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

Well Name:	**Razor 21C-0906**		
Well Id:			
Location:	**NENW 21-T10N-R58W Weld County, Colorado**		
License Number:	**05-123-39524-00**	**Region:**	**Redtail Field**
Spud Date:	**8/28/2014**	**Drilling Completed:**	**9/4/2014**
Surface Coordinates:	**40.830142,-103.873094**		
Bottom Hole Coordinates:	**40.852936, -103.873422**		
Ground Elevation (ft):	**4844**	**K.B. Elevation (ft):**	**4861**
Logged Interval (ft):	**5300 To: 14125**	**Total Depth (ft):**	**14125**
Formation:	**Pierre, Sharon Springs, Niobrara**		
Type of Drilling Fluid:	**Water Based Mud**		

OPERATOR

Company: Whiting Oil & Gas Corp.
Address: 1700 Broadway Suite 2300
Denver, CO 80290

GEOLOGIST

Name: Demond Taylor, Mark Denler
Company: Acme Geologic Consulting
Address: 108 Berry Street
Little Rock, AR 72205

Drilling Company

Cade Drilling, LLC
Rig 23

Gas Detection

Mudlogging Systems, Inc., M Logger, Model TGC, Total Gas and Chromatograph

Comments

Lithologies and tops at drilled depths, not corrected to elogs. Where the well bore gas is 100% methane, the C1 line is moved to 85% for graphical purposes only.

ROCK TYPES

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

- BS Boundst
- C Chalky
- CX Cryxln
- E Earthy
- FX Finexln
- GS Grainst
- L Lithogr
- MX Microxln
- MS Mudst
- PS Packst
- WS Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOW

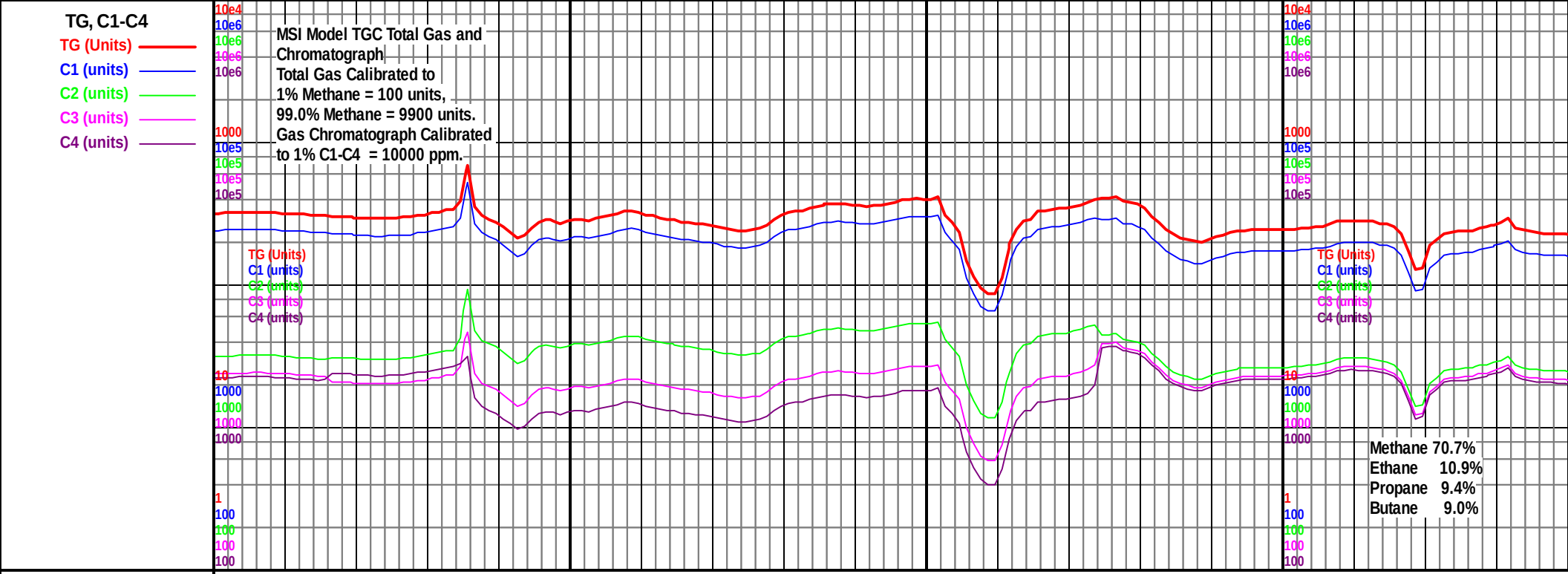
- Even
- Spotted
- Ques
- Dead

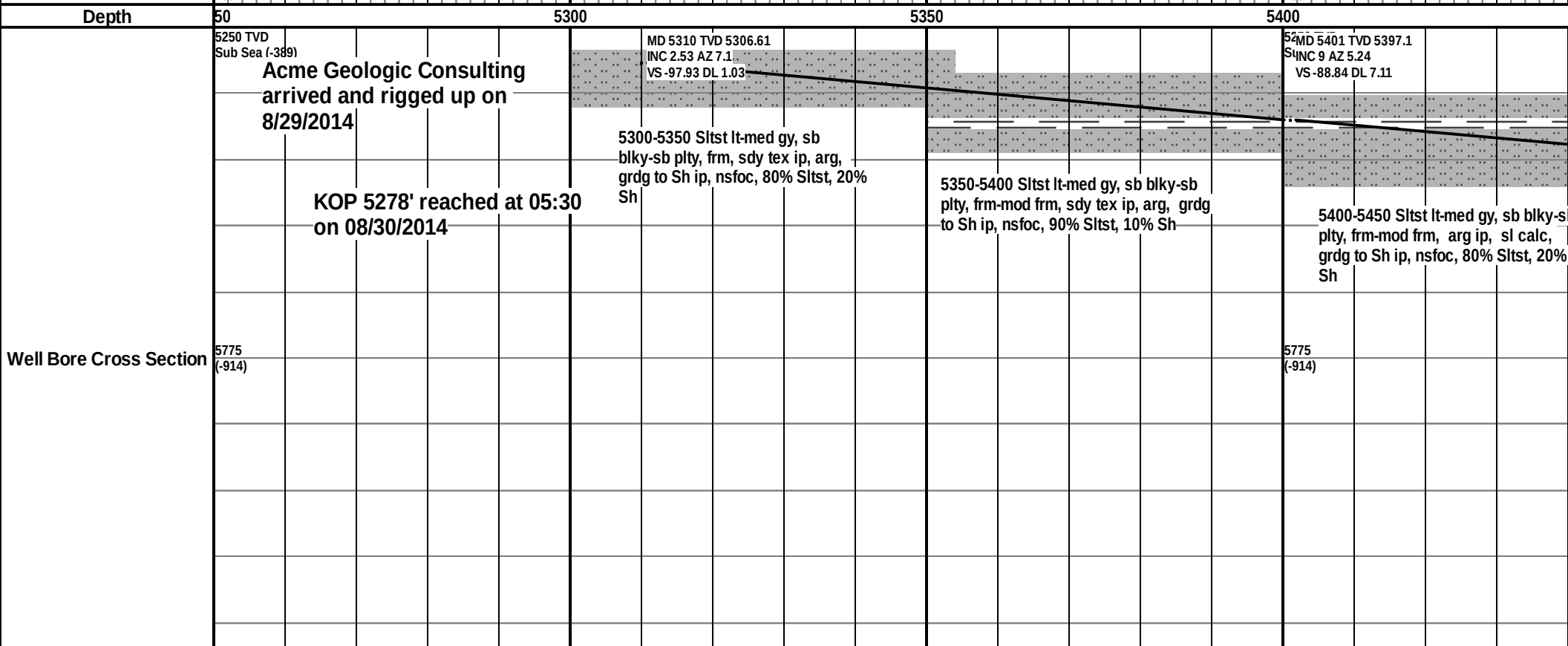
INTERVAL

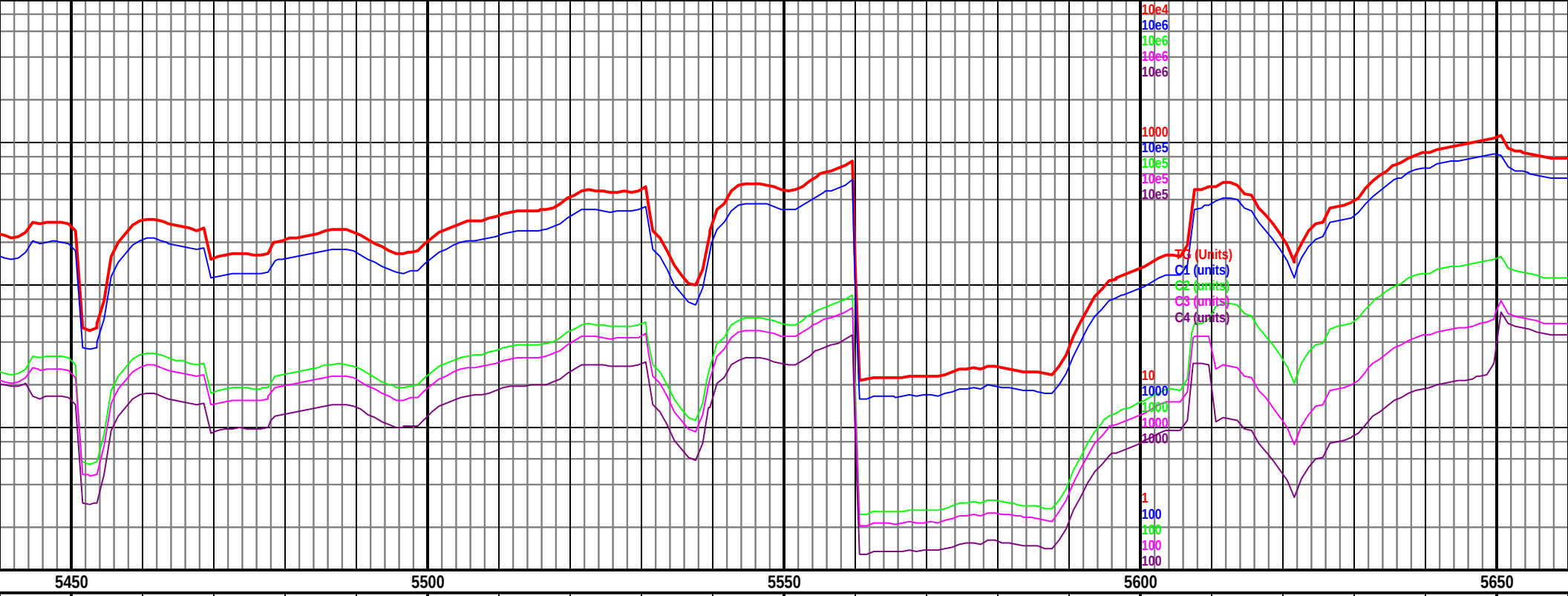
- Core
- Dst

EVENT

- Rft
- Sidewall


TG, C1-C4
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
MSI Model TGC Total Gas and Chromatograph
Total Gas Calibrated to 1% Methane = 100 units, 99.0% Methane = 9900 units.
Gas Chromatograph Calibrated to 1% C1-C4 = 10000 ppm.
Methane 70.7%
Ethane 10.9%
Propane 9.4%
Butane 9.0%


Depth
50
5300
5350
5400
Well Bore Cross Section
5250 TVD
Sub Sea (-389)
Acme Geologic Consulting arrived and rigged up on 8/29/2014
KOP 5278' reached at 05:30 on 08/30/2014
MD 5310 TVD 5306.61
INC 2.53 AZ 7.1
VS -97.93 DL 1.03
5300-5350 Sltst lt-med gy, sb blky-sb plty, frm, sdy tex ip, arg, grdg to Sh ip, nsfoc, 80% Sltst, 20% Sh
5350-5400 Sltst lt-med gy, sb blky-sb plty, frm-mod frm, sdy tex ip, arg, grdg to Sh ip, nsfoc, 90% Sltst, 10% Sh
MD 5401 TVD 5397.1
INC 9 AZ 5.24
VS -88.84 DL 7.11
5400-5450 Sltst lt-med gy, sb blky-s plty, frm-mod frm, arg ip, sl calc, grdg to Sh ip, nsfoc, 80% Sltst, 20% Sh
5775
(-914)



MD 5492 TVD 5487.13
INC 7.75 AZ 11.87
VS -75.75 DL 1.73

MD 5583 TVD 5576.06
INC 16.26 AZ 4.74
VS -57.01 DL 9.48

5250 TVD
Sub Sea (-389)

b

5450-5500 Sltst lt-med gy, sb blky-sb plty, frm-mod frm, arg ip, sl calc, grdg to Sh ip, nsfoc, 70% Sltst, 30% Sh

5500-5550 Sltst lt-med gy, sb blky-sb plty, frm-mod frm, arg, sl calc, grdg to Sh ip, nsfoc, 75% Sltst, 25% Sh

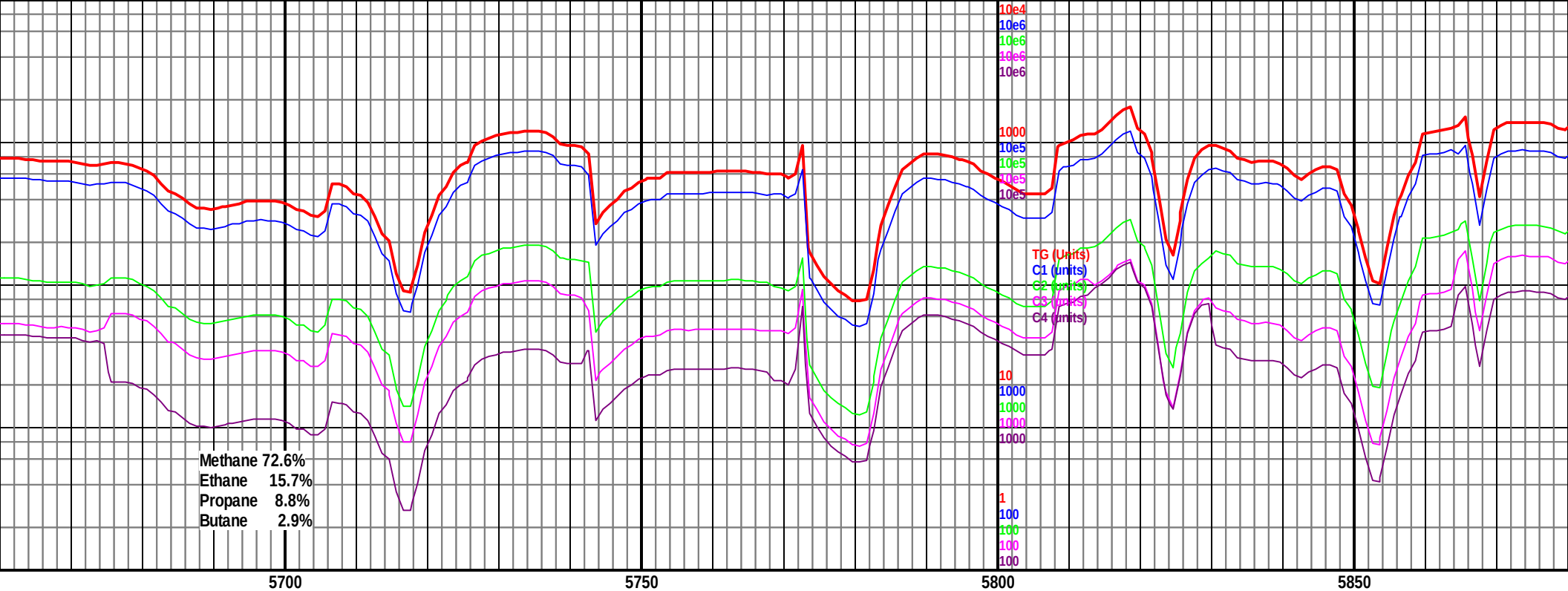
5550-5600 Sltst lt-med gy, sb blky-sb plty, frm-mod frm, arg, sl calc, grdg to Sh ip, nsfoc, 70% Sltst, 30% Sh

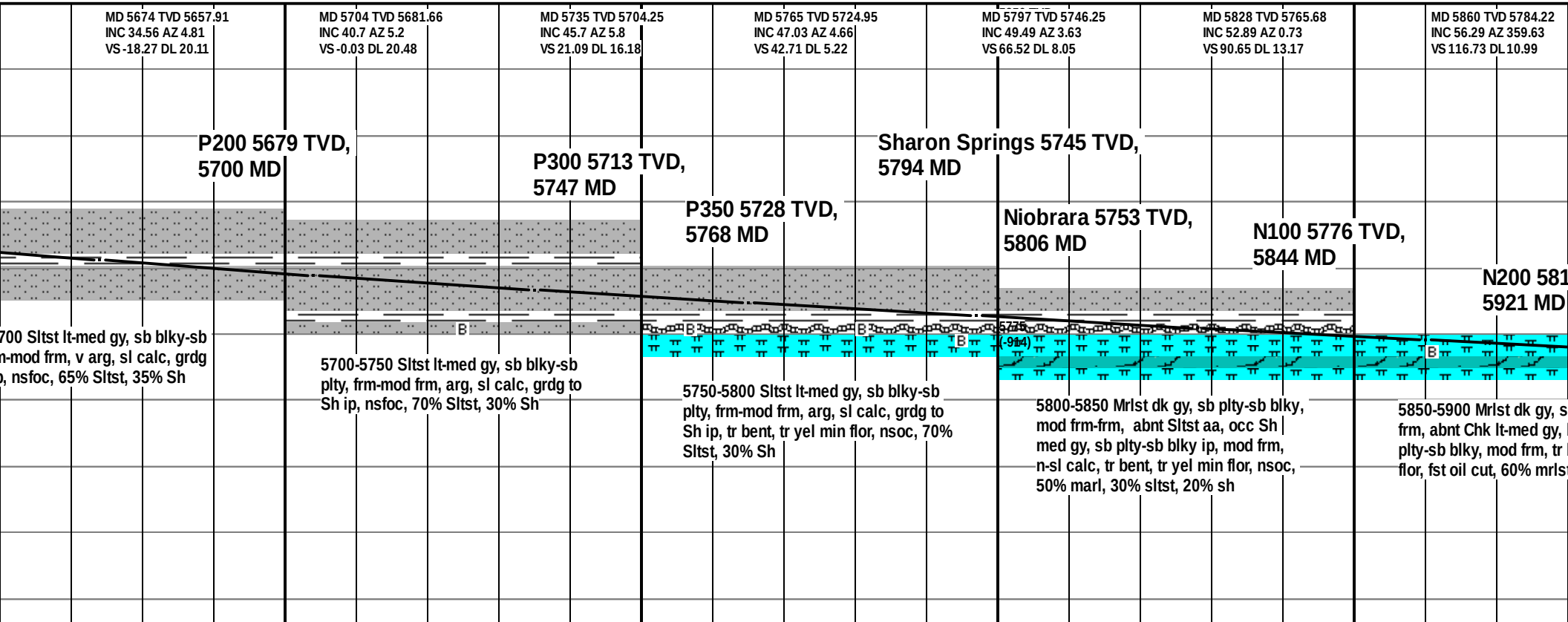
5775
(-914)

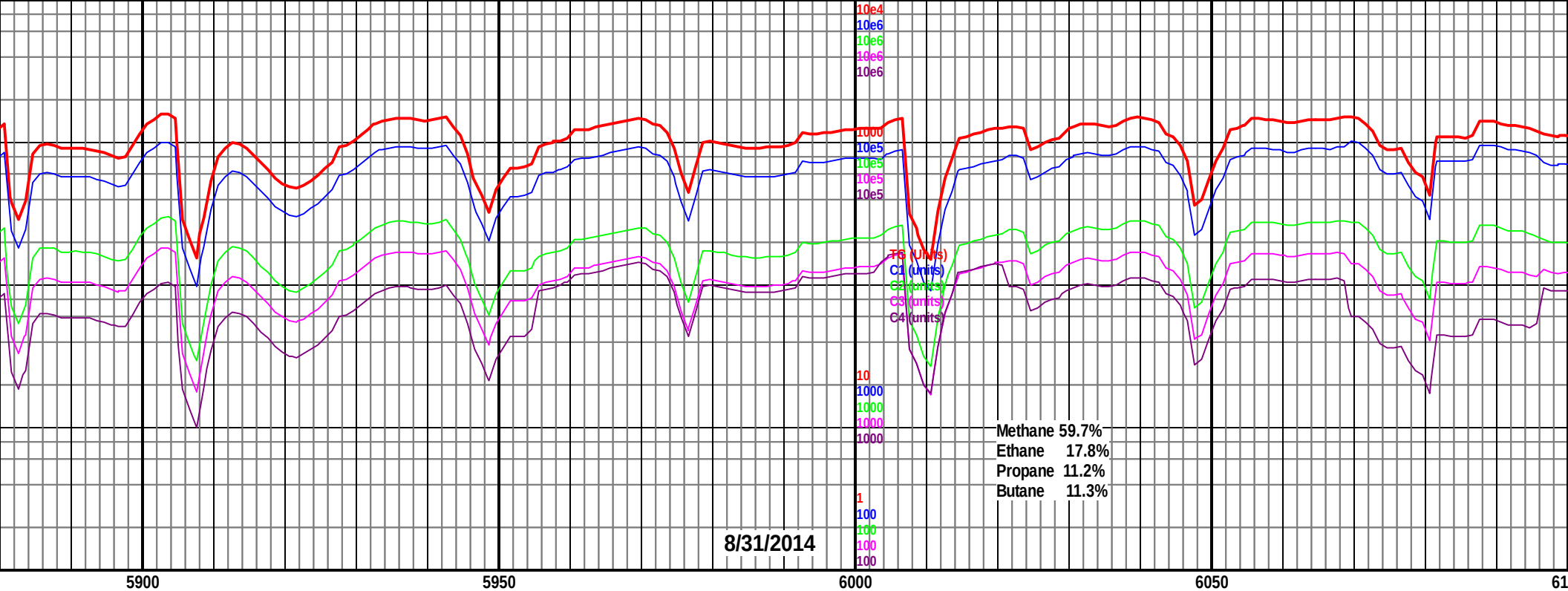
5600-5650 Sltst lt-med gy, sb blky-sb plty, frm-mod frm, arg, sl calc, grdg to Sh ip, nsfoc, 70% Sltst, 30% Sh

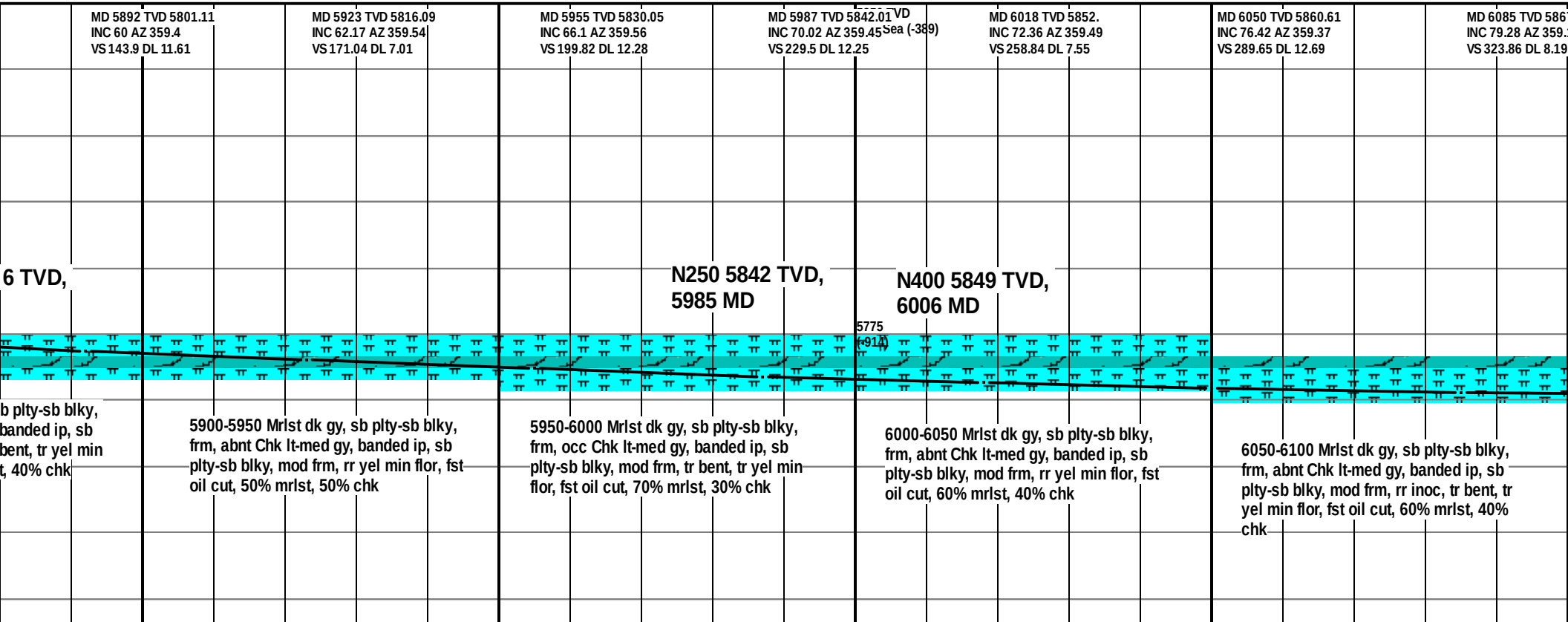
5650-57
plty, frm
to Sh ip

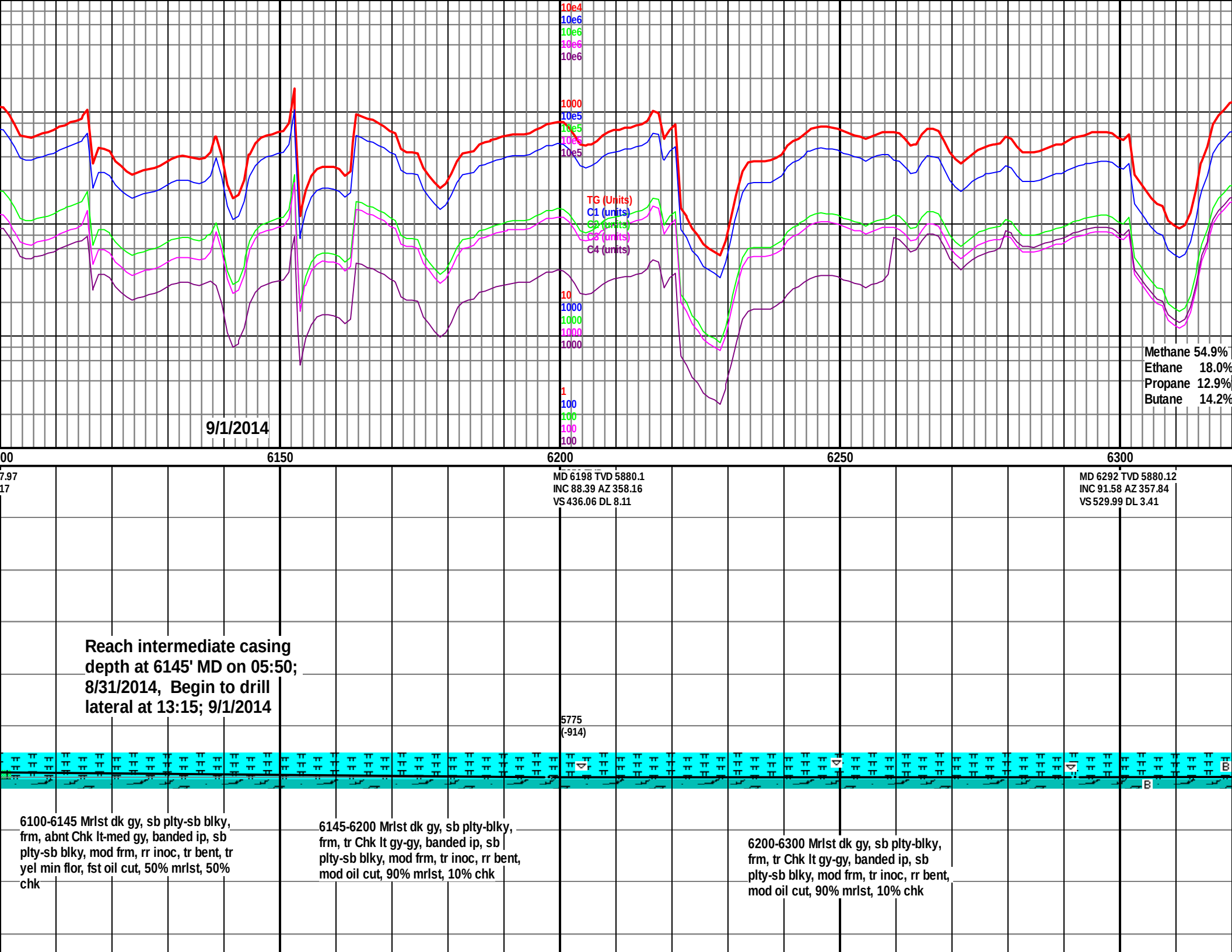
TOH at 5552' MD to change out drill bit and mud motor because not getting build rate needed.

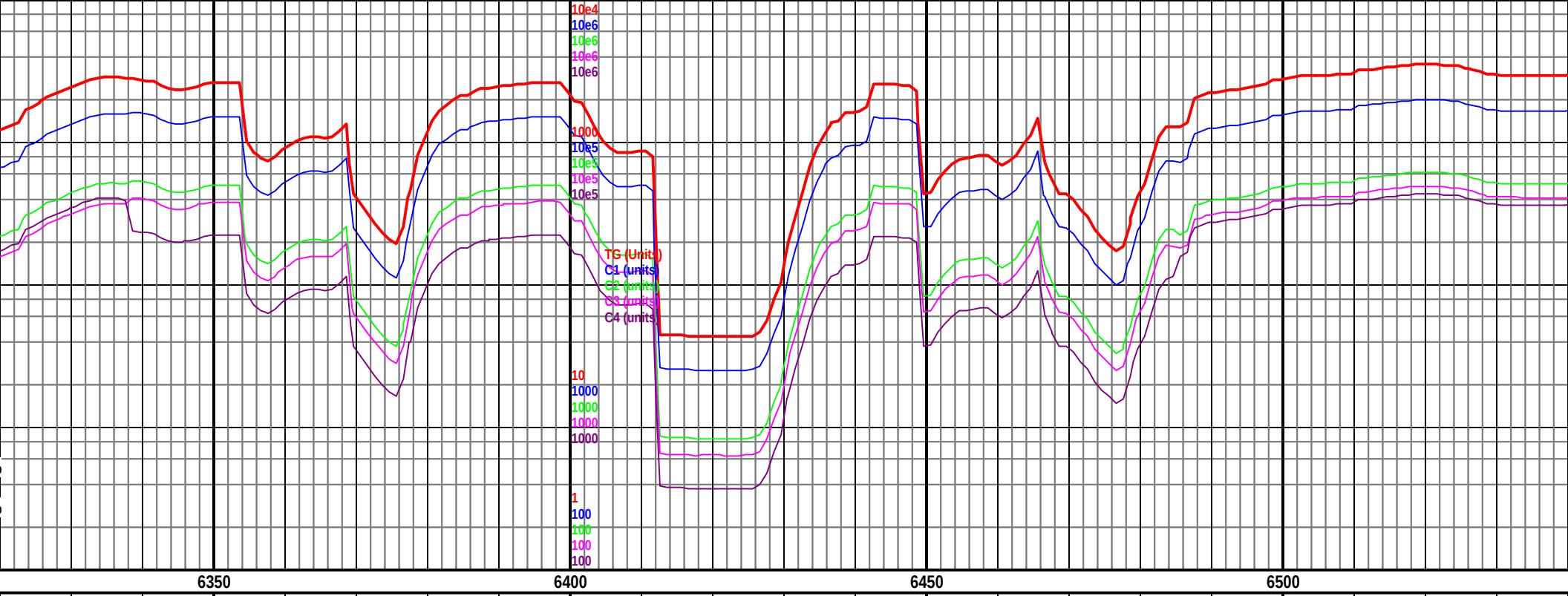

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 72.6%
Ethane 15.7%
Propane 8.8%
Butane 2.9%
5700
5750
5800
5850


MD 5674 TVD 5657.91
INC 34.56 AZ 4.81
VS -18.27 DL 20.11
MD 5704 TVD 5681.66
INC 40.7 AZ 5.2
VS -0.03 DL 20.48
MD 5735 TVD 5704.25
INC 45.7 AZ 5.8
VS 21.09 DL 16.18
MD 5765 TVD 5724.95
INC 47.03 AZ 4.66
VS 42.71 DL 5.22
MD 5797 TVD 5746.25
INC 49.49 AZ 3.63
VS 66.52 DL 8.05
MD 5828 TVD 5765.68
INC 52.89 AZ 0.73
VS 90.65 DL 13.17
MD 5860 TVD 5784.22
INC 56.29 AZ 359.63
VS 116.73 DL 10.99
P200 5679 TVD, 5700 MD
P300 5713 TVD, 5747 MD
P350 5728 TVD, 5768 MD
Sharon Springs 5745 TVD, 5794 MD
Niobrara 5753 TVD, 5806 MD
N100 5776 TVD, 5844 MD
N200 581
5921 MD
700 Sltst lt-med gy, sb blky-sb
n-mod frm, v arg, sl calc, grdg
, nsfoc, 65% Sltst, 35% Sh
5700-5750 Sltst lt-med gy, sb blky-sb plty, frm-mod frm, arg, sl calc, grdg to Sh ip, nsfoc, 70% Sltst, 30% Sh
5750-5800 Sltst lt-med gy, sb blky-sb plty, frm-mod frm, arg, sl calc, grdg to Sh ip, tr bent, tr yel min flor, nsoc, 70% Sltst, 30% Sh
5800-5850 Mrlst dk gy, sb plty-sb blky, mod frm-frm, abnt Sltst aa, occ Sh med gy, sb plty-sb blky ip, mod frm, n-sl calc, tr bent, tr yel min flor, nsoc, 50% marl, 30% sltst, 20% sh
5850-5900 Mrlst dk gy, s
frm, abnt Chk lt-med gy,
plty-sb blky, mod frm, tr
flor, fst oil cut, 60% mrls
B


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
T6 (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 59.7%
Ethane 17.8%
Propane 11.2%
Butane 11.3%
8/31/2014
5900
5950
6000
6050
61


MD 5892 TVD 5801.11
INC 60 AZ 359.4
VS 143.9 DL 11.61
MD 5923 TVD 5816.09
INC 62.17 AZ 359.54
VS 171.04 DL 7.01
MD 5955 TVD 5830.05
INC 66.1 AZ 359.56
VS 199.82 DL 12.28
MD 5987 TVD 5842.01
INC 70.02 AZ 359.45
VS 229.5 DL 12.25
Sea (-389)
MD 6018 TVD 5852.
INC 72.36 AZ 359.49
VS 258.84 DL 7.55
MD 6050 TVD 5860.61
INC 76.42 AZ 359.37
VS 289.65 DL 12.69
MD 6085 TVD 586
INC 79.28 AZ 359.
VS 323.86 DL 8.19
6 TVD,
N250 5842 TVD,
5985 MD
N400 5849 TVD,
6006 MD
5775
(+91
b plty-sb blky,
banded ip, sb
bent, tr yel min
t, 40% chk
5900-5950 Mrlst dk gy, sb plty-sb blky, frm, abnt Chk lt-med gy, banded ip, sb plty-sb blky, mod frm, rr yel min flor, fst oil cut, 50% mrlst, 50% chk
5950-6000 Mrlst dk gy, sb plty-sb blky, frm, occ Chk lt-med gy, banded ip, sb plty-sb blky, mod frm, tr bent, tr yel min flor, fst oil cut, 70% mrlst, 30% chk
6000-6050 Mrlst dk gy, sb plty-sb blky, frm, abnt Chk lt-med gy, banded ip, sb plty-sb blky, mod frm, rr yel min flor, fst oil cut, 60% mrlst, 40% chk
6050-6100 Mrlst dk gy, sb plty-sb blky, frm, abnt Chk lt-med gy, banded ip, sb plty-sb blky, mod frm, rr inoc, tr bent, tr yel min flor, fst oil cut, 60% mrlst, 40% chk


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 54.9%
Ethane 18.0%
Propane 12.9%
Butane 14.2%
9/1/2014
00
6150
6200
6250
6300
7.97
17
MD 6198 TVD 5880.1
INC 88.39 AZ 358.16
VS 436.06 DL 8.11
MD 6292 TVD 5880.12
INC 91.58 AZ 357.84
VS 529.99 DL 3.41
Reach intermediate casing depth at 6145' MD on 05:50; 8/31/2014, Begin to drill lateral at 13:15; 9/1/2014
5775
(-914)
6100-6145 Mrlst dk gy, sb plty-sb blky, frm, abnt Chk lt-med gy, banded ip, sb plty-sb blky, mod frm, rr inoc, tr bent, tr yel min flor, fst oil cut, 50% mrlst, 50% chk
6145-6200 Mrlst dk gy, sb plty-blky, frm, tr Chk lt gy-gy, banded ip, sb plty-sb blky, mod frm, tr inoc, rr bent, mod oil cut, 90% mrlst, 10% chk
6200-6300 Mrlst dk gy, sb plty-blky, frm, tr Chk lt gy-gy, banded ip, sb plty-sb blky, mod frm, tr inoc, rr bent, mod oil cut, 90% mrlst, 10% chk



MD 6388 TVD 5877.96 TVD
INC 91 AZ 358.74 b Sea (-389)
VS 625.92 DL 1.12

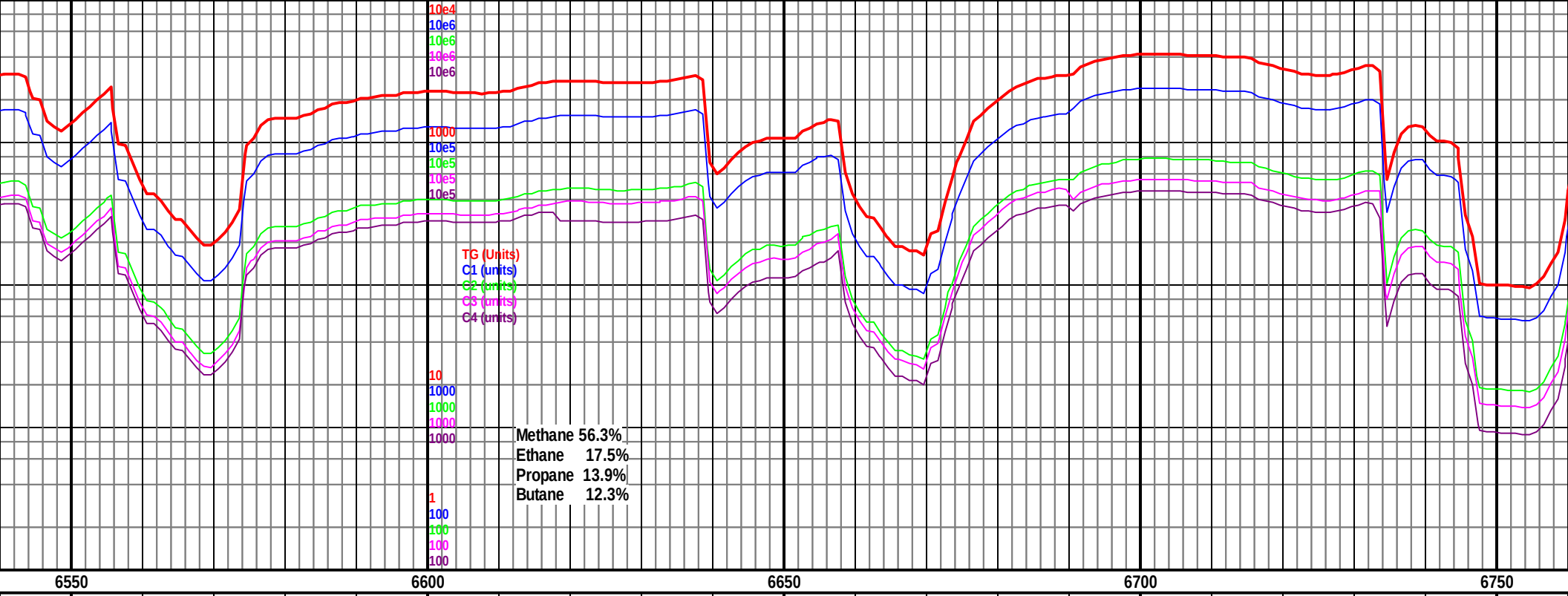
MD 6484 TVD 5875.96
INC 91.39 AZ 1.01
VS 721.89 DL 2.4

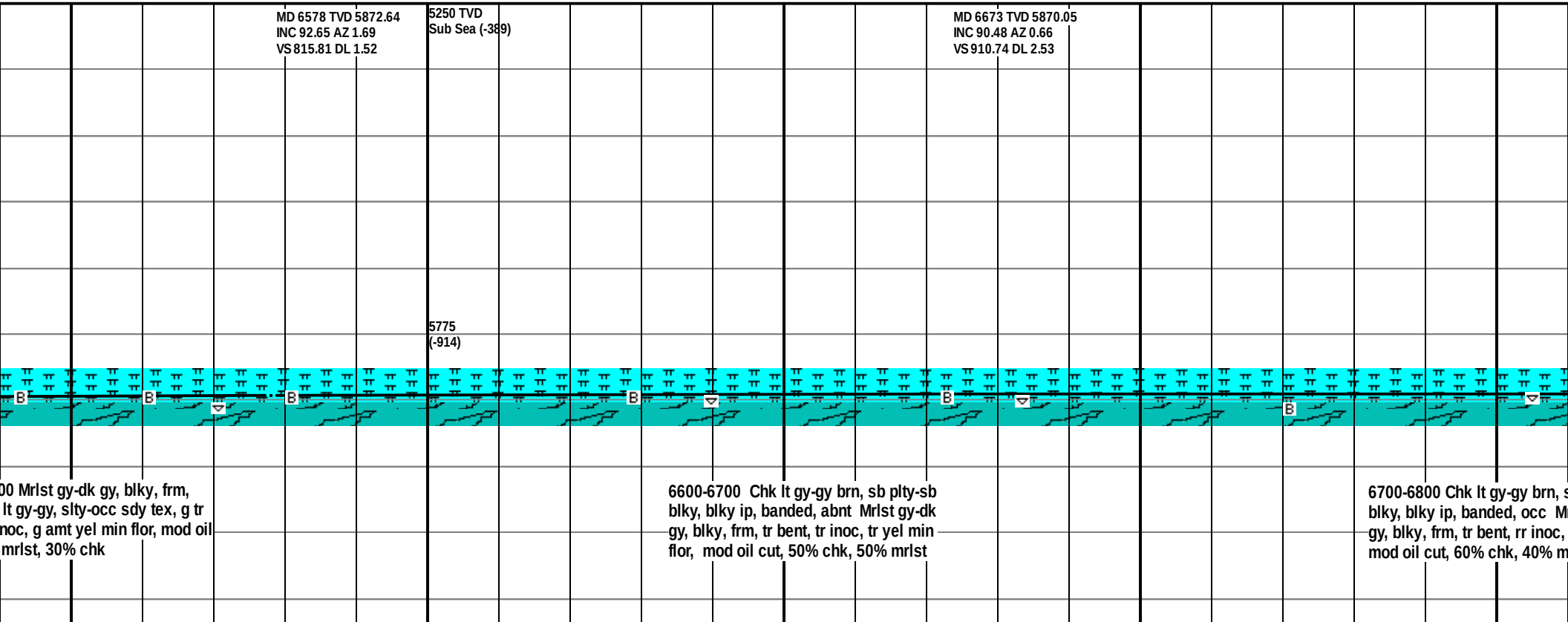
5775
(-914)

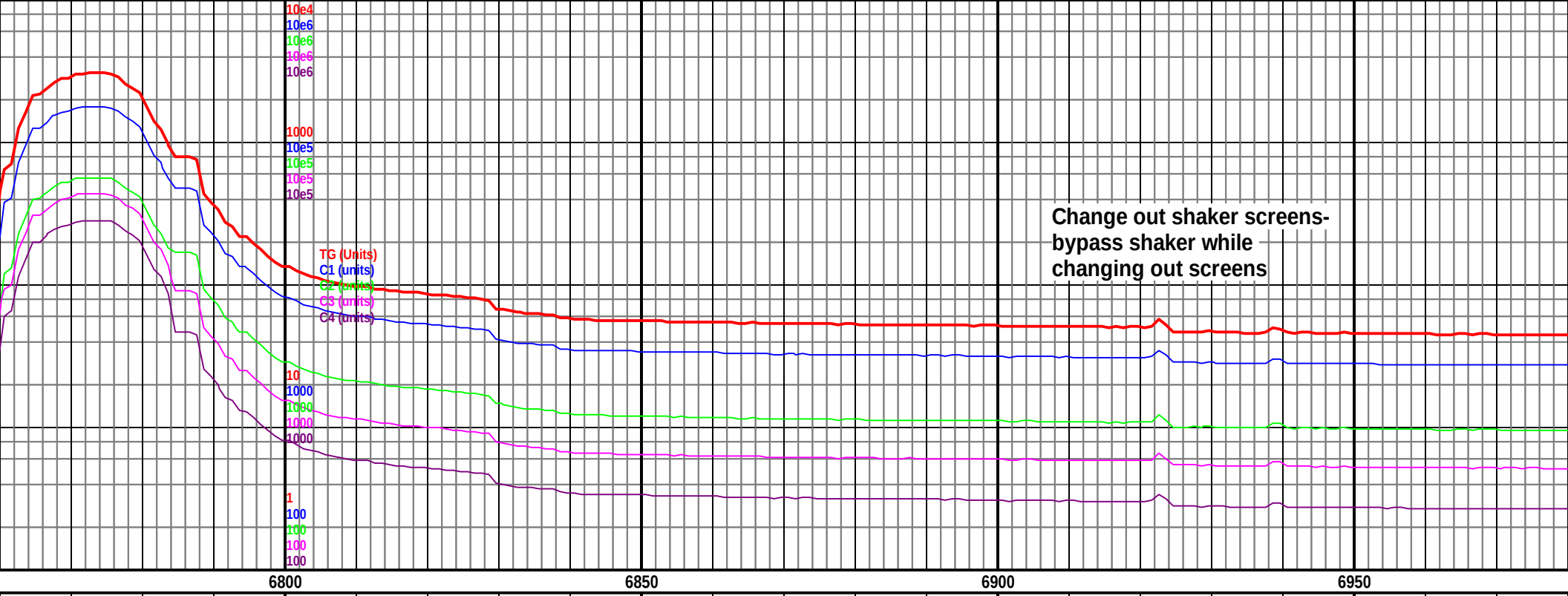
6300-6400 Mrlst gy-dk gy, blky, frm, tr Chk lt gy-gy, slty-occ sdy tex, tr calc, abnt bent, tr inoc, mod oil cut, 80% mrlst, 20% chk

6400-6500 Mrlst gy-dk gy, blky, frm, occ Chk lt gy-gy, slty-occ sdy tex, tr calc, tr bent, tr inoc, tr yel min flor, mod oil cut, 70% mrlst, 30% chk

6500-66
occ Chk
bent, tr i
cut,70%


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 56.3%
Ethane 17.5%
Propane 13.9%
Butane 12.3%
6550
6600
6650
6700
6750


MD 6578 TVD 5872.64
INC 92.65 AZ 1.69
VS 815.81 DL 1.52
5250 TVD
Sub Sea (-389)
MD 6673 TVD 5870.05
INC 90.48 AZ 0.66
VS 910.74 DL 2.53
5775
(-914)
00 Mrlst gy-dk gy, blky, frm,
lt gy-gy, slty-occ sdy tex, g tr
noc, g amt yel min flor, mod oil
mrlst, 30% chk
6600-6700 Chk lt gy-gy brn, sb plty-sb
blky, blky ip, banded, abnt Mrlst gy-dk
gy, blky, frm, tr bent, tr inoc, tr yel min
flor, mod oil cut, 50% chk, 50% mrlst
6700-6800 Chk lt gy-gy brn, s
blky, blky ip, banded, occ M
gy, blky, frm, tr bent, rr inoc,
mod oil cut, 60% chk, 40% m



MD 6768 TVD 5869.21
INC 90.53 AZ 1.36
VS 1005.72 DL 0.74

5250 TVD
Sub Sea (-389)

MD 6862 TVD 5869.64
INC 88.95 AZ 1.84
VS 1099.68 DL 1.76

MD 6958 TVD 5871.21
INC 89.18 AZ 1.71
VS 1195.62 DL 0.28

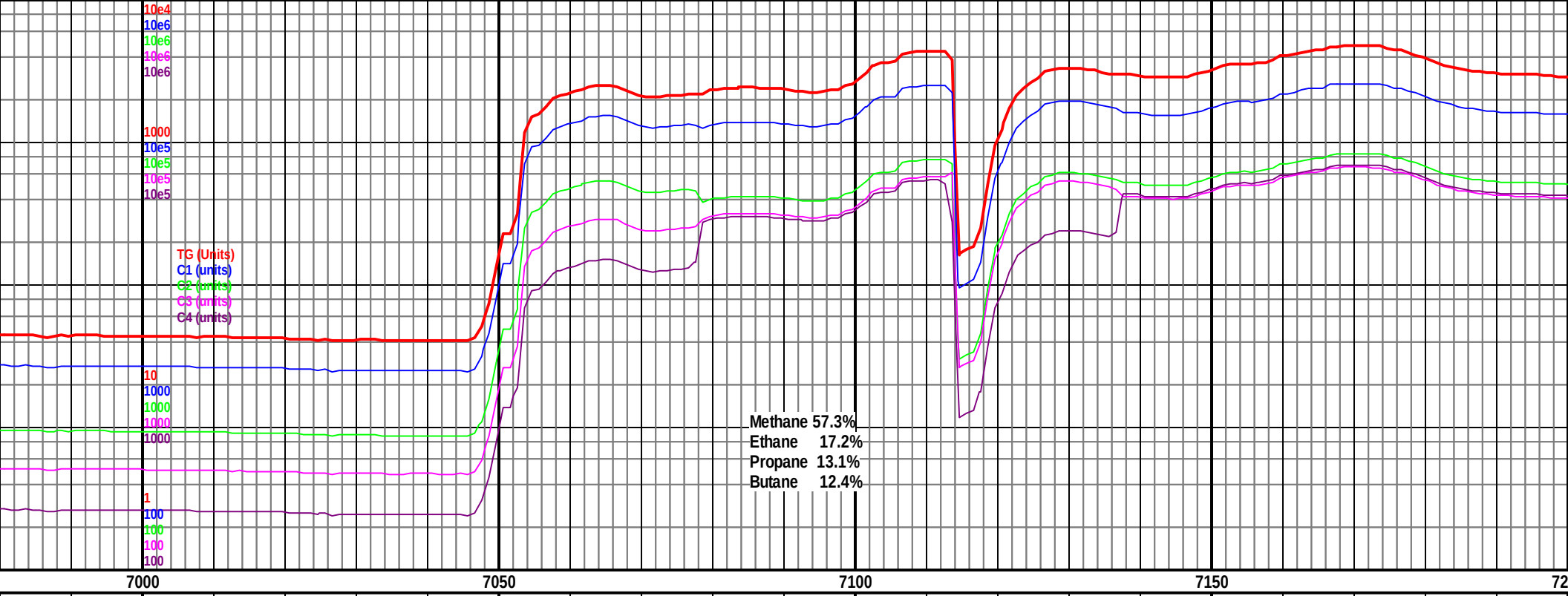
5775
(-914)

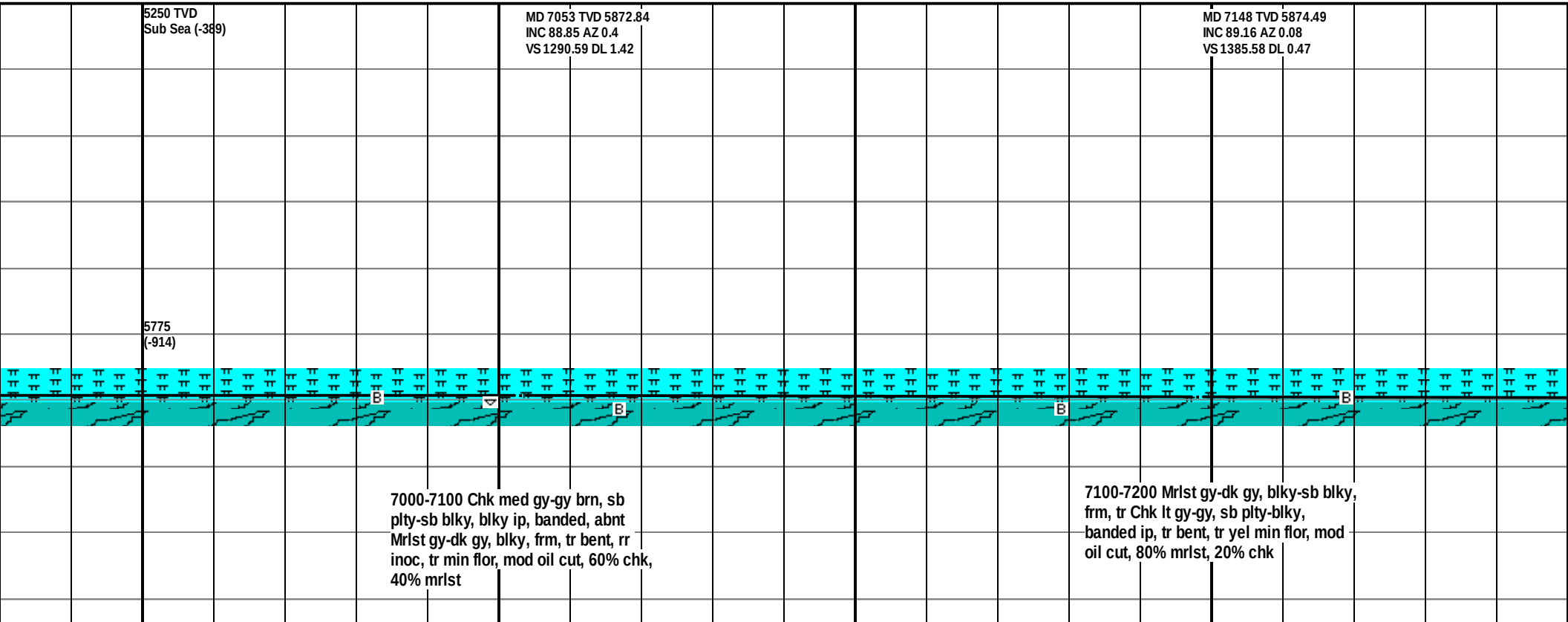
B B B B

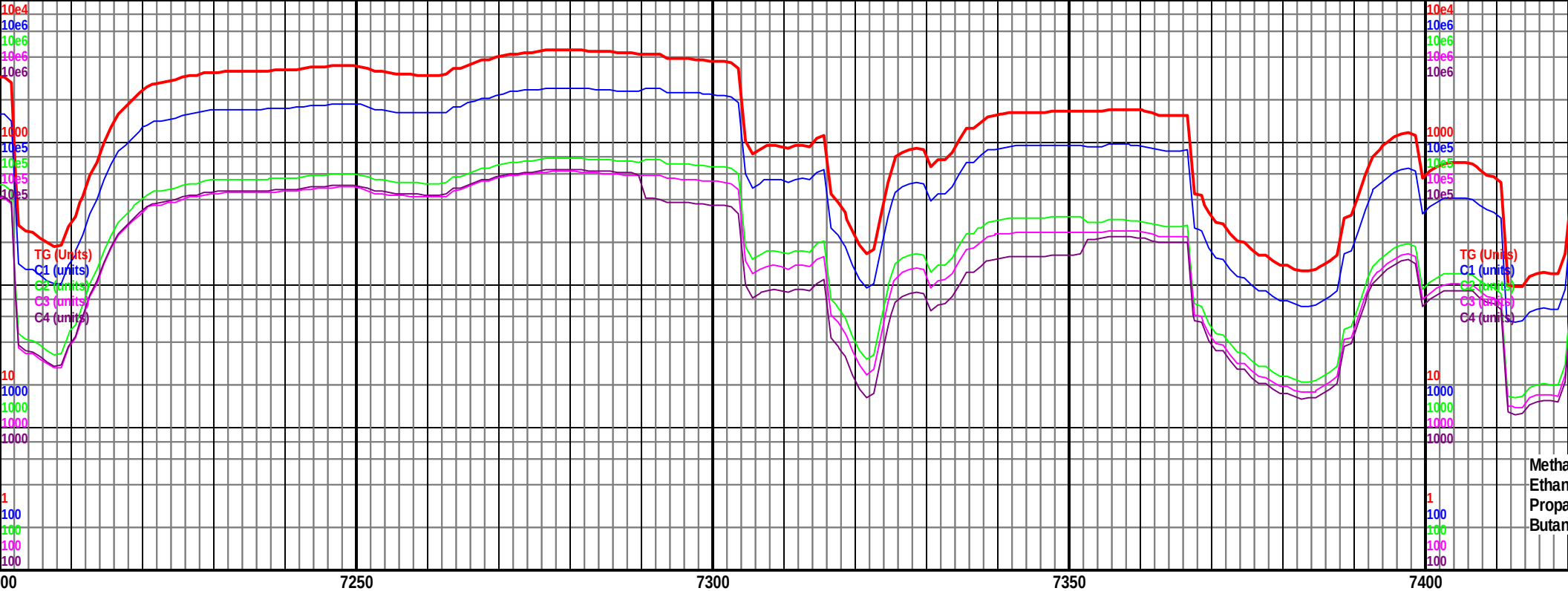
sb plty-sb
rlst gy-dk
tr min flor,
rlst

6800-6900 Chk lt gy-gy brn, sb plty-sb blky, blky ip, banded, abnt Mrlst gy-dk gy, blky, frm, tr bent, rr inoc, tr min flor, mod oil cut, 60% chk, 40% mrlst

6900-7000 Chk med gy-gy brn, sb plty-sb blky, blky ip, banded, abnt Mrlst gy-dk gy, blky, frm, tr bent, rr inoc, tr min flor, mod oil cut, 50% chk, 50% mrlst


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 57.3%
Ethane 17.2%
Propane 13.1%
Butane 12.4%
7000
7050
7100
7150
72


5250 TVD
Sub Sea (-389)
MD 7053 TVD 5872.84
INC 88.85 AZ 0.4
VS 1290.59 DL 1.42
MD 7148 TVD 5874.49
INC 89.16 AZ 0.08
VS 1385.58 DL 0.47
5775
(-914)
B
B
B
B
7000-7100 Chk med gy-gy brn, sb plty-sb blky, blky ip, banded, abnt Mrlst gy-dk gy, blky, frm, tr bent, rr inoc, tr min flor, mod oil cut, 60% chk, 40% mrlst
7100-7200 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, tr bent, tr yel min flor, mod oil cut, 80% mrlst, 20% chk



5250 TVD
Sub Sea (-389)

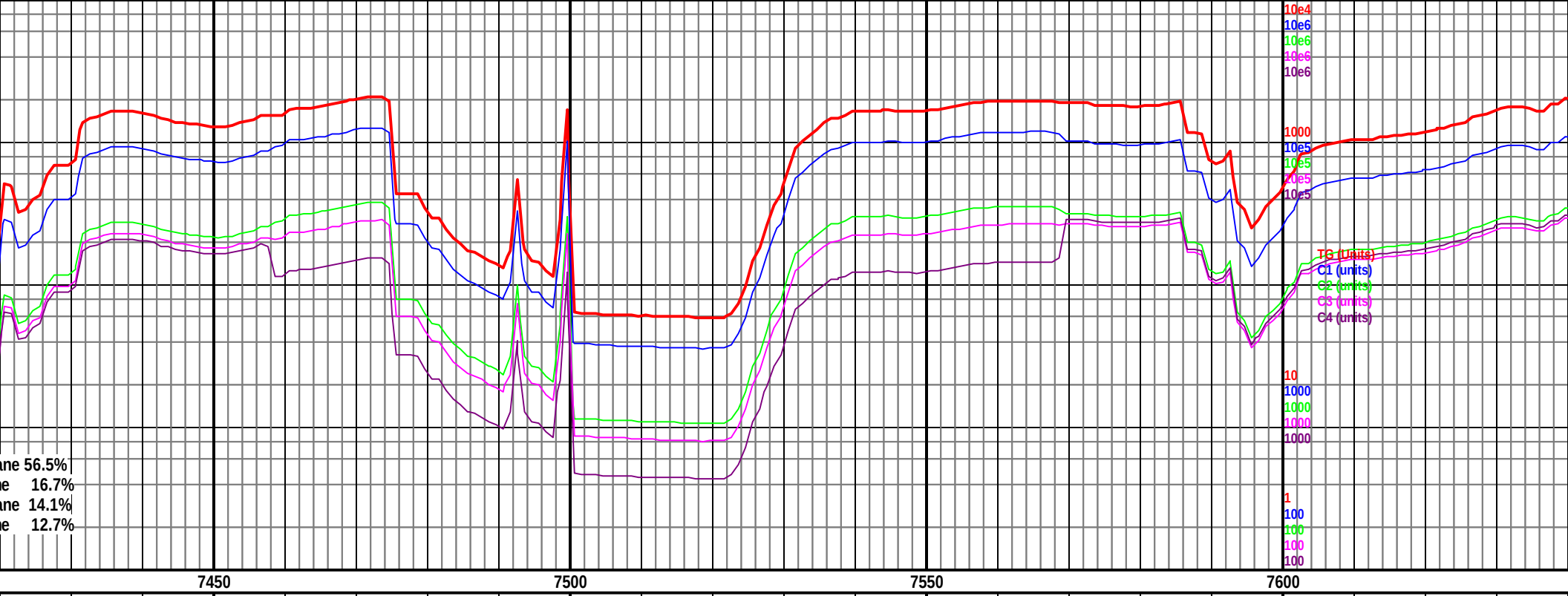
MD 7243 TVD 5876.23
INC 88.74 AZ 358.3
VS 1480.55 DL 1.92

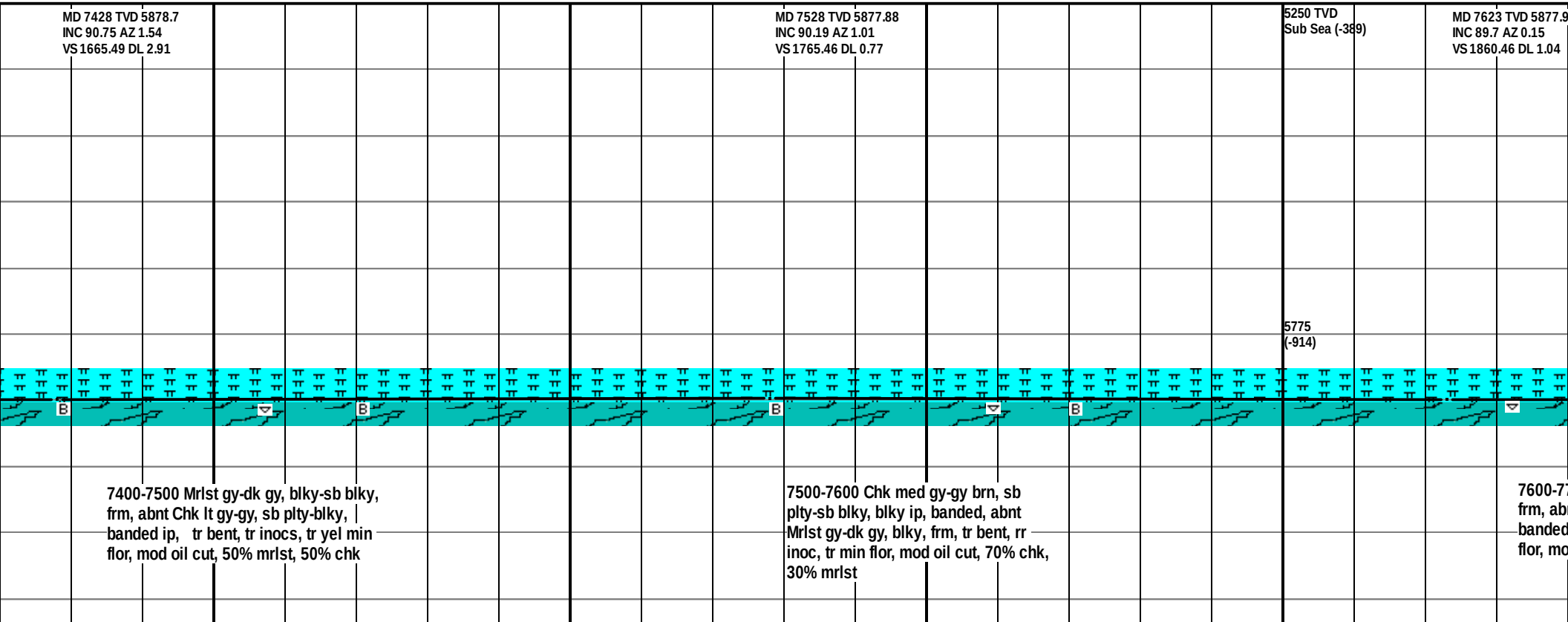
MD 7338 TVD 5878.31
INC 88.75 AZ 359.85
VS 1575.51 DL 1.63

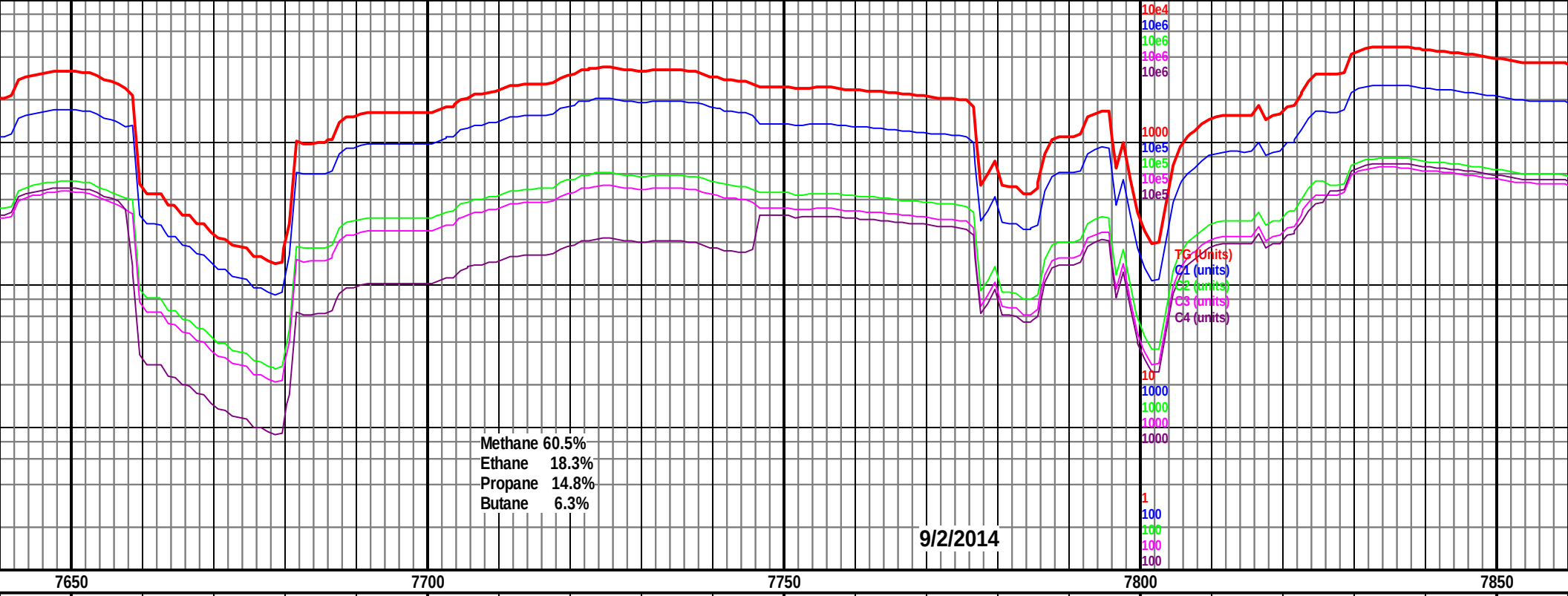
5775
(-914)

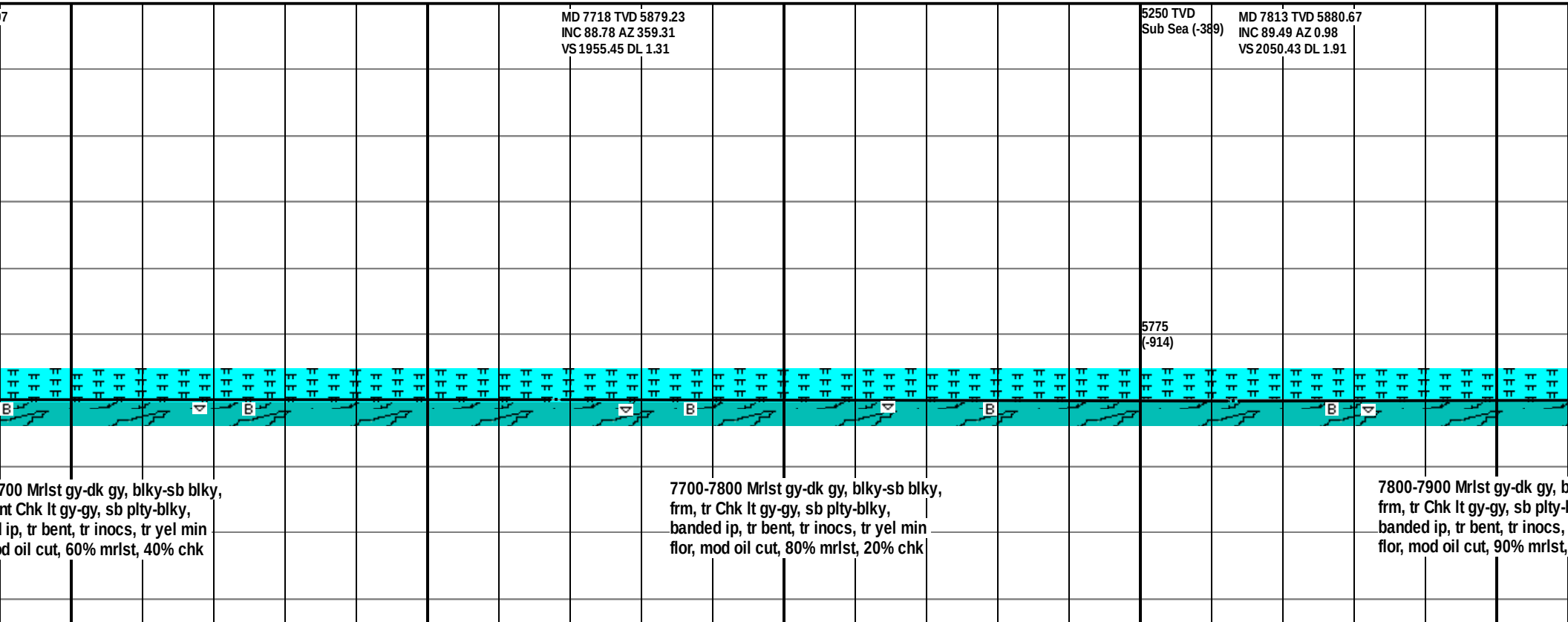
7200-7300 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, tr bent, tr yel min flor, mod oil cut, 90% mrlst, 10% chk

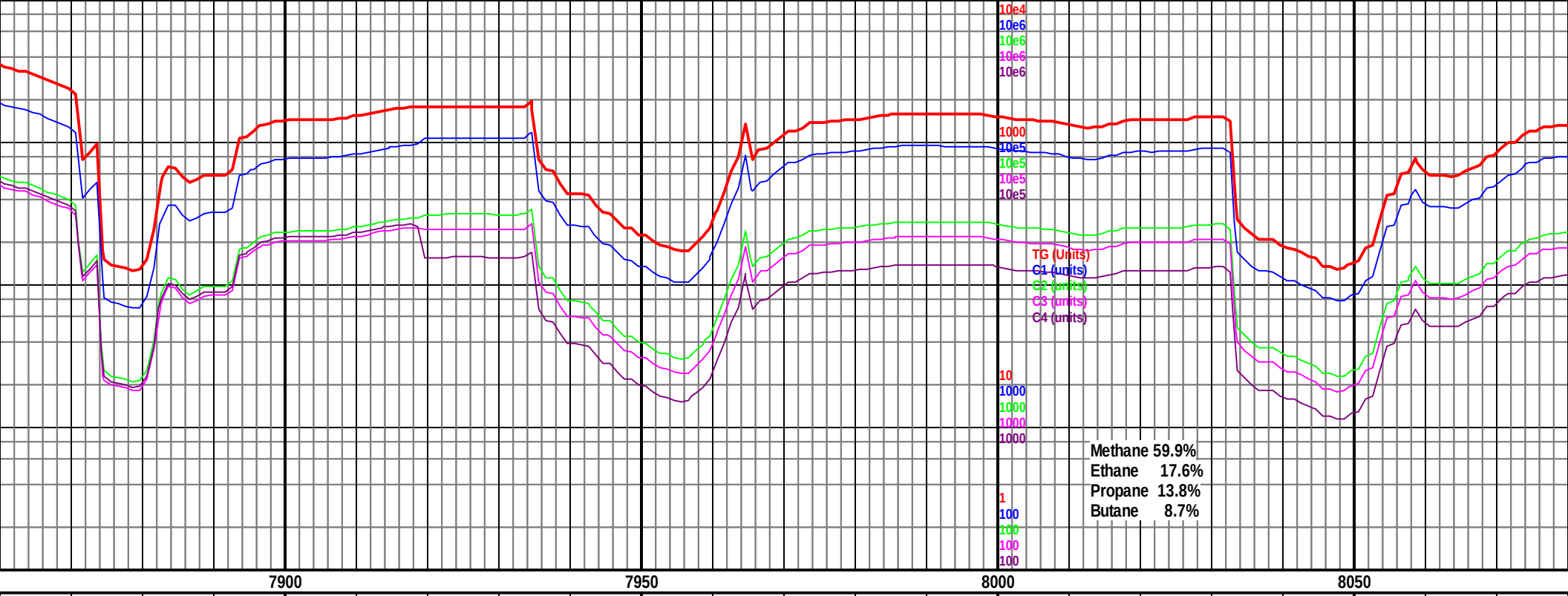
7300-7400 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy,sb plty-blky, banded ip, tr bent, tr inocs, tr yel min flor, mod oil cut, 80% mrlst, 20% chk

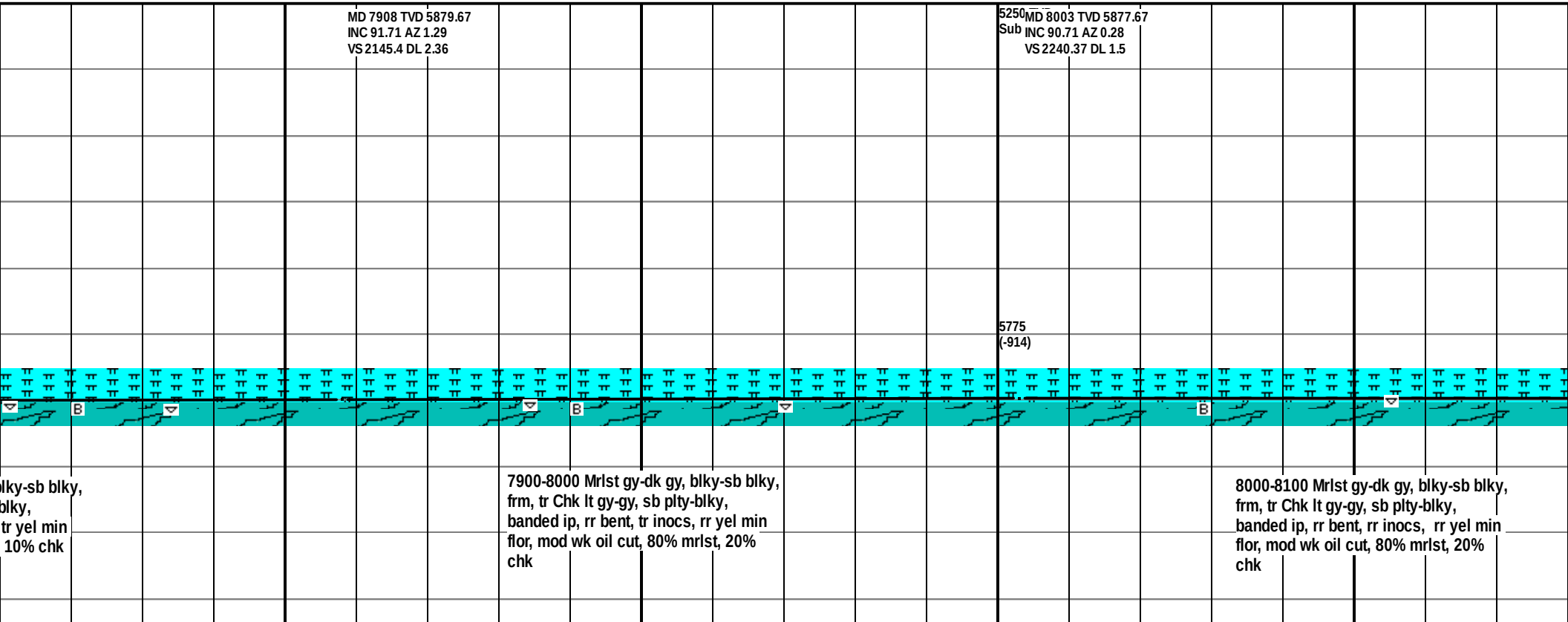

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
ane 56.5%
e 16.7%
ane 14.1%
e 12.7%
7450
7500
7550
7600

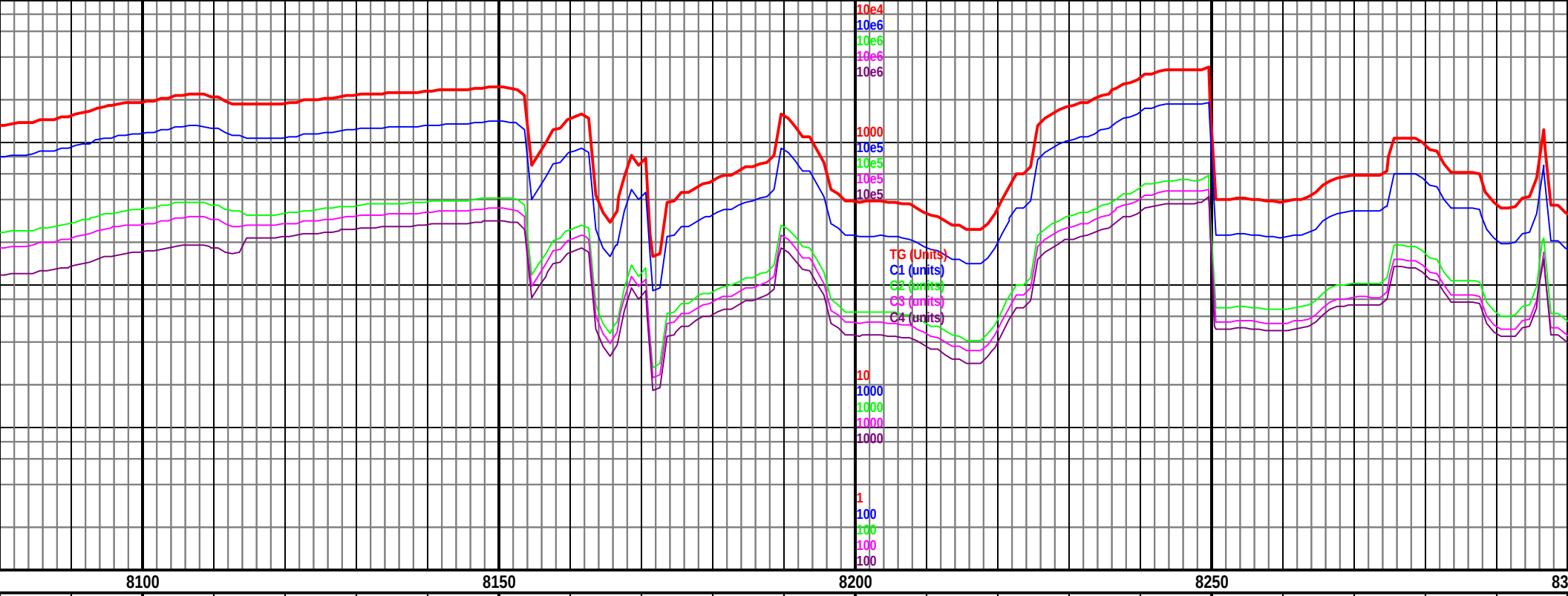

MD 7428 TVD 5878.7
INC 90.75 AZ 1.54
VS 1665.49 DL 2.91
MD 7528 TVD 5877.88
INC 90.19 AZ 1.01
VS 1765.46 DL 0.77
5250 TVD
Sub Sea (-389)
MD 7623 TVD 5877.9
INC 89.7 AZ 0.15
VS 1860.46 DL 1.04
5775
(-914)
B
B
B
B
7400-7500 Mrlst gy-dk gy, blky-sb blky, frm, abnt Chk lt gy-gy, sb plty-blky, banded ip, tr bent, tr inocs, tr yel min flor, mod oil cut, 50% mrlst, 50% chk
7500-7600 Chk med gy-gy brn, sb plty-sb blky, blky ip, banded, abnt Mrlst gy-dk gy, blky, frm, tr bent, rr inoc, tr min flor, mod oil cut, 70% chk, 30% mrlst
7600-7
frm, ab
banded
flor, mo


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 60.5%
Ethane 18.3%
Propane 14.8%
Butane 6.3%
9/2/2014
7650
7700
7750
7800
7850


MD 7718 TVD 5879.23
INC 88.78 AZ 359.31
VS 1955.45 DL 1.31
5250 TVD
Sub Sea (-389)
MD 7813 TVD 5880.67
INC 89.49 AZ 0.98
VS 2050.43 DL 1.91
5775
(-914)
B
B
B
B
B
700 Mrlst gy-dk gy, blky-sb blky,
nt Chk lt gy-gy, sb plty-blky,
l ip, tr bent, tr inocs, tr yel min
od oil cut, 60% mrlst, 40% chk
7700-7800 Mrlst gy-dk gy, blky-sb blky,
frm, tr Chk lt gy-gy, sb plty-blky,
banded ip, tr bent, tr inocs, tr yel min
flor, mod oil cut, 80% mrlst, 20% chk
7800-7900 Mrlst gy-dk gy, b
frm, tr Chk lt gy-gy, sb plty-
banded ip, tr bent, tr inocs,
flor, mod oil cut, 90% mrlst,


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 59.9%
Ethane 17.6%
Propane 13.8%
Butane 8.7%
7900
7950
8000
8050


MD 7908 TVD 5879.67
INC 91.71 AZ 1.29
VS 2145.4 DL 2.36
5250
Sub
MD 8003 TVD 5877.67
INC 90.71 AZ 0.28
VS 2240.37 DL 1.5
5775
(-914)
B
B
B
lky-sb blky,
blky,
tr yel min
10% chk
7900-8000 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, tr inocs, rr yel min flor, mod wk oil cut, 80% mrlst, 20% chk
8000-8100 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, rr inocs, rr yel min flor, mod wk oil cut, 80% mrlst, 20% chk



MD 8098 TVD 5876.82
INC 90.31 AZ 359.94
VS 2335.37 DL 0.55

MD 8193 TVD 5874.52
INC 92.47 AZ 0.72 (-349)
VS 2430.33 DL 2.42

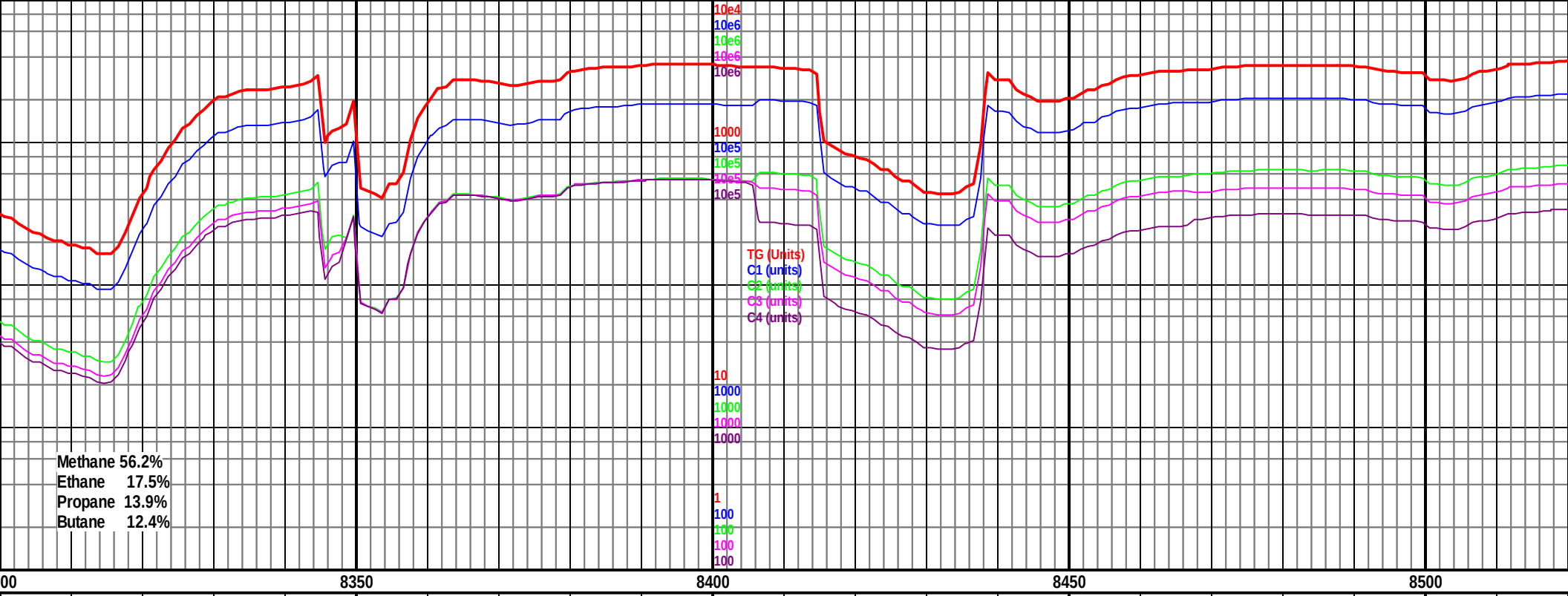
MD 8288 TVD
INC 92.78 AZ
VS 2525.23 DL

5775
(-914)

B B B

8100-8200 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, tr inocs, rr yel min flor, mod wk oil cut, 90% mrlst, 10% chk

8200-8300 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, rr inocs, rr yel min flor, mod wk oil cut, 80% mrlst, 20% chk



5870.17
359.75
1.07

MD 8383 TVD 5866.82
INC 91.26 AZ 1.3
VS 2620.16 DL 2.28

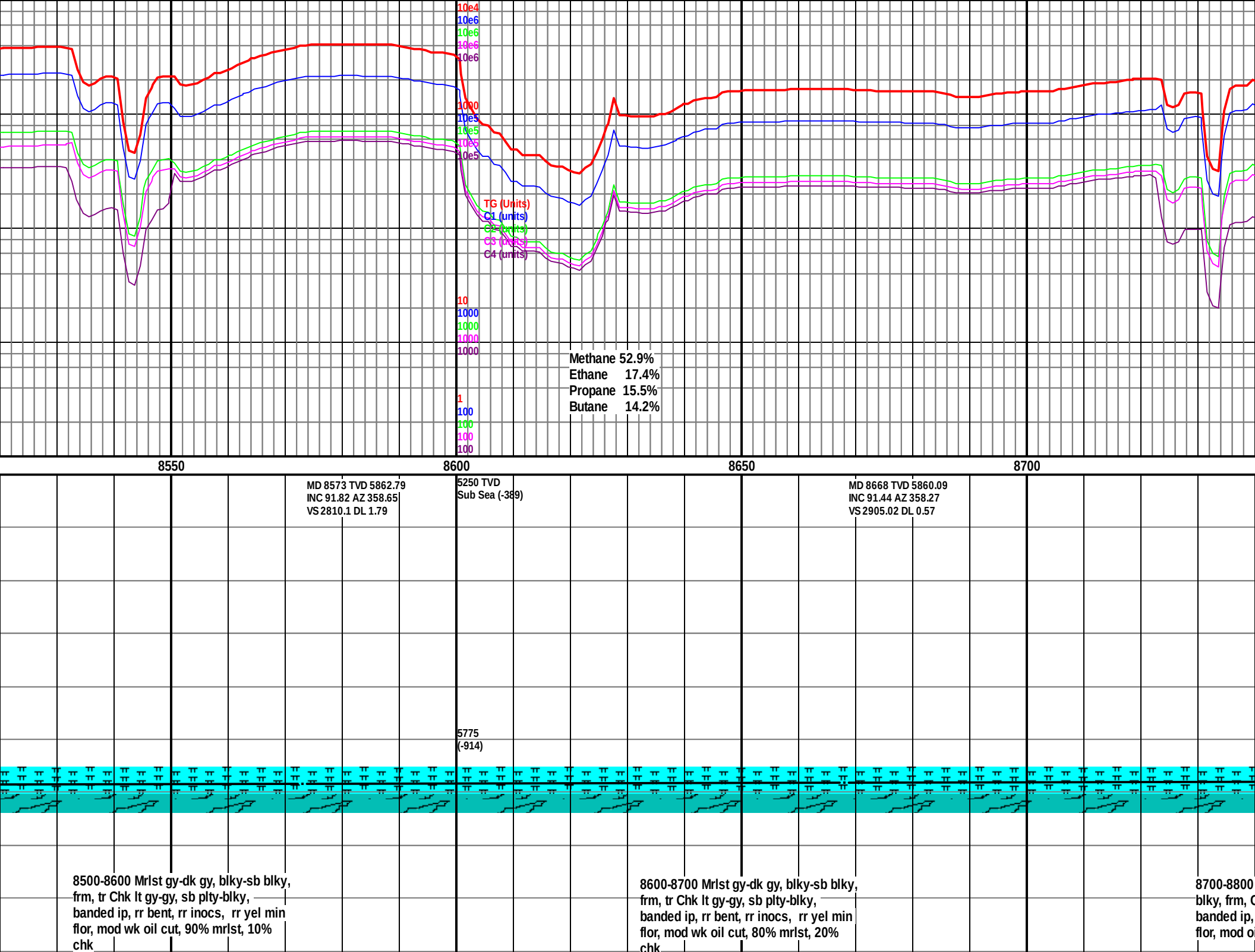
250 TVD
Sub Sea (-389)

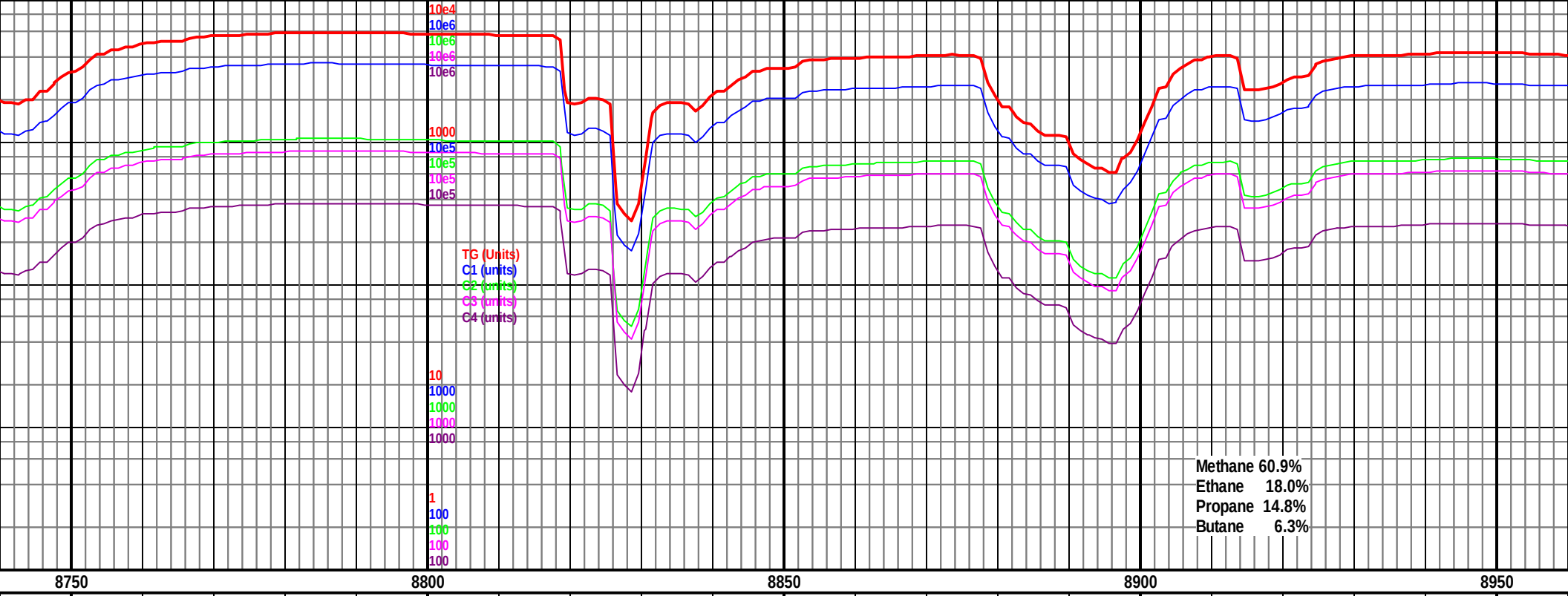
MD 8478 TVD 5865.04
INC 90.89 AZ 0.07
VS 2715.13 DL 1.35

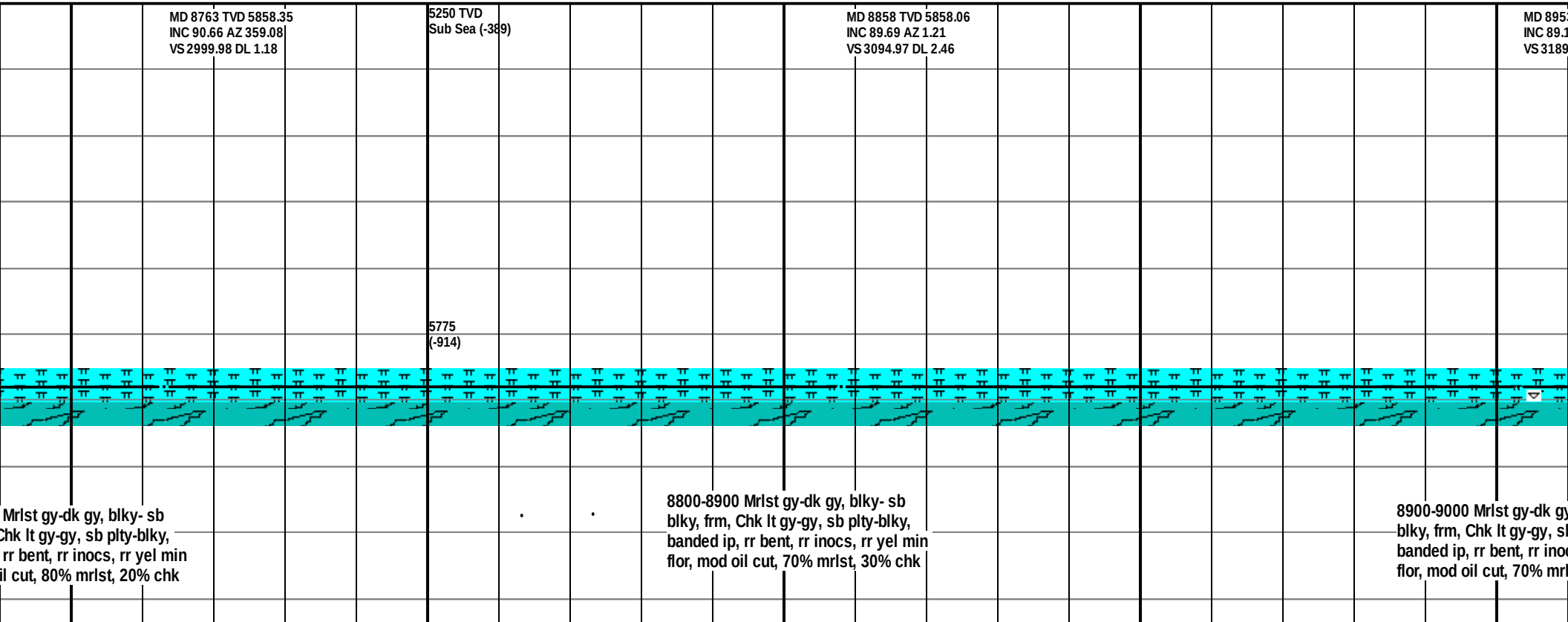
5775
(-914)

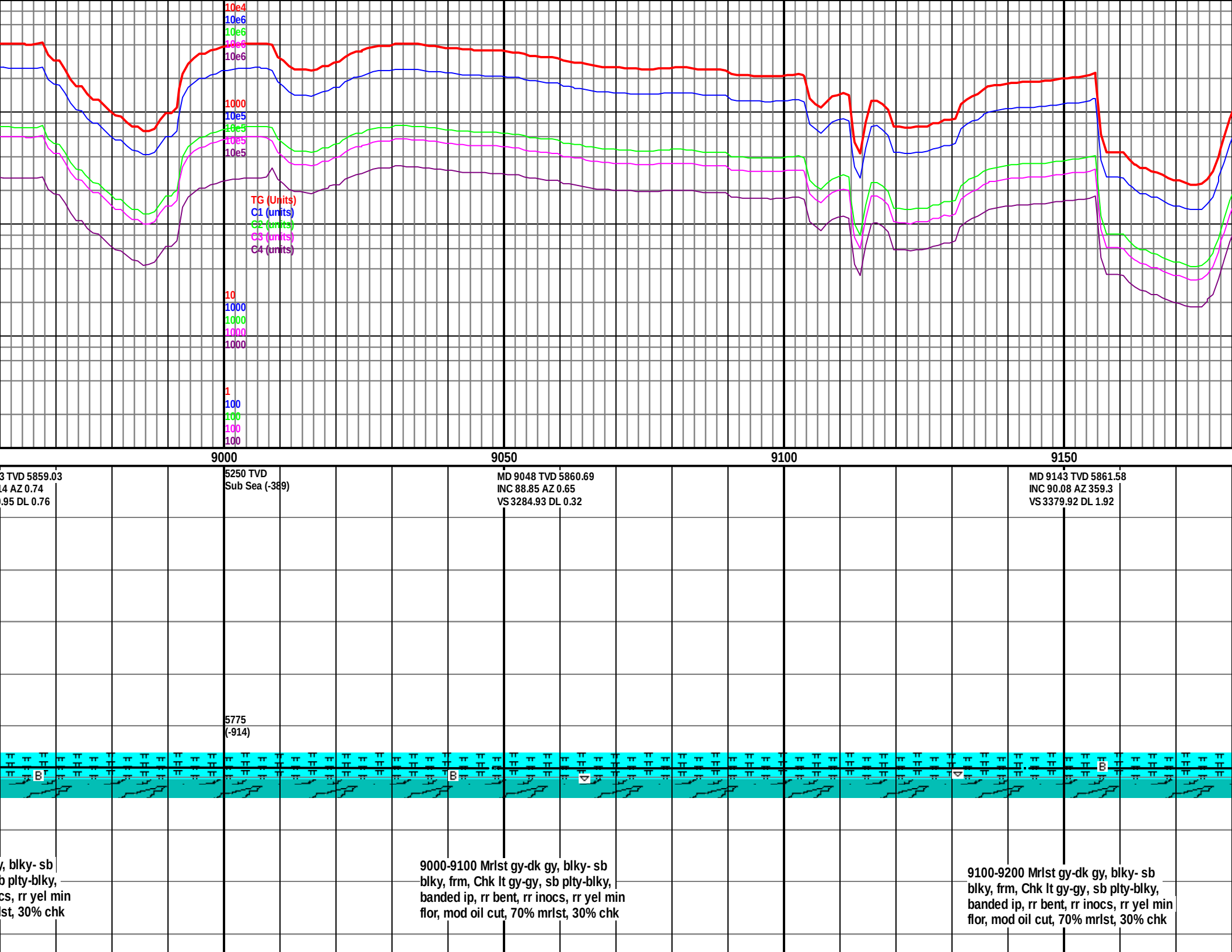
8300-8400 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, rr inocs, rr yel min flor, mod wk oil cut, 80% mrlst, 20% chk

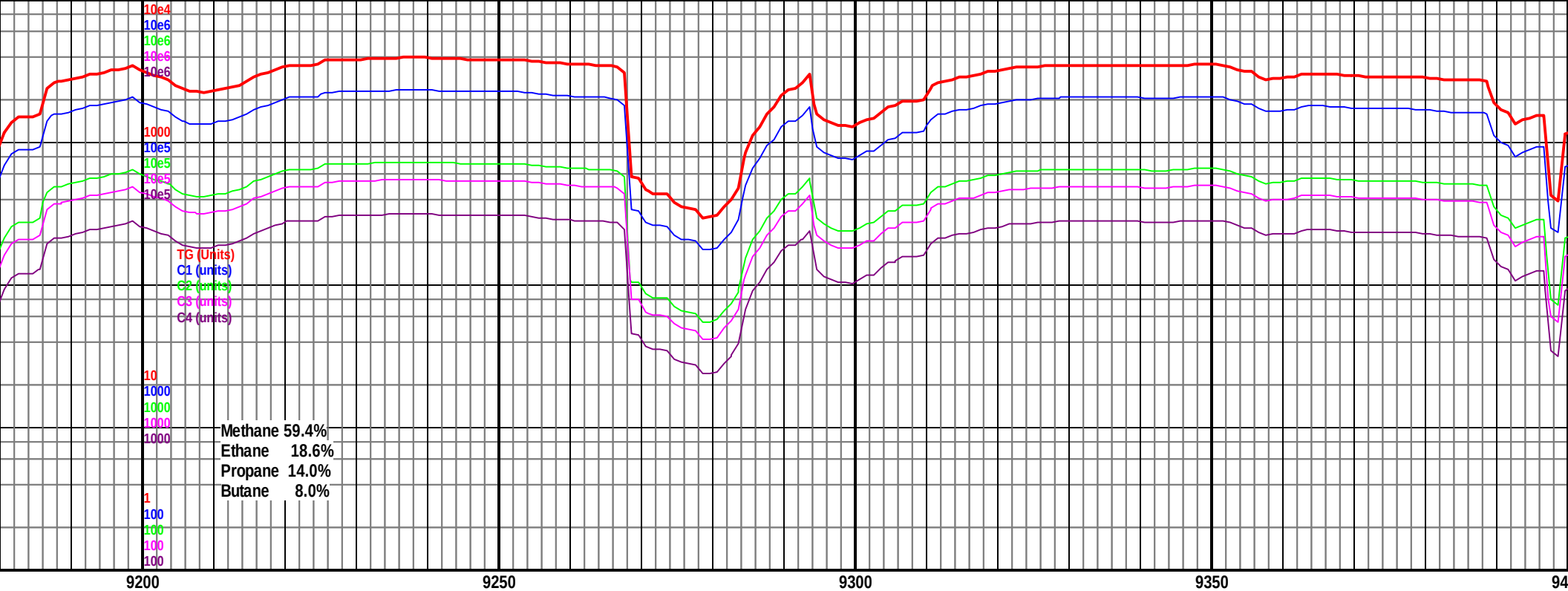
8400-8500 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, rr inocs, rr yel min flor, mod wk oil cut, 80% mrlst, 20% chk

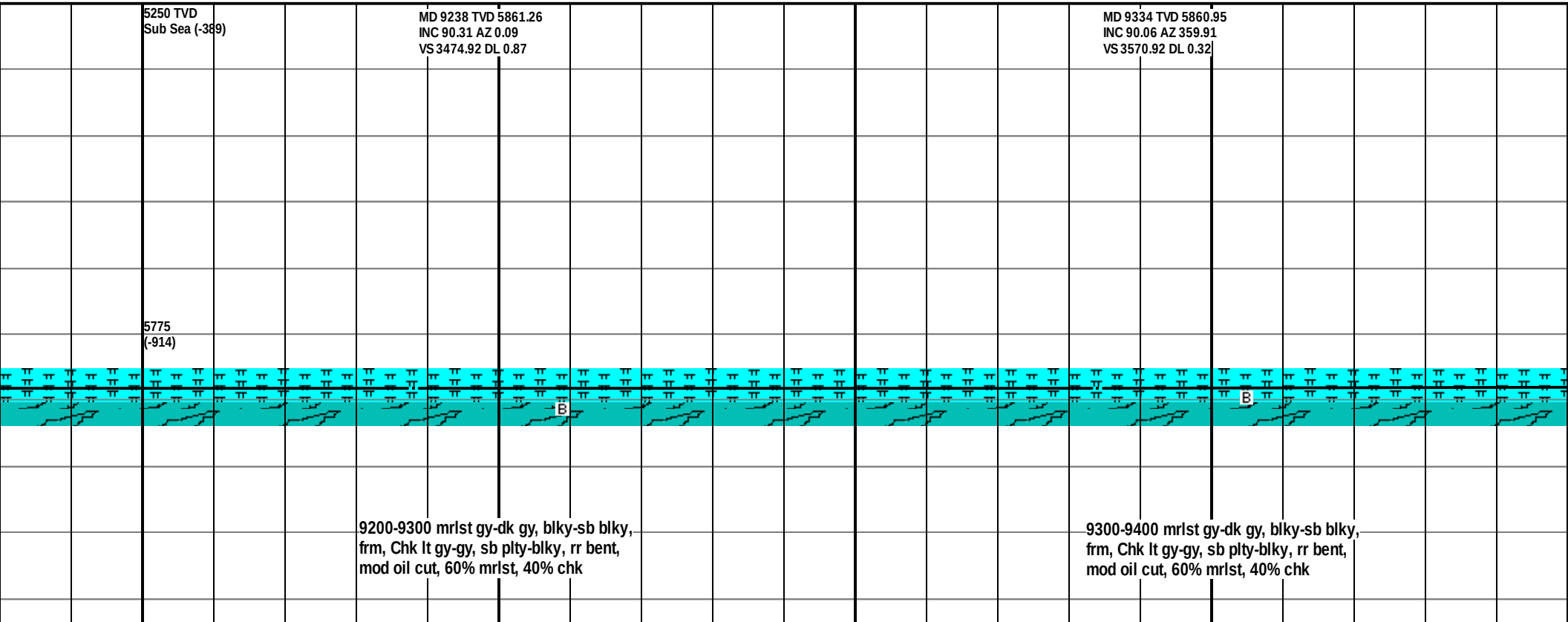

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 52.9%
Ethane 17.4%
Propane 15.5%
Butane 14.2%
8550
8600
8650
8700
MD 8573 TVD 5862.79
INC 91.82 AZ 358.65
VS 2810.1 DL 1.79
5250 TVD
Sub Sea (-389)
MD 8668 TVD 5860.09
INC 91.44 AZ 358.27
VS 2905.02 DL 0.57
5775
(-914)
8500-8600 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, rr inocs, rr yel min flor, mod wk oil cut, 90% mrlst, 10% chk
8600-8700 Mrlst gy-dk gy, blky-sb blky, frm, tr Chk lt gy-gy, sb plty-blky, banded ip, rr bent, rr inocs, rr yel min flor, mod wk oil cut, 80% mrlst, 20% chk
8700-8800
blky, frm,
banded ip,
flor, mod o

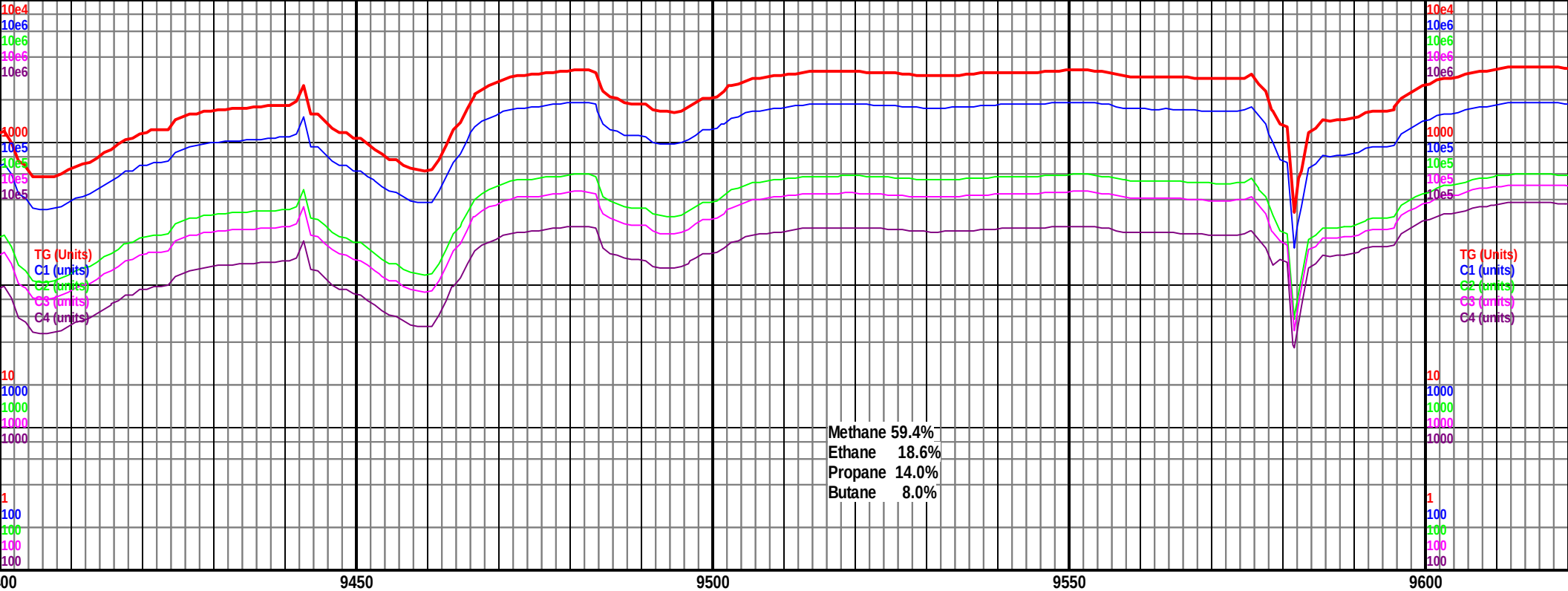

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 60.9%
Ethane 18.0%
Propane 14.8%
Butane 6.3%
8750
8800
8850
8900
8950

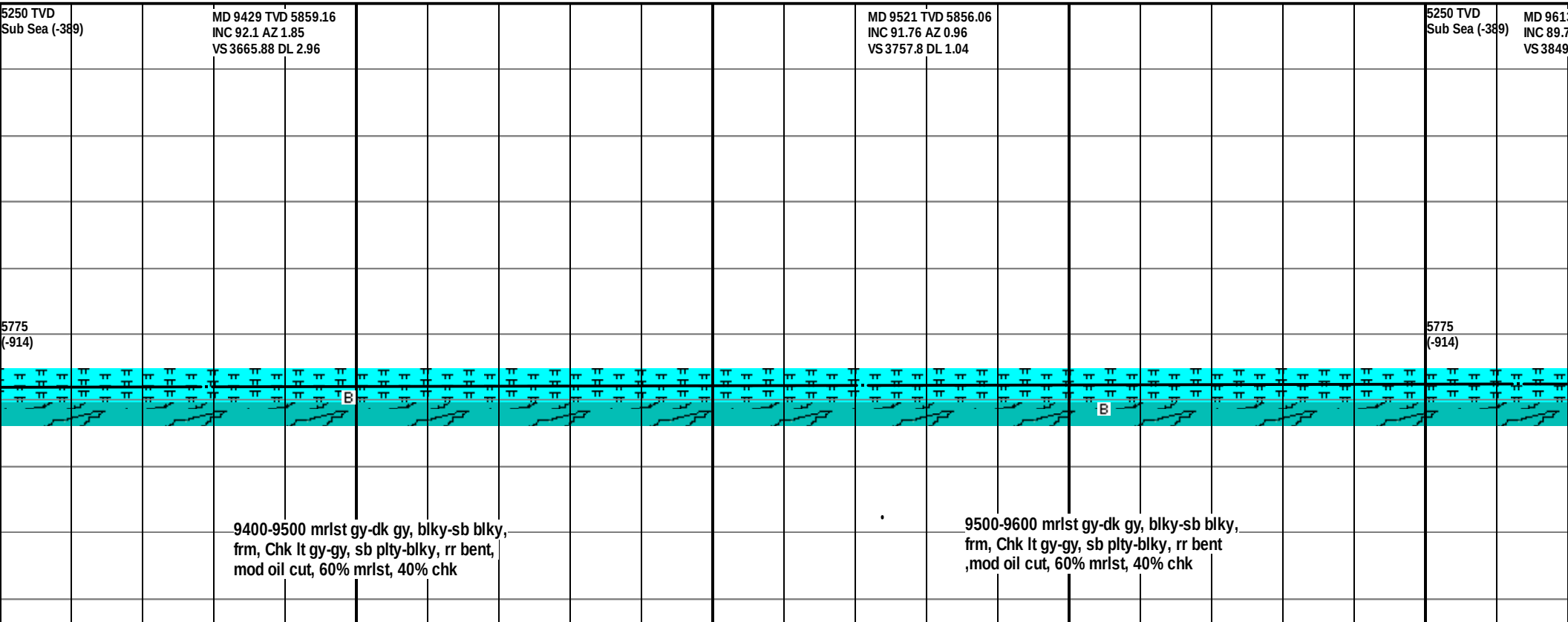

MD 8763 TVD 5858.35
INC 90.66 AZ 359.08
VS 2999.98 DL 1.18
5250 TVD
Sub Sea (-389)
MD 8858 TVD 5858.06
INC 89.69 AZ 1.21
VS 3094.97 DL 2.46
MD 895
INC 89.1
VS 3189
5775
(-914)
Mrlst gy-dk gy, blky- sb
Chk lt gy-gy, sb plty-blky,
rr bent, rr inocs, rr yel min
il cut, 80% mrlst, 20% chk
8800-8900 Mrlst gy-dk gy, blky- sb
blky, frm, Chk lt gy-gy, sb plty-blky,
banded ip, rr bent, rr inocs, rr yel min
flor, mod oil cut, 70% mrlst, 30% chk
8900-9000 Mrlst gy-dk gy
blky, frm, Chk lt gy-gy, sl
banded ip, rr bent, rr inoc
flor, mod oil cut, 70% mrl

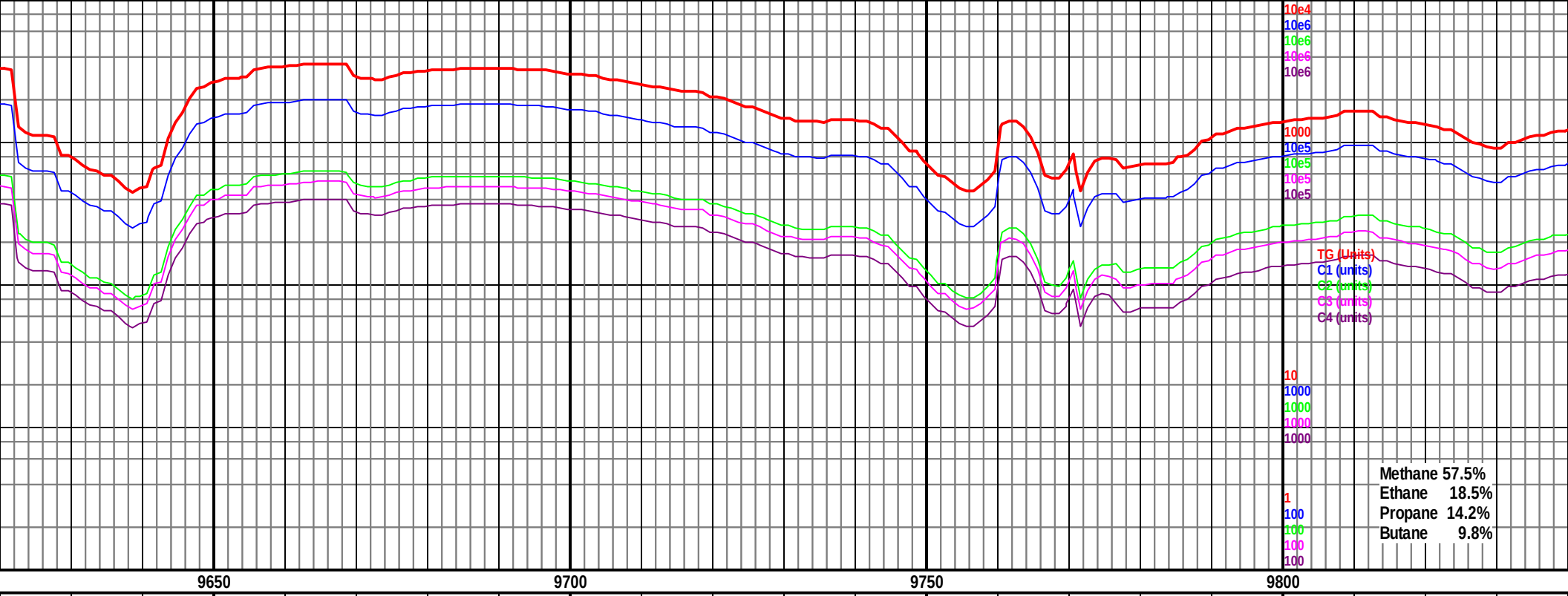

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
9000
9050
9100
9150
3 TVD 5859.03
14 AZ 0.74
.95 DL 0.76
5250 TVD
Sub Sea (-389)
MD 9048 TVD 5860.69
INC 88.85 AZ 0.65
VS 3284.93 DL 0.32
MD 9143 TVD 5861.58
INC 90.08 AZ 359.3
VS 3379.92 DL 1.92
5775
(-914)
B
B
B
y, blky- sb
b plty-blky,
cs, rr yel min
lst, 30% chk
9000-9100 Mrlst gy-dk gy, blky- sb
blky, frm, Chk lt gy-gy, sb plty-blky,
banded ip, rr bent, rr inocs, rr yel min
flor, mod oil cut, 70% mrlst, 30% chk
9100-9200 Mrlst gy-dk gy, blky- sb
blky, frm, Chk lt gy-gy, sb plty-blky,
banded ip, rr bent, rr inocs, rr yel min
flor, mod oil cut, 70% mrlst, 30% chk


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 59.4%
Ethane 18.6%
Propane 14.0%
Butane 8.0%
9200
9250
9300
9350
94


5250 TVD
Sub Sea (-389)
MD 9238 TVD 5861.26
INC 90.31 AZ 0.09
VS 3474.92 DL 0.87
MD 9334 TVD 5860.95
INC 90.06 AZ 359.91
VS 3570.92 DL 0.32
5775
(-914)
B
B
9200-9300 mrlst gy-dk gy, blky-sb blky, frm, Chk lt gy-gy, sb plty-blky, rr bent, mod oil cut, 60% mrlst, 40% chk
9300-9400 mrlst gy-dk gy, blky-sb blky, frm, Chk lt gy-gy, sb plty-blky, rr bent, mod oil cut, 60% mrlst, 40% chk


TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Methane 59.4%
Ethane 18.6%
Propane 14.0%
Butane 8.0%
9450
9500
9550
9600


5250 TVD
Sub Sea (-389)
MD 9429 TVD 5859.16
INC 92.1 AZ 1.85
VS 3665.88 DL 2.96
MD 9521 TVD 5856.06
INC 91.76 AZ 0.96
VS 3757.8 DL 1.04
5775
(-914)
B
9400-9500 mrlst gy-dk gy, blky-sb blky, frm, Chk lt gy-gy, sb plty-blky, rr bent, mod oil cut, 60% mrlst, 40% chk
9500-9600 mrlst gy-dk gy, blky-sb blky, frm, Chk lt gy-gy, sb plty-blky, rr bent ,mod oil cut, 60% mrlst, 40% chk



3 TVD 5854.85
74 AZ 0.93
.78 DL 2.2

MD 9706 TVD 5856.28
INC 88.5 AZ 359.27
VS 3942.76 DL 2.23

MD 9799 TVD 5857.91
INC 89.49 AZ 359.81
VS 4035.74 DL 1.21

5775
(-914)

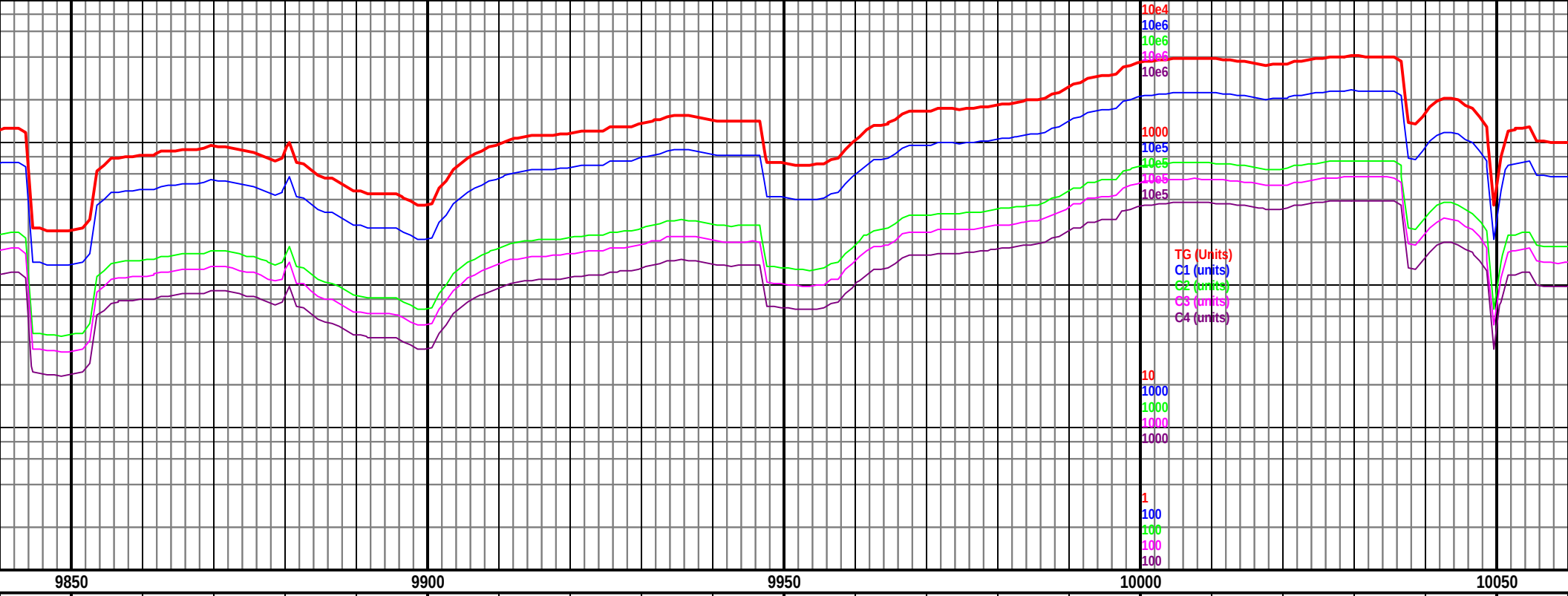
B

B

9600-9700 mrlst gy-dk gy, blky-sb blky, frm, Chk lt gy-gy, sb plty-blky, rr bent, mod oil cut, 60% mrlst, 40% chk

9700-9800 mrlst gy-dk gy, blky-sb blky, frm, Chk lt gy-gy, sb plty-blky, rr bent, mod oil cut, 60% mrlst, 40% chk

9800-99
frm, Chl
mod oil



9850 9900 9950 10000 10050

MD 9891 TVD 5859.
INC 89.16 AZ 359.34
VS 4127.73 DL 0.62

MD 9982 TVD 5861.01
INC 88.3 AZ 358.29
VS 4218.69 DL 1.49

5250 TVD
Sub Sea (-389)

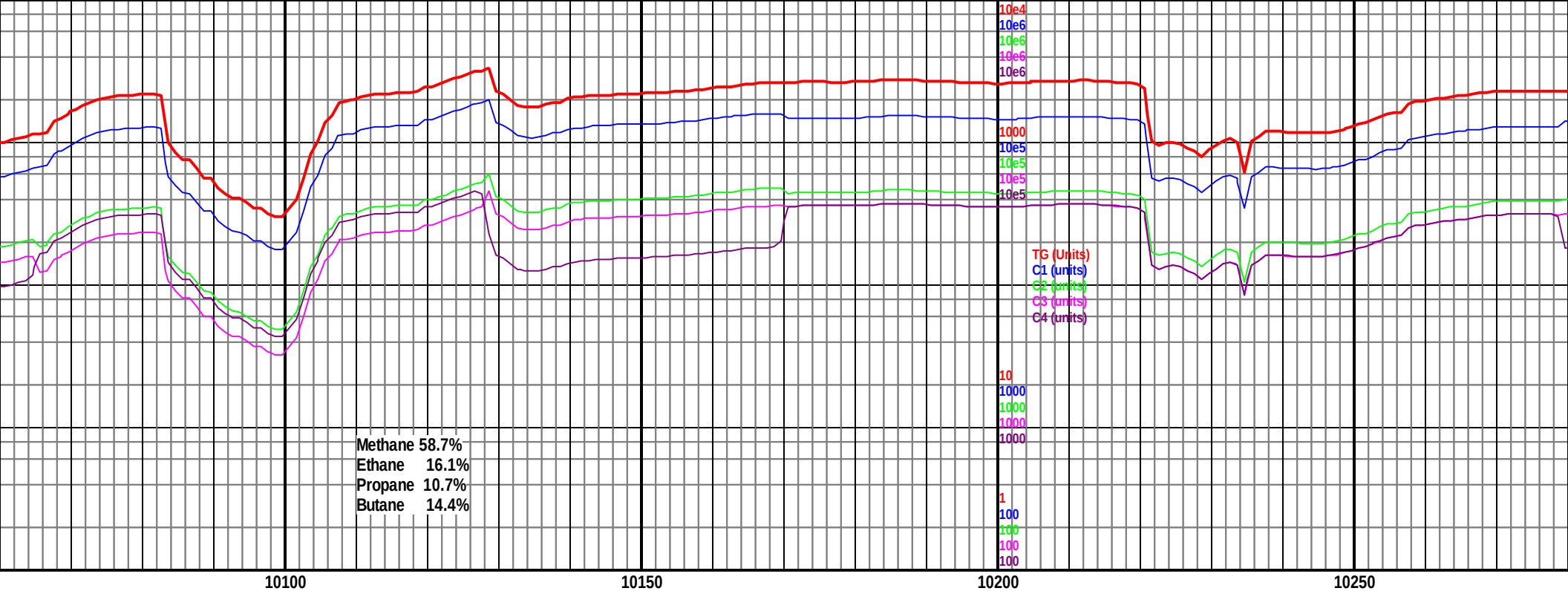
5775
(-914)

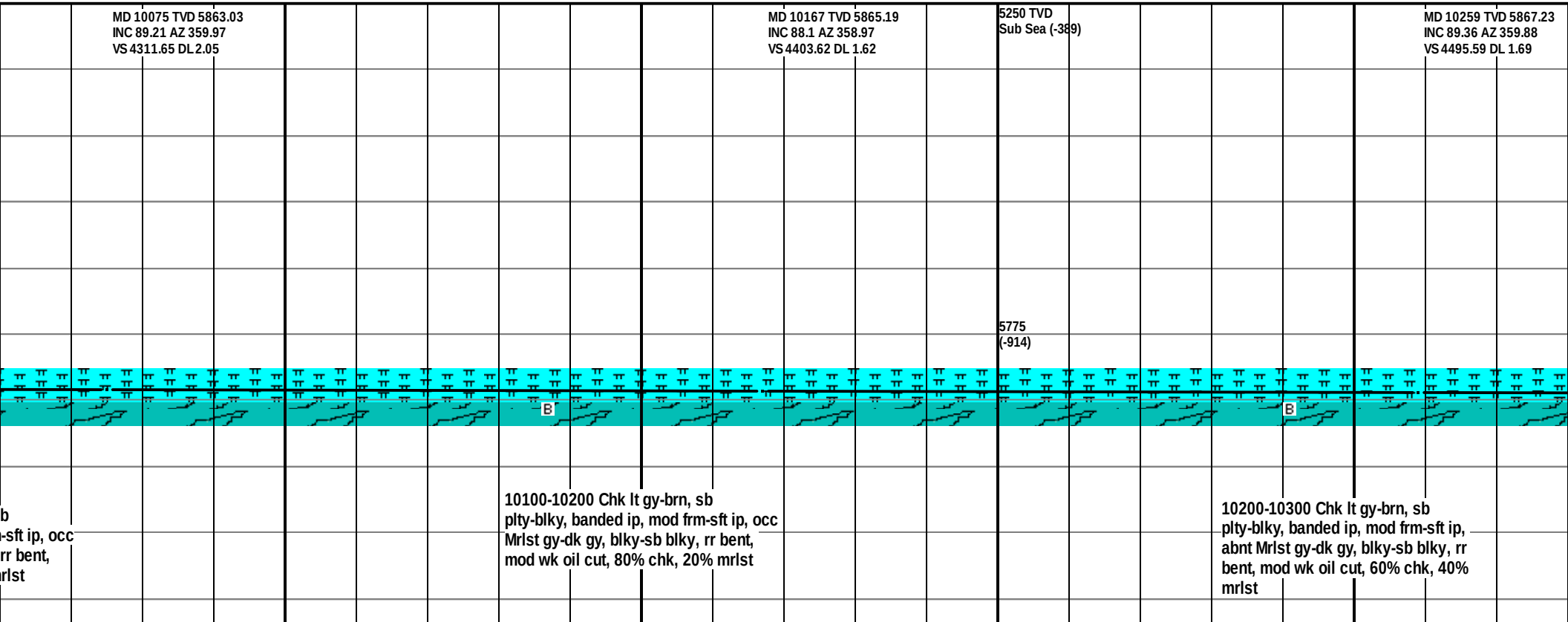
B B B

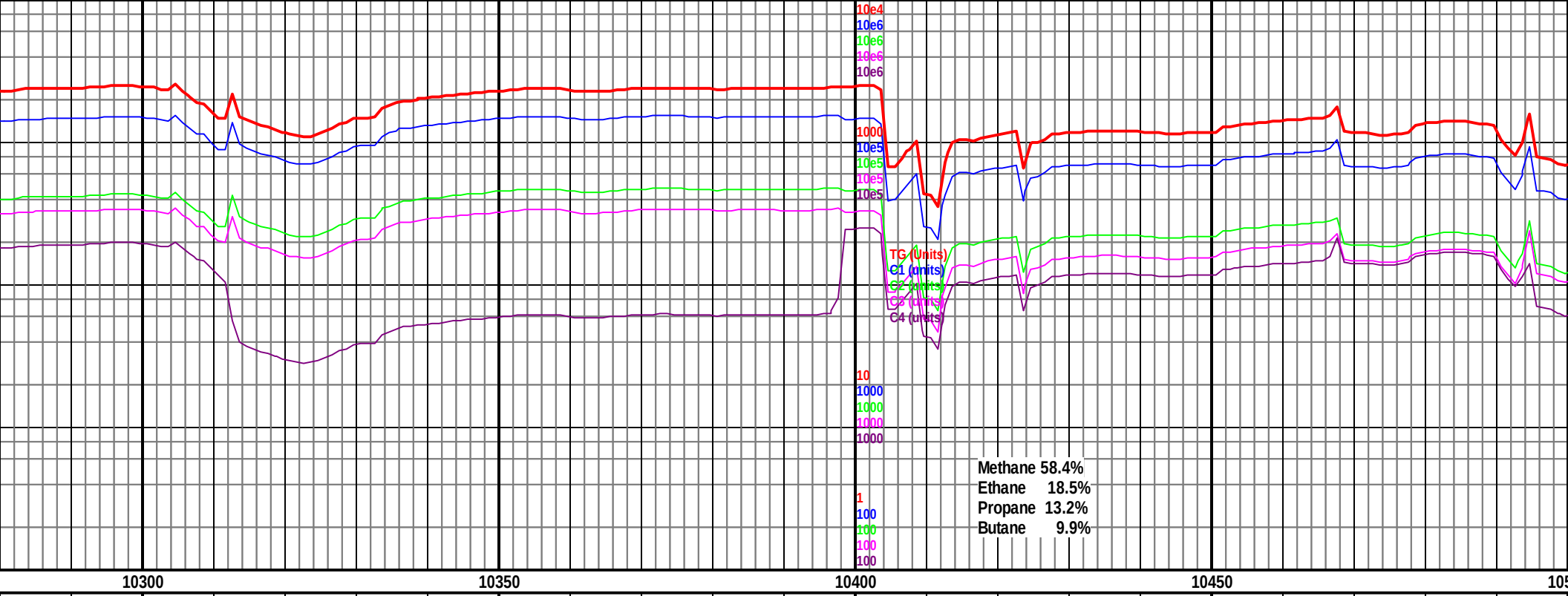
900 mrlst gy-dk gy, blky-sb blky,
k lt gy-gy, sb plty-blky, rr bent,
cut, 60% mrlst, 40% chk

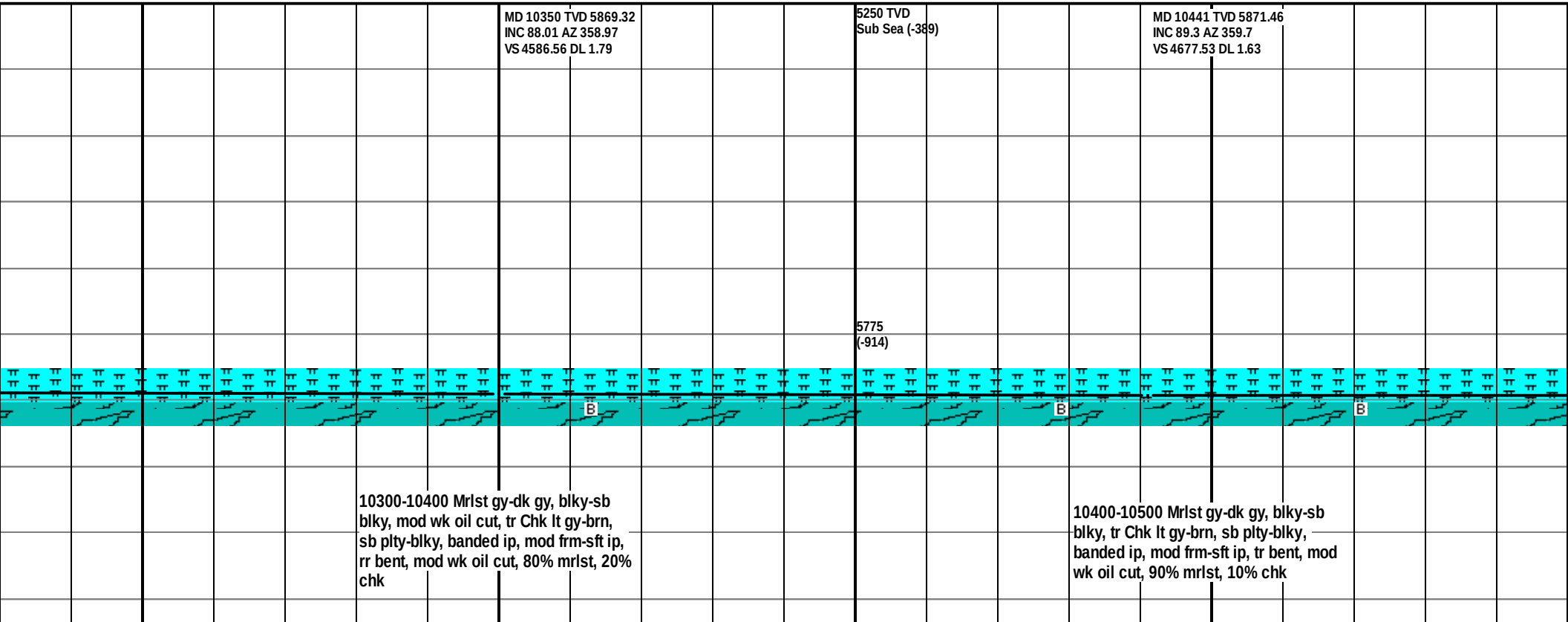
9900-10000 Chk lt gy-brn, sb plty-blky,
occ Mrlst gy-dk gy, blky-sb blky, rr
bent, mod oil cut, 60% chk, 40% mrlst

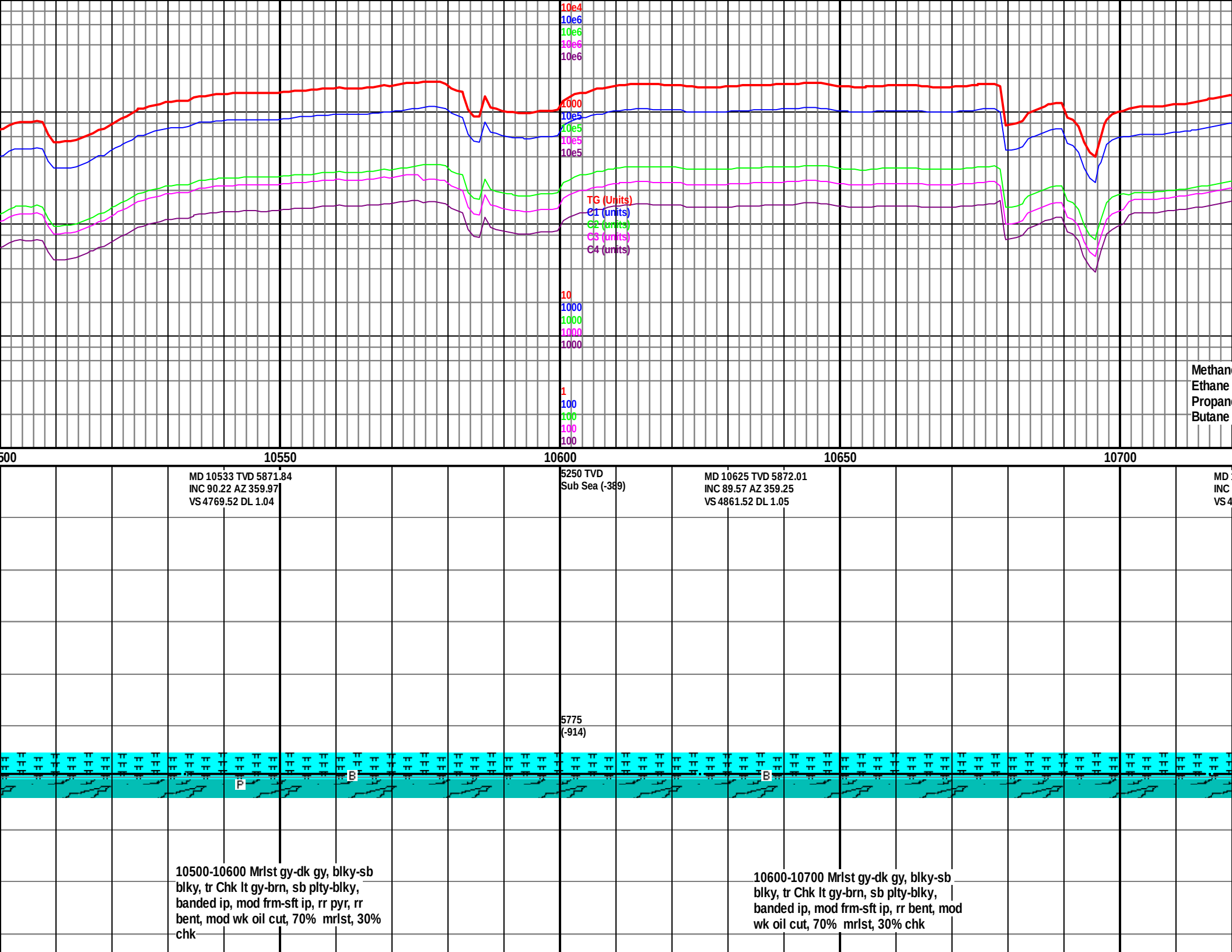
10000-10100 Chk lt gy-brn, s
plty-blky, banded ip, mod frm
Mrlst gy-dk gy, blky-sb blky,
mod oil cut, 70% chk, 30% m

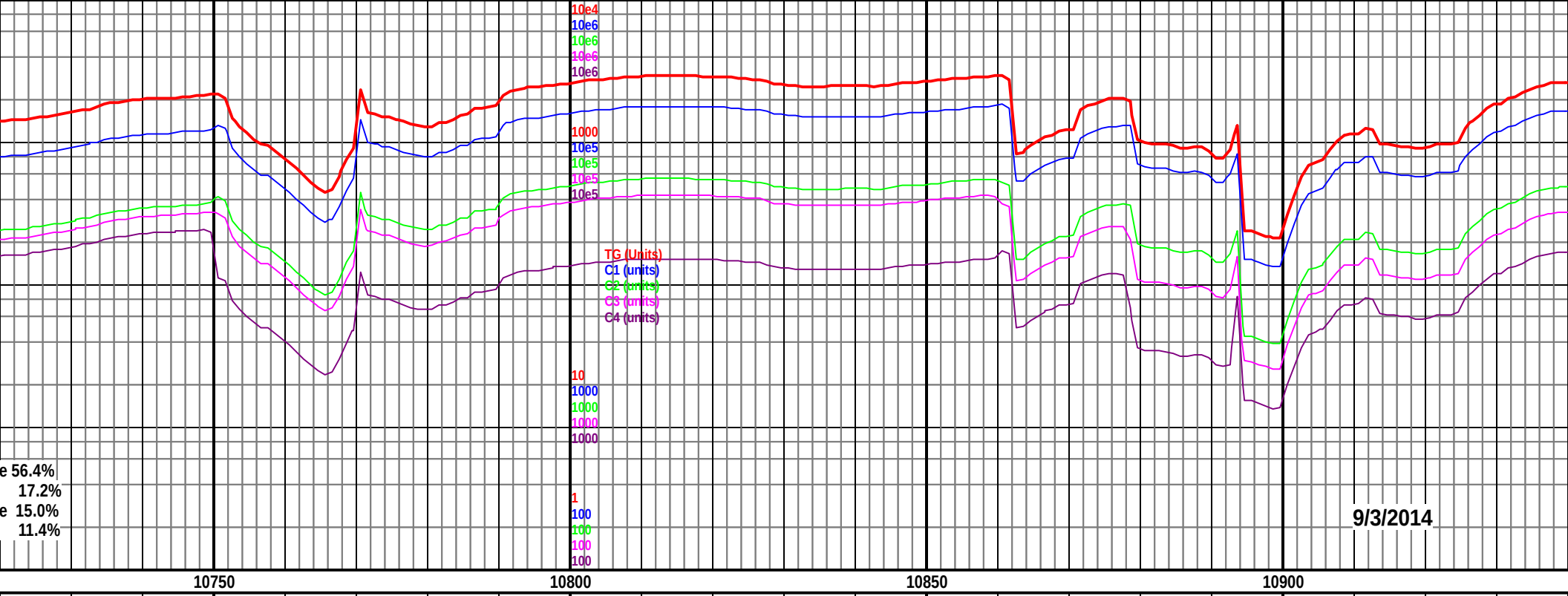

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 58.7%
Ethane 16.1%
Propane 10.7%
Butane 14.4%
10100
10150
10200
10250

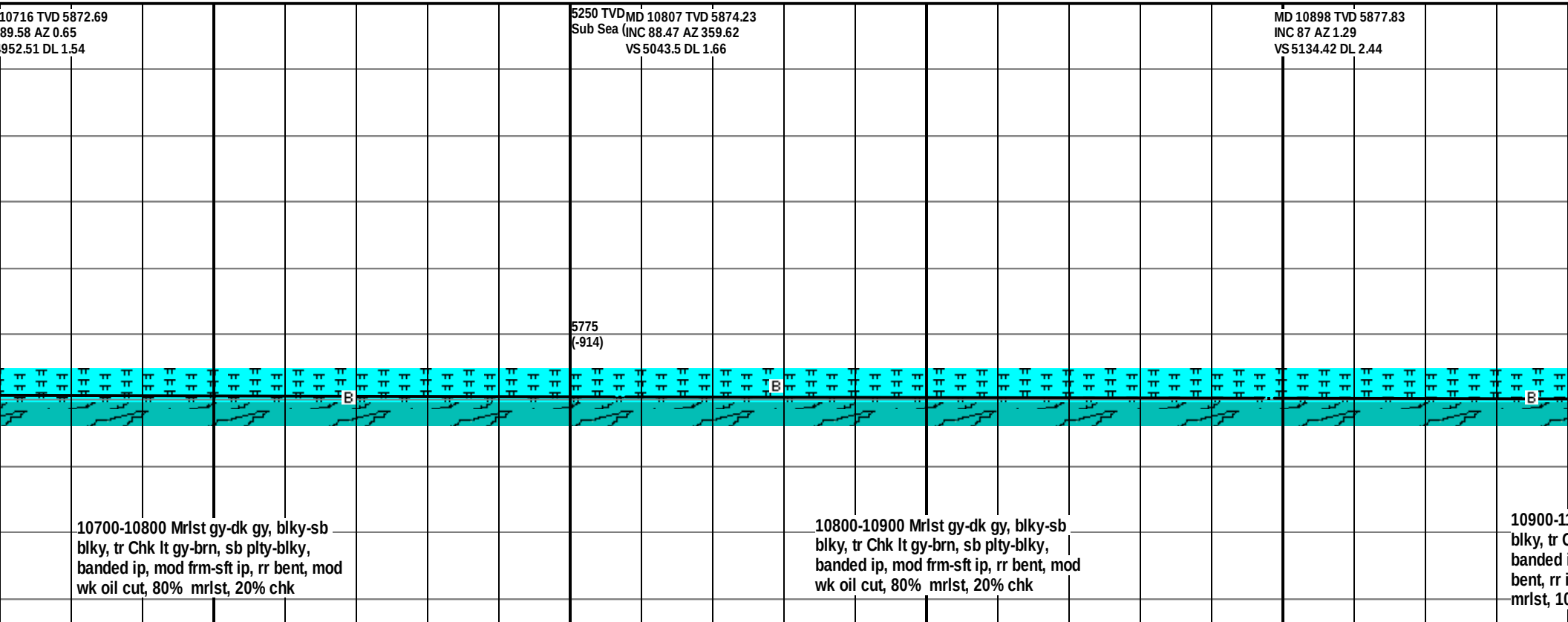

MD 10075 TVD 5863.03
INC 89.21 AZ 359.97
VS 4311.65 DL 2.05
MD 10167 TVD 5865.19
INC 88.1 AZ 358.97
VS 4403.62 DL 1.62
5250 TVD
Sub Sea (-389)
MD 10259 TVD 5867.23
INC 89.36 AZ 359.88
VS 4495.59 DL 1.69
5775
(-914)
B
B
b
-sft ip, occ
rr bent,
rlst
10100-10200 Chk lt gy-brn, sb
plty-blky, banded ip, mod frm-sft ip, occ
Mrlst gy-dk gy, blky-sb blky, rr bent,
mod wk oil cut, 80% chk, 20% mrlst
10200-10300 Chk lt gy-brn, sb
plty-blky, banded ip, mod frm-sft ip,
abnt Mrlst gy-dk gy, blky-sb blky, rr
bent, mod wk oil cut, 60% chk, 40%
mrlst

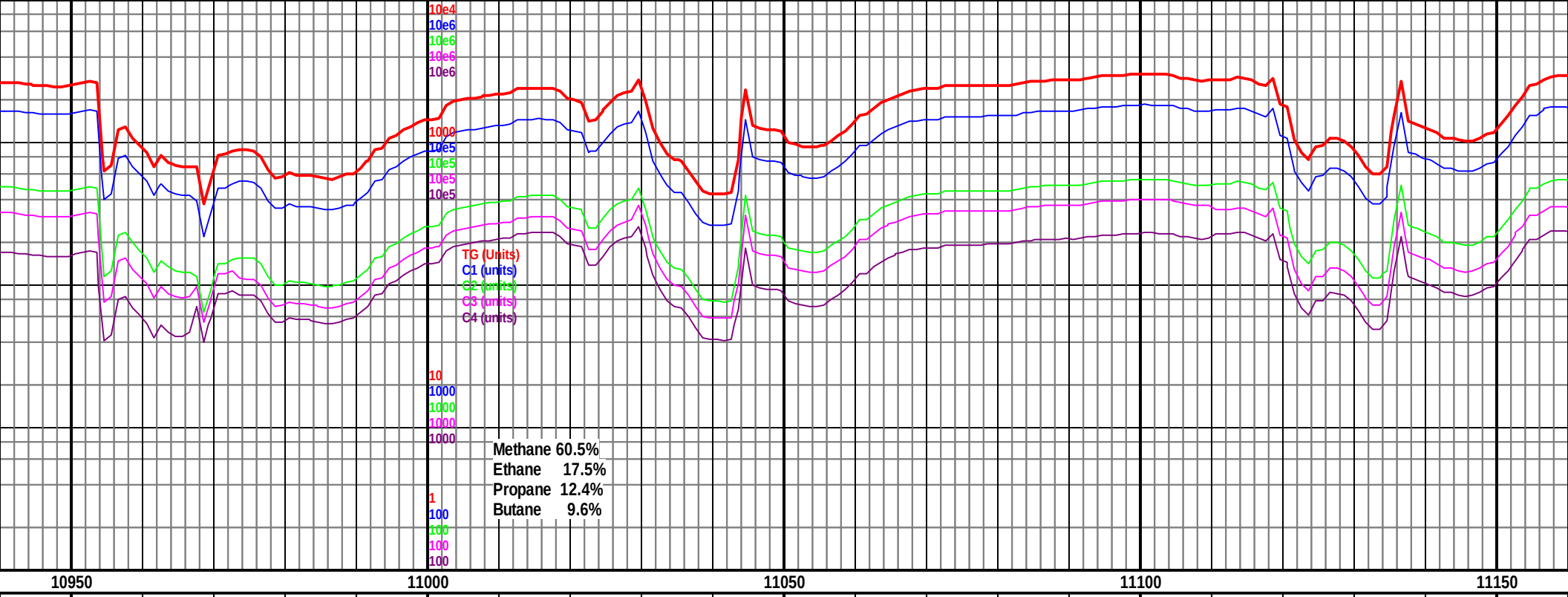

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 58.4%
Ethane 18.5%
Propane 13.2%
Butane 9.9%
10300
10350
10400
10450
105


MD 10350 TVD 5869.32
INC 88.01 AZ 358.97
VS 4586.56 DL 1.79
5250 TVD
Sub Sea (-389)
MD 10441 TVD 5871.46
INC 89.3 AZ 359.7
VS 4677.53 DL 1.63
5775
(-914)
B
B
B
10300-10400 Mrlst gy-dk gy, blky-sb blky, mod wk oil cut, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, rr bent, mod wk oil cut, 80% mrlst, 20% chk
10400-10500 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, tr bent, mod wk oil cut, 90% mrlst, 10% chk


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methan
Ethane
Propan
Butane
500
10550
10600
10650
10700
MD 10533 TVD 5871.84
INC 90.22 AZ 359.97
VS 4769.52 DL 1.04
5250 TVD
Sub Sea (-389)
MD 10625 TVD 5872.01
INC 89.57 AZ 359.25
VS 4861.52 DL 1.05
MD
INC
VS 4
5775
(-914)
P
B
B
10500-10600 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, rr pyr, rr bent, mod wk oil cut, 70% mrlst, 30% chk
10600-10700 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, rr bent, mod wk oil cut, 70% mrlst, 30% chk


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
e 56.4%
17.2%
e 15.0%
11.4%
9/3/2014
10750
10800
10850
10900


10716 TVD 5872.69
89.58 AZ 0.65
952.51 DL 1.54
5250 TVD
Sub Sea (
MD 10807 TVD 5874.23
INC 88.47 AZ 359.62
VS 5043.5 DL 1.66
MD 10898 TVD 5877.83
INC 87 AZ 1.29
VS 5134.42 DL 2.44
5775
(-914)
B
B
B
10700-10800 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, rr bent, mod wk oil cut, 80% mrlst, 20% chk
10800-10900 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, rr bent, mod wk oil cut, 80% mrlst, 20% chk



MD 10989 TVD 5879.61
INC 90.76 AZ 0.34
VS 5225.38 DL 4.26

Sea (-389)

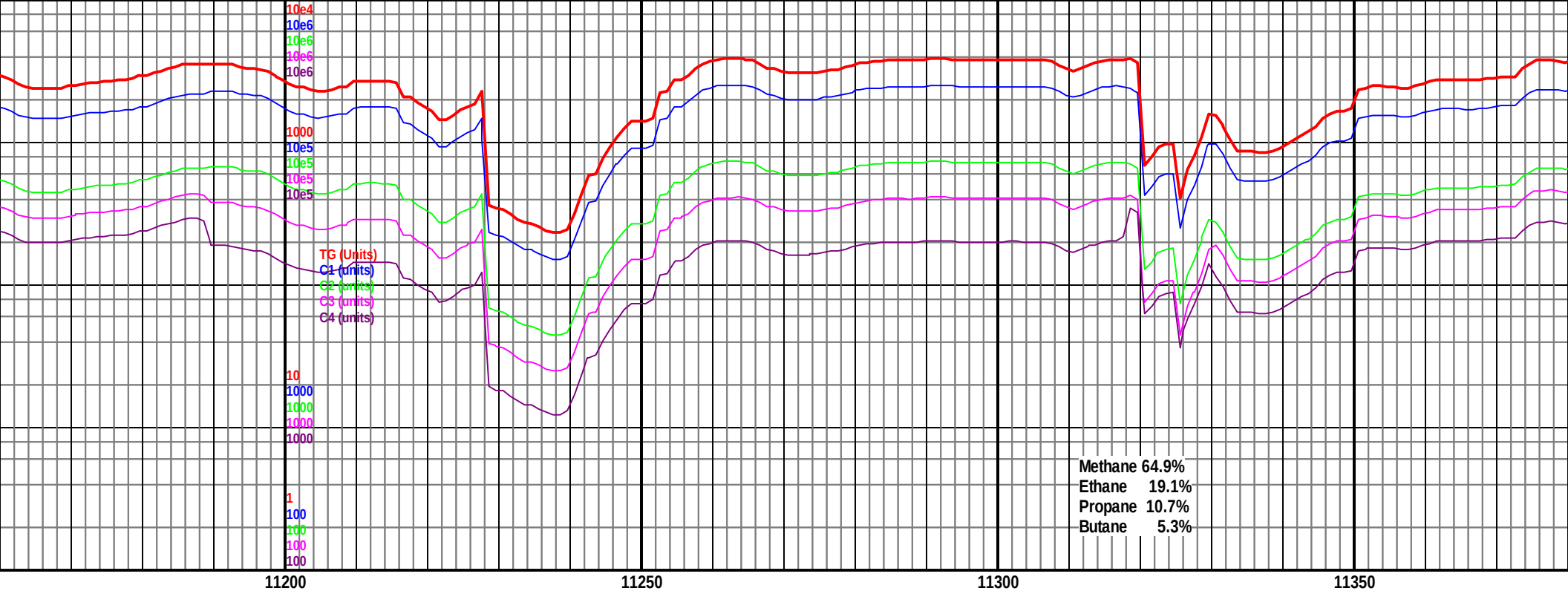
MD 11081 TVD 5878.64
INC 90.45 AZ 0.61
VS 5317.37 DL 0.45

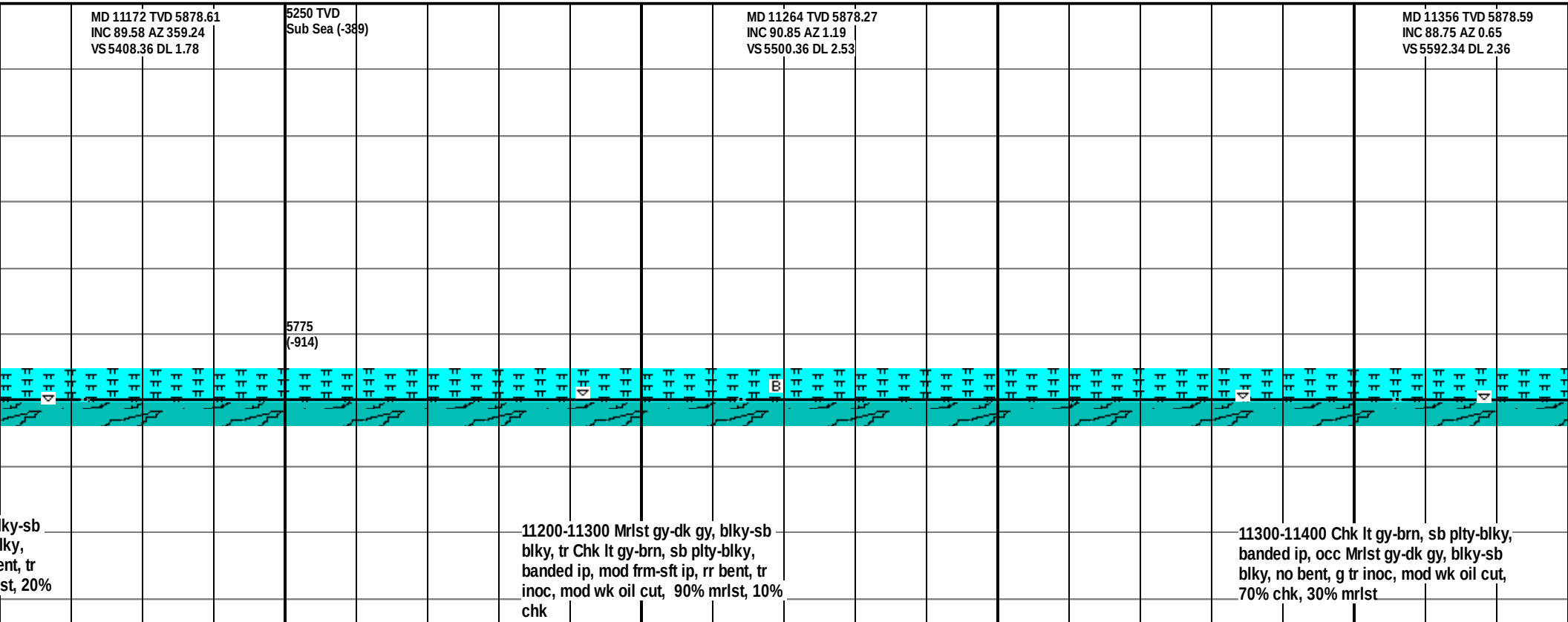
5775
(-914)

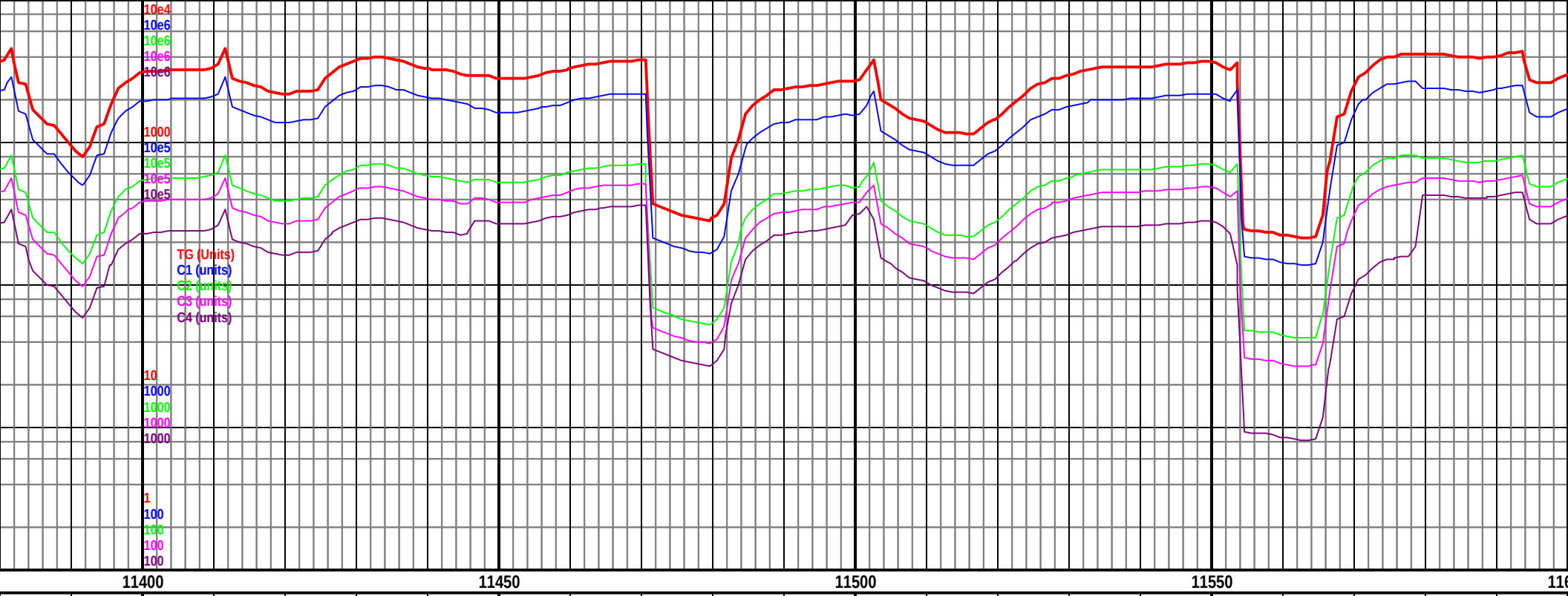
1000 Mrlst gy-dk gy, blky-sb
Chk lt gy-brn, sb plty-blky,
ip, mod frm-sft ip, rr pyr, rr
inoc, mod wk oil cut, 90%
0% chk

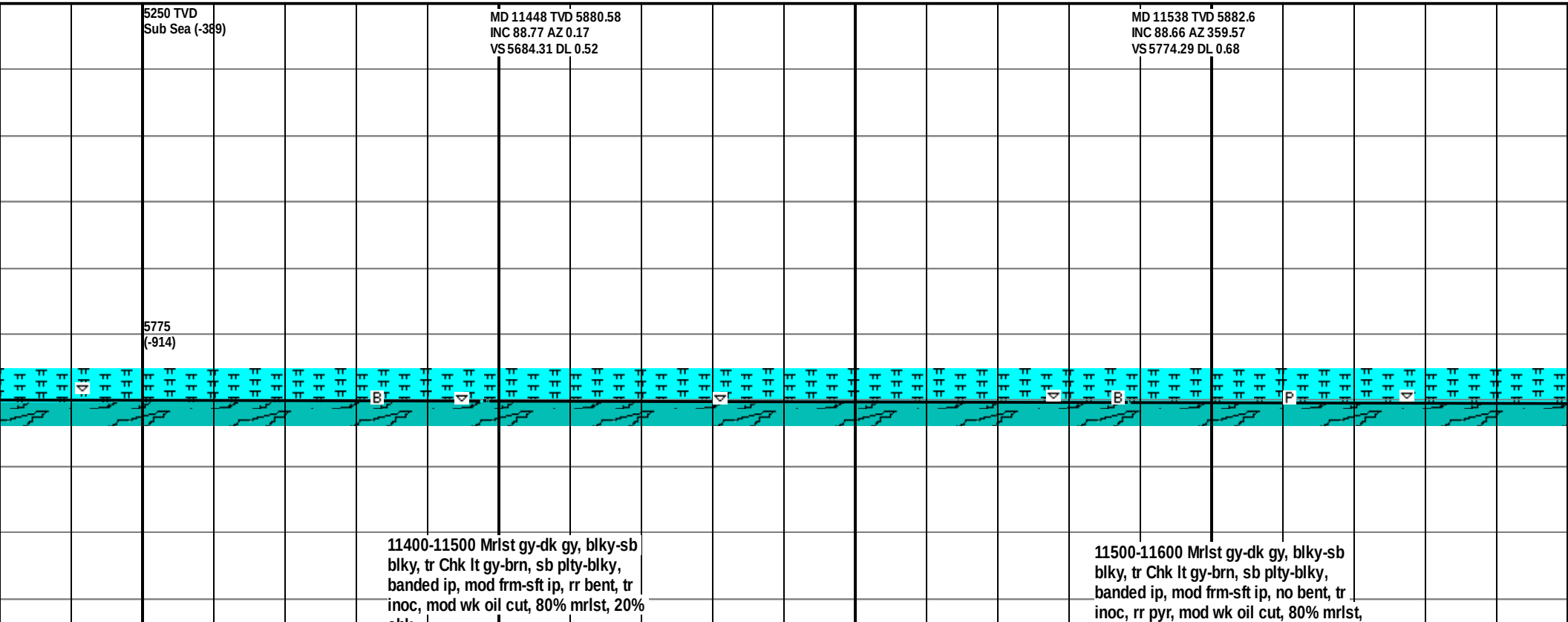
11000-11100 Mrlst gy-dk gy, blky-sb
blky, tr Chk lt gy-brn, sb plty-blky,
banded ip, mod frm-sft ip, rr bent, rr
inoc, mod wk oil cut, 80% mrlst, 20%
chk

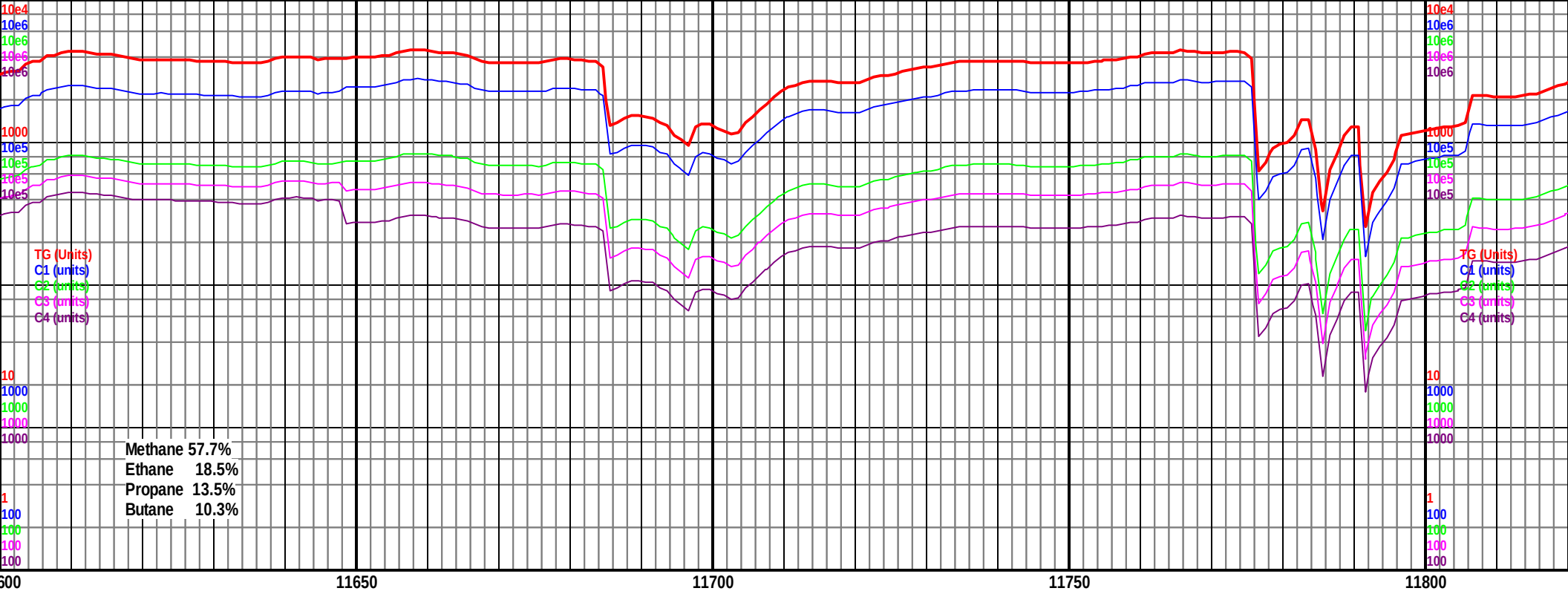
11100-11200 Mrlst gy-dk gy, bl
blky, tr Chk lt gy-brn, sb plty-b
banded ip, mod frm-sft ip, rr be
inoc, mod wk oil cut, 80% mrl
chk

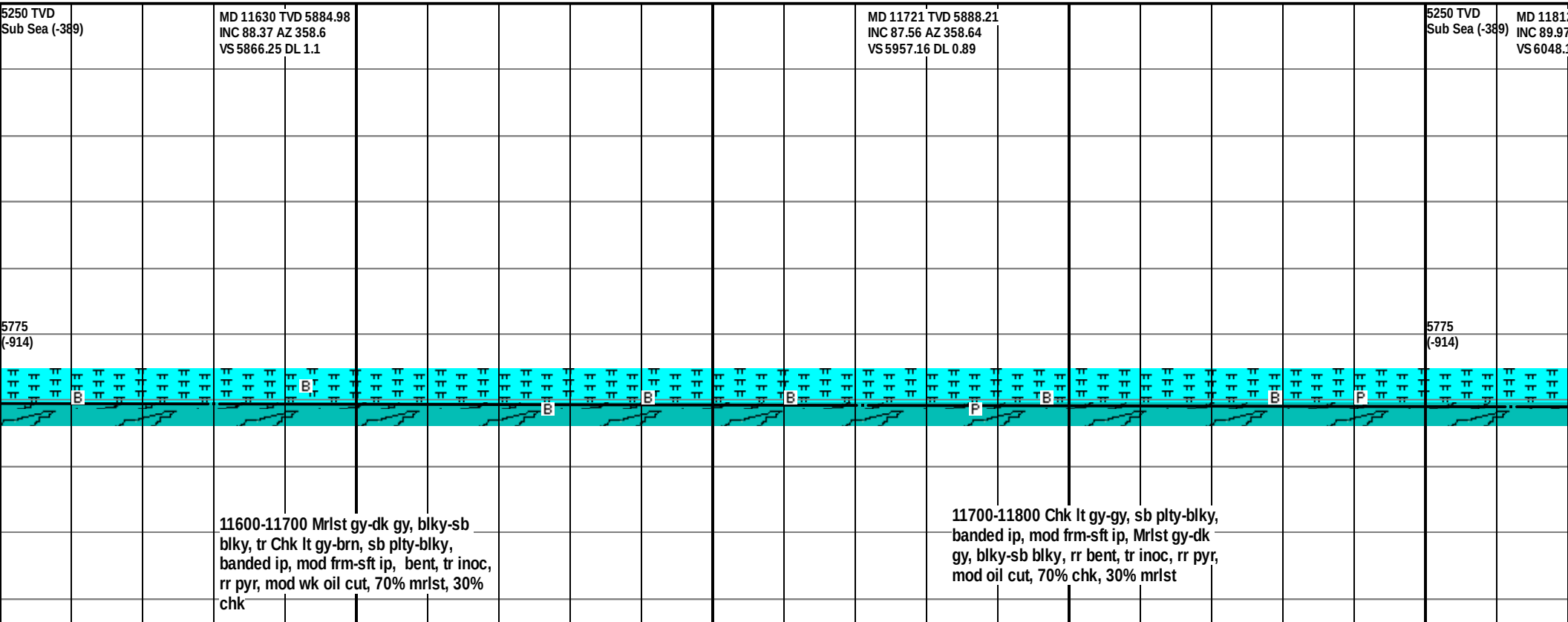

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 64.9%
Ethane 19.1%
Propane 10.7%
Butane 5.3%
11200
11250
11300
11350

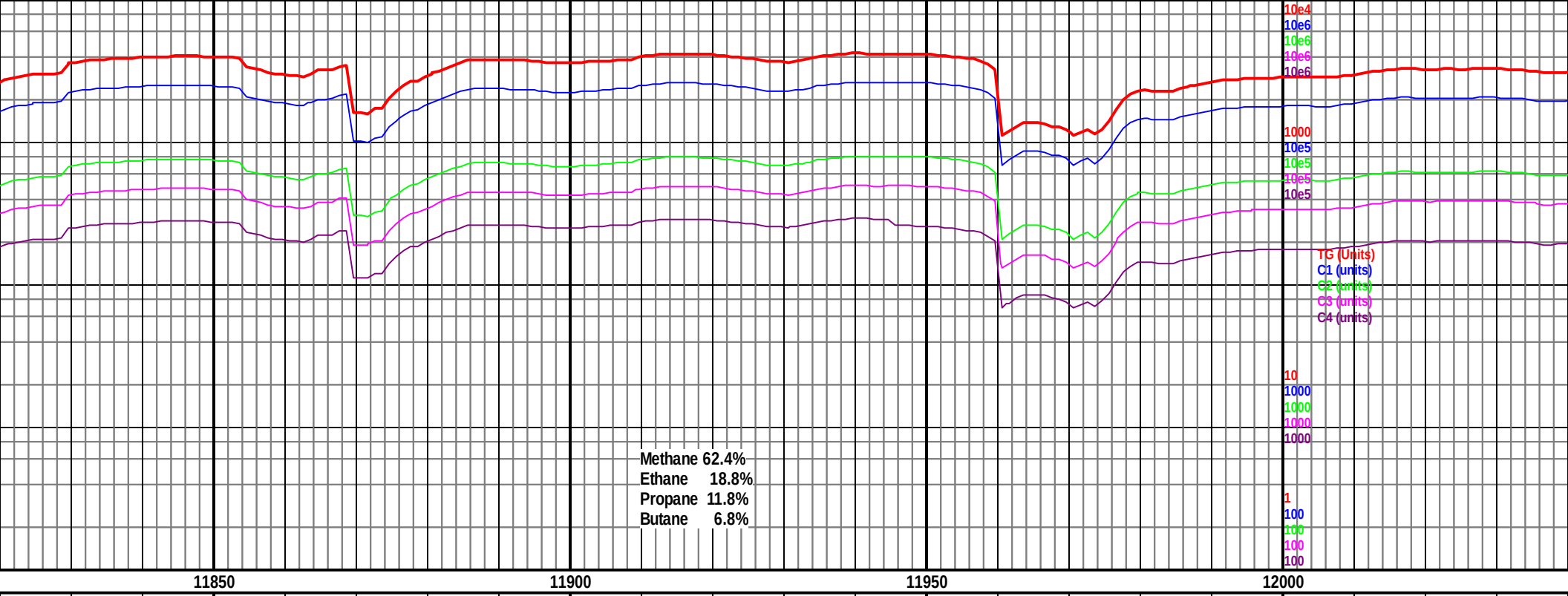

MD 11172 TVD 5878.61
INC 89.58 AZ 359.24
VS 5408.36 DL 1.78
5250 TVD
Sub Sea (-389)
MD 11264 TVD 5878.27
INC 90.85 AZ 1.19
VS 5500.36 DL 2.53
MD 11356 TVD 5878.59
INC 88.75 AZ 0.65
VS 5592.34 DL 2.36
5775
(-914)
B
lky-sb
lky,
ent, tr
st, 20%
11200-11300 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, rr bent, tr inoc, mod wk oil cut, 90% mrlst, 10% chk
11300-11400 Chk lt gy-brn, sb plty-blky, banded ip, occ Mrlst gy-dk gy, blky-sb blky, no bent, g tr inoc, mod wk oil cut, 70% chk, 30% mrlst


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
11400
11450
11500
11550


5250 TVD
Sub Sea (-389)
MD 11448 TVD 5880.58
INC 88.77 AZ 0.17
VS 5684.31 DL 0.52
MD 11538 TVD 5882.6
INC 88.66 AZ 359.57
VS 5774.29 DL 0.68
5775
(-914)
B
B
P
11400-11500 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, rr bent, tr inoc, mod wk oil cut, 80% mrlst, 20%
11500-11600 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, no bent, tr inoc, rr pyr, mod wk oil cut, 80% mrlst,


TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Methane 57.7%
Ethane 18.5%
Propane 13.5%
Butane 10.3%
11650
11700
11750
11800


5250 TVD
Sub Sea (-389)
MD 11630 TVD 5884.98
INC 88.37 AZ 358.6
VS 5866.25 DL 1.1
MD 11721 TVD 5888.21
INC 87.56 AZ 358.64
VS 5957.16 DL 0.89
5775
(-914)
11600-11700 Mrlst gy-dk gy, blky-sb blky, tr Chk lt gy-brn, sb plty-blky, banded ip, mod frm-sft ip, bent, tr inoc, rr pyr, mod wk oil cut, 70% mrlst, 30% chk
11700-11800 Chk lt gy-gy, sb plty-blky, banded ip, mod frm-sft ip, Mrlst gy-dk gy, blky-sb blky, rr bent, tr inoc, rr pyr, mod oil cut, 70% chk, 30% mrlst



2 TVD 5890.18
7 AZ 359.03
12 DL 2.68

MD 11903 TVD 5890.76
INC 89.3 AZ 359.01
VS 6139.1 DL 0.74

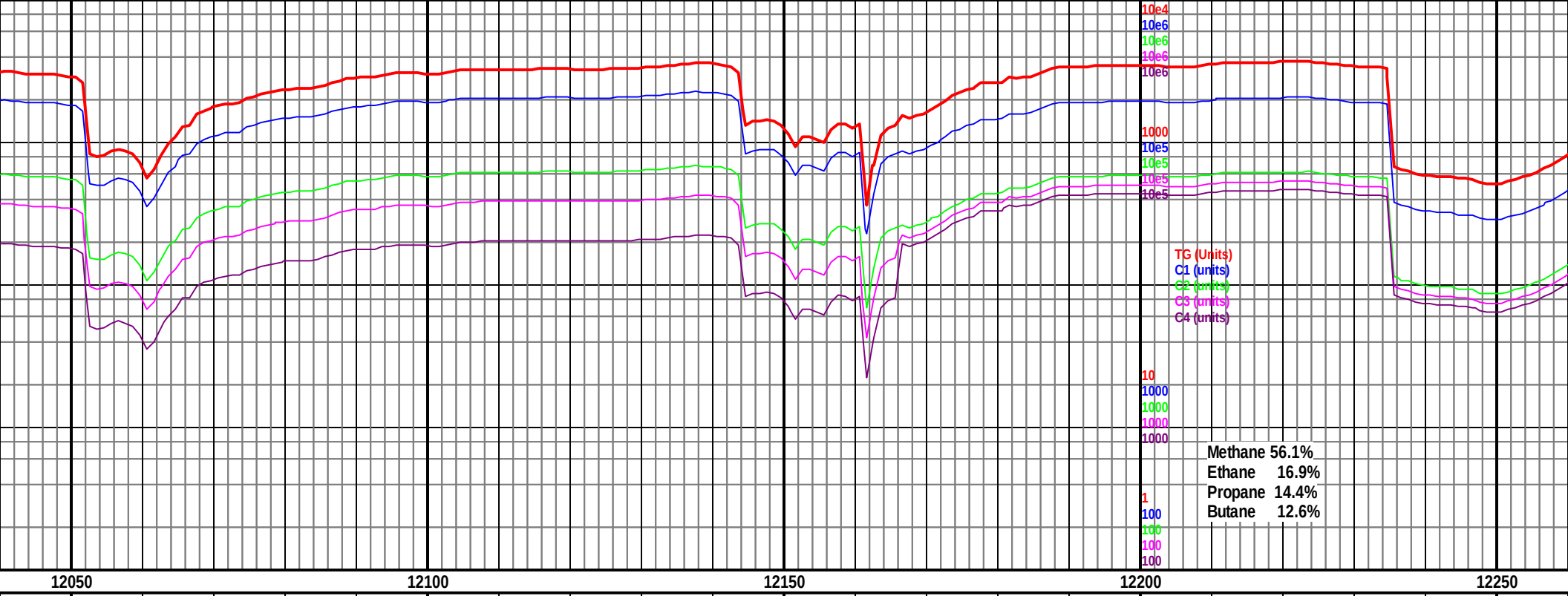
MD 11995 TVD 5891.25
INC 90.08 AZ 359.6[1])
VS 6231.09 DL 1.06

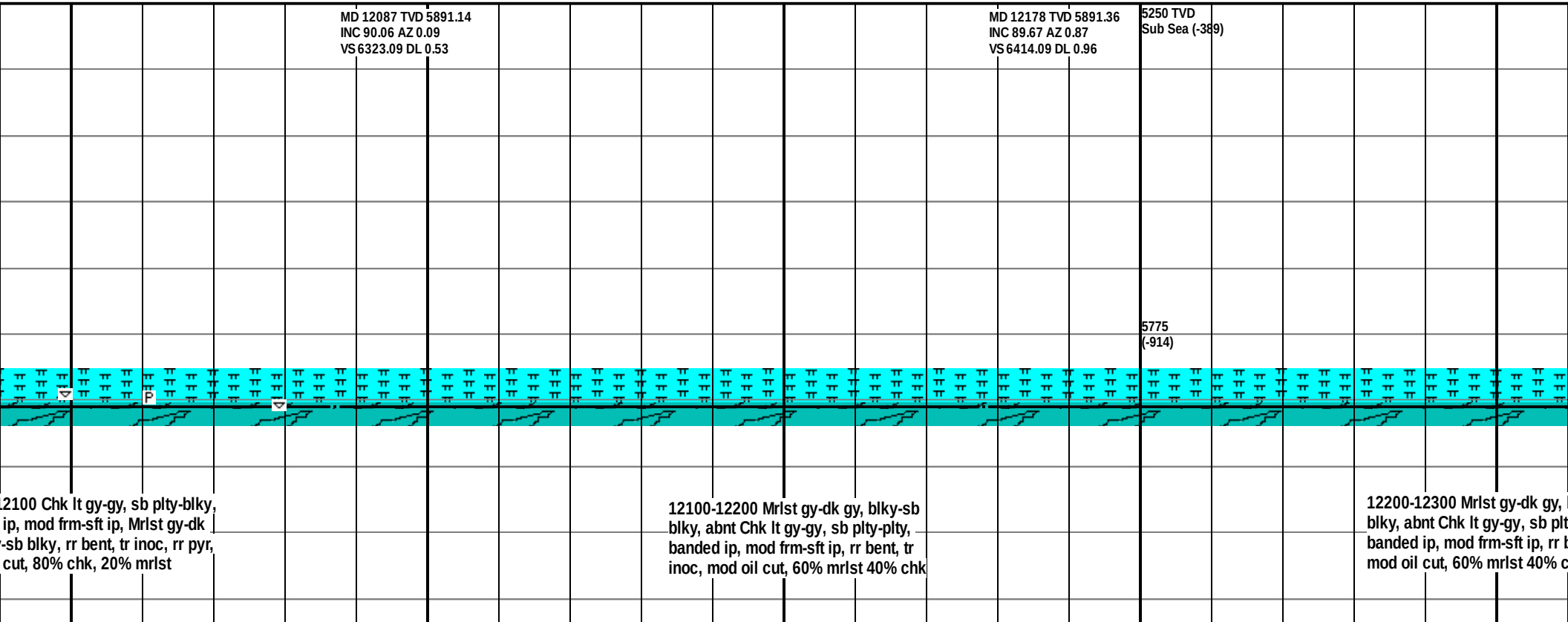
5775
(-914)

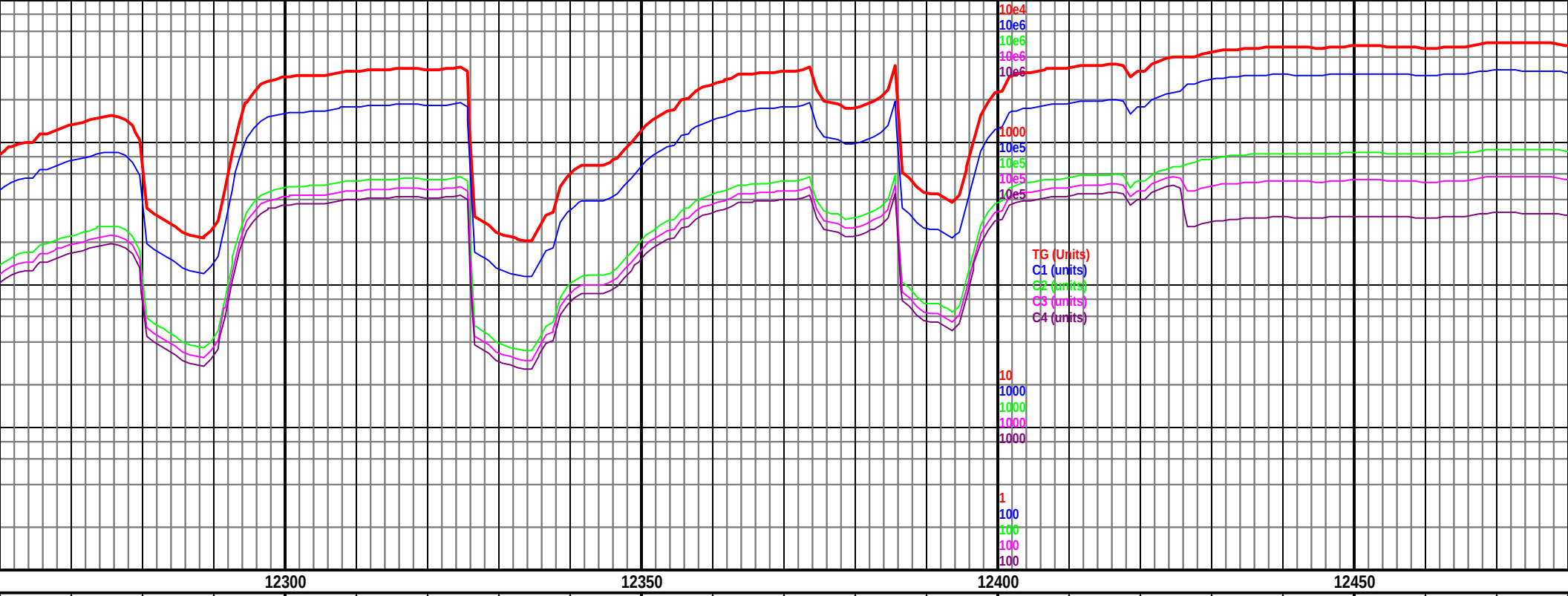
11800-11900 Chk lt gy-gy, sb plty-blky, banded ip, mod frm-sft ip, Mrlst gy-dk gy, blky-sb blky, rr bent, tr inoc, rr pyr, mod oil cut, 70% chk, 30% mrlst

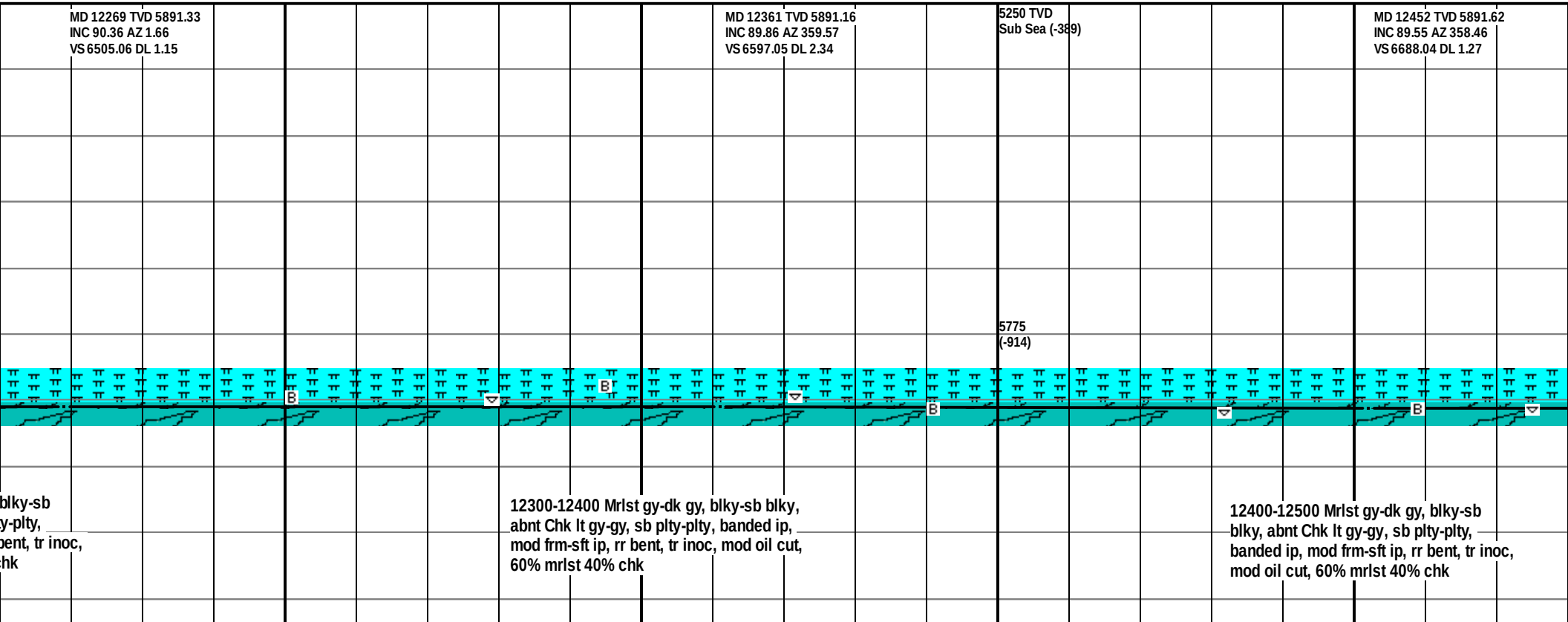
11900-12000 Chk lt gy-gy, sb plty-blky, banded ip, mod frm-sft ip, Mrlst gy-dk gy, blky-sb blky, rr bent, tr inoc, rr pyr, mod oil cut, 80% chk, 20% mrlst

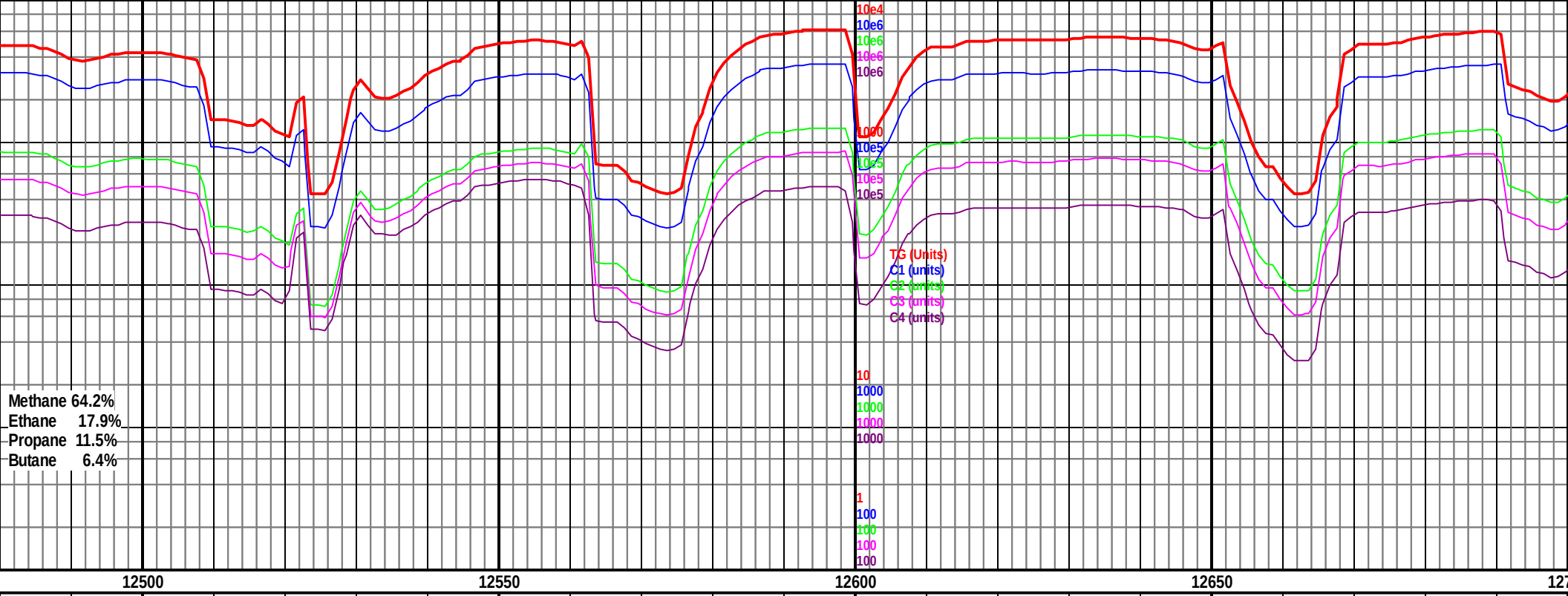
12000-1
banded
gy, blky
mod oil

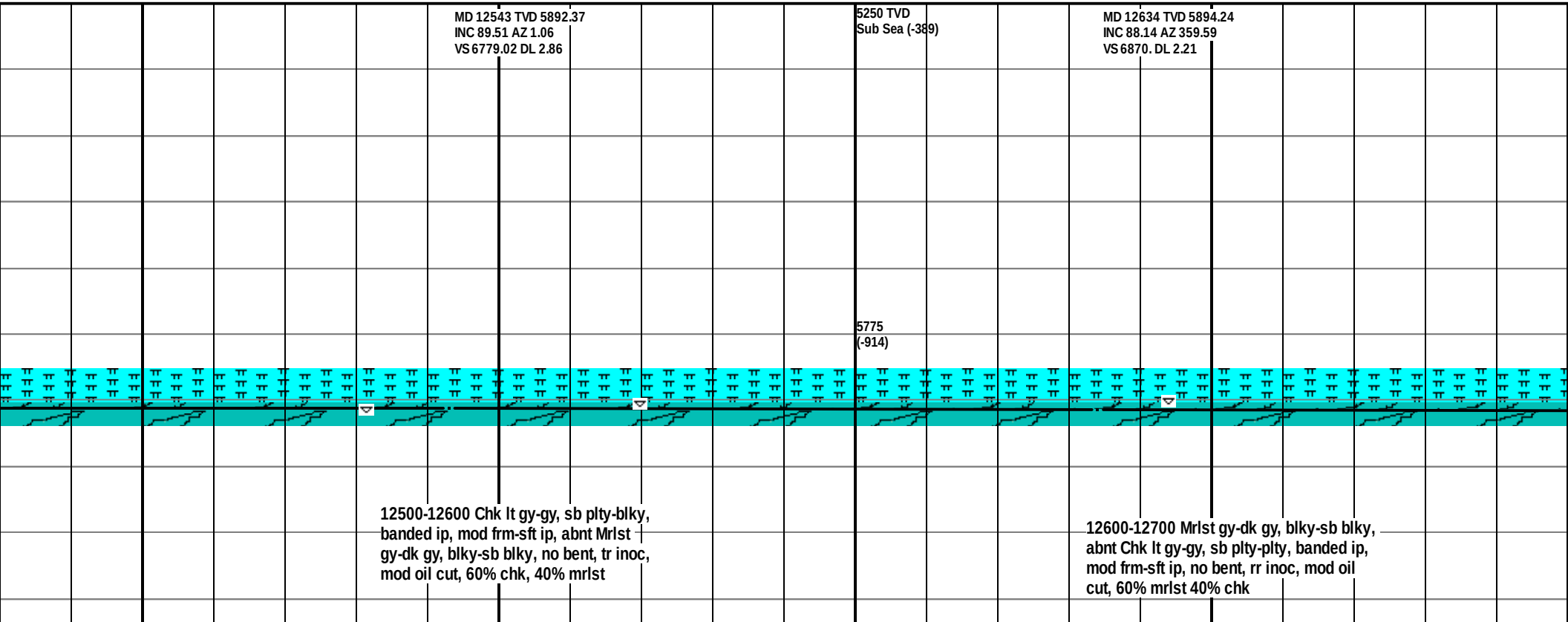

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
Methane 56.1%
Ethane 16.9%
Propane 14.4%
Butane 12.6%
1
100
100
100
100
12050
12100
12150
12200
12250

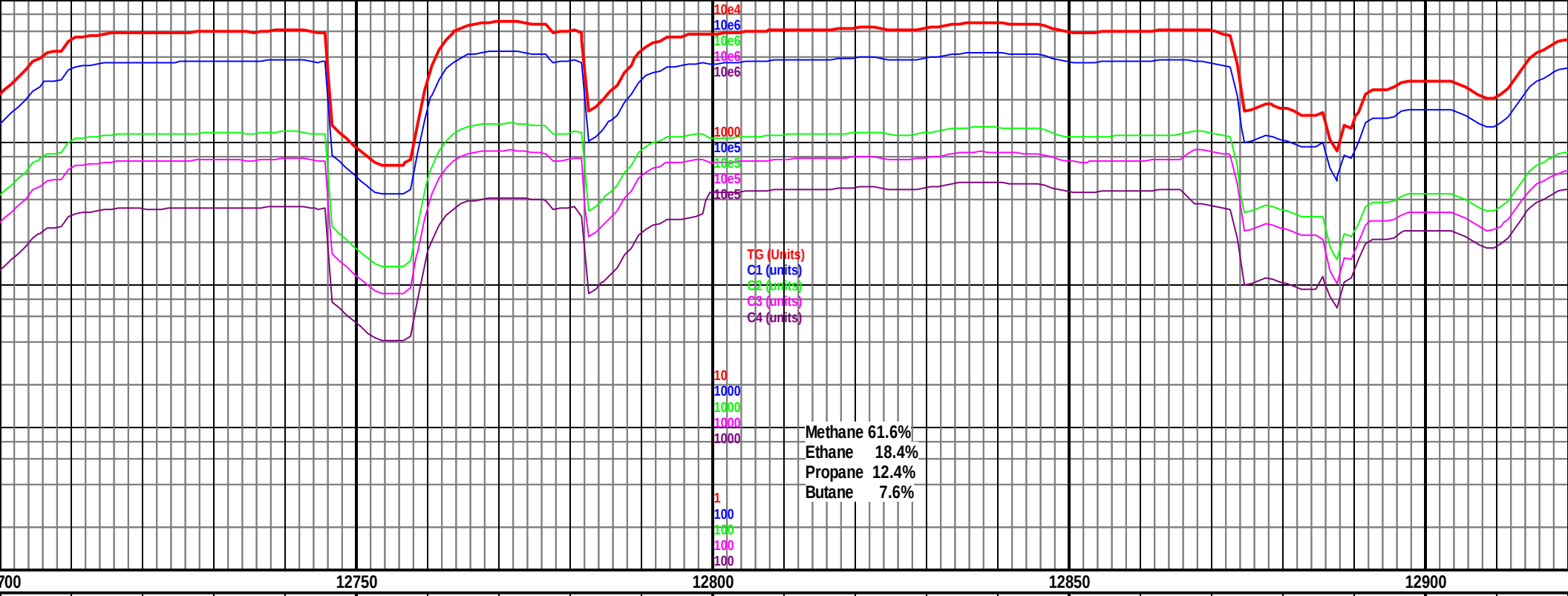

MD 12087 TVD 5891.14
INC 90.06 AZ 0.09
VS 6323.09 DL 0.53
MD 12178 TVD 5891.36
INC 89.67 AZ 0.87
VS 6414.09 DL 0.96
5250 TVD
Sub Sea (-389)
5775
(-914)
12100 Chk lt gy-gy, sb plty-blky,
ip, mod frm-sft ip, Mrlst gy-dk
-sb blky, rr bent, tr inoc, rr pyr,
cut, 80% chk, 20% mrlst
12100-12200 Mrlst gy-dk gy, blky-sb
blky, abnt Chk lt gy-gy, sb plty-plty,
banded ip, mod frm-sft ip, rr bent, tr
inoc, mod oil cut, 60% mrlst 40% chk
12200-12300 Mrlst gy-dk gy,
blky, abnt Chk lt gy-gy, sb plt
banded ip, mod frm-sft ip, rr b
mod oil cut, 60% mrlst 40% c

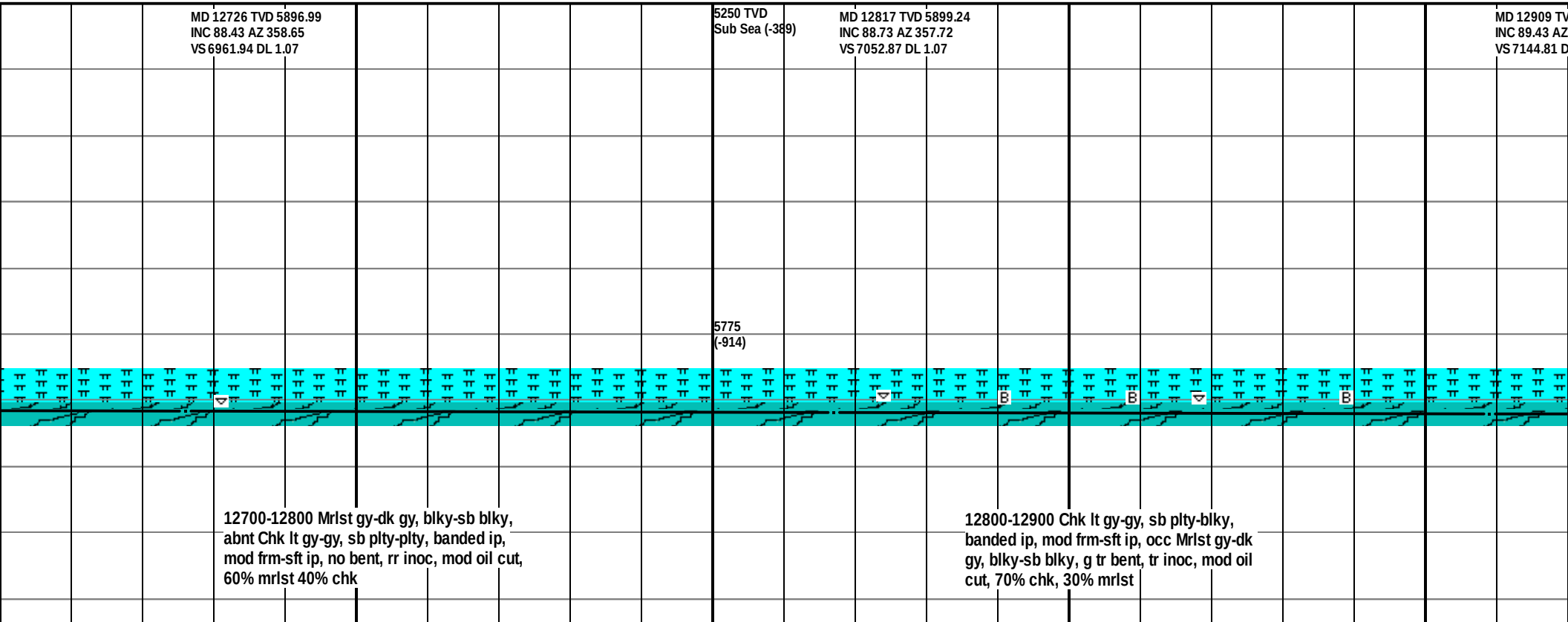

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
12300
12350
12400
12450

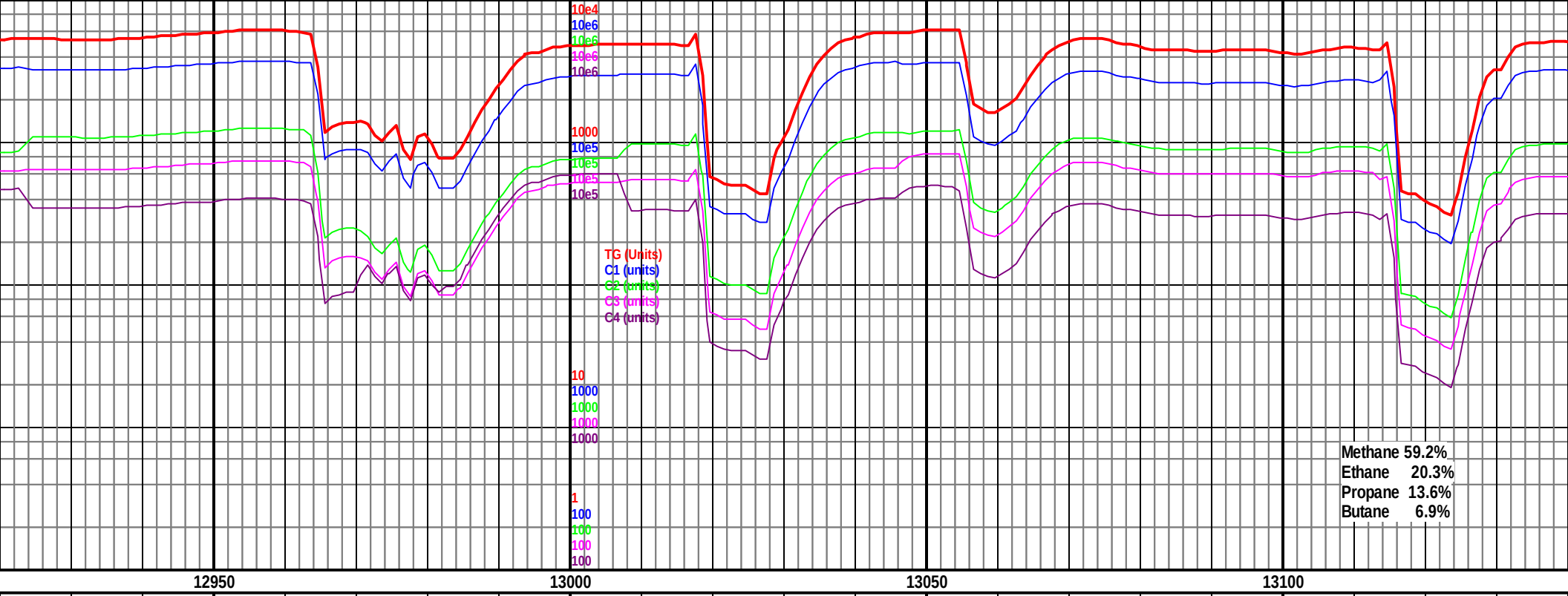

MD 12269 TVD 5891.33
INC 90.36 AZ 1.66
VS 6505.06 DL 1.15
MD 12361 TVD 5891.16
INC 89.86 AZ 359.57
VS 6597.05 DL 2.34
5250 TVD
Sub Sea (-389)
MD 12452 TVD 5891.62
INC 89.55 AZ 358.46
VS 6688.04 DL 1.27
5775
(-914)
B
B
B
B
blky-sb
y-plty,
bent, tr inoc,
hk
12300-12400 Mrlst gy-dk gy, blky-sb blky,
abnt Chk lt gy-gy, sb plty-plty, banded ip,
mod frm-sft ip, rr bent, tr inoc, mod oil cut,
60% mrlst 40% chk
12400-12500 Mrlst gy-dk gy, blky-sb
blky, abnt Chk lt gy-gy, sb plty-plty,
banded ip, mod frm-sft ip, rr bent, tr inoc,
mod oil cut, 60% mrlst 40% chk

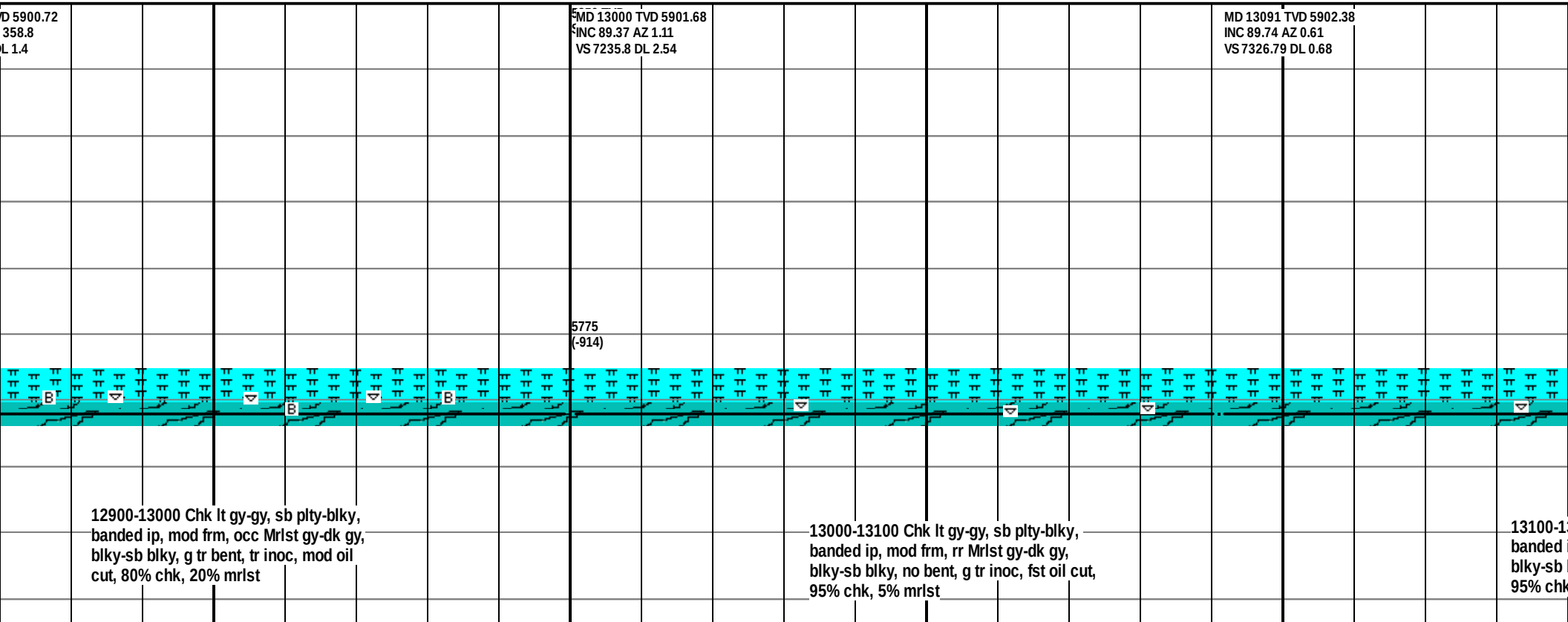

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 64.2%
Ethane 17.9%
Propane 11.5%
Butane 6.4%
12500
12550
12600
12650
127

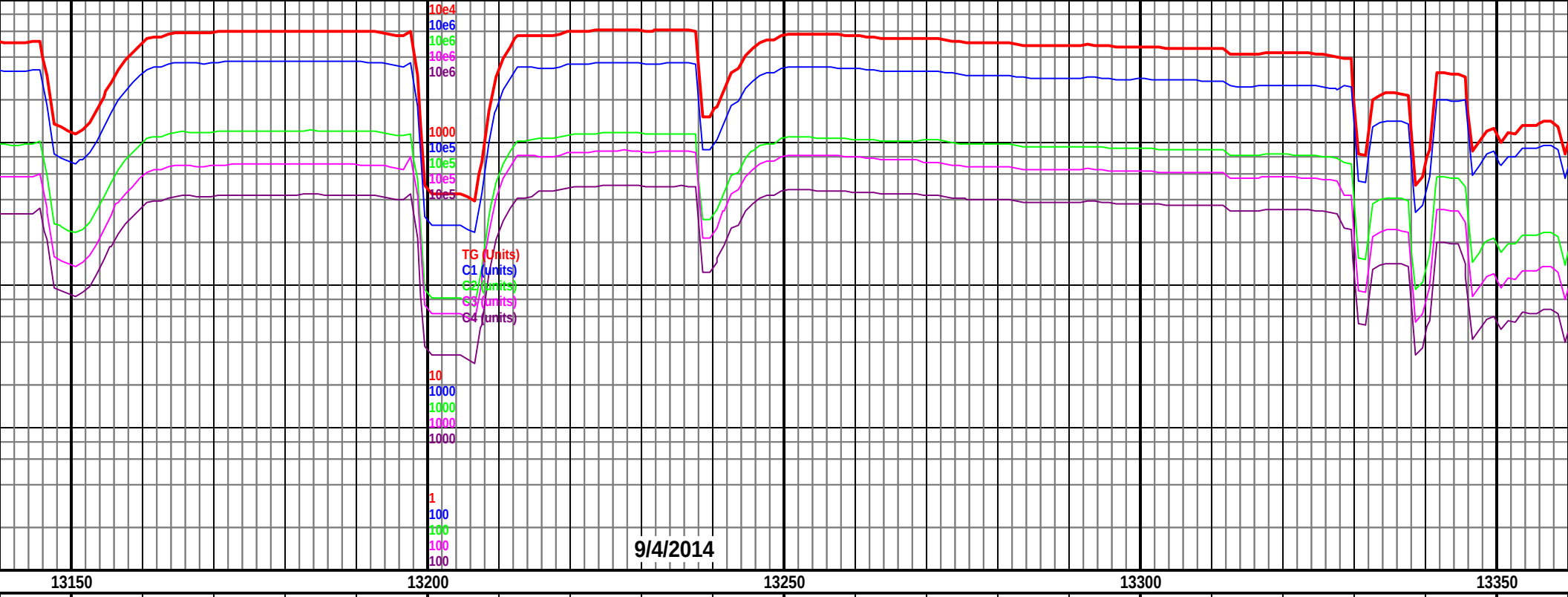

MD 12543 TVD 5892.37
INC 89.51 AZ 1.06
VS 6779.02 DL 2.86
5250 TVD
Sub Sea (-389)
MD 12634 TVD 5894.24
INC 88.14 AZ 359.59
VS 6870. DL 2.21
5775
(-914)
12500-12600 Chk lt gy-gy, sb plty-blky, banded ip, mod frm-sft ip, abnt Mrlst gy-dk gy, blky-sb blky, no bent, tr inoc, mod oil cut, 60% chk, 40% mrlst
12600-12700 Mrlst gy-dk gy, blky-sb blky, abnt Chk lt gy-gy, sb plty-plty, banded ip, mod frm-sft ip, no bent, rr inoc, mod oil cut, 60% mrlst 40% chk

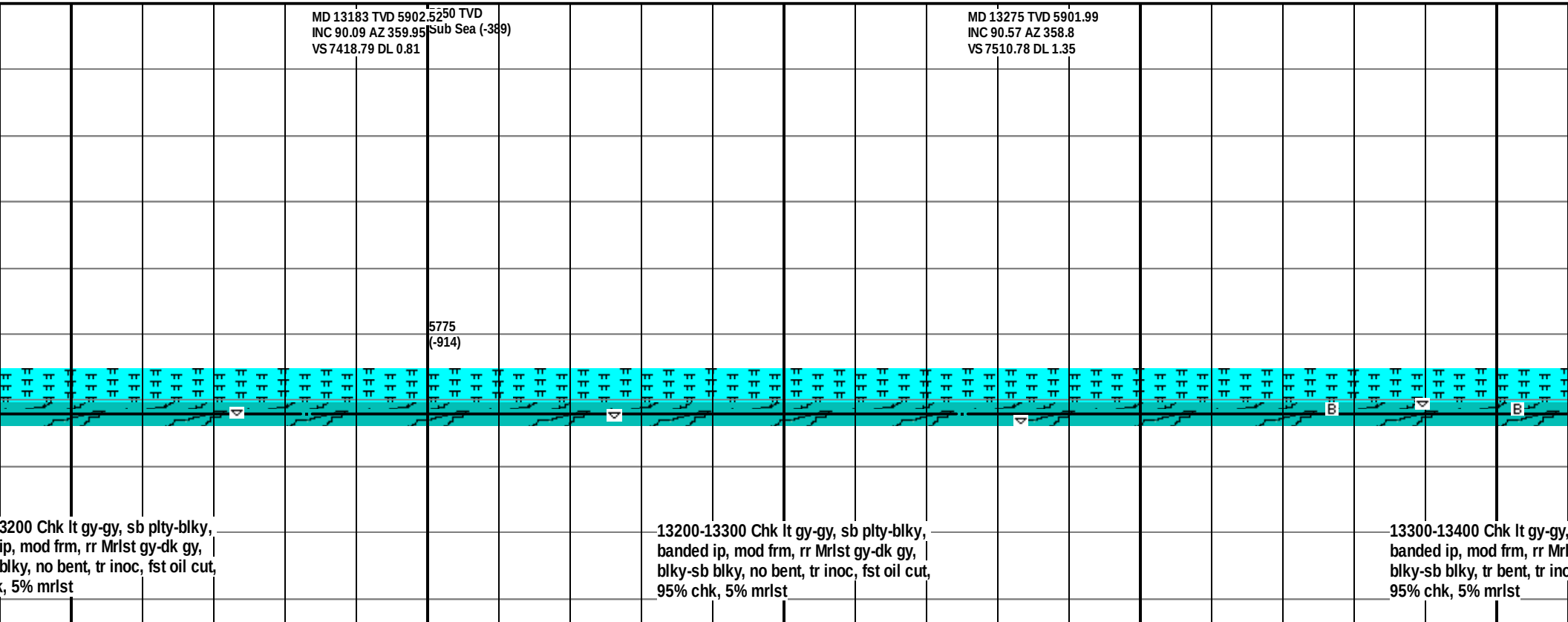

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 61.6%
Ethane 18.4%
Propane 12.4%
Butane 7.6%
700
12750
12800
12850
12900

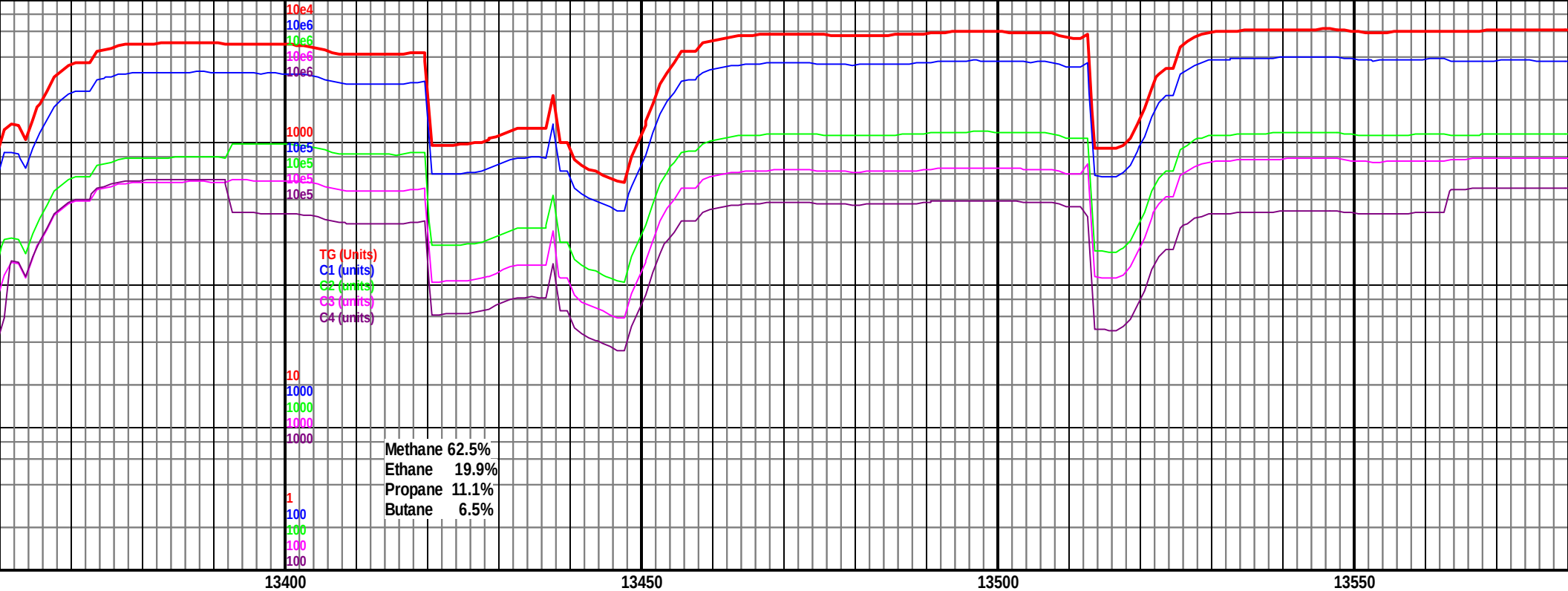

MD 12726 TVD 5896.99
INC 88.43 AZ 358.65
VS 6961.94 DL 1.07
5250 TVD
Sub Sea (-389)
MD 12817 TVD 5899.24
INC 88.73 AZ 357.72
VS 7052.87 DL 1.07
MD 12909 TV
INC 89.43 AZ
VS 7144.81 D
5775
(-914)
B
B
B
12700-12800 Mrlst gy-dk gy, blky-sb blky, abnt Chk lt gy-gy, sb plty-plty, banded ip, mod frm-sft ip, no bent, rr inoc, mod oil cut, 60% mrlst 40% chk
12800-12900 Chk lt gy-gy, sb plty-blky, banded ip, mod frm-sft ip, occ Mrlst gy-dk gy, blky-sb blky, g tr bent, tr inoc, mod oil cut, 70% chk, 30% mrlst

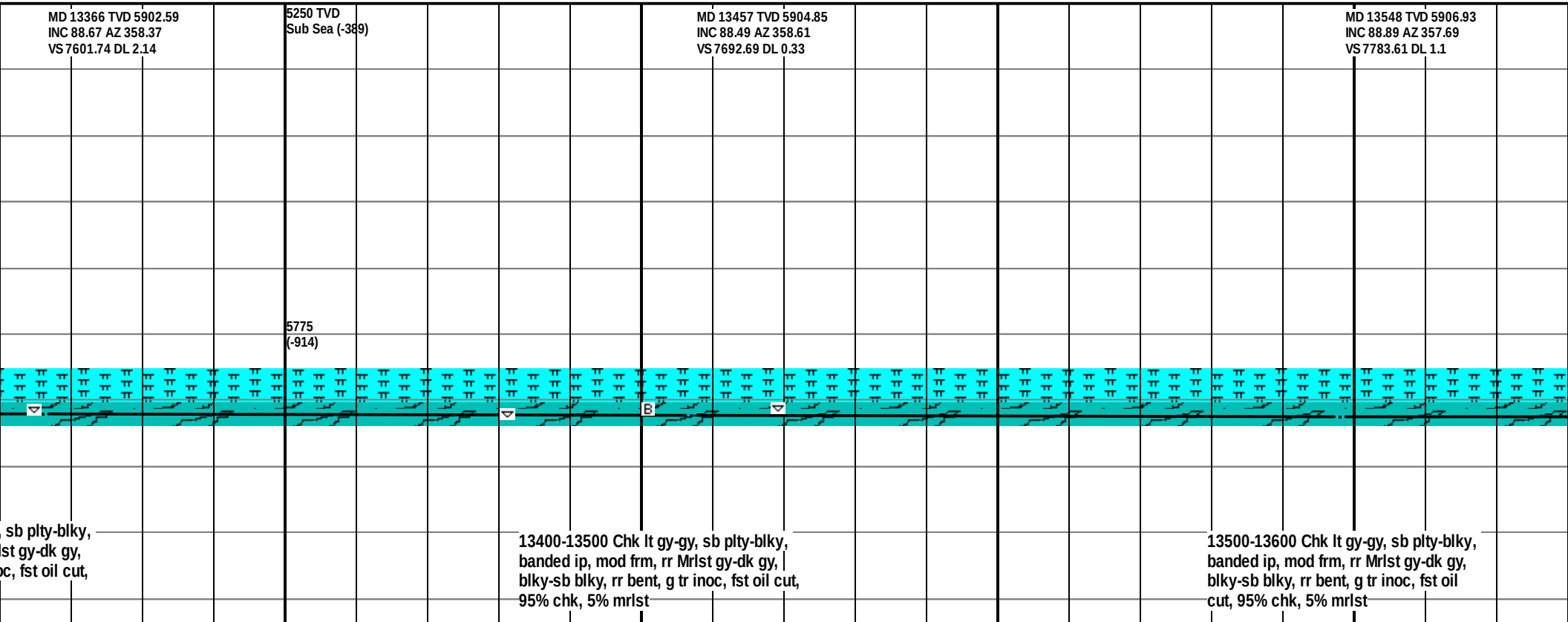

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 59.2%
Ethane 20.3%
Propane 13.6%
Butane 6.9%
12950
13000
13050
13100

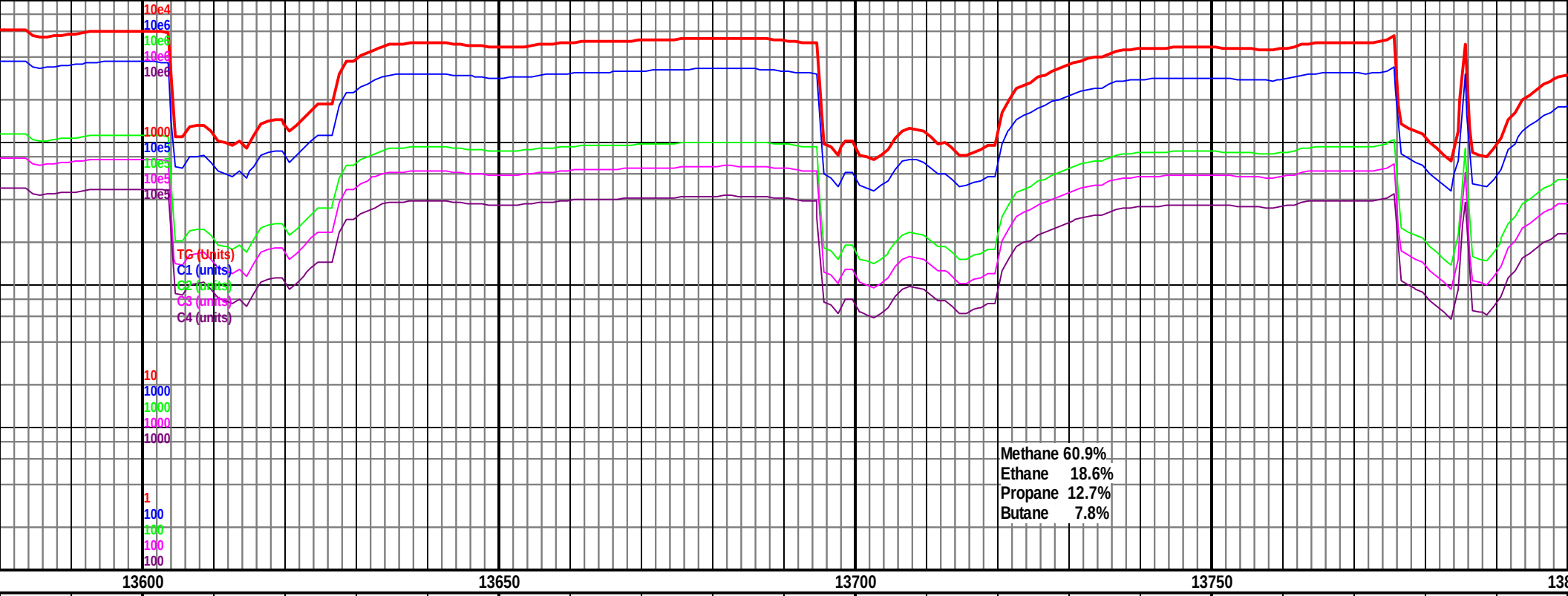

D 5900.72
358.8
L 1.4
MD 13000 TVD 5901.68
INC 89.37 AZ 1.11
VS 7235.8 DL 2.54
MD 13091 TVD 5902.38
INC 89.74 AZ 0.61
VS 7326.79 DL 0.68
5775
(-914)
12900-13000 Chk lt gy-gy, sb plty-blky, banded ip, mod frm, occ Mrlst gy-dk gy, blky-sb blky, g tr bent, tr inoc, mod oil cut, 80% chk, 20% mrlst
13000-13100 Chk lt gy-gy, sb plty-blky, banded ip, mod frm, rr Mrlst gy-dk gy, blky-sb blky, no bent, g tr inoc, fst oil cut, 95% chk, 5% mrlst

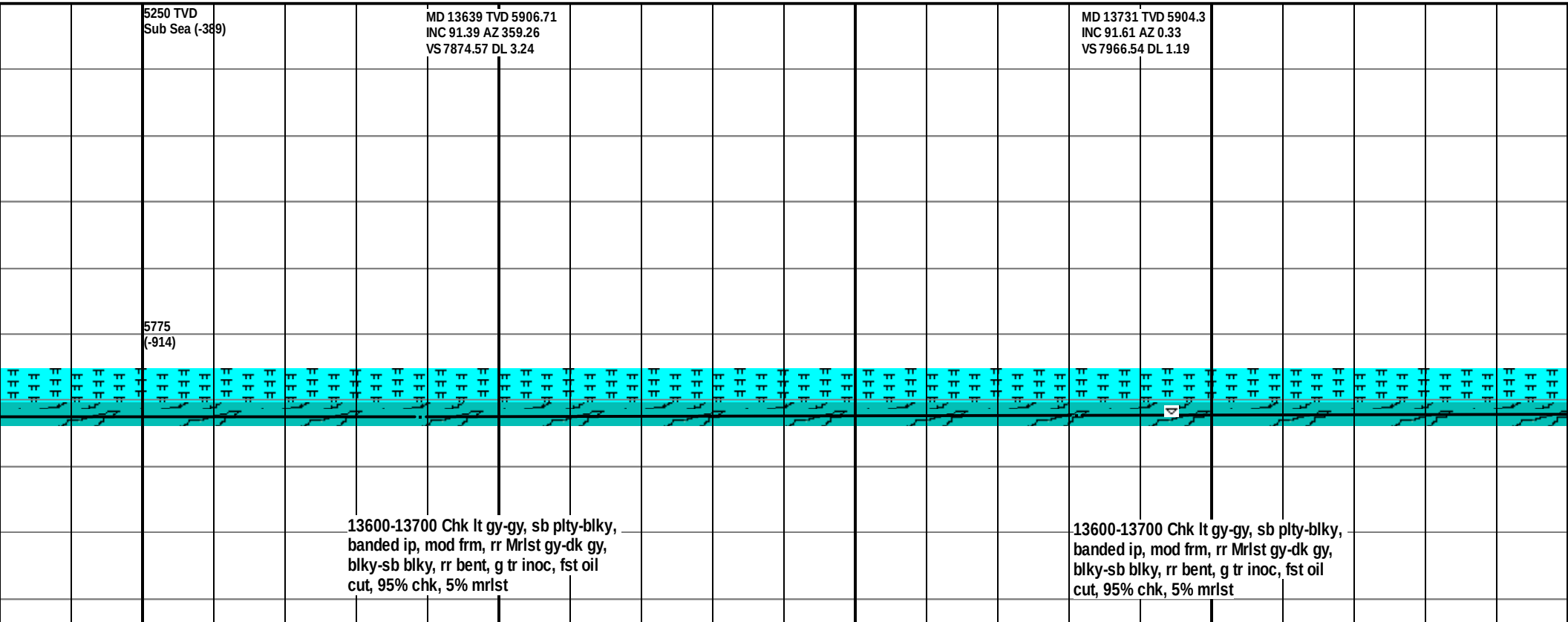

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
9/4/2014
13150
13200
13250
13300
13350

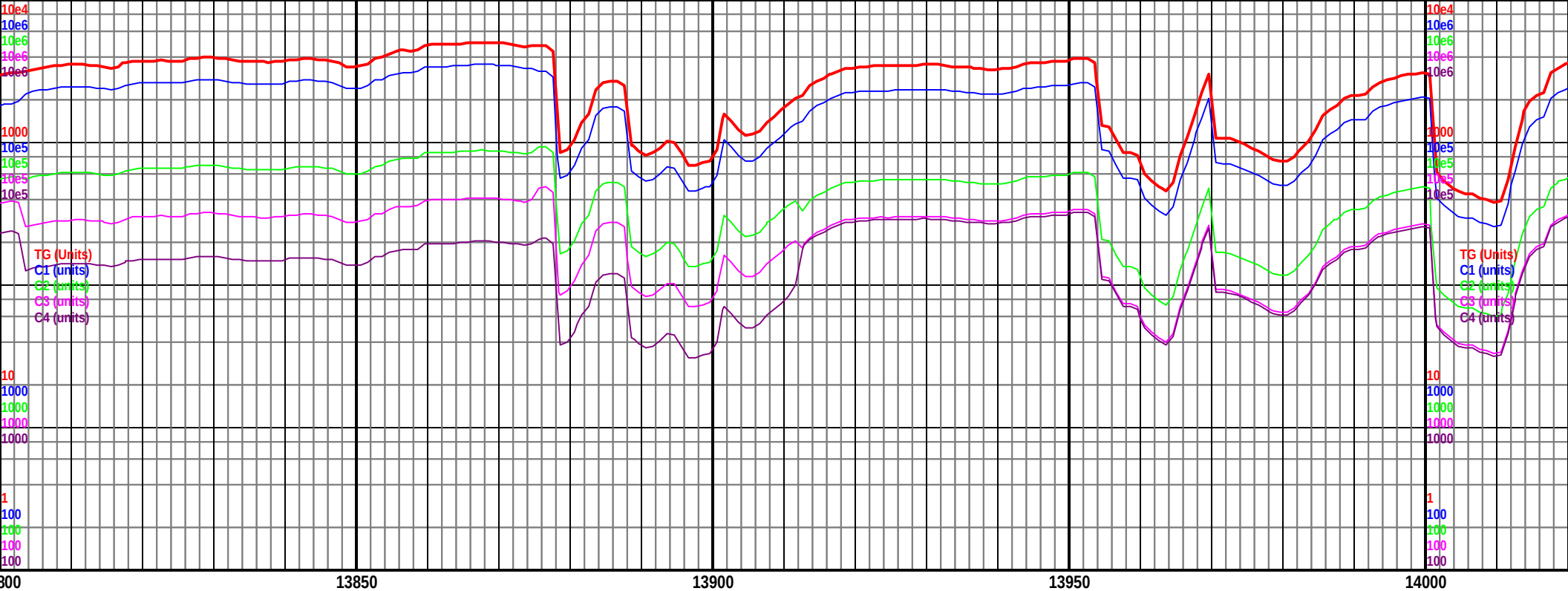

MD 13183 TVD 5902.52
INC 90.09 AZ 359.95
VS 7418.79 DL 0.81
250 TVD
Sub Sea (-389)
MD 13275 TVD 5901.99
INC 90.57 AZ 358.8
VS 7510.78 DL 1.35
5775
(-914)
B
B
3200 Chk lt gy-gy, sb plty-blky,
ip, mod frm, rr Mrlst gy-dk gy,
blky, no bent, tr inoc, fst oil cut,
, 5% mrlst
13200-13300 Chk lt gy-gy, sb plty-blky,
banded ip, mod frm, rr Mrlst gy-dk gy,
blky-sb blky, no bent, tr inoc, fst oil cut,
95% chk, 5% mrlst
13300-13400 Chk lt gy-gy,
banded ip, mod frm, rr Mrl
blky-sb blky, tr bent, tr inc
95% chk, 5% mrlst

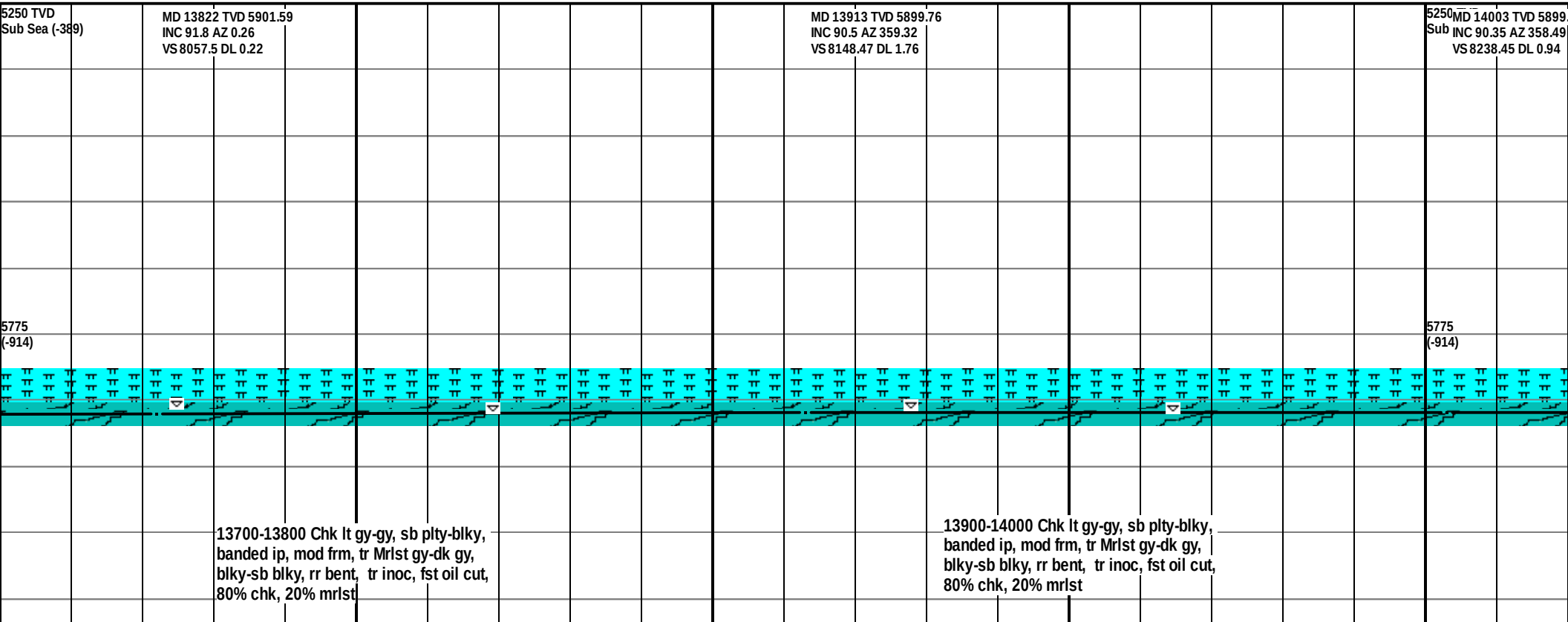

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 62.5%
Ethane 19.9%
Propane 11.1%
Butane 6.5%
13400
13450
13500
13550

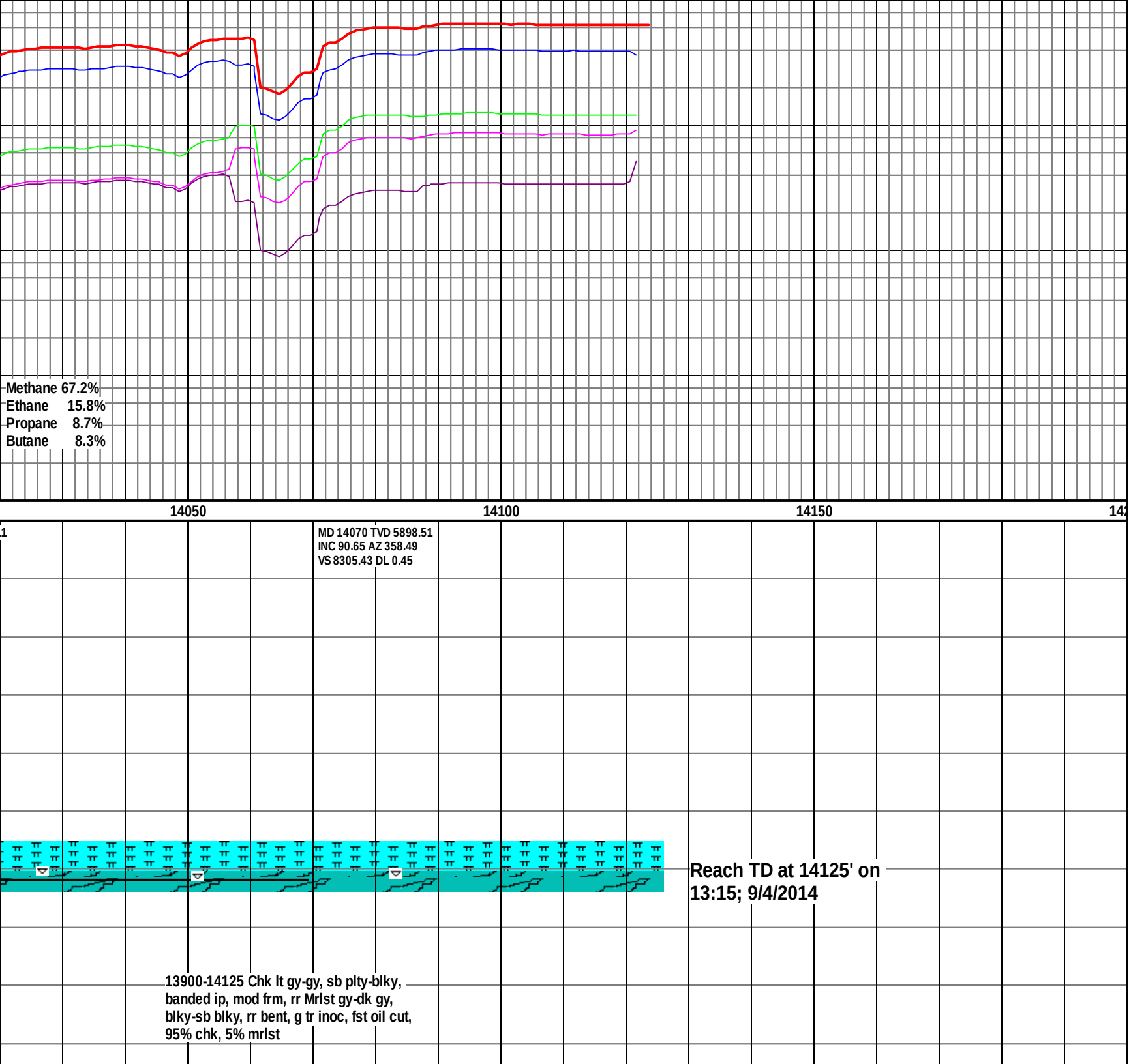

MD 13366 TVD 5902.59
INC 88.67 AZ 358.37
VS 7601.74 DL 2.14
5250 TVD
Sub Sea (-389)
MD 13457 TVD 5904.85
INC 88.49 AZ 358.61
VS 7692.69 DL 0.33
MD 13548 TVD 5906.93
INC 88.89 AZ 357.69
VS 7783.61 DL 1.1
5775
(-914)
B
, sb plty-blky,
lst gy-dk gy,
oc, fst oil cut,
13400-13500 Chk lt gy-gy, sb plty-blky,
banded ip, mod frm, rr Mrlst gy-dk gy,
blky-sb blky, rr bent, g tr inoc, fst oil cut,
95% chk, 5% mrlst
13500-13600 Chk lt gy-gy, sb plty-blky,
banded ip, mod frm, rr Mrlst gy-dk gy,
blky-sb blky, rr bent, g tr inoc, fst oil
cut, 95% chk, 5% mrlst


10e4
10e6
10e3
10e5
10e6
1000
10e5
10e3
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Methane 60.9%
Ethane 18.6%
Propane 12.7%
Butane 7.8%
13600
13650
13700
13750
13


5250 TVD
Sub Sea (-389)
MD 13639 TVD 5906.71
INC 91.39 AZ 359.26
VS 7874.57 DL 3.24
MD 13731 TVD 5904.3
INC 91.61 AZ 0.33
VS 7966.54 DL 1.19
5775
(-914)
13600-13700 Chk lt gy-gy, sb plty-blky, banded ip, mod frm, rr Mrlst gy-dk gy, blky-sb blky, rr bent, g tr inoc, fst oil cut, 95% chk, 5% mrlst
13600-13700 Chk lt gy-gy, sb plty-blky, banded ip, mod frm, rr Mrlst gy-dk gy, blky-sb blky, rr bent, g tr inoc, fst oil cut, 95% chk, 5% mrlst


TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
13850
13900
13950
14000


5250 TVD
Sub Sea (-389)
MD 13822 TVD 5901.59
INC 91.8 AZ 0.26
VS 8057.5 DL 0.22
MD 13913 TVD 5899.76
INC 90.5 AZ 359.32
VS 8148.47 DL 1.76
MD 14003 TVD 5899.
INC 90.35 AZ 358.49
VS 8238.45 DL 0.94
5775
(-914)
13700-13800 Chk lt gy-gy, sb plty-blky, banded ip, mod frm, tr Mrlst gy-dk gy, blky-sb blky, rr bent, tr inoc, fst oil cut, 80% chk, 20% mrlst
13900-14000 Chk lt gy-gy, sb plty-blky, banded ip, mod frm, tr Mrlst gy-dk gy, blky-sb blky, rr bent, tr inoc, fst oil cut, 80% chk, 20% mrlst


Methane 67.2%
Ethane 15.8%
Propane 8.7%
Butane 8.3%
14050
14100
14150
MD 14070 TVD 5898.51
INC 90.65 AZ 358.49
VS 8305.43 DL 0.45
Reach TD at 14125' on
13:15; 9/4/2014
13900-14125 Chk lt gy-gy, sb plty-blky,
banded ip, mod frm, rr Mrlst gy-dk gy,
blky-sb blky, rr bent, g tr inoc, fst oil cut,
95% chk, 5% mrlst