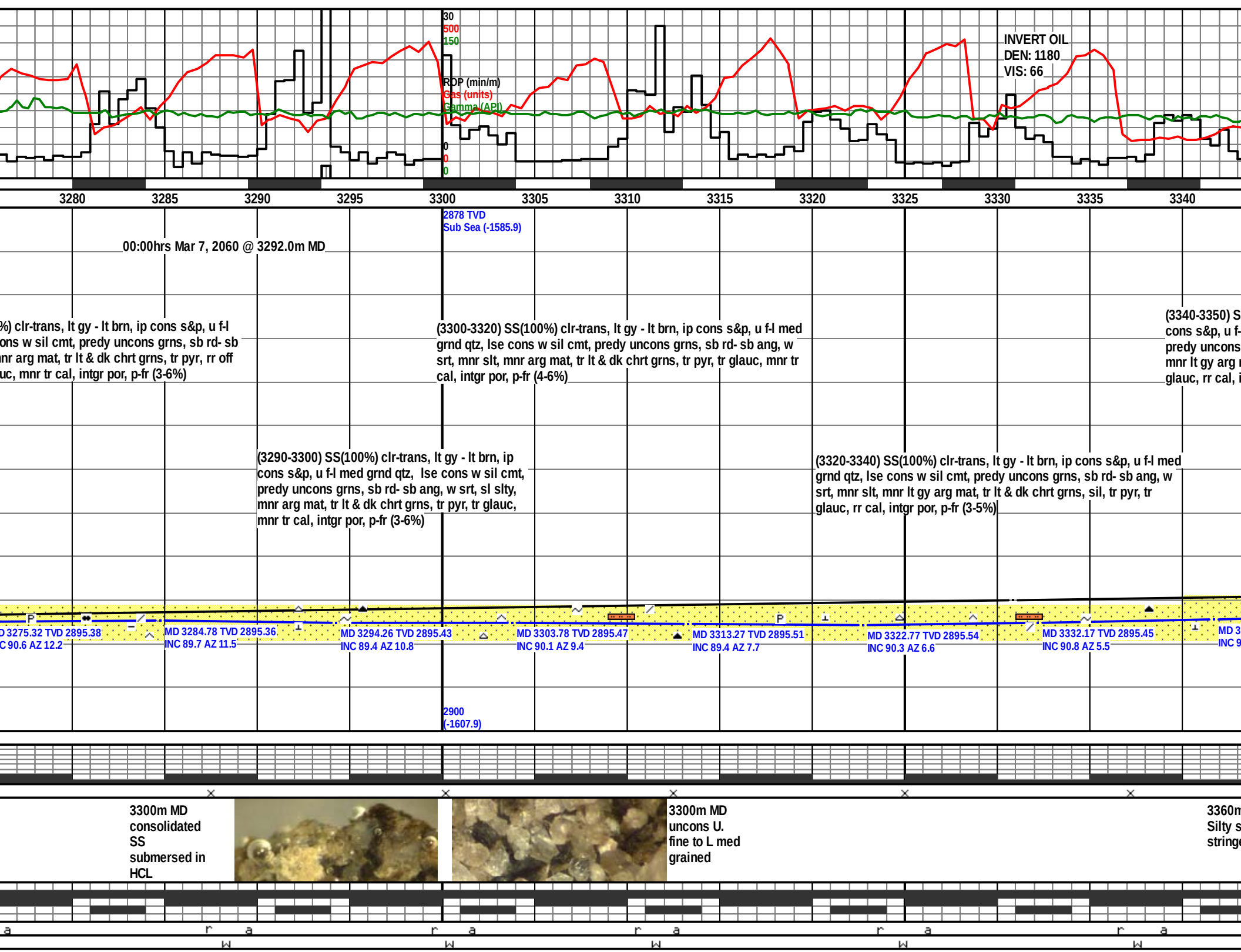

Data Curves
ROP (min/m)
Gas (units)
Gamma (API)
30
500
150
0
0
0
Slide/Rotate
Depth
50
2955
2960
2965
2970
2975
2980
2985
2990
2995
3000
3005
Well Bore Cross Section
2878 TVD
Sub Sea (-1585.9)
MD 2954.9 TVD 2870.68
INC 59.1 AZ 43.2
MD 2964.4 TVD 2875.53
INC 59.5 AZ 43.9
MD 2972.5 TVD 2879.64
INC 59.5 AZ 43.9
(MEASURED DEPTH LOG)
HORIZONTAL SECTION
Oil Company et al Foothills 06-06
RIG - Oil Drillers
KB: 1292.10m
GE: 1286.60m
ICP LANDING @ (ICP) 2934.0mMD,
2859.48mTVD, -1548.9 SSL
ICP Reached On Friday February
24, 2060, @ 20:40hr
Intermediate Casing Set @ 2931.35m MD,
161.70mm (ID), 34.3kg/m, (1944.67m)
159.40mm (ID), 38.69kg/m, (972.13m)
Drill out intermediate Casing:
February 29, 2060 @ 03:45hr
2900
(-1607.9)
(2970-2985) SH(80%) lt-med gy, sb fis, ip
blky, v slty, micmica, tr pyr, frm sltst strgs,
SS(20%) lt-med gy, f-u f gr, predy uncons
qtz grs, mnr lthc grs, sb rd- sb ang, mod w
srt, ip calc, intgr por, p.
MD 2982.01 TVD 2884.26
INC 62.3 AZ 43.2
MD 2991.52 TVD 2888.33
INC 67 AZ 42.8
(2985-2995) SH(60%) lt-med gy, sb fis, ip blky, v
slty, micmica, tr pyr, frm sltst strgs, SS(20%)
lt-med gy, f-u f gr, predy uncons qtz grs, mnr lthc
grs, sb rd- sb ang, mod w srt, ip calc, p por,
SLTST(20%) lt-med gy, ip dk brn, predy v f qtz grs,
v arg, ip calc, w cons, silc.
00:00hrs Mar 2, 2060 @ 2996.0m MD
2878 TVD
Sub Sea (-1585.9)
(3000-3010) SS(100%) lt-med gy
f-u f gr, tr med grn, predy uncon
grs, ip arg, sl slty, sb rd- sb ang
calc, rr lt brn o stn, intgr por, p-f
2889
(-1596.9)
MD 3000.93 TVD 2891.57
INC 72.7 AZ 41.8
(2995-3000) SS(80%) lt-med gy, ip lt brn, occ cl
f-u f gr, predy uncons qtz grs, mnr lthc grs, sb
sb ang, mod w srt, ip calc, intgr por, p-fr SH(20
lt-med gy, sb fis, ip blky, v slty, micmica, tr pyr
frm sltst strgs
2900
(-1607.9)
Oil Shows
Porosity
24%
18%
12%
6%
Porosity Type
Photos
Sample
Photo
3005m M
Grain Size
1/16 mm
1/8 mm
1/4 mm
1/2 mm
1 mm
Rounding
Sorting

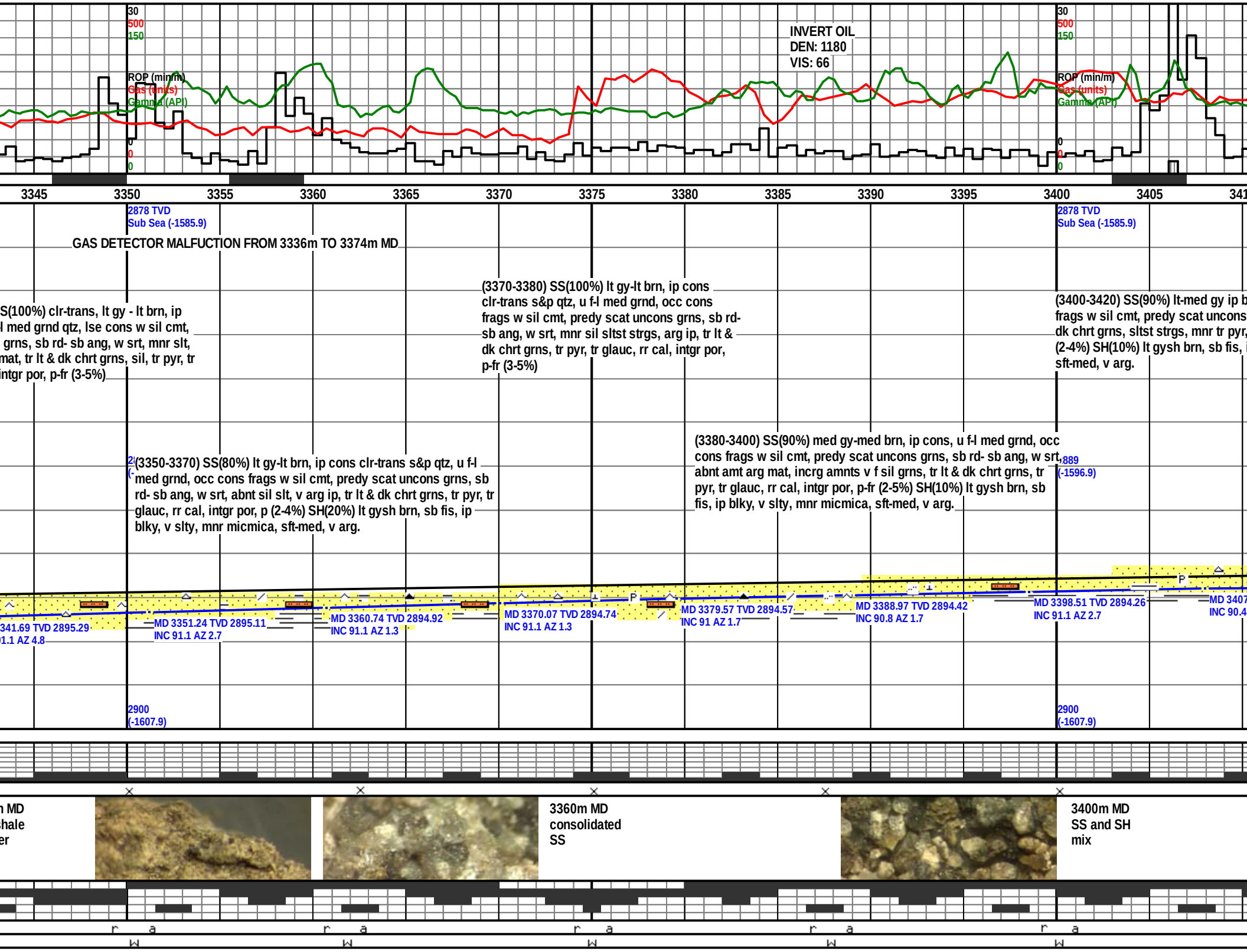

INVERT OIL
DEN: 1165
VIS: 65
30
500
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
Bit # 7RR1
156mm Smith:
MSI513VOBPX
IN: 3058m MD
OUT: 3124m MD
INVERT OIL
DEN: 1180
VIS: 60
3010
3015
3020
3025
3030
3035
3040
3045
3050
3055
3060
3065
3070
2878 TVD
Sub Sea (-1585.9)
ROTATING HERE CAUSED
LOST BUILD
00:00hrs Mar 3, 2060 @ 3058.0m MD
, ip lt brn, occ clr,
s qtz, mnr lthc
, mod w srt, ip
r, (3-6%)
(3030-3040) SS(100%) lt-med gy, ip lt-med brn, occ clr, f-u f gr, tr med grn, predy uncons qtz, mnr lthc grs, ip arg, slty ip, sb rd- sb ang, mod w srt, lt & dk chrt grns, ip v calc, intgr por, p-fr (3-6%)
(3050-3070) SS(100%) lt-med gy, ip lt brn, occ clr, f-u f gr, tr med grn, predy uncons qtz, lthc grs, abnt off wht-lt brn arg mat, v slty ip, sb rd- sb ang, mod w srt, lt & dk chrt grns, v calc, tr lmst strgs, intgr por, p-fr (2-5%)
(3010-3020) SS(100%) lt-med gy, ip lt brn, occ clr, f-u f gr, tr med grn, predy uncons qtz, mnr lthc grs, ip arg, sl slty, sb rd- sb ang, mod w srt, occ lt & dk chrt grns, ip calc, rr lt brn o stn, intgr por, p-fr (3-6%)
2889
(-1596.9)
(3020-3030) SS(100%) lt-med gy, ip lt brn, occ clr, f-u f gr, tr med grn, predy uncons qtz, mnr lthc grs, ip arg, sl slty, sb rd- sb ang, mod w srt, occ lt & dk chrt grns, sl calc, intgr por, p-fr (4-7%)
(3040-3050) SS(100%) lt-med gy, ip lt brn, occ clr, f-u f gr, tr med grn, predy uncons qtz, lthc grs, bcmg arg, v slty ip, sb rd- sb ang, mod w srt, occ lt & dk chrt grns, bcmg v calc, intgr por, p-fr (2-5%)
(3070-3090) SS(1
scat med grn thru
brn arg mat, slty
v calc, ip lmy, in
r,
rd-
%)
MD 3010.33 TVD 2893.91
INC 78.5 AZ 43.2
MD 3019.85 TVD 2895.5
INC 82.3 AZ 44.2
MD 3029.3 TVD 2896.78
INC 82.2 AZ 43.9
MD 3038.79 TVD 2897.83
INC 85 AZ 43.9
MD 3049.62 TVD 2898.4
INC 89 AZ 43.9
2900
(-1607.9)
MD 3059.08 TVD 2898.47
INC 90.1 AZ 43.5
MD 3068.48 TVD 2898.38
INC 91 AZ 43.2
MD
Sample
Photo
3050m MD

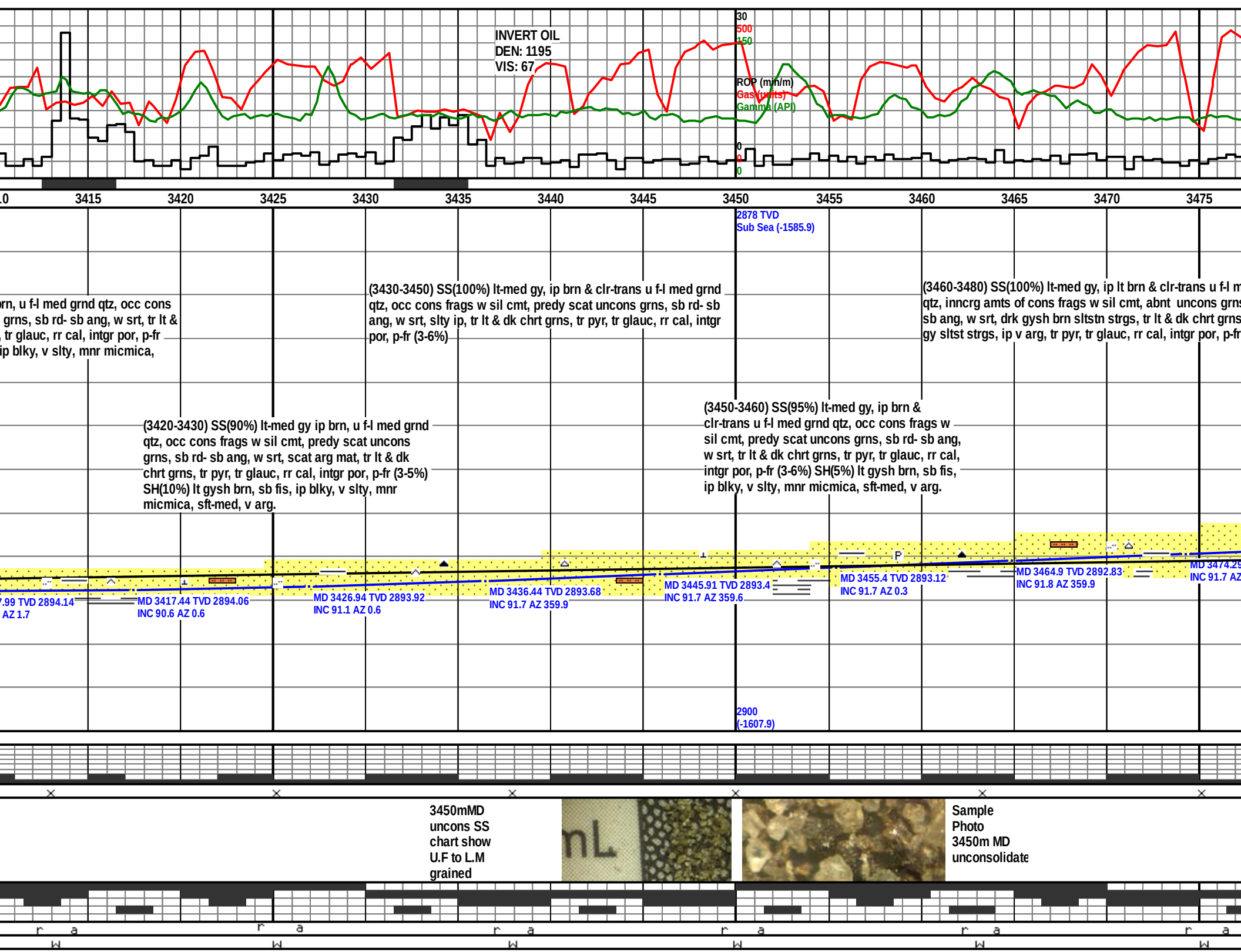

30
50
150
ROP (minm)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1180
VIS: 65
Bit # 7RR2
156mm Smith:
STX20
IN: 3124m MD
OUT: 3678m MD
3075
3080
3085
3090
3095
3100
3105
3110
3115
3120
3125
3130
3135
3140
2878 TVD
Sub Sea (-1585.9)
00:00hrs Mar 4, 2060 @ 3101.0m MD
00:00hrs Mar 5, 2012 @ 3124.0m MD
00:00hrs Mar 6, 2012 @ 3132.0m MD
(3090-3100) SS(100%) lt-med gy, ip lt brn, scat clr grns, f-u f gr, scat med grn thru, predy uncons qtz, occ lthc grs, abnt off wht-lt brn arg mat, slty ip, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, v calc, ip lmy, intgr por, p-fr (3-6%)
(3120-3140) SS(100%) lt gy, ip lt brn, occ clr, f-u f gr, mnr tr med grn thru, predy uncons, ip cons qtz w cal cmt, occ lthc grs, rr off wht phos nod, ip slty, sl arg, ip sil, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, v calc, intgr por, p-fr (3-5%)
2889
(-1596.9)
(3100-3120) SS(100%) lt-med gy, rr lt brn, occ clr, f-u f gr, tr med grn thru, predy uncons, ip lse cons qtz, occ lthc grs, scat off wht phos nod, bcmg slty, ip arg, sil, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, v calc, sl lmy, intgr por, p-fr (2-5%)
00%) lt-med gy, ip lt brn, scat clr grns, f-u f gr,
u, predy uncons qtz, occ lthc grs, abnt off wht-lt
ip, sb rd- sb ang, mod w srt, tr lt & dk chrt grns,
tgr por, p-fr (3-5%)
(3140-3150) SS
gr, mnr tr med g
w cal cmt, occ
sl arg, ip sil, sb
chrt grns, v cal
MD 3087.43 TVD 2897.74
INC 93.1 AZ 41.1
MD 3096.88 TVD 2897.22
INC 93.3 AZ 40
MD 3106.19 TVD 2896.74
INC 92.6 AZ 38.6
MD 3113.61 TVD 2896.48
INC 91.3 AZ 37.5
MD 3122.92 TVD 2896.27
INC 91.3 AZ 35.8
MD 3132.35 TVD 2896.13
INC 90.4 AZ 34.4
2900
(-1607.9)
Sample
Photo
3100m MD
3150mMD
consolidated
SS /silicious
cmt

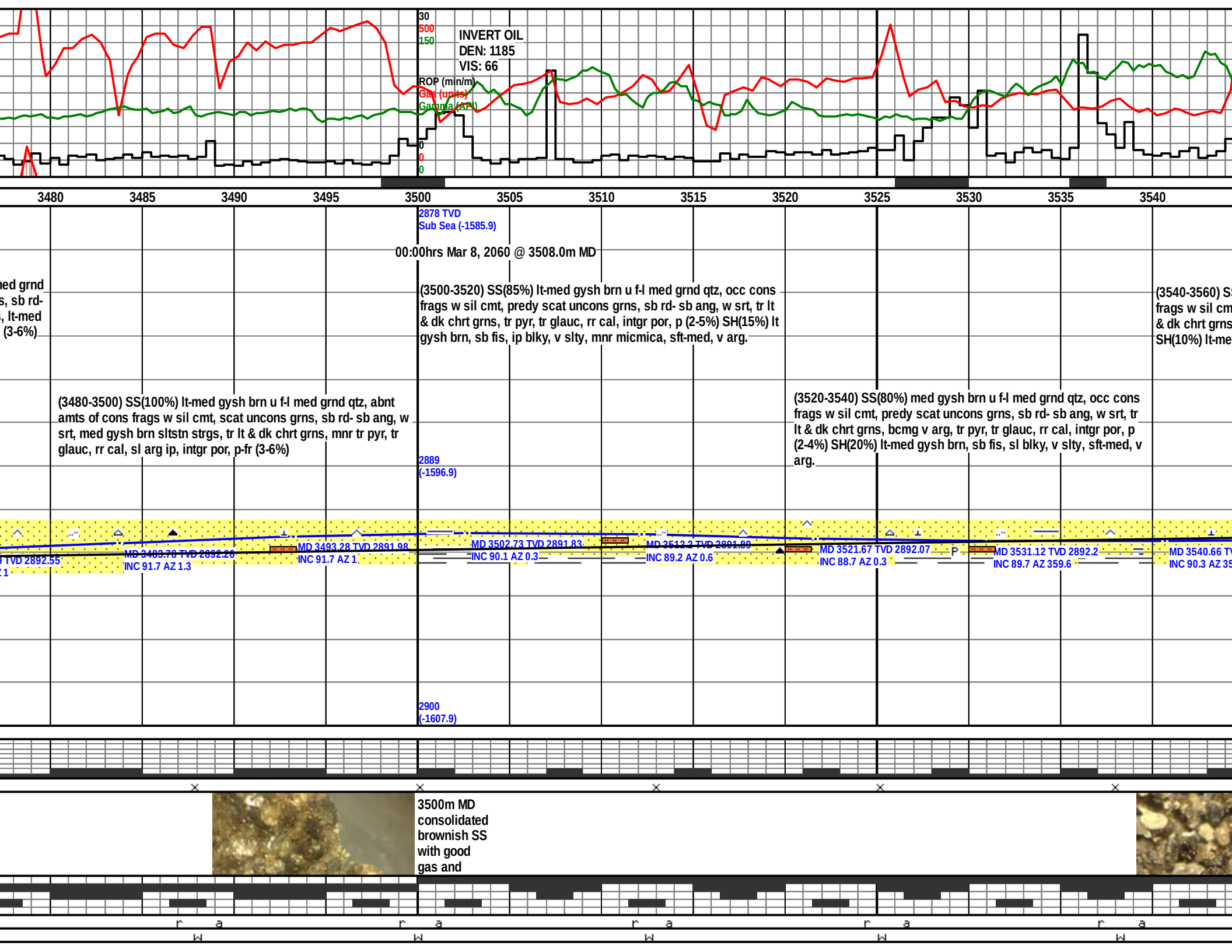

30
500
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1180
VIS: 77
INVERT O
DEN: 1160
VIS: 66
3145
3150
3155
3160
3165
3170
3175
3180
3185
3190
3195
3200
3205
2878 TVD
Sub Sea (-1585.9)
(3150-3160) SS(100%) lt-med gy, occ clr, ip s&p f-u f gr, mnr tr med grn thru, predy cons-lse cons qtz w sil cmt, occ lthc grs, mnr slty, mnr arg, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, tr glauc, mnr cal, intgr por, p-fr (3-6%)
(3180-3200) SS(100%) lt-med gy, ip clr-trans, ip lt brn u f-l med grnd, predy cons-lse cons qtz w sil cmt, ip uncons, occ lthc grs, occ brnsh gy sltst strgs, ip arg, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, tr glauc, scat off wht phos nod, mnr tr cal, intgr por, p-fr (3-6%)
2889
(-1596.9)
(100%) lt gy, ip lt brn, occ clr, f-u f
grn thru, predy uncons, ip cons qtz
lthc grs, rr off wht phos nod, ip slty,
rd- sb ang, mod w srt, tr lt & dk
c, intgr por, p-fr (3-5%)
(3160-3180) SS(100%) lt-med gy, occ clr, ip brn u f-l med grnd, predy cons-lse cons qtz w sil cmt, ip uncons, occ lthc grs, brnsh gy sltst strgs, ip arg, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, tr glauc, abnt off wht phos nod, mnr tr cal, intgr por, p-fr (3-6%)
(3200-3220) SS(100%) lt-med g
cons-lse cons qtz w sil cmt, ip
strgs, ip arg, sb rd- sb ang, mo
phos nod, mnr tr cal, intgr por,
MD 3141.81 TVD 2896.08
INC 90.3 AZ 32.6
MD 3151.95 TVD 2895.95
INC 91.1 AZ 31.9
MD 3161.42 TVD 2895.72
INC 91.7 AZ 31.6
MD 3170.8 TVD 2895.5
INC 91 AZ 30.5
MD 3180.41 TVD 2895.33
INC 91 AZ 28.8
MD 3190.04 TVD 2895.26
INC 89.9 AZ 27
MD 3199.57 TVD 2895.33
INC 89.2 AZ 25.2
2900
(-1607.9)
Sample
Photo
3150m MD
3200mMD/
consolidated
SS intgran
porosity

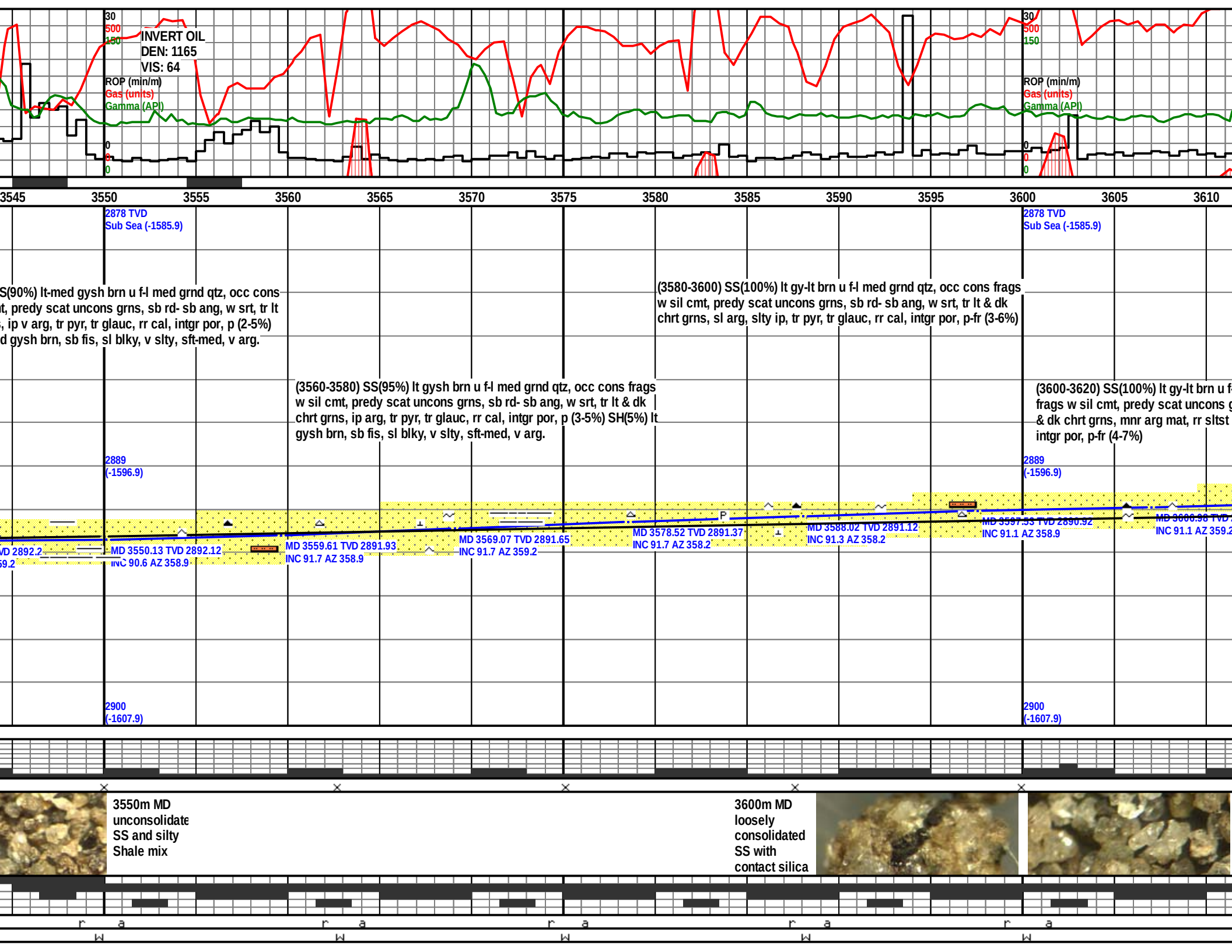

30
500
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1170
VIS: 67
3210
3215
3220
3225
3230
3235
3240
3245
3250
3255
3260
3265
3270
3275
2878 TVD
Sub Sea (-1585.9)
(3220-3230) SS(100%) lt-med gy, ip clr, ip lt brn u f-l med grnd, predy cons-lse cons qtz w sil cmt, ip uncons, occ lthc grs, mnr brnsh gy sltst strgs, ip arg, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, tr glauc, rr phos nod, abnt sh strgs, mnr tr cal, intgr por, p-fr (3-5%)
(3250-3260) SS(80%) lt-med gy, clr-trans, ip lt brn u f-l med grnd, predy cons, occ lse cons qtz w sil cmt, ip uncons, occ lthc grs, occ brnsh gy sltst strgs, v arg, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, tr pyr, abnt off wht phos nod, mnr tr cal, intgr por, p-fr (2-5%), SH(20%) med gy, sb fis, ip blky, v slty, micmica, sft-med, v arg, sil.
(3270-3290) SS(100
med grnd qtz, lse c
ang, w srt, sl slty, m
wht phos nod, tr gla
y, ip clr, ip lt brn u f-l med grnd, predy
uncons, occ lthc grs, mnr brnsh gy sltst
d w srt, tr lt & dk chrt grns, tr glauc, rr
p-fr (3-6%)
(3230-3250) SS(70%) lt-med gy, ip clr-trans, ip lt brn u f-l med grnd, predy cons-lse cons qtz w sil cmt, ip uncons, occ lthc grs, occ brnsh gy sltst strgs, ip arg, sb rd- sb ang, mod w srt, tr lt & dk chrt grns, tr glauc, scat off wht phos nod, mnr tr cal, intgr por, p-fr (2-4%), SH(30%) med gy, sb fis, ip blky, v slty, micmica, sft-med, v arg, sil.
89
(-1596.9)
(3260-3270) SS(90%) clr-trans, ip cons s&p, u f-l med grnd qtz, predy lse cons w sil cmt, abnt uncons grns, sb rd- sb ang, mod w srt, occ lthc grs, sl slty, mnr arg mat, , tr lt & dk chrt grns, tr pyr, tr off wht phos nod, mnr tr cal, intgr por, p-fr (3-5%), SH(10%) med gy, sb fis, ip blky, v slty, micmica, sft-med, v arg, sil.
MD 3209.07 TVD 2895.46
INC 89.2 AZ 23.5
MD 3218.57 TVD 2895.52
INC 90.1 AZ 22.1
MD 3228.03 TVD 2895.55
INC 89.6 AZ 20
MD 3237.49 TVD 2895.61
INC 89.6 AZ 17.5
MD 3246.86 TVD 2895.64
INC 90.1 AZ 15.7
MD 3256.36 TVD 2895.58
INC 90.6 AZ 14.3
MD 3265.85 TVD 2895.48
INC 90.6 AZ 13.6
2900
(-1607.9)
3200m MD
unconsolidate
quartz grains
Sample
Photo
3250m MD

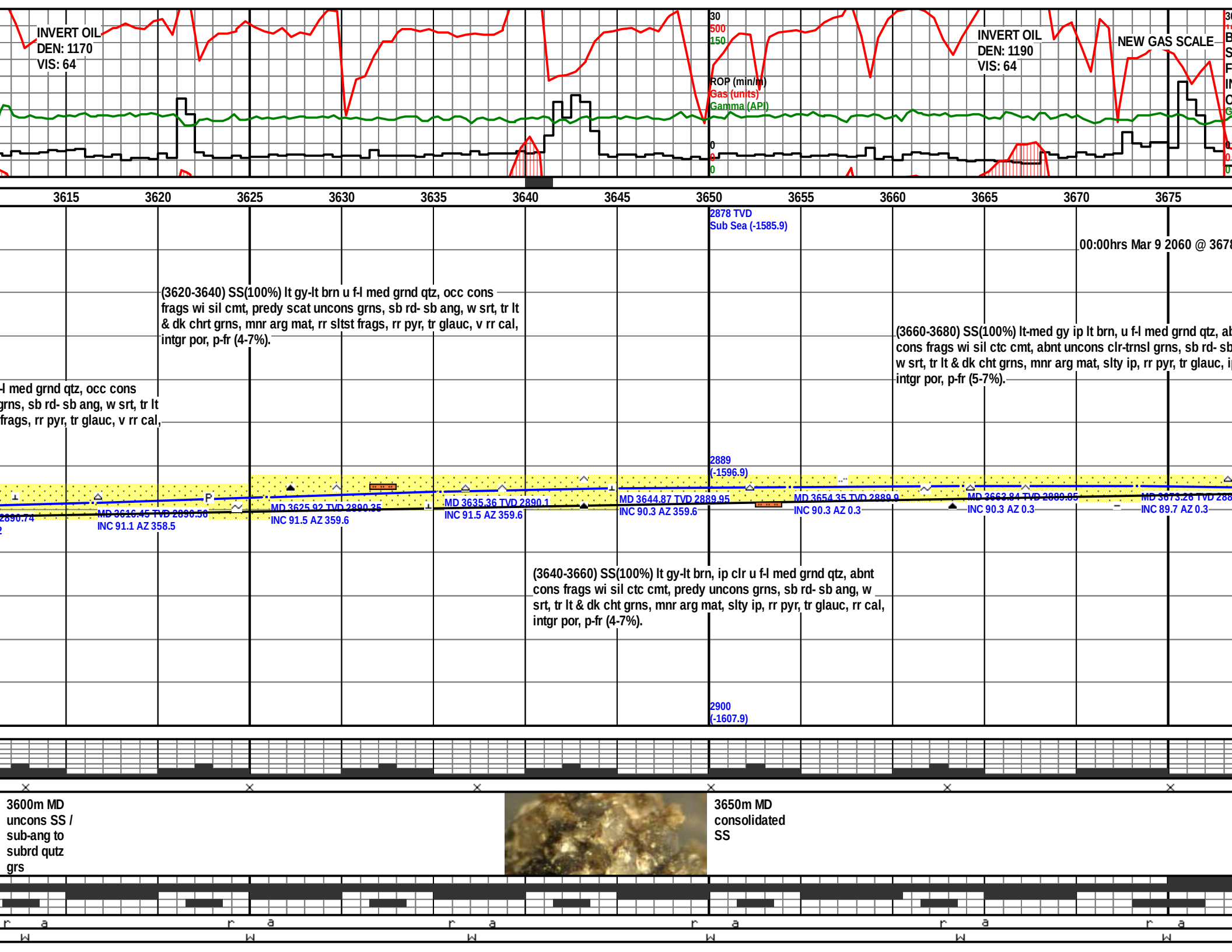

30
500
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1180
VIS: 66
3280
3285
3290
3295
3300
3305
3310
3315
3320
3325
3330
3335
3340
2878 TVD
Sub Sea (-1585.9)
00:00hrs Mar 7, 2060 @ 3292.0m MD
%) clr-trans, lt gy - lt brn, ip cons s&p, u f-l
ons w sil cmt, predy uncons grns, sb rd- sb
nr arg mat, tr lt & dk chrt grns, tr pyr, rr off
uc, mnr tr cal, intgr por, p-fr (3-6%)
(3300-3320) SS(100%) clr-trans, lt gy - lt brn, ip cons s&p, u f-l med grnd qtz, lse cons w sil cmt, predy uncons grns, sb rd- sb ang, w srt, mnr slt, mnr arg mat, tr lt & dk chrt grns, tr pyr, tr glauc, mnr tr cal, intgr por, p-fr (4-6%)
(3340-3350) S
cons s&p, u f-
predy uncons
mnr lt gy arg
glauc, rr cal, i
(3290-3300) SS(100%) clr-trans, lt gy - lt brn, ip cons s&p, u f-l med grnd qtz, lse cons w sil cmt, predy uncons grns, sb rd- sb ang, w srt, sl slty, mnr arg mat, tr lt & dk chrt grns, tr pyr, tr glauc, mnr tr cal, intgr por, p-fr (3-6%)
(3320-3340) SS(100%) clr-trans, lt gy - lt brn, ip cons s&p, u f-l med grnd qtz, lse cons w sil cmt, predy uncons grns, sb rd- sb ang, w srt, mnr slt, mnr lt gy arg mat, tr lt & dk chrt grns, sil, tr pyr, tr glauc, rr cal, intgr por, p-fr (3-5%)
D 3275.32 TVD 2895.38
C 90.6 AZ 12.2
MD 3284.78 TVD 2895.36
INC 89.7 AZ 11.5
MD 3294.26 TVD 2895.43
INC 89.4 AZ 10.8
MD 3303.78 TVD 2895.47
INC 90.1 AZ 9.4
MD 3313.27 TVD 2895.51
INC 89.4 AZ 7.7
MD 3322.77 TVD 2895.54
INC 90.3 AZ 6.6
MD 3332.17 TVD 2895.45
INC 90.8 AZ 5.5
MD 3
INC 9
2900
(-1607.9)
3300m MD
consolidated
SS
submersed in
HCL
3300m MD
uncons U.
fine to L med
grained
3360m
Silty s
stringe


30
500
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1180
VIS: 66
3345
3350
3355
3360
3365
3370
3375
3380
3385
3390
3395
3400
3405
2878 TVD
Sub Sea (-1585.9)
GAS DETECTOR MALFUCTION FROM 3336m TO 3374m MD
S(100%) clr-trans, lt gy - lt brn, ip
l med grnd qtz, lse cons w sil cmt,
grns, sb rd- sb ang, w srt, mnr slt,
mat, tr lt & dk chrt grns, sil, tr pyr, tr
intgr por, p-fr (3-5%)
(3350-3370) SS(80%) lt gy-lt brn, ip cons clr-trans s&p qtz, u f-l med grnd, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, abnt sil slt, v arg ip, tr lt & dk chrt grns, tr pyr, tr glauc, rr cal, intgr por, p (2-4%) SH(20%) lt gysh brn, sb fis, ip blky, v slty, mnr micmica, sft-med, v arg.
(3370-3380) SS(100%) lt gy-lt brn, ip cons clr-trans s&p qtz, u f-l med grnd, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, mnr sil sltst strgs, arg ip, tr lt & dk chrt grns, tr pyr, tr glauc, rr cal, intgr por, p-fr (3-5%)
(3380-3400) SS(90%) med gy-med brn, ip cons, u f-l med grnd, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, abnt amt arg mat, incrg amnts v f sil grns, tr lt & dk chrt grns, tr pyr, tr glauc, rr cal, intgr por, p-fr (2-5%) SH(10%) lt gysh brn, sb fis, ip blky, v slty, mnr micmica, sft-med, v arg.
(3400-3420) SS(90%) lt-med gy ip b
frags w sil cmt, predy scat uncons
dk chrt grns, sltst strgs, mnr tr pyr,
(2-4%) SH(10%) lt gysh brn, sb fis,
sft-med, v arg.
889
(-1596.9)
341.69 TVD 2895.29
1.1 AZ 4.8
MD 3351.24 TVD 2895.11
INC 91.1 AZ 2.7
MD 3360.74 TVD 2894.92
INC 91.1 AZ 1.3
MD 3370.07 TVD 2894.74
INC 91.1 AZ 1.3
MD 3379.57 TVD 2894.57
INC 91 AZ 1.7
MD 3388.97 TVD 2894.42
INC 90.8 AZ 1.7
MD 3398.51 TVD 2894.26
INC 91.1 AZ 2.7
MD 3407
INC 90.4
2900
(-1607.9)
m MD
shale
er
3360m MD
consolidated
SS
3400m MD
SS and SH
mix


INVERT OIL
DEN: 1195
VIS: 67
30
500
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
10
3415
3420
3425
3430
3435
3440
3445
3450
3455
3460
3465
3470
3475
2878 TVD
Sub Sea (-1585.9)
rn, u f-l med grnd qtz, occ cons
grns, sb rd- sb ang, w srt, tr lt &
tr glauc, rr cal, intgr por, p-fr
ip blky, v slty, mnr micmica,
(3430-3450) SS(100%) lt-med gy, ip brn & clr-trans u f-l med grnd qtz, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, slty ip, tr lt & dk chrt grns, tr pyr, tr glauc, rr cal, intgr por, p-fr (3-6%)
(3460-3480) SS(100%) lt-med gy, ip lt brn & clr-trans u f-l m
qtz, inncrg amts of cons frags w sil cmt, abnt uncons grns
sb ang, w srt, drk gysh brn sltstn strgs, tr lt & dk chrt grns
gy sltst strgs, ip v arg, tr pyr, tr glauc, rr cal, intgr por, p-fr
(3420-3430) SS(90%) lt-med gy ip brn, u f-l med grnd qtz, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, scat arg mat, tr lt & dk chrt grns, tr pyr, tr glauc, rr cal, intgr por, p-fr (3-5%) SH(10%) lt gysh brn, sb fis, ip blky, v slty, mnr micmica, sft-med, v arg.
(3450-3460) SS(95%) lt-med gy, ip brn & clr-trans u f-l med grnd qtz, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, tr pyr, tr glauc, rr cal, intgr por, p-fr (3-6%) SH(5%) lt gysh brn, sb fis, ip blky, v slty, mnr micmica, sft-med, v arg.
.99 TVD 2894.14
AZ 1.7
MD 3417.44 TVD 2894.06
INC 90.6 AZ 0.6
MD 3426.94 TVD 2893.92
INC 91.1 AZ 0.6
MD 3436.44 TVD 2893.68
INC 91.7 AZ 359.9
MD 3445.91 TVD 2893.4
INC 91.7 AZ 359.6
MD 3455.4 TVD 2893.12
INC 91.7 AZ 0.3
MD 3464.9 TVD 2892.83
INC 91.8 AZ 359.9
MD 3474.25
INC 91.7 AZ
2900
(-1607.9)
3450mMD
uncons SS
chart show
U.F to L.M
grained
Sample
Photo
3450m MD
unconsolidate


30
500
150
INVERT OIL
DEN: 1185
VIS: 66
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
3480
3485
3490
3495
3500
3505
3510
3515
3520
3525
3530
3535
3540
2878 TVD
Sub Sea (-1585.9)
00:00hrs Mar 8, 2060 @ 3508.0m MD
med grnd
s, sb rd-
, lt-med
(3-6%)
(3500-3520) SS(85%) lt-med gysh brn u f-l med grnd qtz, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, tr pyr, tr glauc, rr cal, intgr por, p (2-5%) SH(15%) lt gysh brn, sb fis, ip blky, v slty, mnr micmica, sft-med, v arg.
(3540-3560) S
frags w sil cm
& dk chrt grns
SH(10%) lt-me
(3480-3500) SS(100%) lt-med gysh brn u f-l med grnd qtz, abnt amts of cons frags w sil cmt, scat uncons grns, sb rd- sb ang, w srt, med gysh brn sltstn strgs, tr lt & dk chrt grns, mnr tr pyr, tr glauc, rr cal, sl arg ip, intgr por, p-fr (3-6%)
(3520-3540) SS(80%) med gysh brn u f-l med grnd qtz, occ cons frags w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, bcmg v arg, tr pyr, tr glauc, rr cal, intgr por, p (2-4%) SH(20%) lt-med gysh brn, sb fis, sl blky, v slty, sft-med, v arg.
2889
(-1596.9)
TVD 2892.55
MD 3493.78 TVD 2892.26
INC 91.7 AZ 1.3
MD 3493.28 TVD 2891.98
INC 91.7 AZ 1
MD 3502.73 TVD 2891.83
INC 90.1 AZ 0.3
MD 3512.2 TVD 2891.89
INC 89.2 AZ 0.6
MD 3521.67 TVD 2892.07
INC 88.7 AZ 0.3
MD 3531.12 TVD 2892.2
INC 89.7 AZ 359.6
MD 3540.66 T
INC 90.3 AZ 35
2900
(-1607.9)
3500m MD
consolidated
brownish SS
with good
gas and


30
500
150
INVERT OIL
DEN: 1165
VIS: 64
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
3545
3550
3555
3560
3565
3570
3575
3580
3585
3590
3595
3600
3605
3610
2878 TVD
Sub Sea (-1585.9)
S(90%) lt-med gysh brn u f-l med grnd qtz, occ cons
t, predy scat uncons grns, sb rd- sb ang, w srt, tr lt
, ip v arg, tr pyr, tr glauc, rr cal, intgr por, p (2-5%)
d gysh brn, sb fis, sl blky, v slty, sft-med, v arg.
(3560-3580) SS(95%) lt gysh brn u f-l med grnd qtz, occ cons frags
w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, tr lt & dk
chrt grns, ip arg, tr pyr, tr glauc, rr cal, intgr por, p (3-5%) SH(5%) lt
gysh brn, sb fis, sl blky, v slty, sft-med, v arg.
(3580-3600) SS(100%) lt gy-lt brn u f-l med grnd qtz, occ cons frags
w sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, tr lt & dk
chrt grns, sl arg, slty ip, tr pyr, tr glauc, rr cal, intgr por, p-fr (3-6%)
(3600-3620) SS(100%) lt gy-lt brn u f
frags w sil cmt, predy scat uncons g
& dk chrt grns, mnr arg mat, rr sltst
intgr por, p-fr (4-7%)
2889
(-1596.9)
2900
(-1607.9)
MD 2892.2
59.2
MD 3550.13 TVD 2892.12
INC 90.6 AZ 358.9
MD 3559.61 TVD 2891.93
INC 91.7 AZ 358.9
MD 3569.07 TVD 2891.65
INC 91.7 AZ 359.2
MD 3578.52 TVD 2891.37
INC 91.7 AZ 358.2
MD 3588.02 TVD 2891.12
INC 91.3 AZ 358.2
MD 3597.53 TVD 2890.92
INC 91.1 AZ 358.9
MD 3606.98 TVD
INC 91.1 AZ 359.2
3550m MD
unconsolidate
SS and silty
Shale mix
3600m MD
loosely
consolidated
SS with
contact silica


INVERT OIL
DEN: 1170
VIS: 64
30
500
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1190
VIS: 64
NEW GAS SCALE
3615
3620
3625
3630
3635
3640
3645
3650
3655
3660
3665
3670
3675
2878 TVD
Sub Sea (-1585.9)
00:00hrs Mar 9 2060 @ 3678
(3620-3640) SS(100%) lt gy-lt brn u f-l med grnd qtz, occ cons frags wi sil cmt, predy scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, mnr arg mat, rr sltst frags, rr pyr, tr glauc, v rr cal, intgr por, p-fr (4-7%).
(3660-3680) SS(100%) lt-med gy ip lt brn, u f-l med grnd qtz, ab
cons frags wi sil ctc cmt, abnt uncons clr-trnsl grns, sb rd- sb
w srt, tr lt & dk cht grns, mnr arg mat, slty ip, rr pyr, tr glauc, i
intgr por, p-fr (5-7%).
-l med grnd qtz, occ cons
grns, sb rd- sb ang, w srt, tr lt
frags, rr pyr, tr glauc, v rr cal,
2889
(-1596.9)
MD 3616.45 TVD 2890.56
INC 91.1 AZ 358.5
MD 3625.92 TVD 2890.35
INC 91.5 AZ 359.6
MD 3635.36 TVD 2890.1
INC 91.5 AZ 359.6
MD 3644.87 TVD 2889.95
INC 90.3 AZ 359.6
MD 3654.35 TVD 2889.9
INC 90.3 AZ 0.3
MD 3663.84 TVD 2889.85
INC 90.3 AZ 0.3
MD 3673.26 TVD 288
INC 89.7 AZ 0.3
(3640-3660) SS(100%) lt gy-lt brn, ip clr u f-l med grnd qtz, abnt cons frags wi sil ctc cmt, predy uncons grns, sb rd- sb ang, w srt, tr lt & dk cht grns, mnr arg mat, slty ip, rr pyr, tr glauc, rr cal, intgr por, p-fr (4-7%).
2900
(-1607.9)
3600m MD
uncons SS /
sub-ang to
subrd qutz
grs
3650m MD
consolidated
SS

it # 10 156mm
ecurity:
X54R
N: 3678m MD
UT: XXXXm MD
amma (API)

30
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0

INVERT OIL
DEN: 1195
VIS: 72

3680 3685 3690 3695 3700 3705 3710 3715 3720 3725 3730 3735 3740 3745

8.0m MD

ont
ang,
p calc,

2878 TVD
Sub Sea (-1585.9)

(3700-3720) SS(100%) lt-med gy ip lt brn, u f-l med grnd qtz, abnt cons frags wi sil ctc cmt, abnt uncons clr-trnsl grns, sb rd- sb ang, w srt, tr lt & dk cht grns, mnr arg mat, lt brn sltst strgs, trs of glauc, v calc, ip lmy, intgr por, p-fr (4-7%).

(3740-3750) SS(100%) lt
grnd qtz, abnt cons frag
abnt uncons clr-trnsl gr
& dk cht grns, dk arg m
glauc, v calc, ip lmy, int

2889
(-1596.9)

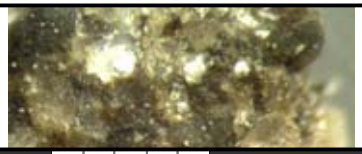
9.85
MD 3682.72 TVD 2889.96
INC 89 AZ 359.6
MD 3692.22 TVD 2890.02
INC 90.3 AZ 358.9
MD 3701.72 TVD 2889.85
INC 91.7 AZ 358.2
MD 3711.2 TVD 2889.58
INC 91.5 AZ 358.2
MD 3720.68 TVD 2889.35
INC 91.3 AZ 358.2
MD 3730.15 TVD 2889.16
INC 91 AZ 358.2
MD 3739.63 TVD 2889.0
INC 90.6 AZ 358.2

(3680-3700) SS(100%) lt-med gy ip lt brn, u f-l med grnd qtz, abnt cons frags wi sil ctc cmt, abnt uncons clr-trnsl grns, sb rd- sb ang, w srt, tr lt & dk cht grns, mnr arg mat, slty ip, rr pyr, rr off wht phos nod, tr glauc, bcmg v calc, lmst strgs, intgr por, p-fr (5-7%).

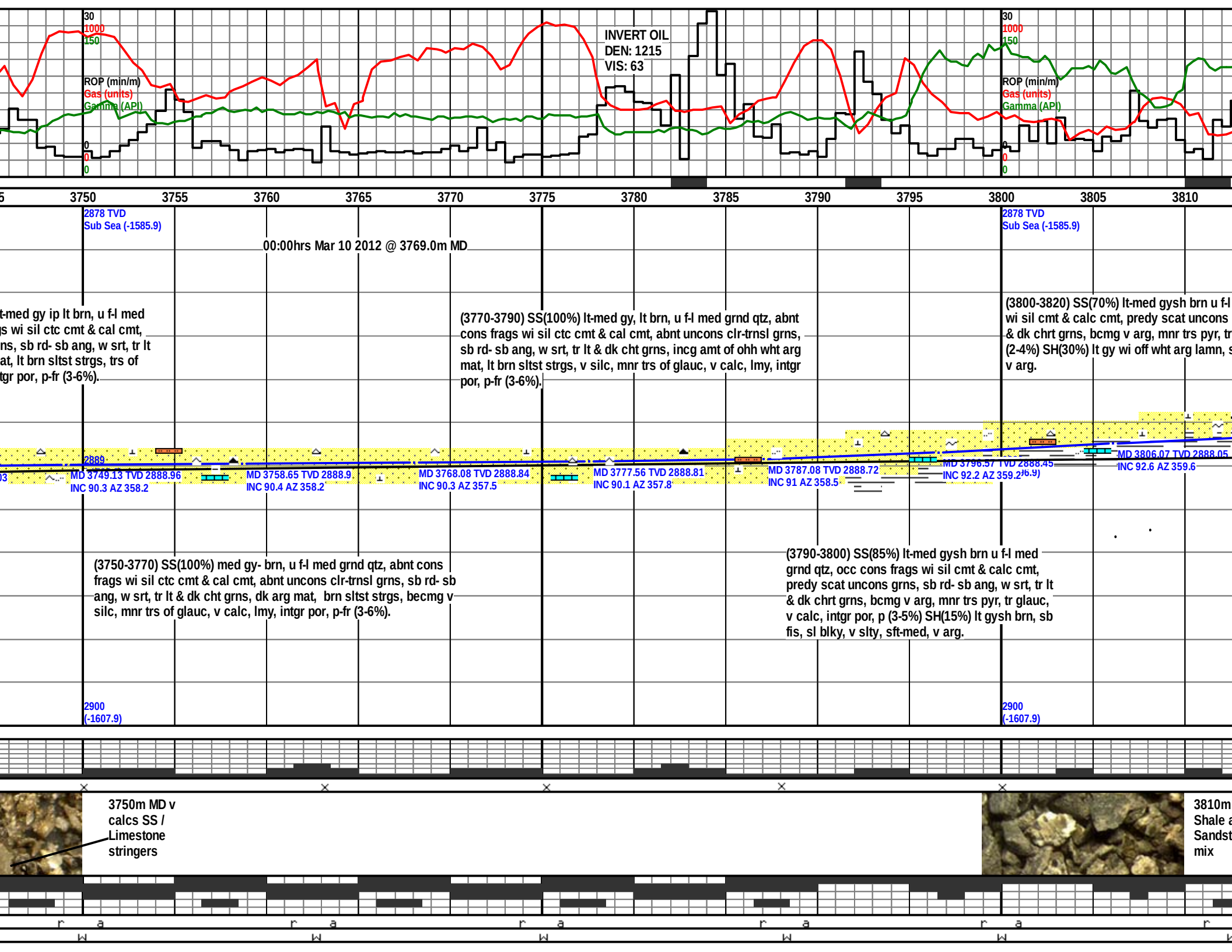
(3720-3740) SS(100%) lt-med gy ip lt brn, u f-l med grnd qtz, abnt cons frags wi sil ctc cmt & cal cmt, abnt uncons clr-trnsl grns, sb rd- sb ang, w srt, tr lt & dk cht grns, dk arg mat, lt brn sltst strgs, trs of glauc, v calc, ip lmy, intgr por, p-fr (3-6%).

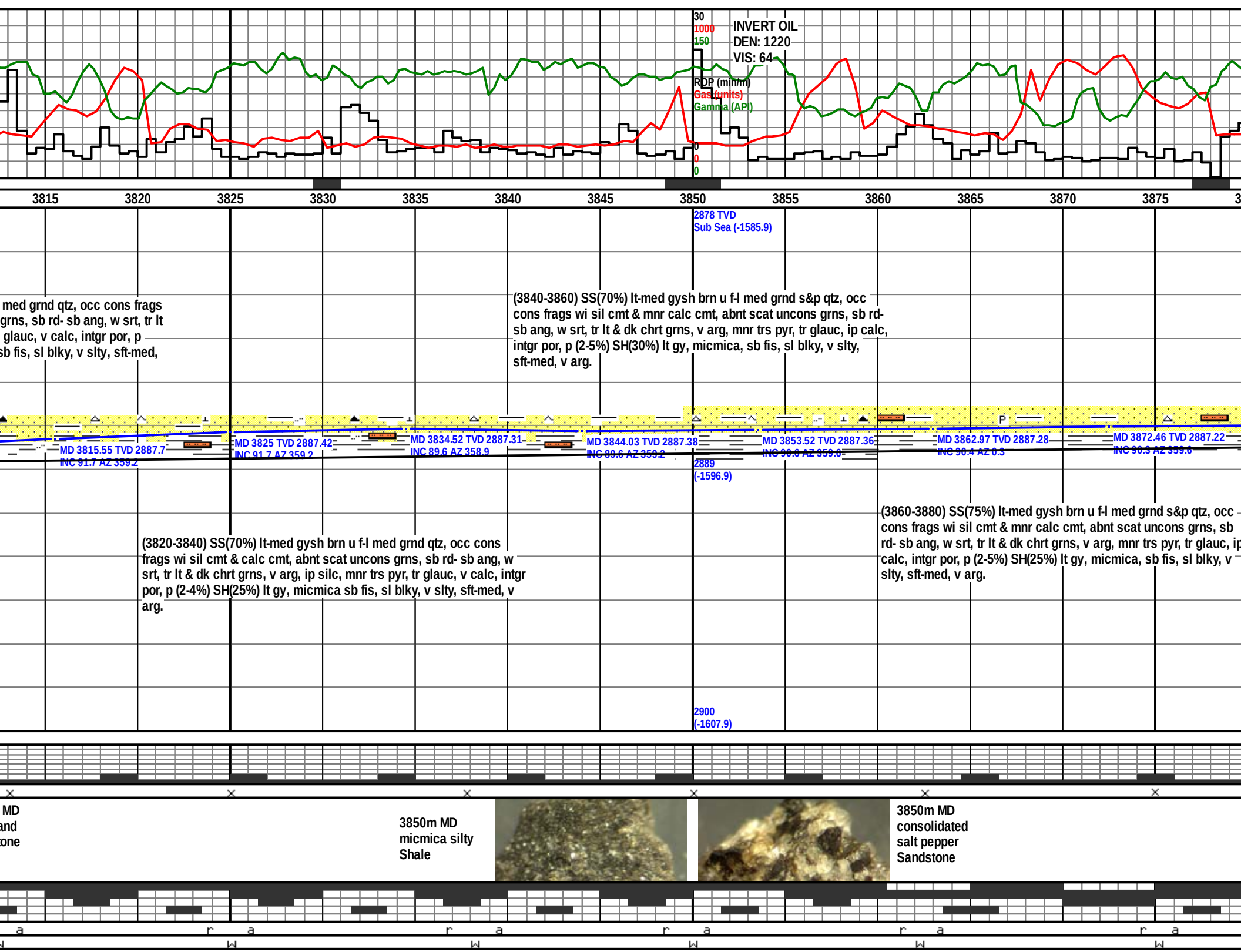
2900
(-1607.9)

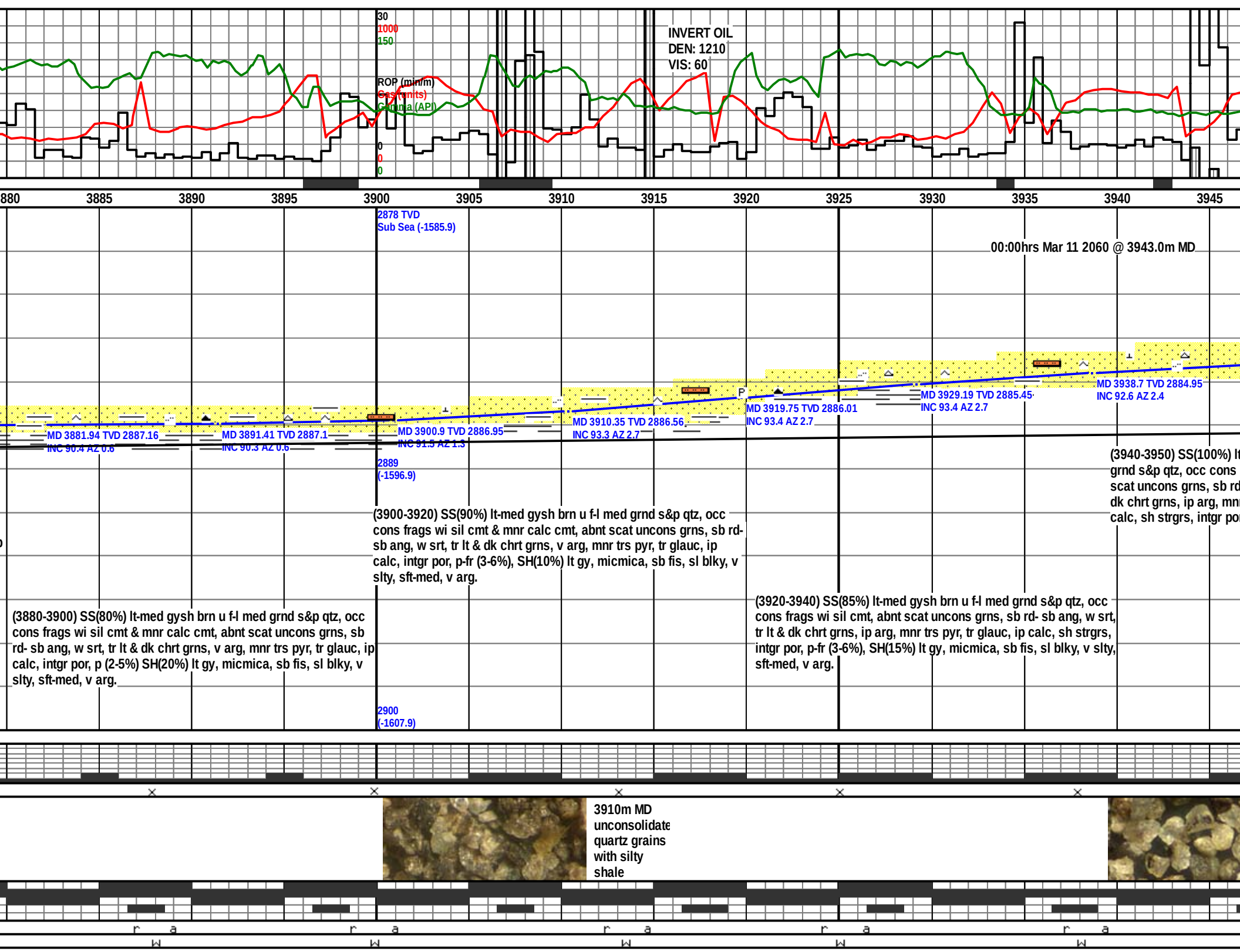
3700m MD
consolidated
Limey
Sandstone

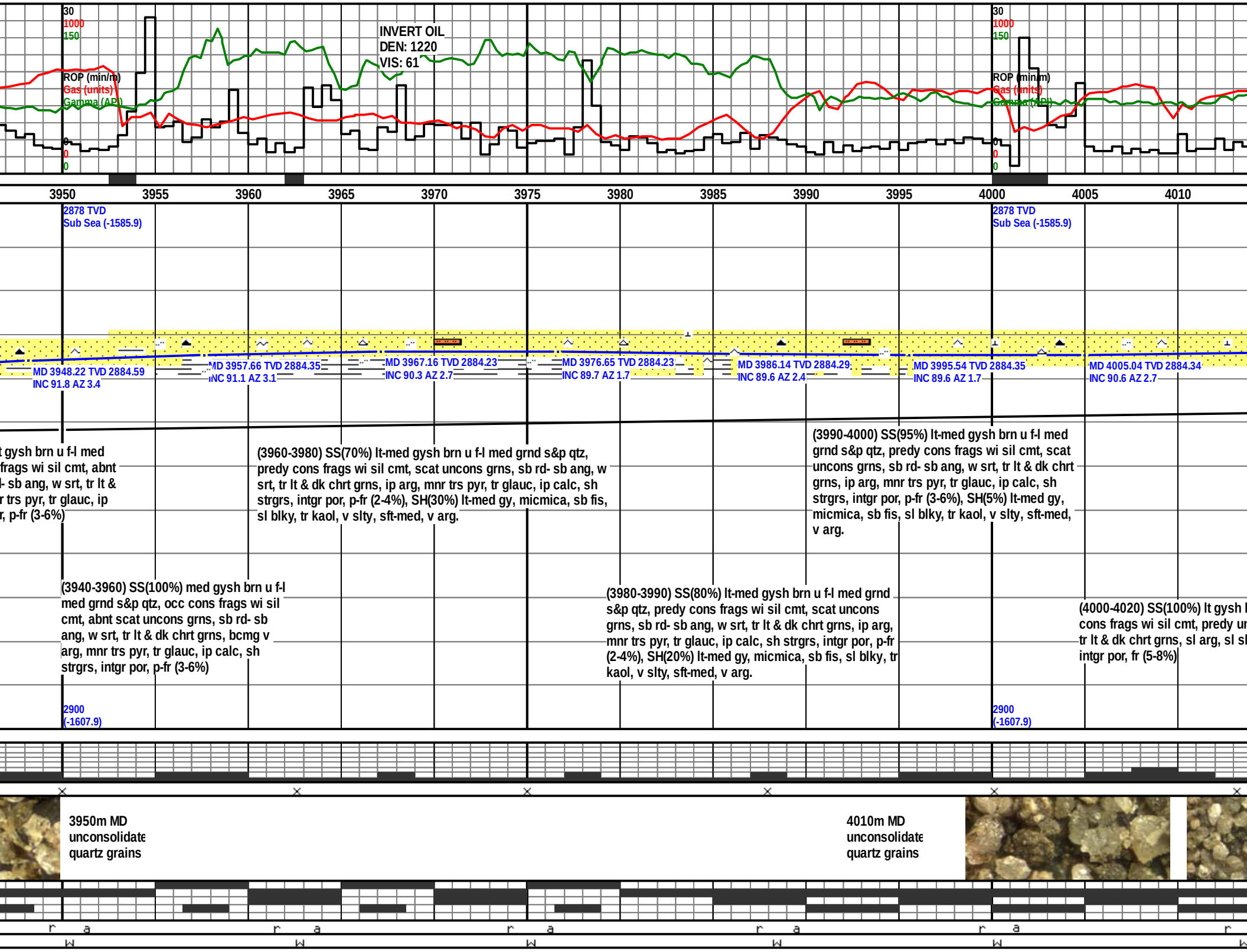


3700m MD
Limestone
stringer


30
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1215
VIS: 63
30
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
3750
3755
3760
3765
3770
3775
3780
3785
3790
3795
3800
3805
3810
2878 TVD
Sub Sea (-1585.9)
00:00hrs Mar 10 2012 @ 3769.0m MD
2878 TVD
Sub Sea (-1585.9)
t-med gy ip lt brn, u f-l med
s wi sil ctc cmt & cal cmt,
ns, sb rd- sb ang, w srt, tr lt
at, lt brn sltst strgs, trs of
tgr por, p-fr (3-6%).
(3770-3790) SS(100%) lt-med gy, lt brn, u f-l med grnd qtz, abnt cons frags wi sil ctc cmt & cal cmt, abnt uncons clr-trnsl grns, sb rd- sb ang, w srt, tr lt & dk cht grns, incg amt of ohh wht arg mat, lt brn sltst strgs, v silc, mnr trs of glauc, v calc, lmy, intgr por, p-fr (3-6%).
(3800-3820) SS(70%) lt-med gysh brn u f-l
wi sil cmt & calc cmt, predy scat uncons
& dk chrt grns, bcmg v arg, mnr trs pyr, tr
(2-4%) SH(30%) lt gy wi off wht arg lamn, s
v arg.
2889
MD 3749.13 TVD 2888.96
INC 90.3 AZ 358.2
MD 3758.65 TVD 2888.9
INC 90.4 AZ 358.2
MD 3768.08 TVD 2888.84
INC 90.3 AZ 357.5
MD 3777.56 TVD 2888.81
INC 90.1 AZ 357.8
MD 3787.08 TVD 2888.72
INC 91 AZ 358.5
MD 3796.57 TVD 2888.45
INC 92.2 AZ 359.2
MD 3806.07 TVD 2888.05
INC 92.6 AZ 359.6
(3750-3770) SS(100%) med gy- brn, u f-l med grnd qtz, abnt cons frags wi sil ctc cmt & cal cmt, abnt uncons clr-trnsl grns, sb rd- sb ang, w srt, tr lt & dk cht grns, dk arg mat, brn sltst strgs, becmg v silc, mnr trs of glauc, v calc, lmy, intgr por, p-fr (3-6%).
(3790-3800) SS(85%) lt-med gysh brn u f-l med grnd qtz, occ cons frags wi sil cmt & calc cmt, predy scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, bcmg v arg, mnr trs pyr, tr glauc, v calc, intgr por, p (3-5%) SH(15%) lt gysh brn, sb fis, sl blky, v slty, sft-med, v arg.
2900
(-1607.9)
2900
(-1607.9)
3750m MD v
calcs SS /
Limestone
stringers
3810m
Shale a
Sandst
mix


30
1000
150
INVERT OIL
DEN: 1220
VIS: 64
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
3815
3820
3825
3830
3835
3840
3845
3850
3855
3860
3865
3870
3875
2878 TVD
Sub Sea (-1585.9)
med grnd qtz, occ cons frags
grns, sb rd- sb ang, w srt, tr lt
glauc, v calc, intgr por, p
sb fis, sl blky, v slty, sft-med,
(3840-3860) SS(70%) lt-med gysh brn u f-l med grnd s&p qtz, occ cons frags wi sil cmt & mnr calc cmt, abnt scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, v arg, mnr trs pyr, tr glauc, ip calc, intgr por, p (2-5%) SH(30%) lt gy, micmica, sb fis, sl blky, v slty, sft-med, v arg.
MD 3815.55 TVD 2887.7
INC 91.7 AZ 359.2
MD 3825 TVD 2887.42
INC 91.7 AZ 359.2
MD 3834.52 TVD 2887.31
INC 89.6 AZ 358.9
MD 3844.03 TVD 2887.38
INC 89.6 AZ 359.2
MD 3853.52 TVD 2887.36
INC 90.6 AZ 359.6
MD 3862.97 TVD 2887.28
INC 90.4 AZ 0.3
MD 3872.46 TVD 2887.22
INC 90.3 AZ 359.6
2889
(-1596.9)
(3820-3840) SS(70%) lt-med gysh brn u f-l med grnd qtz, occ cons frags wi sil cmt & calc cmt, abnt scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, v arg, ip silc, mnr trs pyr, tr glauc, v calc, intgr por, p (2-4%) SH(25%) lt gy, micmica sb fis, sl blky, v slty, sft-med, v arg.
(3860-3880) SS(75%) lt-med gysh brn u f-l med grnd s&p qtz, occ cons frags wi sil cmt & mnr calc cmt, abnt scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, v arg, mnr trs pyr, tr glauc, ip calc, intgr por, p (2-5%) SH(25%) lt gy, micmica, sb fis, sl blky, v slty, sft-med, v arg.
2900
(-1607.9)
MD
and
tone
3850m MD
micmica silty
Shale
3850m MD
consolidated
salt pepper
Sandstone


30
1000
150
ROP (min/m)
Gas(units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1210
VIS: 60
3880
3885
3890
3895
3900
3905
3910
3915
3920
3925
3930
3935
3940
3945
2878 TVD
Sub Sea (-1585.9)
00:00hrs Mar 11 2060 @ 3943.0m MD
MD 3881.94 TVD 2887.16
INC 90.4 AZ 0.6
MD 3891.41 TVD 2887.1
INC 90.3 AZ 0.6
MD 3900.9 TVD 2886.95
INC 91.5 AZ 1.3
MD 3910.35 TVD 2886.56
INC 93.3 AZ 2.7
P
MD 3919.75 TVD 2886.01
INC 93.4 AZ 2.7
MD 3929.19 TVD 2885.45
INC 93.4 AZ 2.7
MD 3938.7 TVD 2884.95
INC 92.6 AZ 2.4
2889
(-1596.9)
(3940-3950) SS(100%) lt
grnd s&p qtz, occ cons
scat uncons grns, sb rd
dk chrt grns, ip arg, mn
calc, sh strgrs, intgr po
(3900-3920) SS(90%) lt-med gysh brn u f-l med grnd s&p qtz, occ cons frags wi sil cmt & mnr calc cmt, abnt scat uncons grns, sb rd-sb ang, w srt, tr lt & dk chrt grns, v arg, mnr trs pyr, tr glauc, ip calc, intgr por, p-fr (3-6%), SH(10%) lt gy, micmica, sb fis, sl blky, v slty, sft-med, v arg.
(3880-3900) SS(80%) lt-med gysh brn u f-l med grnd s&p qtz, occ cons frags wi sil cmt & mnr calc cmt, abnt scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, v arg, mnr trs pyr, tr glauc, ip calc, intgr por, p (2-5%) SH(20%) lt gy, micmica, sb fis, sl blky, v slty, sft-med, v arg.
(3920-3940) SS(85%) lt-med gysh brn u f-l med grnd s&p qtz, occ cons frags wi sil cmt, abnt scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, ip arg, mnr trs pyr, tr glauc, ip calc, sh strgrs, intgr por, p-fr (3-6%), SH(15%) lt gy, micmica, sb fis, sl blky, v slty, sft-med, v arg.
2900
(-1607.9)
3910m MD
unconsolidate
quartz grains
with silty
shale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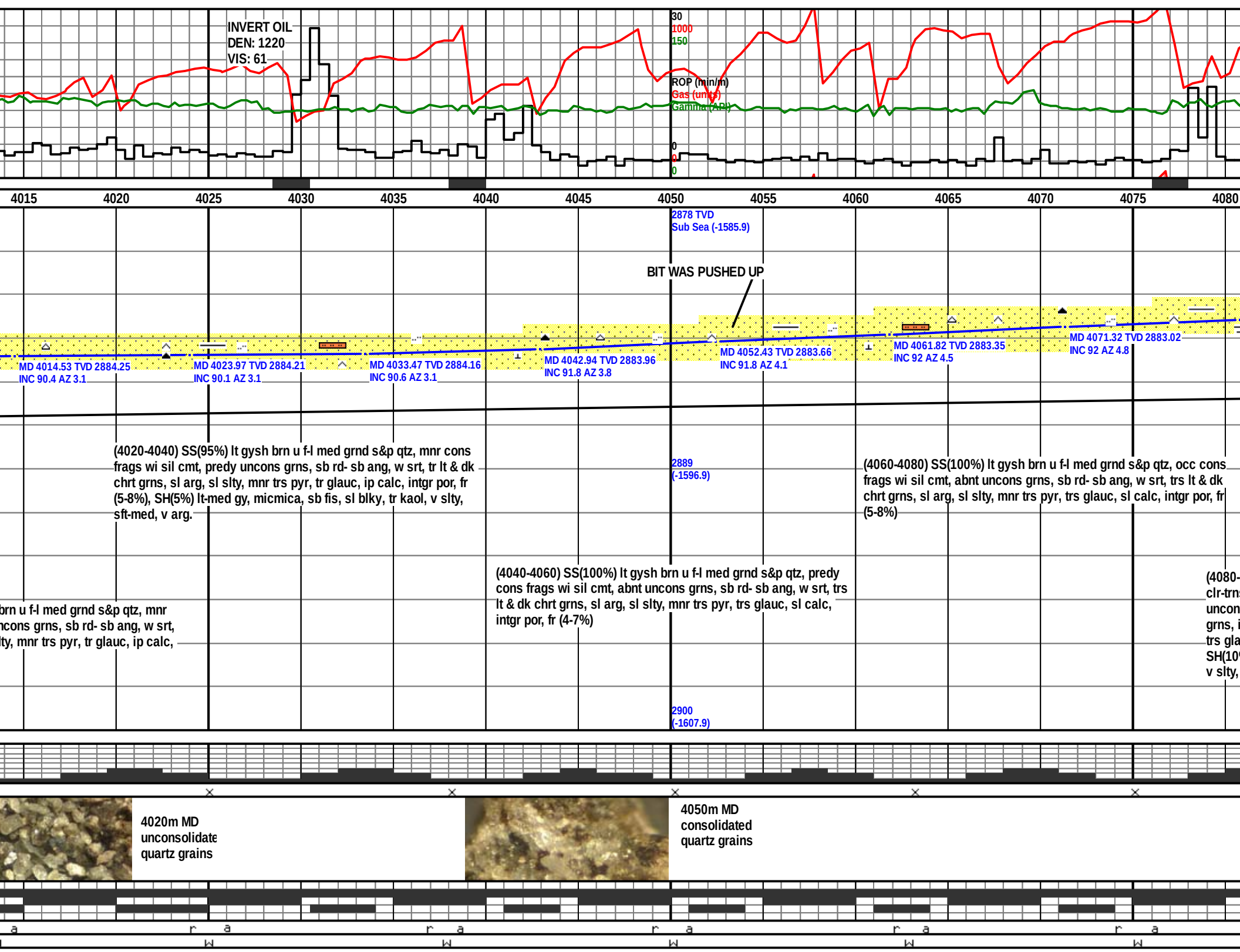
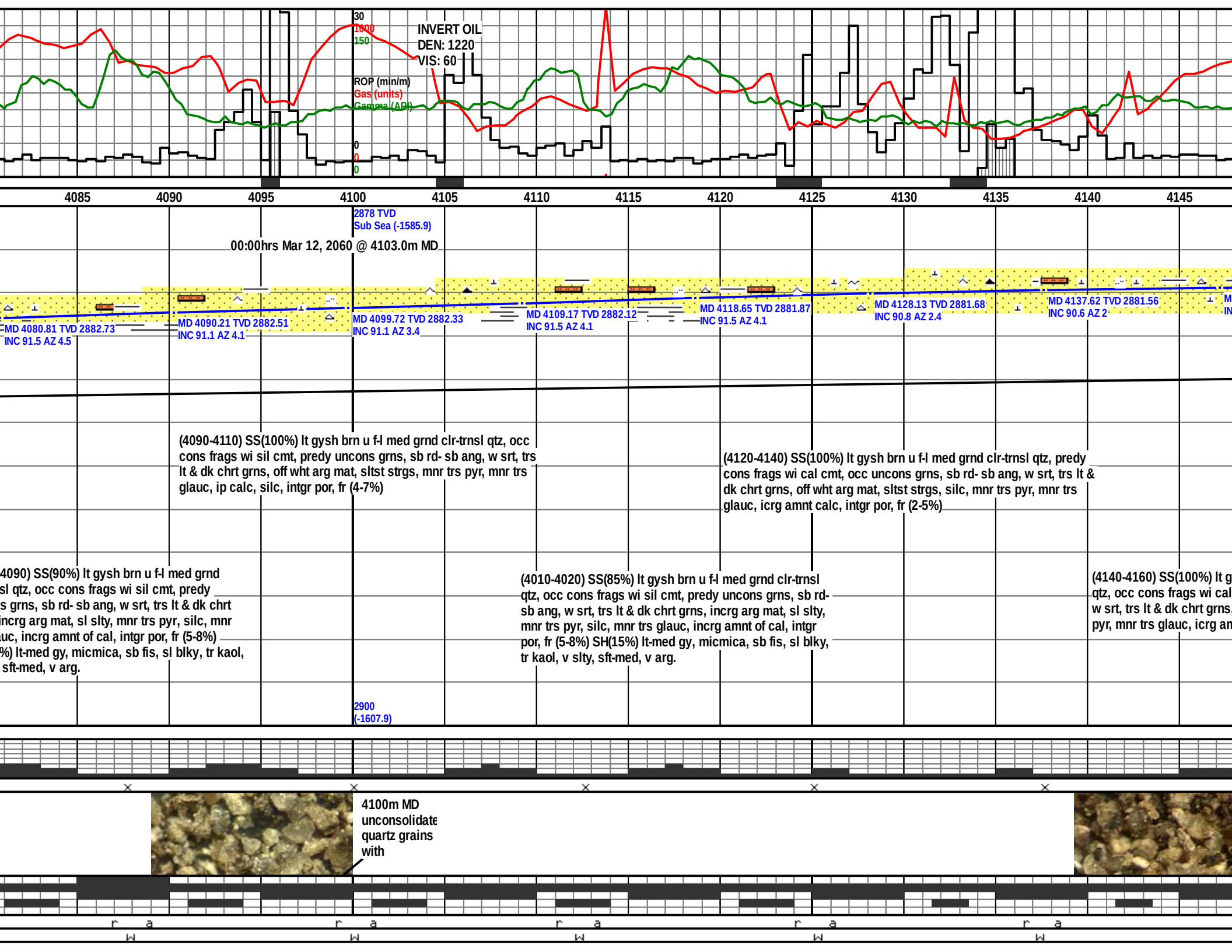
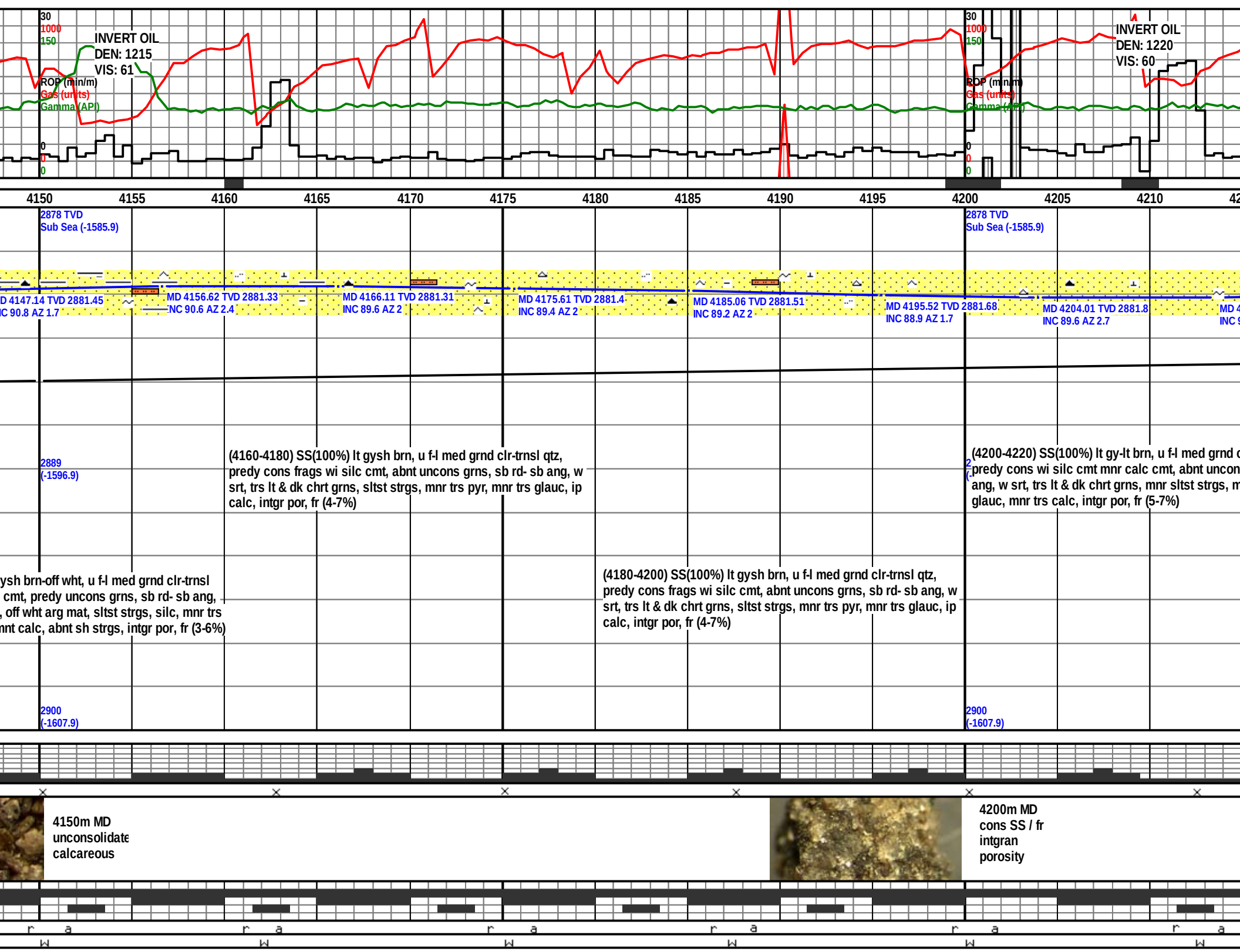
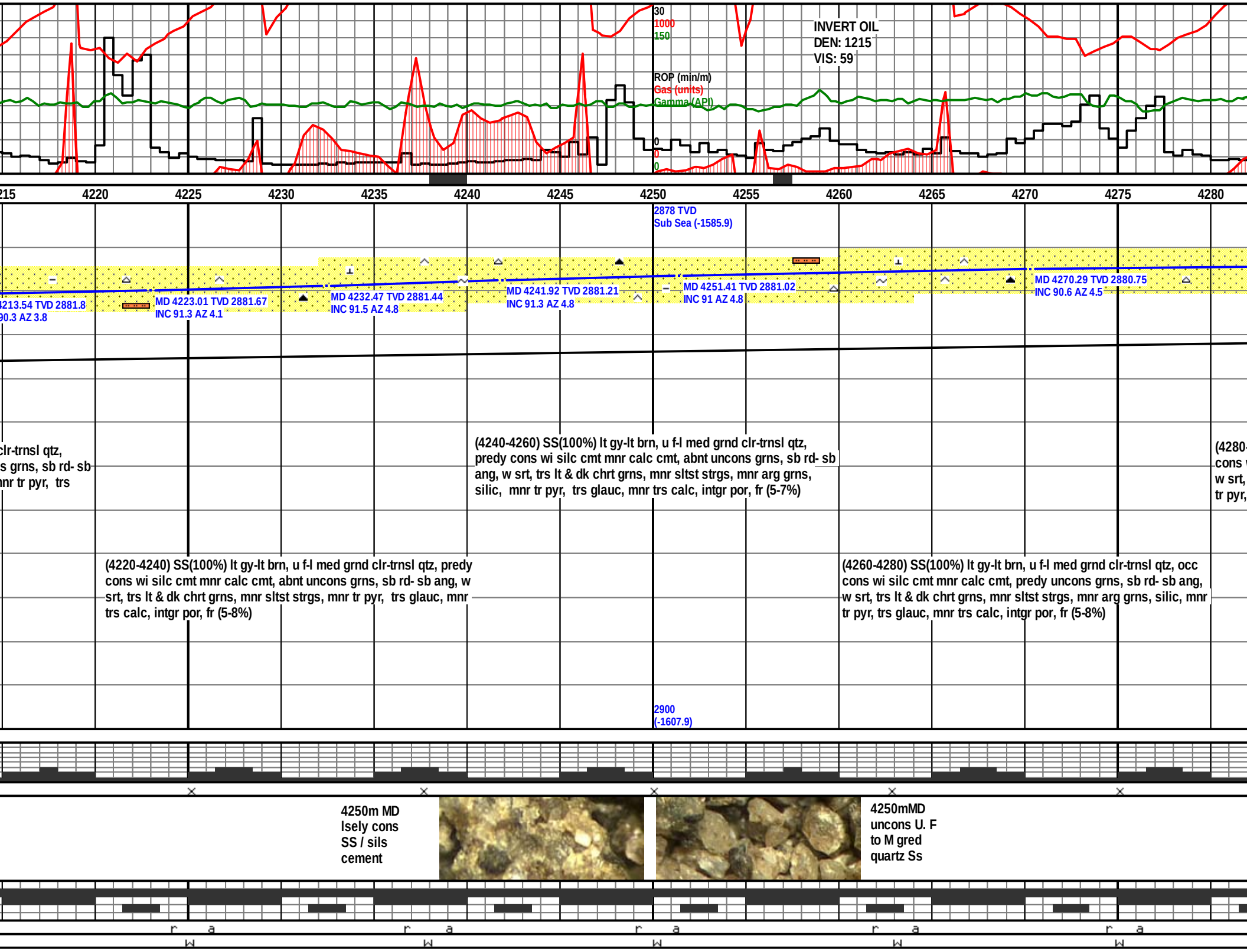
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
INVERT OIL
DEN: 1220
VIS: 61
30
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
3950
3955
3960
3965
3970
3975
3980
3985
3990
3995
4000
4005
4010
2878 TVD
Sub Sea (-1585.9)
2878 TVD
Sub Sea (-1585.9)
MD 3948.22 TVD 2884.59
INC 91.8 AZ 3.4
MD 3957.66 TVD 2884.35
INC 91.1 AZ 3.1
MD 3967.16 TVD 2884.23
INC 90.3 AZ 2.7
MD 3976.65 TVD 2884.23
INC 89.7 AZ 1.7
MD 3986.14 TVD 2884.29
INC 89.6 AZ 2.4
MD 3995.54 TVD 2884.35
INC 89.6 AZ 1.7
MD 4005.04 TVD 2884.34
INC 90.6 AZ 2.7
t gysh brn u f-l med
frags wi sil cmt, abnt
- sb ang, w srt, tr lt &
r trs pyr, tr glauc, ip
r, p-fr (3-6%)
(3940-3960) SS(100%) med gysh brn u f-l med grnd s&p qtz, occ cons frags wi sil cmt, abnt scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, bcmg v arg, mnr trs pyr, tr glauc, ip calc, sh strgrs, intgr por, p-fr (3-6%)
(3960-3980) SS(70%) lt-med gysh brn u f-l med grnd s&p qtz, predy cons frags wi sil cmt, scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, ip arg, mnr trs pyr, tr glauc, ip calc, sh strgrs, intgr por, p-fr (2-4%), SH(30%) lt-med gy, micmica, sb fis, sl blky, tr kaol, v slty, sft-med, v arg.
(3980-3990) SS(80%) lt-med gysh brn u f-l med grnd s&p qtz, predy cons frags wi sil cmt, scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, ip arg, mnr trs pyr, tr glauc, ip calc, sh strgrs, intgr por, p-fr (2-4%), SH(20%) lt-med gy, micmica, sb fis, sl blky, tr kaol, v slty, sft-med, v arg.
(3990-4000) SS(95%) lt-med gysh brn u f-l med grnd s&p qtz, predy cons frags wi sil cmt, scat uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, ip arg, mnr trs pyr, tr glauc, ip calc, sh strgrs, intgr por, p-fr (3-6%), SH(5%) lt-med gy, micmica, sb fis, sl blky, tr kaol, v slty, sft-med, v arg.
(4000-4020) SS(100%) lt gysh
cons frags wi sil cmt, predy ur
tr lt & dk chrt grns, sl arg, sl sl
intgr por, fr (5-8%)
2900
(-1607.9)
2900
(-1607.9)
3950m MD
unconsolidate
quartz grains
4010m MD
unconsolidate
quartz grains


INVERT OIL
DEN: 1220
VIS: 61
30
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
4015
4020
4025
4030
4035
4040
4045
4050
4055
4060
4065
4070
4075
4080
2878 TVD
Sub Sea (-1585.9)
BIT WAS PUSHED UP
MD 4014.53 TVD 2884.25
INC 90.4 AZ 3.1
MD 4023.97 TVD 2884.21
INC 90.1 AZ 3.1
MD 4033.47 TVD 2884.16
INC 90.6 AZ 3.1
MD 4042.94 TVD 2883.96
INC 91.8 AZ 3.8
MD 4052.43 TVD 2883.66
INC 91.8 AZ 4.1
MD 4061.82 TVD 2883.35
INC 92 AZ 4.5
MD 4071.32 TVD 2883.02
INC 92 AZ 4.8
(4020-4040) SS(95%) lt gysh brn u f-l med grnd s&p qtz, mnr cons frags wi sil cmt, predy uncons grns, sb rd- sb ang, w srt, tr lt & dk chrt grns, sl arg, sl slty, mnr trs pyr, tr glauc, ip calc, intgr por, fr (5-8%), SH(5%) lt-med gy, micmica, sb fis, sl blky, tr kaol, v slty, sft-med, v arg.
2889
(-1596.9)
(4060-4080) SS(100%) lt gysh brn u f-l med grnd s&p qtz, occ cons frags wi sil cmt, abnt uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, sl arg, sl slty, mnr trs pyr, trs glauc, sl calc, intgr por, fr (5-8%)
brn u f-l med grnd s&p qtz, mnr
ncons grns, sb rd- sb ang, w srt,
lty, mnr trs pyr, tr glauc, ip calc,
(4040-4060) SS(100%) lt gysh brn u f-l med grnd s&p qtz, predy cons frags wi sil cmt, abnt uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, sl arg, sl slty, mnr trs pyr, trs glauc, sl calc, intgr por, fr (4-7%)
(4080-
clr-trns
uncon
grns, i
trs gla
SH(10
v slty,
2900
(-1607.9)
4020m MD
unconsolidate
quartz grains
4050m MD
consolidated
quartz grains


30
1000
150
INVERT OIL
DEN: 1220
VIS: 60
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
4085
4090
4095
4100
4105
4110
4115
4120
4125
4130
4135
4140
4145
2878 TVD
Sub Sea (-1585.9)
00:00hrs Mar 12, 2060 @ 4103.0m MD
MD 4080.81 TVD 2882.73
INC 91.5 AZ 4.5
MD 4090.21 TVD 2882.51
INC 91.1 AZ 4.1
MD 4099.72 TVD 2882.33
INC 91.1 AZ 3.4
MD 4109.17 TVD 2882.12
INC 91.5 AZ 4.1
MD 4118.65 TVD 2881.87
INC 91.5 AZ 4.1
MD 4128.13 TVD 2881.68
INC 90.8 AZ 2.4
MD 4137.62 TVD 2881.56
INC 90.6 AZ 2
(4090-4110) SS(100%) lt gysh brn u f-l med grnd clr-trnsl qtz, occ cons frags wi sil cmt, predy uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, off wht arg mat, sltst strgs, mnr trs pyr, mnr trs glauc, ip calc, silc, intgr por, fr (4-7%)
(4120-4140) SS(100%) lt gysh brn u f-l med grnd clr-trnsl qtz, predy cons frags wi cal cmt, occ uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, off wht arg mat, sltst strgs, silc, mnr trs pyr, mnr trs glauc, icrg amnt calc, intgr por, fr (2-5%)
4090) SS(90%) lt gysh brn u f-l med grnd
sl qtz, occ cons frags wi sil cmt, predy
s grns, sb rd- sb ang, w srt, trs lt & dk chrt
incrg arg mat, sl slty, mnr trs pyr, silc, mnr
uc, incrg amnt of cal, intgr por, fr (5-8%)
%) lt-med gy, micmica, sb fis, sl blky, tr kaol,
sft-med, v arg.
(4010-4020) SS(85%) lt gysh brn u f-l med grnd clr-trnsl qtz, occ cons frags wi sil cmt, predy uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, incrg arg mat, sl slty, mnr trs pyr, silc, mnr trs glauc, incrg amnt of cal, intgr por, fr (5-8%) SH(15%) lt-med gy, micmica, sb fis, sl blky, tr kaol, v slty, sft-med, v arg.
(4140-4160) SS(100%) lt g
qtz, occ cons frags wi cal
w srt, trs lt & dk chrt grns,
pyr, mnr trs glauc, icrg am
2900
(-1607.9)
4100m MD
unconsolidate
quartz grains
with


30
1000
150
INVERT OIL
DEN: 1215
VIS: 61
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
30
1000
150
INVERT OIL
DEN: 1220
VIS: 60
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
4150
4155
4160
4165
4170
4175
4180
4185
4190
4195
4200
4205
4210
2878 TVD
Sub Sea (-1585.9)
D 4147.14 TVD 2881.45
IC 90.8 AZ 1.7
MD 4156.62 TVD 2881.33
NC 90.6 AZ 2.4
MD 4166.11 TVD 2881.31
INC 89.6 AZ 2
MD 4175.61 TVD 2881.4
INC 89.4 AZ 2
MD 4185.06 TVD 2881.51
INC 89.2 AZ 2
MD 4195.52 TVD 2881.68
INC 88.9 AZ 1.7
2878 TVD
Sub Sea (-1585.9)
MD 4204.01 TVD 2881.8
INC 89.6 AZ 2.7
2889
(-1596.9)
(4160-4180) SS(100%) lt gysh brn, u f-l med grnd clr-trnsl qtz, predy cons frags wi silc cmt, abnt uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, sltst strgs, mnr trs pyr, mnr trs glauc, ip calc, intgr por, fr (4-7%)
(4200-4220) SS(100%) lt gy-lt brn, u f-l med grnd
predy cons wi silc cmt mnr calc cmt, abnt uncon
ang, w srt, trs lt & dk chrt grns, mnr sltst strgs, m
glauc, mnr trs calc, intgr por, fr (5-7%)
ysh brn-off wht, u f-l med grnd clr-trnsl
cmt, predy uncons grns, sb rd- sb ang,
off wht arg mat, sltst strgs, silc, mnr trs
nt calc, abnt sh strgs, intgr por, fr (3-6%)
(4180-4200) SS(100%) lt gysh brn, u f-l med grnd clr-trnsl qtz, predy cons frags wi silc cmt, abnt uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, sltst strgs, mnr trs pyr, mnr trs glauc, ip calc, intgr por, fr (4-7%)
2900
(-1607.9)
2900
(-1607.9)
4150m MD
unconsolidate
calcareous
4200m MD
cons SS / fr
intgran
porosity


30
1000
150
INVERT OIL
DEN: 1215
VIS: 59
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
215
4220
4225
4230
4235
4240
4245
4250
4255
4260
4265
4270
4275
4280
2878 TVD
Sub Sea (-1585.9)
4213.54 TVD 2881.8
90.3 AZ 3.8
MD 4223.01 TVD 2881.67
INC 91.3 AZ 4.1
MD 4232.47 TVD 2881.44
INC 91.5 AZ 4.8
MD 4241.92 TVD 2881.21
INC 91.3 AZ 4.8
MD 4251.41 TVD 2881.02
INC 91 AZ 4.8
MD 4270.29 TVD 2880.75
INC 90.6 AZ 4.5
clr-trnsl qtz,
s grns, sb rd- sb
nr tr pyr, trs
(4240-4260) SS(100%) lt gy-lt brn, u f-l med grnd clr-trnsl qtz, predy cons wi silc cmt mnr calc cmt, abnt uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, mnr sltst strgs, mnr arg grns, silic, mnr tr pyr, trs glauc, mnr trs calc, intgr por, fr (5-7%)
(4280
cons
w srt,
tr pyr,
(4220-4240) SS(100%) lt gy-lt brn, u f-l med grnd clr-trnsl qtz, predy cons wi silc cmt mnr calc cmt, abnt uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, mnr sltst strgs, mnr tr pyr, trs glauc, mnr trs calc, intgr por, fr (5-8%)
(4260-4280) SS(100%) lt gy-lt brn, u f-l med grnd clr-trnsl qtz, occ cons wi silc cmt mnr calc cmt, predy uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, mnr sltst strgs, mnr arg grns, silic, mnr tr pyr, trs glauc, mnr trs calc, intgr por, fr (5-8%)
2900
(-1607.9)
4250m MD
lsely cons
SS / sils
cement
4250mMD
uncons U. F
to M gred
quartz Ss

30
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0

INVERT OIL
DEN: 1220
VIS: 59

TD REACHED: Mar 13, 2060 @ 03:20 hrs

4285 4290 4295 4300 4305 4310 4315 4320 4325 4330 4335 4340 4345

00:00hrs Mar 13, 2012 @ 4297.0m MD

2878 TVD
Sub Sea (-1585.9)

MD 4289.29 TVD 2880.59
INC 90.4 AZ 4.1

MD 4298 TVD 2880.58
INC 89.7 AZ 4.1

MD 4312 TVD 2880.79
INC 88.57 AZ 4.1

TARGET TD @ 4349.20m MD
2883.10m TVD, -1591.00 SSL

-4300) SS(100%) lt gy-lt brn, u f-l med grnd clr-trnsl qtz, occ wi silc cmt mnr calc cmt, predy uncons grns, sb rd- sb ang, trs lt & dk chrt grns, mnr sltst strgs, mnr arg grns, silic, mnr trs glauc, mnr trs calc, intgr por, fr (5-8%)

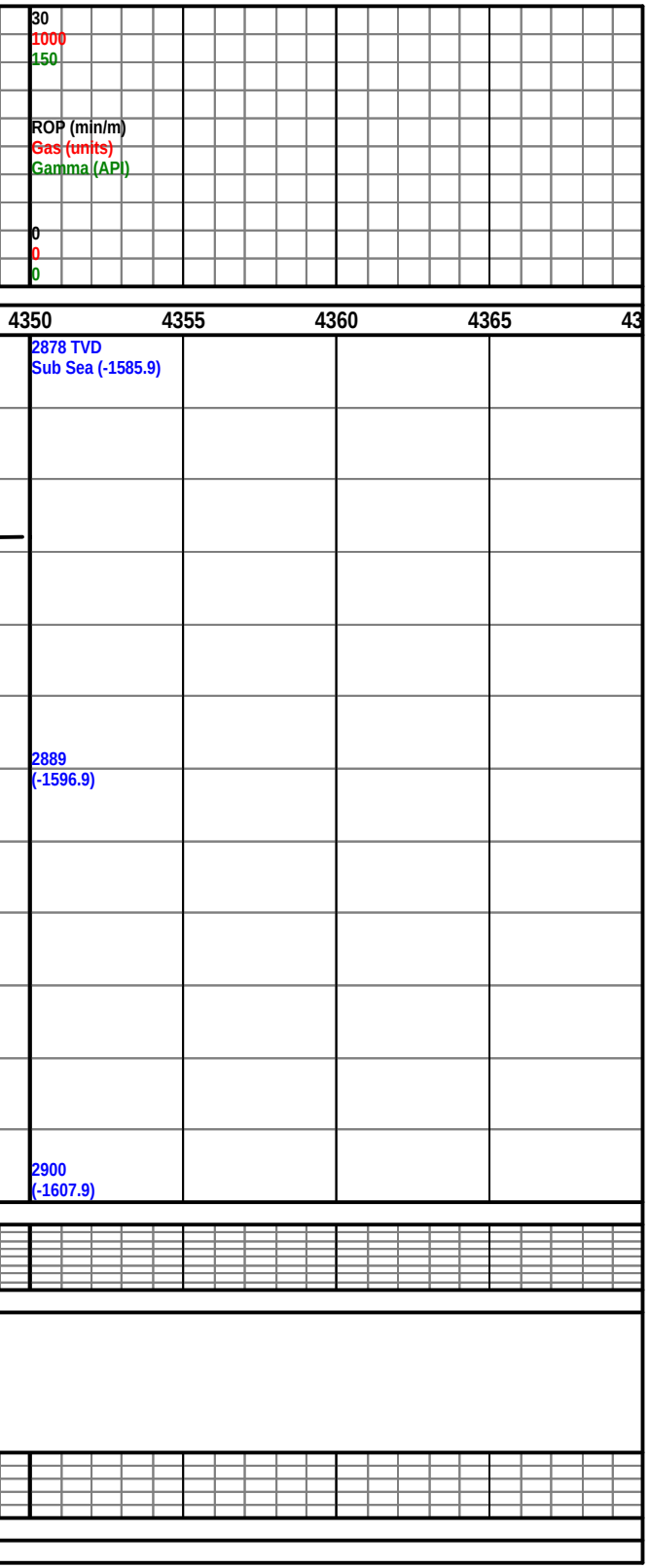
2889
(-1596.9)

ACTUAL TD @ 4312.77m MD
2880.79m TVD, -1588.69 SSL

(4300-4312) SS(100%) lt gy-lt brn, u f-l med grnd clr-trnsl qtz, occ cons wi silc cmt mnr calc cmt, predy uncons grns, sb rd- sb ang, w srt, trs lt & dk chrt grns, mnr sltst strgs, mnr arg grns, silic, mnr tr pyr, trs glauc, mnr trs calc, intgr por, fr (5-8%)

2900
(-1607.9)

4312m MD
unconsolidate
SS, LAST
SAMPLE


30
1000
150
ROP (min/m)
Gas (units)
Gamma (API)
0
0
0
4350
4355
4360
4365
43
2878 TVD
Sub Sea (-1585.9)
2889
(-1596.9)
2900
(-1607.9)