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

Well Name:	Razor 12F-0108B
Well Id:	05-123-38717-00
Location:	SENW 12-T10N-R58W
License Number:	05-123-38717-00
Region:	Redtail Field
Spud Date:	7/29/2015
Drilling Completed:	8/5/2015
Surface Coordinates:	Lat.: 40.854661 Long.: -103.817564
Bottom Hole Coordinates:	
Ground Elevation (ft):	4940
K.B. Elevation (ft):	4961
Logged Interval (ft):	5440 To: 13515
Total Depth (ft):	13515
Formation:	Pierre, Sharon Springs, Niobrara B
Type of Drilling Fluid:	Water Based Mud

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

OPERATOR

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

GEOLOGIST

Name: Eli Denbesten and Todd Nakata
Company: Acme Geologic Consulting
Address: 108 Berry Street
Little Rock, AR 72205

Drilling Company

Unit Drilling Company
Rig 409

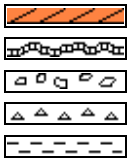
Gas Detection

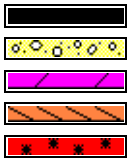
Mudlogging Systems, Inc., M Logger, Model TGC, Total Gas and Chromatograph

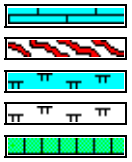
Comments

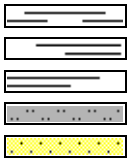
Lithologies and tops at drilled depths, not corrected to elogs. Where the well bore gas is 100% methane, the C1 line is moved to 85% for graphical purposes only.

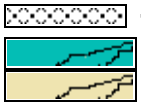
ROCK TYPES


Anhy
Bent
Brec
Cht
Clyst


Coal
Congl
Dol
Gyp
Igne


Lmst
Meta
Cyan mrlst
Mrlst
Salt


Shale
Shcol
Shgy
Sltst
Ss


Till
Cyan chk
Chalk

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

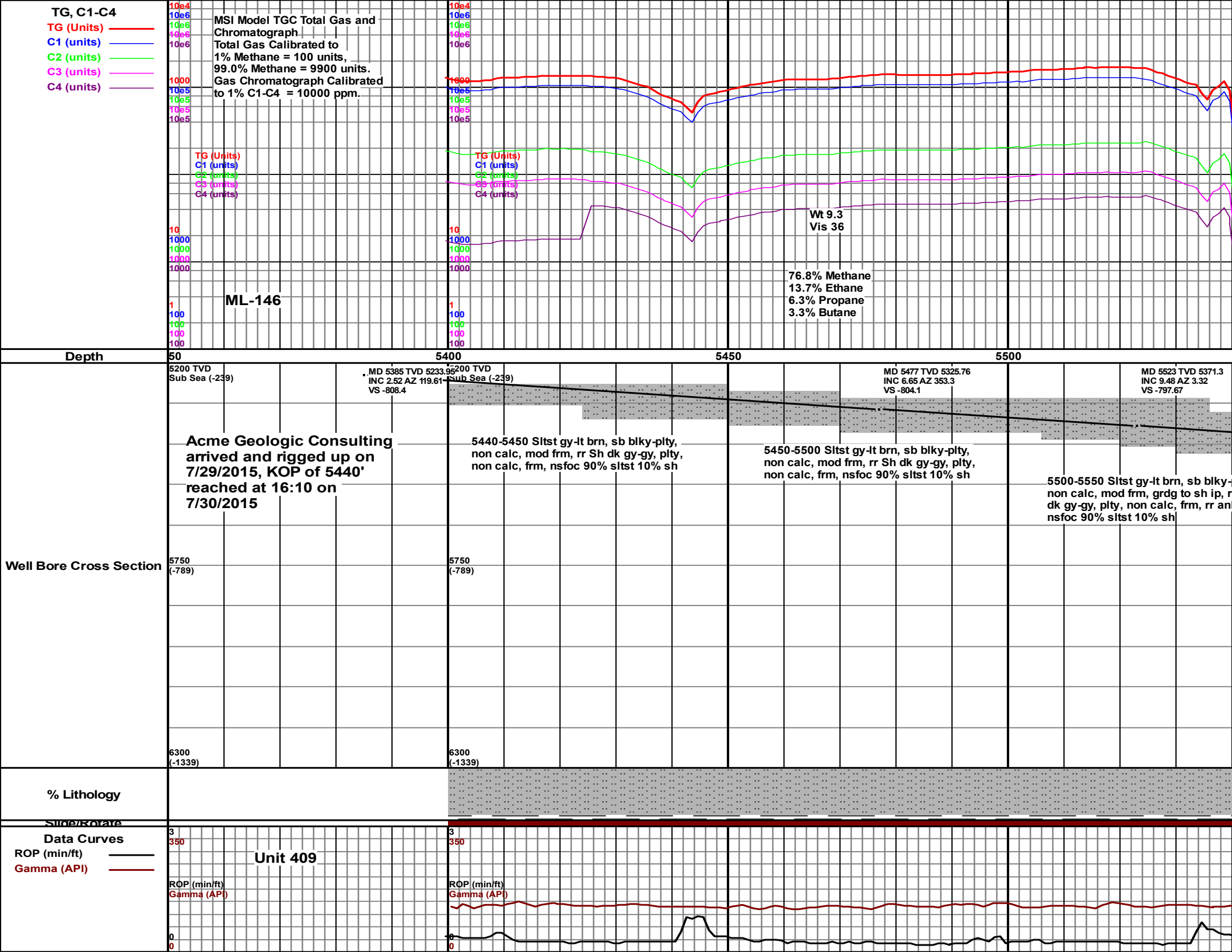
SORTING
- Well
- Moderate
- Poor

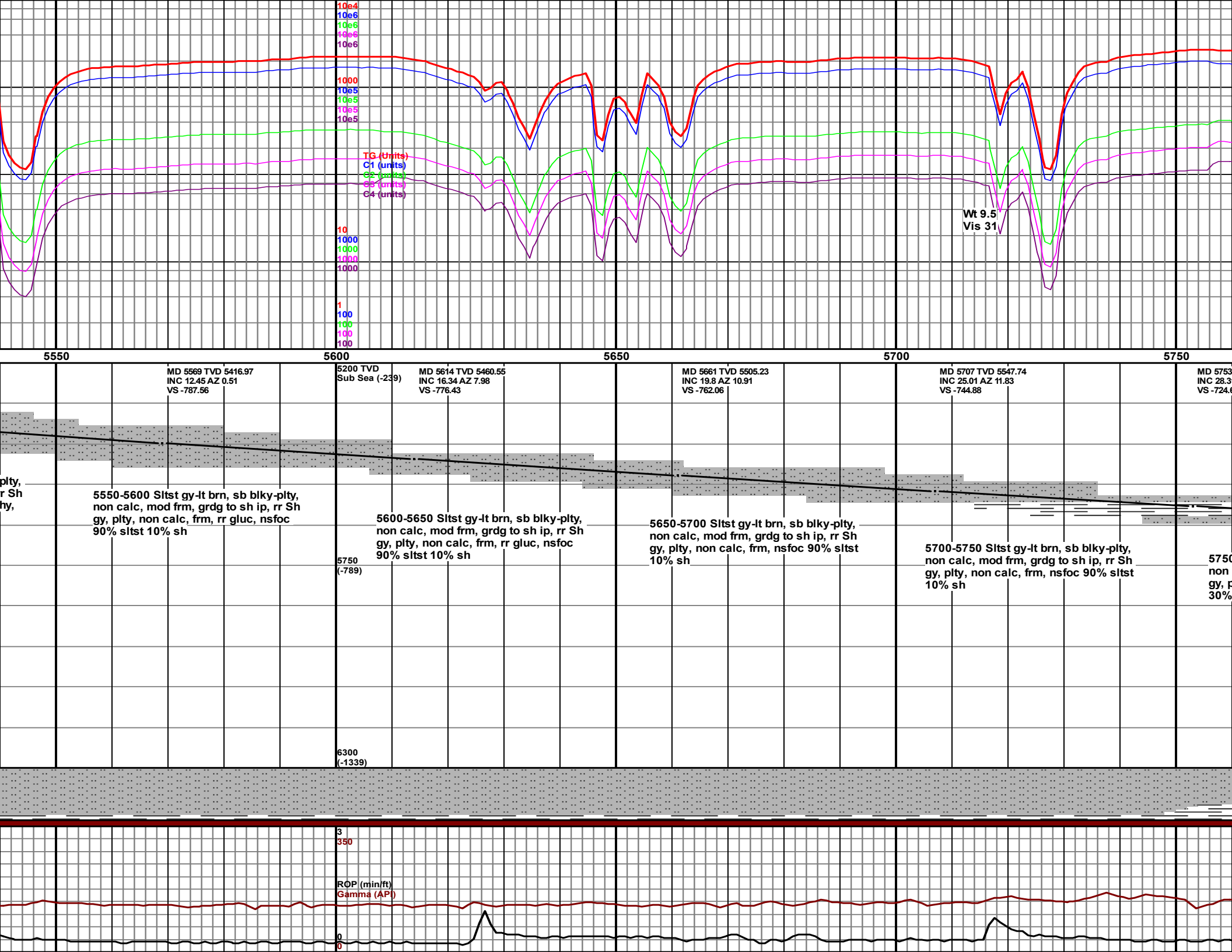
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

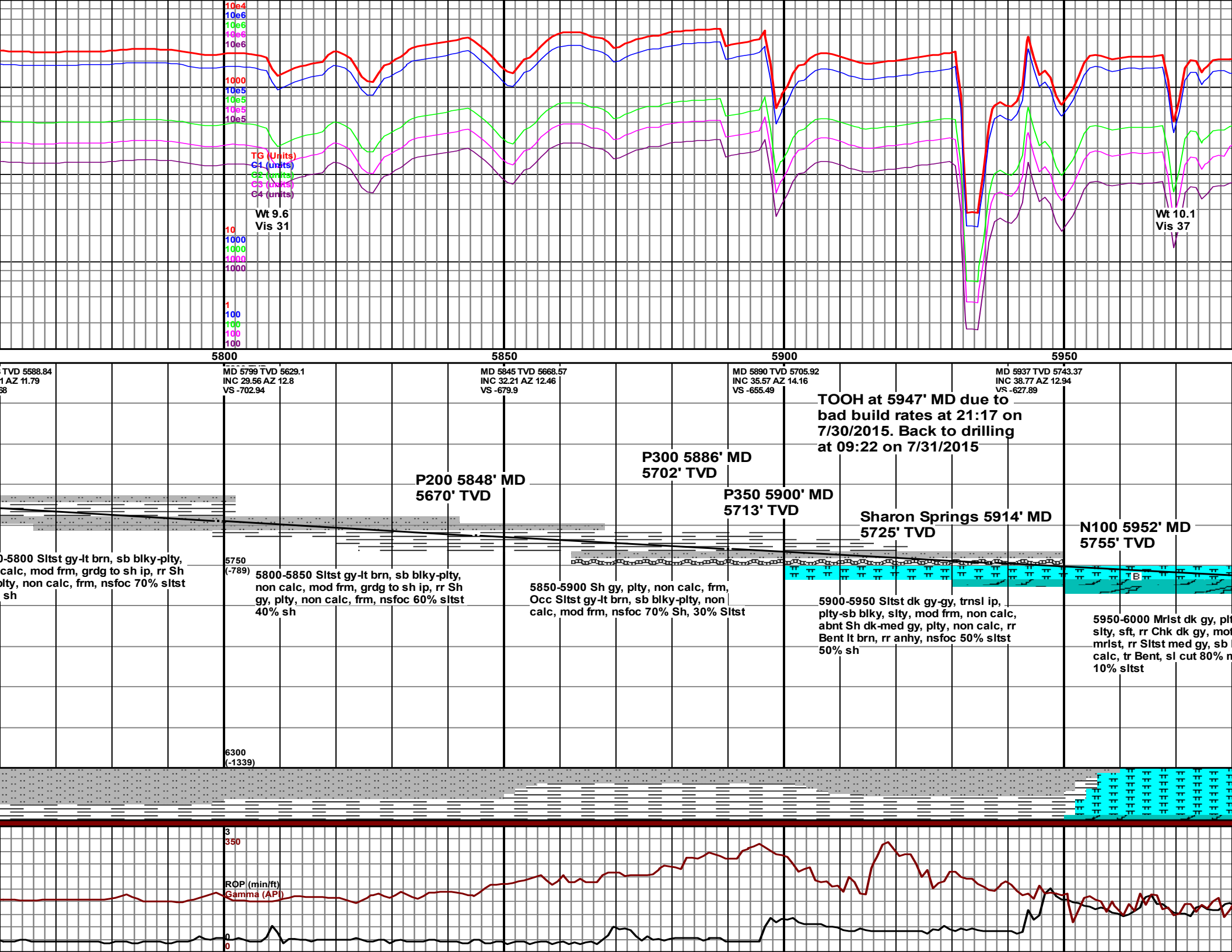
OIL SHOW
- Even
- Spotted
- Ques
- Dead

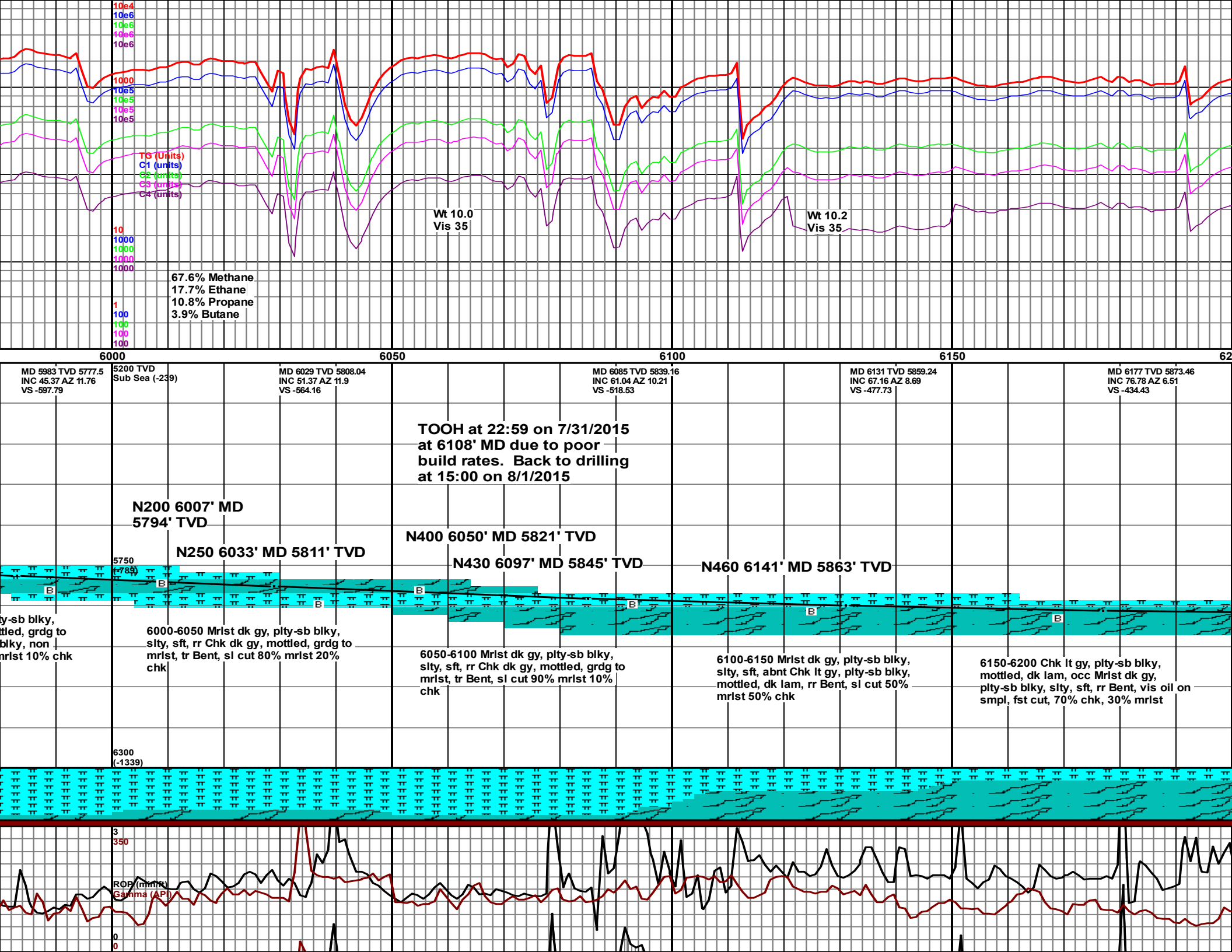
INTERVAL
- Core
- Dst

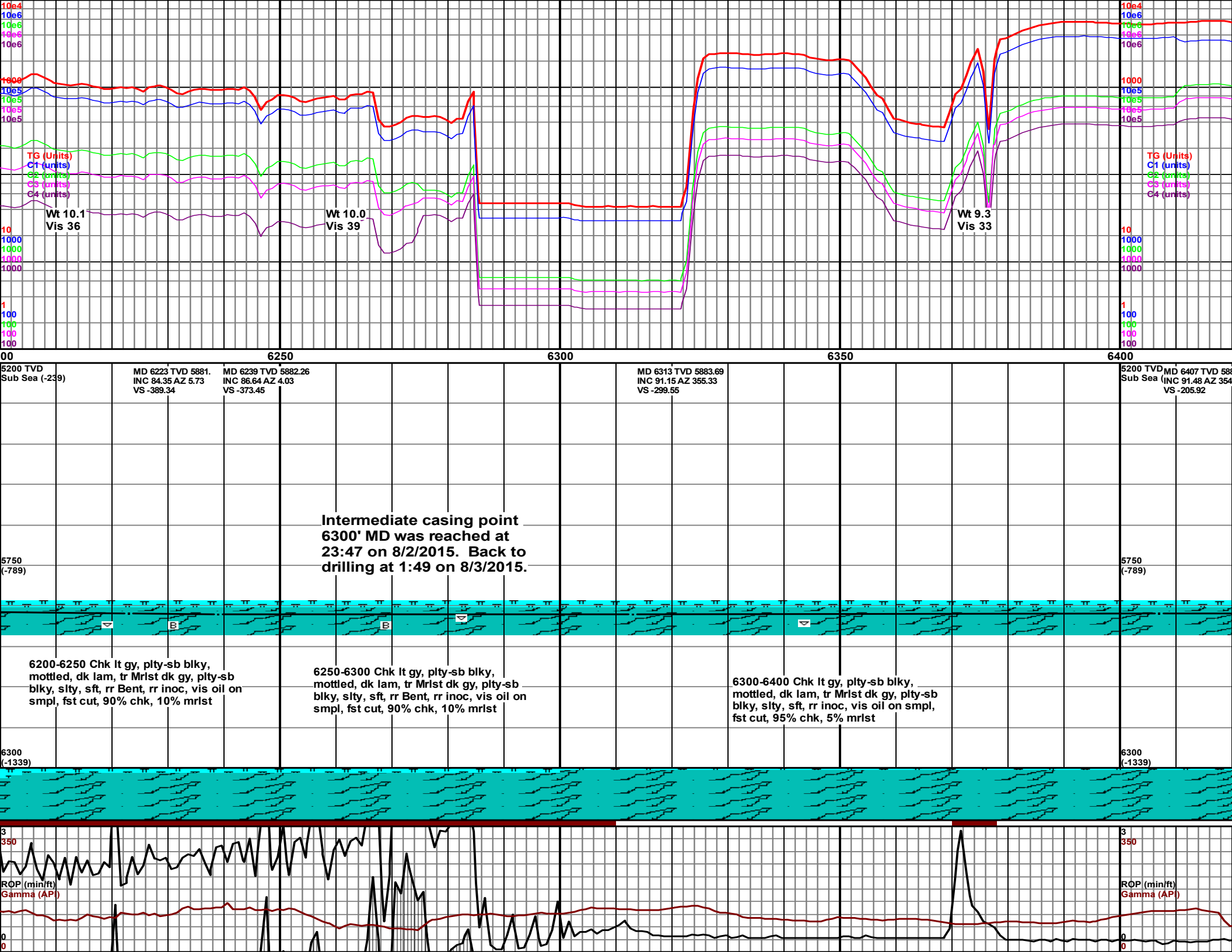
EVENT
- Rft
- Sidewall

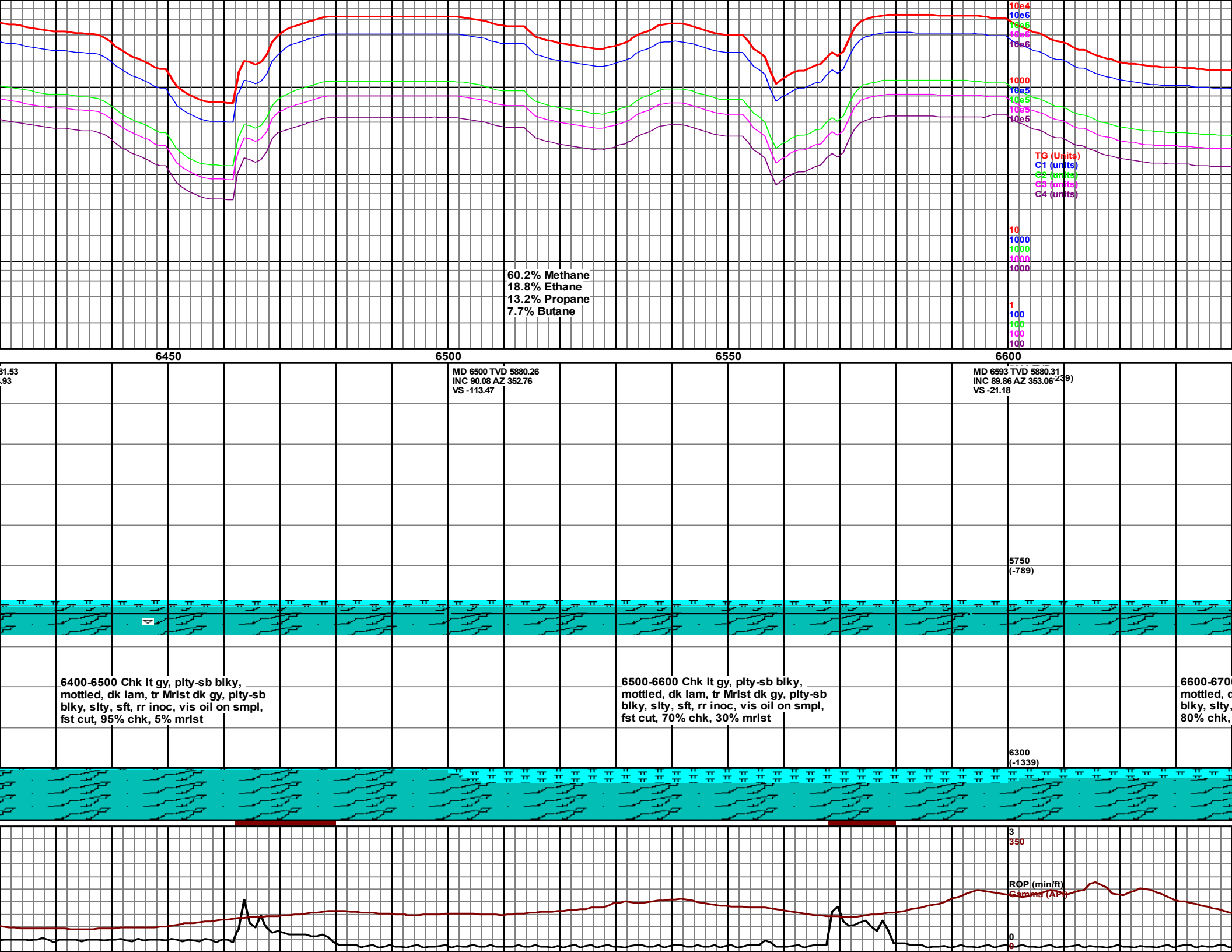

TG, C1-C4
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
MSI Model TGC Total Gas and Chromatograph
Total Gas Calibrated to 1% Methane = 100 units, 99.0% Methane = 9900 units.
Gas Chromatograph Calibrated to 1% C1-C4 = 10000 ppm.
ML-146
Wt 9.3
Vis 36
76.8% Methane
13.7% Ethane
6.3% Propane
3.3% Butane
Depth
50
5400
5450
5500
Well Bore Cross Section
5200 TVD
Sub Sea (-239)
MD 5385 TVD 5233.95
INC 2.52 AZ 119.61
VS -808.4
MD 5477 TVD 5325.76
INC 6.65 AZ 353.3
VS -804.1
MD 5523 TVD 5371.3
INC 9.48 AZ 3.32
VS -797.67
Acme Geologic Consulting arrived and rigged up on 7/29/2015, KOP of 5440' reached at 16:10 on 7/30/2015
5440-5450 Sltst gy-lt brn, sb blky-plty, non calc, mod frm, rr Sh dk gy-gy, plty, non calc, frm, nsfoc 90% sltst 10% sh
5450-5500 Sltst gy-lt brn, sb blky-plty, non calc, mod frm, rr Sh dk gy-gy, plty, non calc, frm, nsfoc 90% sltst 10% sh
5500-5550 Sltst gy-lt brn, sb blky-
non calc, mod frm, grdg to sh ip, r
dk gy-gy, plty, non calc, frm, rr an
nsfoc 90% sltst 10% sh
5750
(-789)
6300
(-1339)
% Lithology
Slide/Rotate
Data Curves
ROP (min/ft)
Gamma (API)
Unit 409

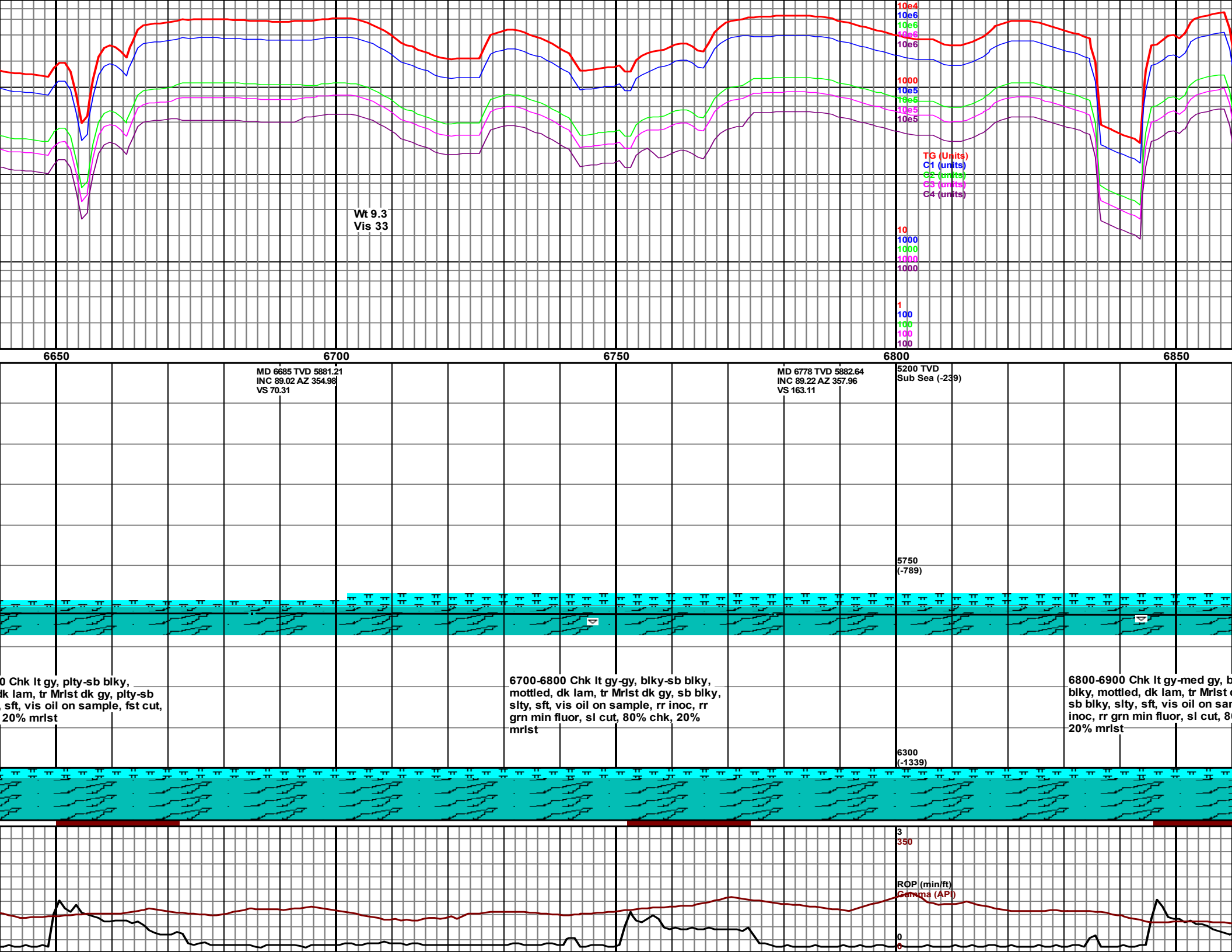

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Wt 9.5
Vis 31
5550
5600
5650
5700
5750
MD 5569 TVD 5416.97
INC 12.45 AZ 0.51
VS -787.56
5200 TVD
Sub Sea (-239)
MD 5614 TVD 5460.55
INC 16.34 AZ 7.98
VS -776.43
MD 5661 TVD 5505.23
INC 19.8 AZ 10.91
VS -762.06
MD 5707 TVD 5547.74
INC 25.01 AZ 11.83
VS -744.88
plty,
r Sh
hy,
5550-5600 Sltst gy-lt brn, sb blky-plty, non calc, mod frm, grdg to sh ip, rr Sh gy, plty, non calc, frm, rr gluc, nsfoc 90% sltst 10% sh
5600-5650 Sltst gy-lt brn, sb blky-plty, non calc, mod frm, grdg to sh ip, rr Sh gy, plty, non calc, frm, rr gluc, nsfoc 90% sltst 10% sh
5650-5700 Sltst gy-lt brn, sb blky-plty, non calc, mod frm, grdg to sh ip, rr Sh gy, plty, non calc, frm, nsfoc 90% sltst 10% sh
5700-5750 Sltst gy-lt brn, sb blky-plty, non calc, mod frm, grdg to sh ip, rr Sh gy, plty, non calc, frm, nsfoc 90% sltst 10% sh
5750
(-789)
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

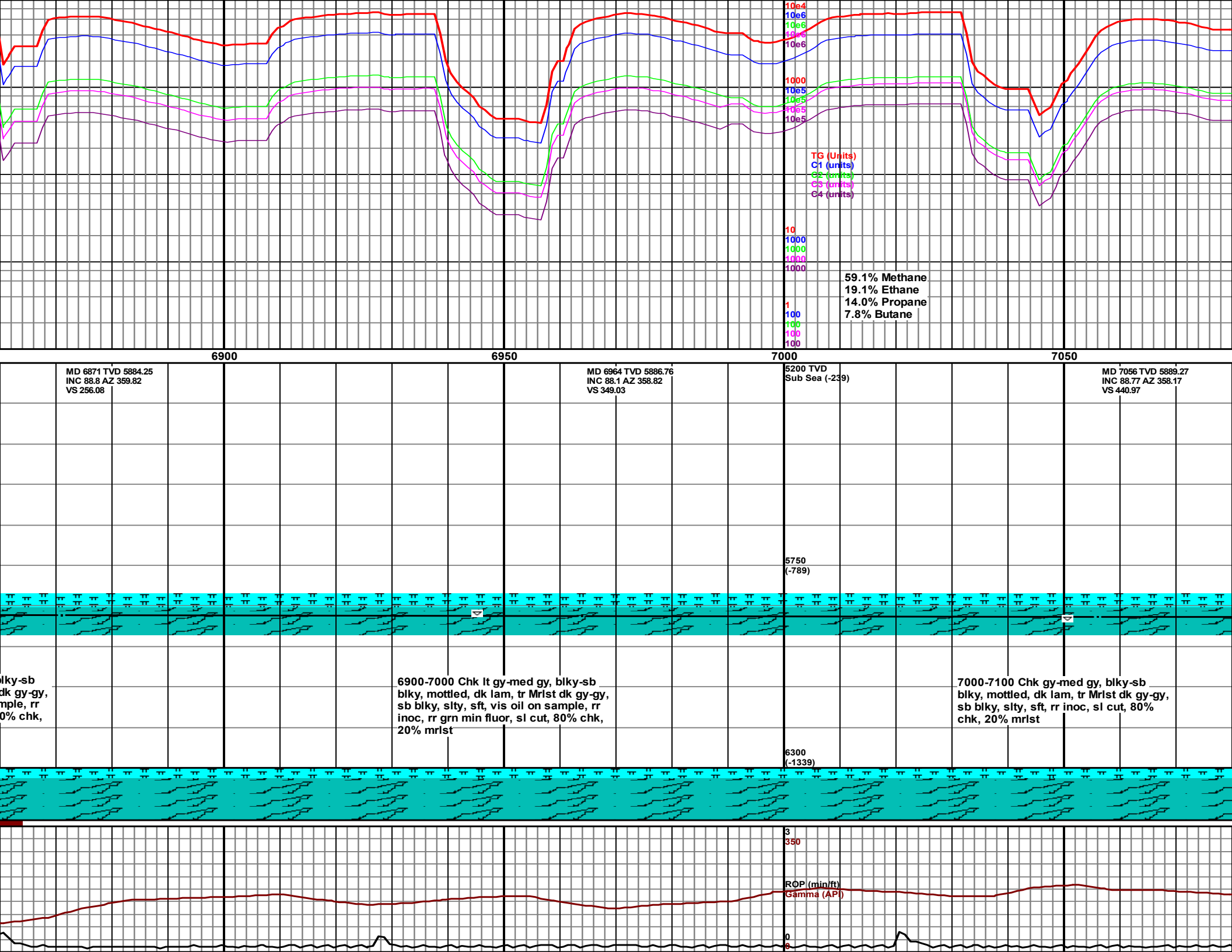

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.6
Vis 31
10
1000
1000
1000
1000
1
100
100
100
100
Wt 10.1
Vis 37
5800
5850
5900
5950
MD 5799 TVD 5629.1
INC 29.56 AZ 12.8
VS -702.94
MD 5845 TVD 5668.57
INC 32.21 AZ 12.46
VS -679.9
MD 5890 TVD 5705.92
INC 35.57 AZ 14.16
VS -655.49
MD 5937 TVD 5743.37
INC 38.77 AZ 12.94
VS -627.89
TOOH at 5947' MD due to bad build rates at 21:17 on 7/30/2015. Back to drilling at 09:22 on 7/31/2015
P300 5886' MD
5702' TVD
P200 5848' MD
5670' TVD
P350 5900' MD
5713' TVD
Sharon Springs 5914' MD
5725' TVD
N100 5952' MD
5755' TVD
5750
(-789)
5800-5850 Sltst gy-lt brn, sb blky-plty, non calc, mod frm, grdg to sh ip, rr Sh gy, plty, non calc, frm, nsfoc 60% sltst 40% sh
5850-5900 Sh gy, plty, non calc, frm, Occ Sltst gy-lt brn, sb blky-plty, non calc, mod frm, nsfoc 70% Sh, 30% Sltst
5900-5950 Sltst dk gy-gy, trnsl ip, plty-sb blky, slty, mod frm, non calc, abnt Sh dk-med gy, plty, non calc, rr Bent lt brn, rr anhy, nsfoc 50% sltst 50% sh
5950-6000 Mrlst dk gy, plt
slty, sft, rr Chk dk gy, mot
mrlst, rr Sltst med gy, sb
calc, tr Bent, sl cut 80% n
10% sltst
TB
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

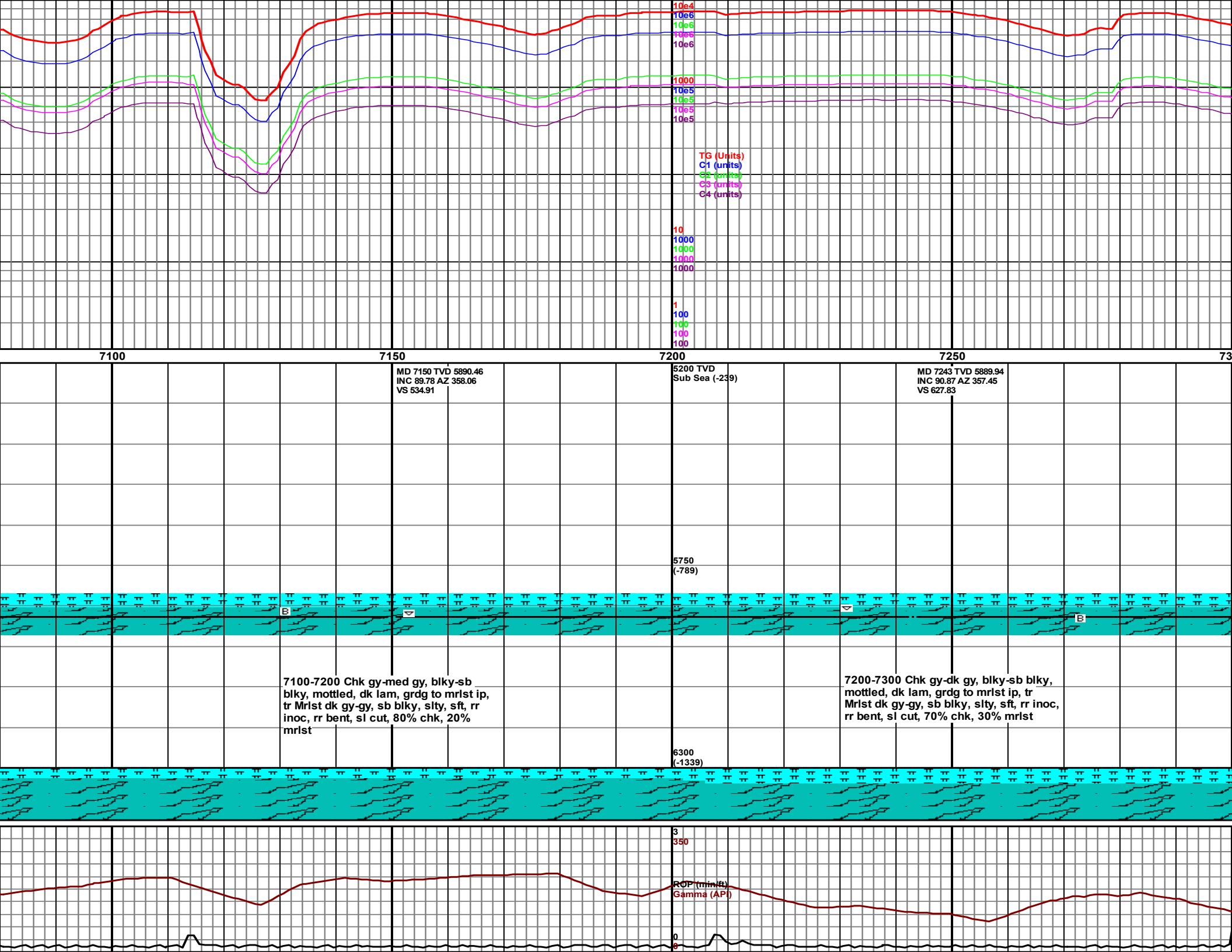

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Wt 10.0
Vis 35
Wt 10.2
Vis 35
67.6% Methane
17.7% Ethane
10.8% Propane
3.9% Butane
6000
6050
6100
6150
62
MD 5983 TVD 5777.5
INC 45.37 AZ 11.76
VS -597.79
5200 TVD
Sub Sea (-239)
MD 6029 TVD 5808.04
INC 51.37 AZ 11.9
VS -564.16
MD 6085 TVD 5839.16
INC 61.04 AZ 10.21
VS -518.53
MD 6131 TVD 5859.24
INC 67.16 AZ 8.69
VS -477.73
MD 6177 TVD 5873.46
INC 76.78 AZ 6.51
VS -434.43
TOOH at 22:59 on 7/31/2015
at 6108' MD due to poor
build rates. Back to drilling
at 15:00 on 8/1/2015
N200 6007' MD
5794' TVD
N250 6033' MD 5811' TVD
N400 6050' MD 5821' TVD
N430 6097' MD 5845' TVD
N460 6141' MD 5863' TVD
5750
(+785)
6300
(-1339)
B
ty-sb blky,
ttled, grdg to
blky, non
nrlst 10% chk
6000-6050 Mrlst dk gy, plty-sb blky,
slty, sft, rr Chk dk gy, mottled, grdg to
mrlst, tr Bent, sl cut 80% mrlst 20%
chk
6050-6100 Mrlst dk gy, plty-sb blky,
slty, sft, rr Chk dk gy, mottled, grdg to
mrlst, tr Bent, sl cut 90% mrlst 10%
chk
6100-6150 Mrlst dk gy, plty-sb blky,
slty, sft, abnt Chk lt gy, plty-sb blky,
mottled, dk lam, rr Bent, sl cut 50%
mrlst 50% chk
6150-6200 Chk lt gy, plty-sb blky,
mottled, dk lam, occ Mrlst dk gy,
plty-sb blky, slty, sft, rr Bent, vis oil on
smpl, fst cut, 70% chk, 30% mrlst
3
350
ROP (mm/hr)
Gamma (API)
0
0

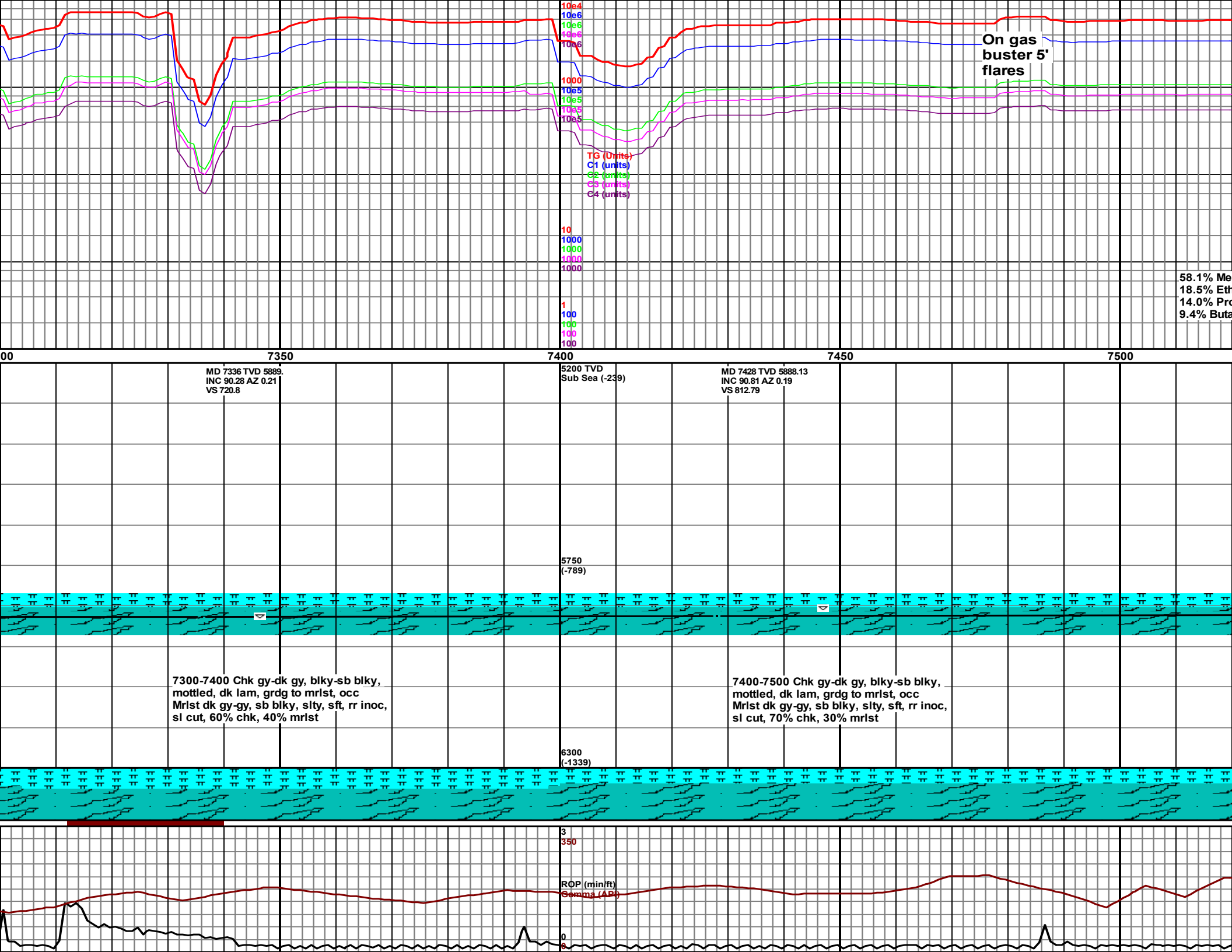

TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 10.1
Vis 36
Wt 10.0
Vis 39
Wt 9.3
Vis 33
6250
6300
6350
6400
MD 6223 TVD 5881.
INC 84.35 AZ 5.73
VS -389.34
MD 6239 TVD 5882.26
INC 86.64 AZ 4.03
VS -373.45
MD 6313 TVD 5883.69
INC 91.15 AZ 355.33
VS -299.55
MD 6407 TVD 588
INC 91.48 AZ 354
VS -205.92
5200 TVD
Sub Sea (-239)
5750
(-789)
6300
(-1339)
Intermediate casing point 6300' MD was reached at 23:47 on 8/2/2015. Back to drilling at 1:49 on 8/3/2015.
6200-6250 Chk lt gy, plty-sb blky, mottled, dk lam, tr Mrlst dk gy, plty-sb blky, slty, sft, rr Bent, rr inoc, vis oil on smpl, fst cut, 90% chk, 10% mrlst
6250-6300 Chk lt gy, plty-sb blky, mottled, dk lam, tr Mrlst dk gy, plty-sb blky, slty, sft, rr Bent, rr inoc, vis oil on smpl, fst cut, 90% chk, 10% mrlst
6300-6400 Chk lt gy, plty-sb blky, mottled, dk lam, tr Mrlst dk gy, plty-sb blky, slty, sft, rr inoc, vis oil on smpl, fst cut, 95% chk, 5% mrlst
ROP (min/ft)
Gamma (API)

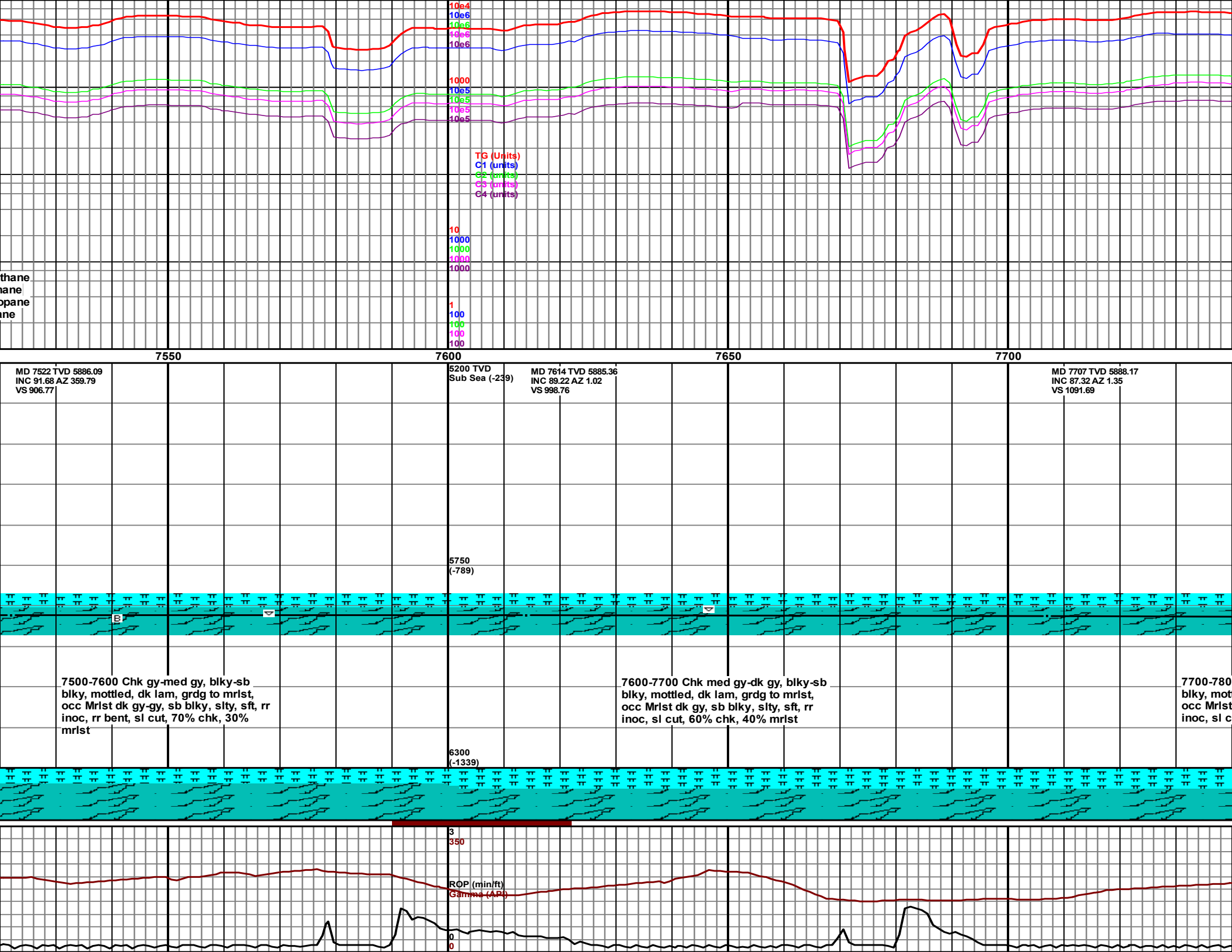

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
60.2% Methane
18.8% Ethane
13.2% Propane
7.7% Butane
6450
6500
6550
6600
MD 6500 TVD 5880.26
INC 90.08 AZ 352.76
VS -113.47
MD 6593 TVD 5880.31
INC 89.86 AZ 353.06
VS -21.18
5750
(-789)
6400-6500 Chk lt gy, plty-sb blky, mottled, dk lam, tr Mrlst dk gy, plty-sb blky, slty, sft, rr inoc, vis oil on smpl, fst cut, 95% chk, 5% mrlst
6500-6600 Chk lt gy, plty-sb blky, mottled, dk lam, tr Mrlst dk gy, plty-sb blky, slty, sft, rr inoc, vis oil on smpl, fst cut, 70% chk, 30% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

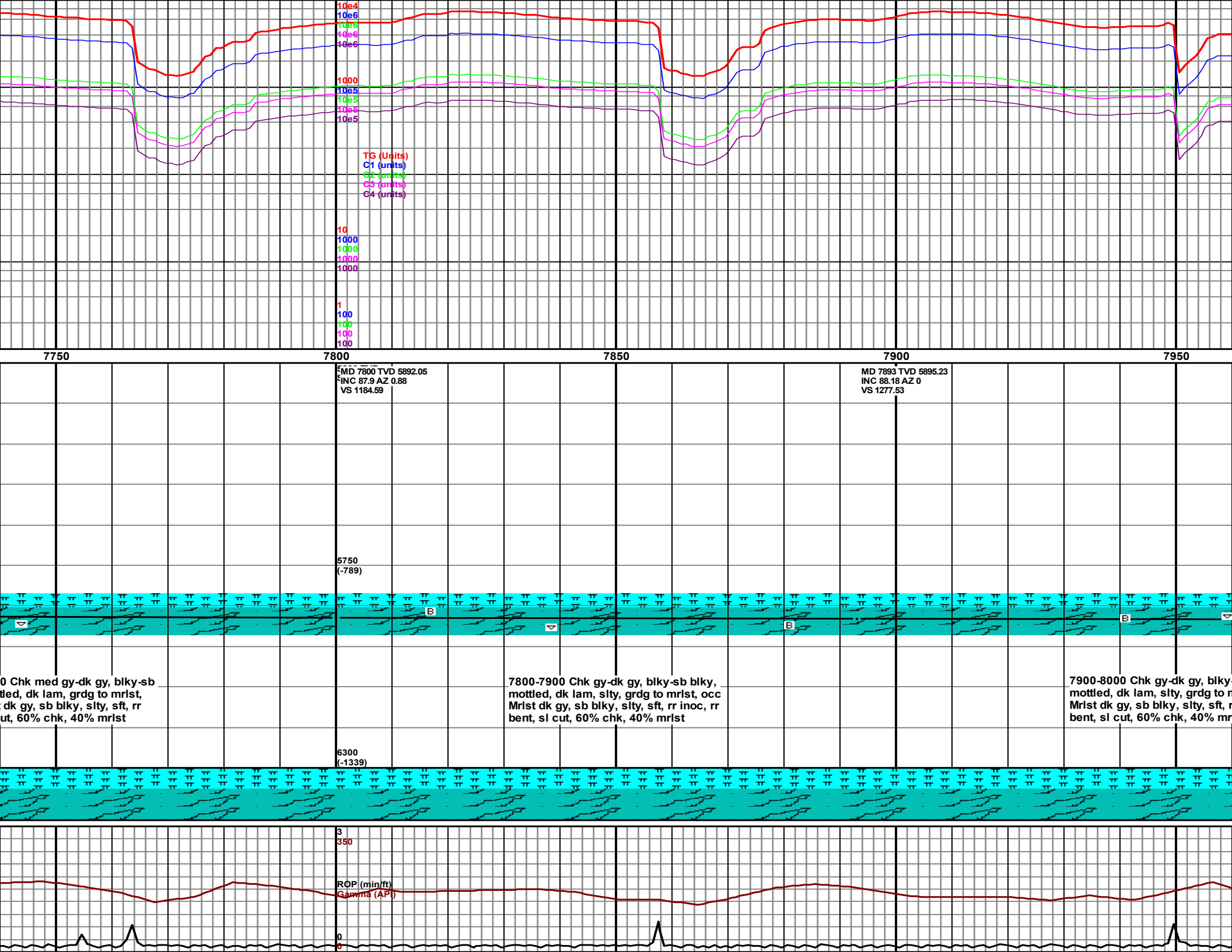

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.3
Vis 33
10
1000
1000
1000
1000
1
100
100
100
100
6650
6700
6750
6800
6850
MD 6685 TVD 5881.21
INC 89.02 AZ 354.98
VS 70.31
MD 6778 TVD 5882.64
INC 89.22 AZ 357.96
VS 163.11
5200 TVD
Sub Sea (-239)
5750
(-789)
0 Chk lt gy, plty-sb blky,
dk lam, tr Mrlst dk gy, plty-sb
, sft, vis oil on sample, fst cut,
20% mrlst
6700-6800 Chk lt gy-gy, blky-sb blky,
mottled, dk lam, tr Mrlst dk gy, sb blky,
slty, sft, vis oil on sample, rr inoc, rr
grn min fluor, sl cut, 80% chk, 20%
mrlst
6800-6900 Chk lt gy-med gy, b
blky, mottled, dk lam, tr Mrlst
sb blky, slty, sft, vis oil on sa
inoc, rr grn min fluor, sl cut, 8
20% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

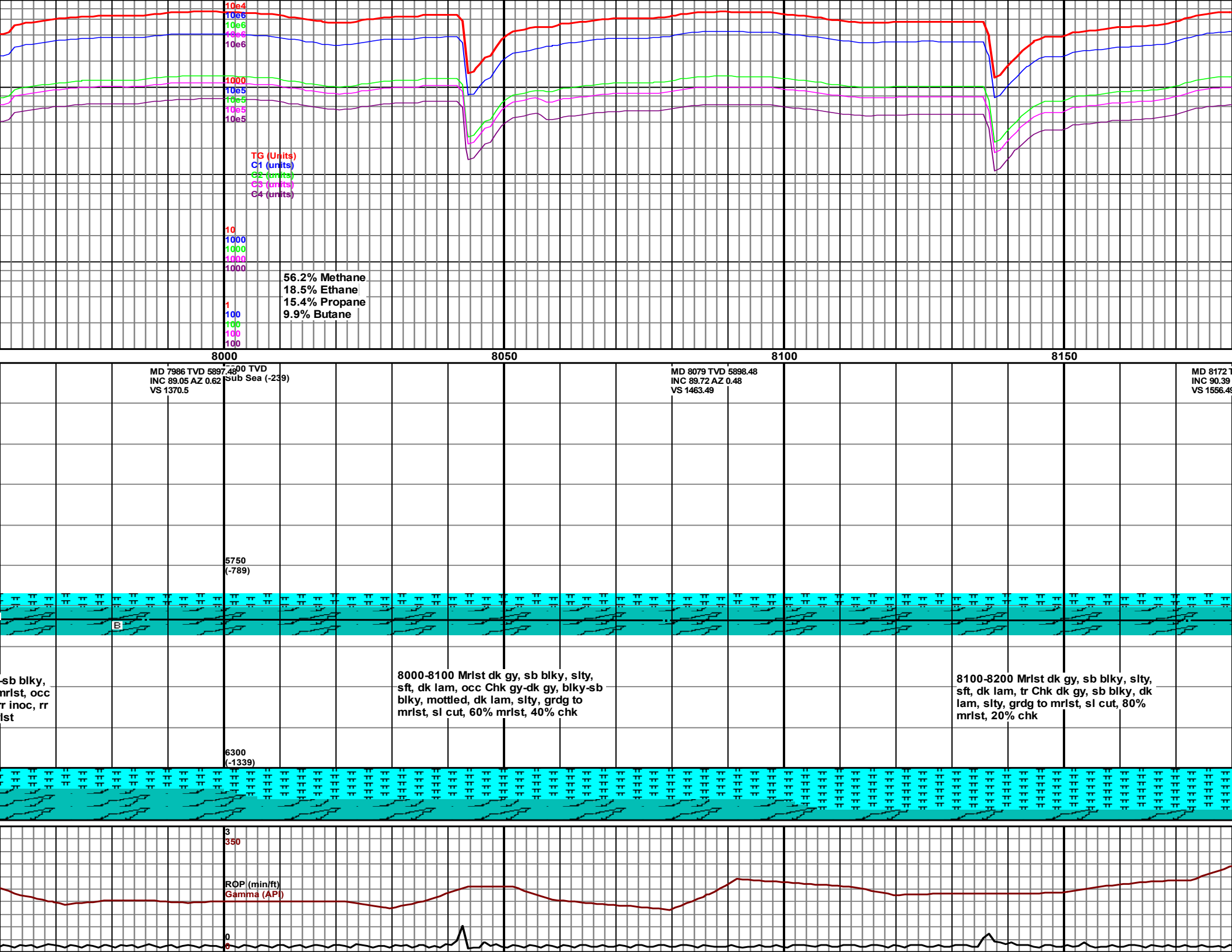

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
59.1% Methane
19.1% Ethane
14.0% Propane
7.8% Butane
6900
6950
7000
7050
MD 6871 TVD 5884.25
INC 88.8 AZ 359.82
VS 256.08
MD 6964 TVD 5886.76
INC 88.1 AZ 358.82
VS 349.03
5200 TVD
Sub Sea (-239)
MD 7056 TVD 5889.27
INC 88.77 AZ 358.17
VS 440.97
5750
(-789)
lky-sb
dk gy-gy,
mple, rr
0% chk,
6900-7000 Chk lt gy-med gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy-gy, sb blky, slty, sft, vis oil on sample, rr inoc, rr grn min fluor, sl cut, 80% chk, 20% mrlst
7000-7100 Chk gy-med gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy-gy, sb blky, slty, sft, rr inoc, sl cut, 80% chk, 20% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

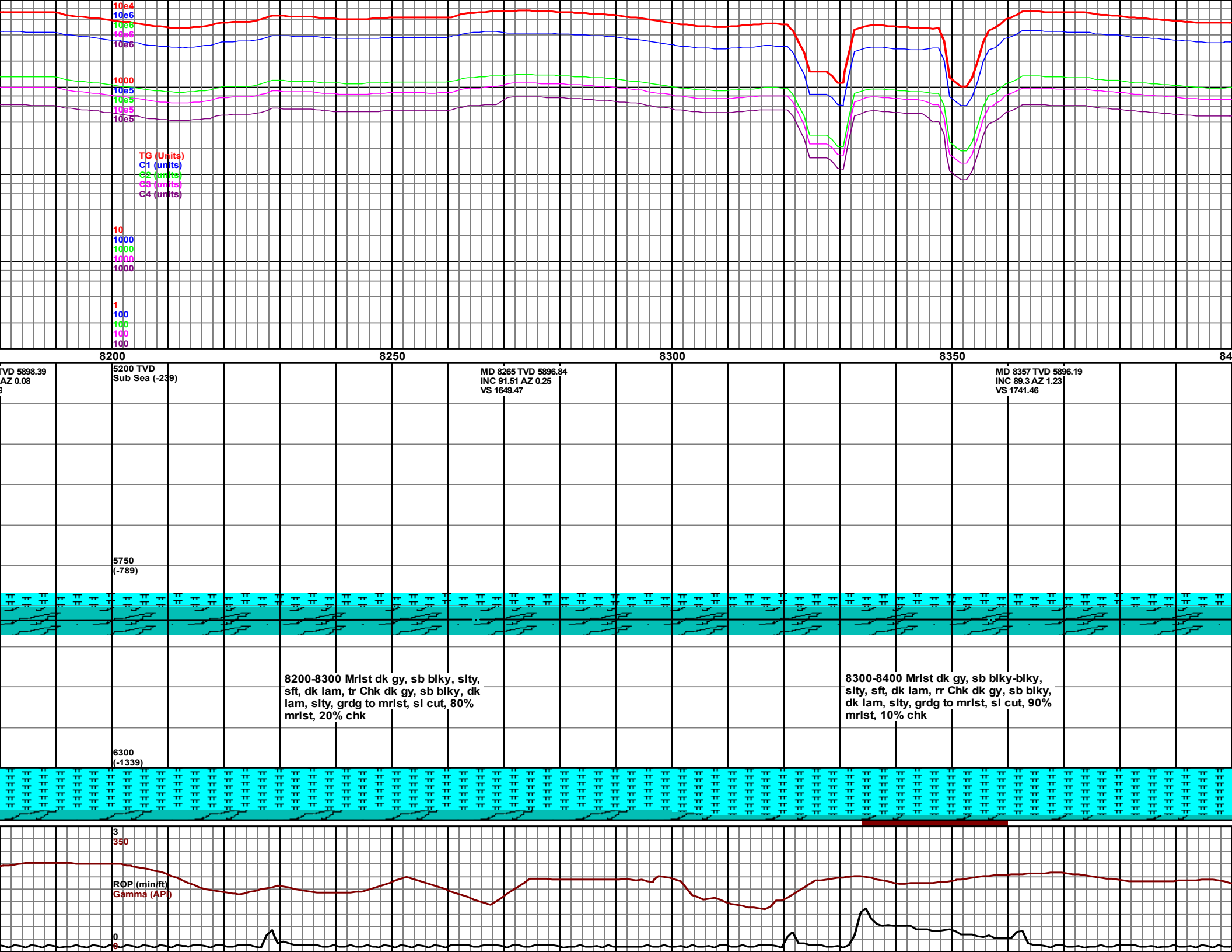

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
7100
7150
7200
7250
MD 7150 TVD 5890.46
INC 89.78 AZ 358.06
VS 534.91
5200 TVD
Sub Sea (-239)
MD 7243 TVD 5889.94
INC 90.87 AZ 357.45
VS 627.83
5750
(-789)
6300
(-1339)
7100-7200 Chk gy-med gy, blky-sb blky, mottled, dk lam, grdg to mrlst ip, tr Mrlst dk gy-gy, sb blky, slty, sft, rr inoc, rr bent, sl cut, 80% chk, 20% mrlst
7200-7300 Chk gy-dk gy, blky-sb blky, mottled, dk lam, grdg to mrlst ip, tr Mrlst dk gy-gy, sb blky, slty, sft, rr inoc, rr bent, sl cut, 70% chk, 30% mrlst
3
350
ROP (min/ft)
Gamma (API)
0
0

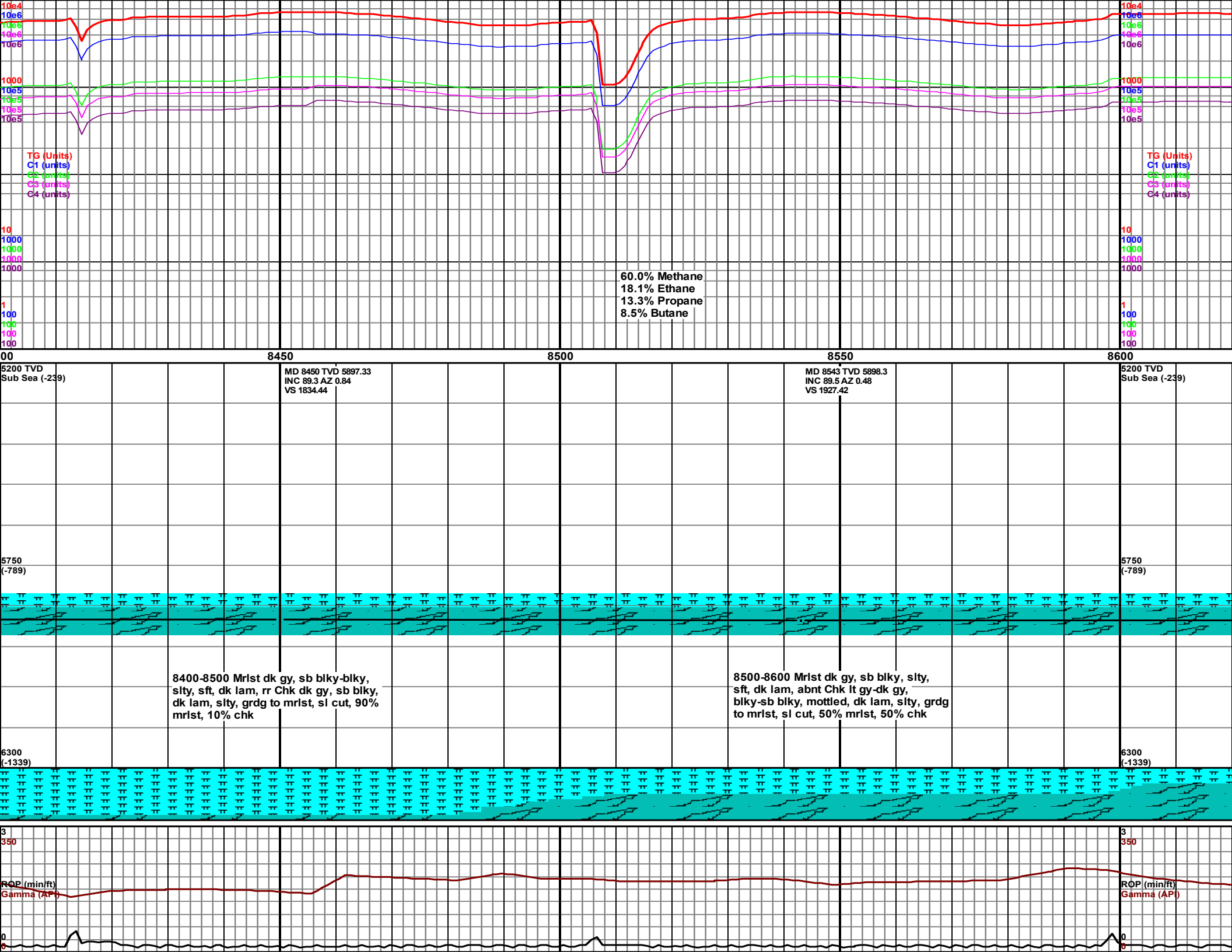

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
On gas buster 5' flares
58.1% Me
18.5% Eth
14.0% Pro
9.4% Buta
00
7350
7400
7450
7500
MD 7336 TVD 5889.
INC 90.28 AZ 0.21
VS 720.8
5200 TVD
Sub Sea (-239)
MD 7428 TVD 5888.13
INC 90.81 AZ 0.19
VS 812.79
5750
(-789)
7300-7400 Chk gy-dk gy, blky-sb blky, mottled, dk lam, grdg to mrlst, occ Mrlst dk gy-gy, sb blky, slty, sft, rr inoc, sl cut, 60% chk, 40% mrlst
7400-7500 Chk gy-dk gy, blky-sb blky, mottled, dk lam, grdg to mrlst, occ Mrlst dk gy-gy, sb blky, slty, sft, rr inoc, sl cut, 70% chk, 30% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

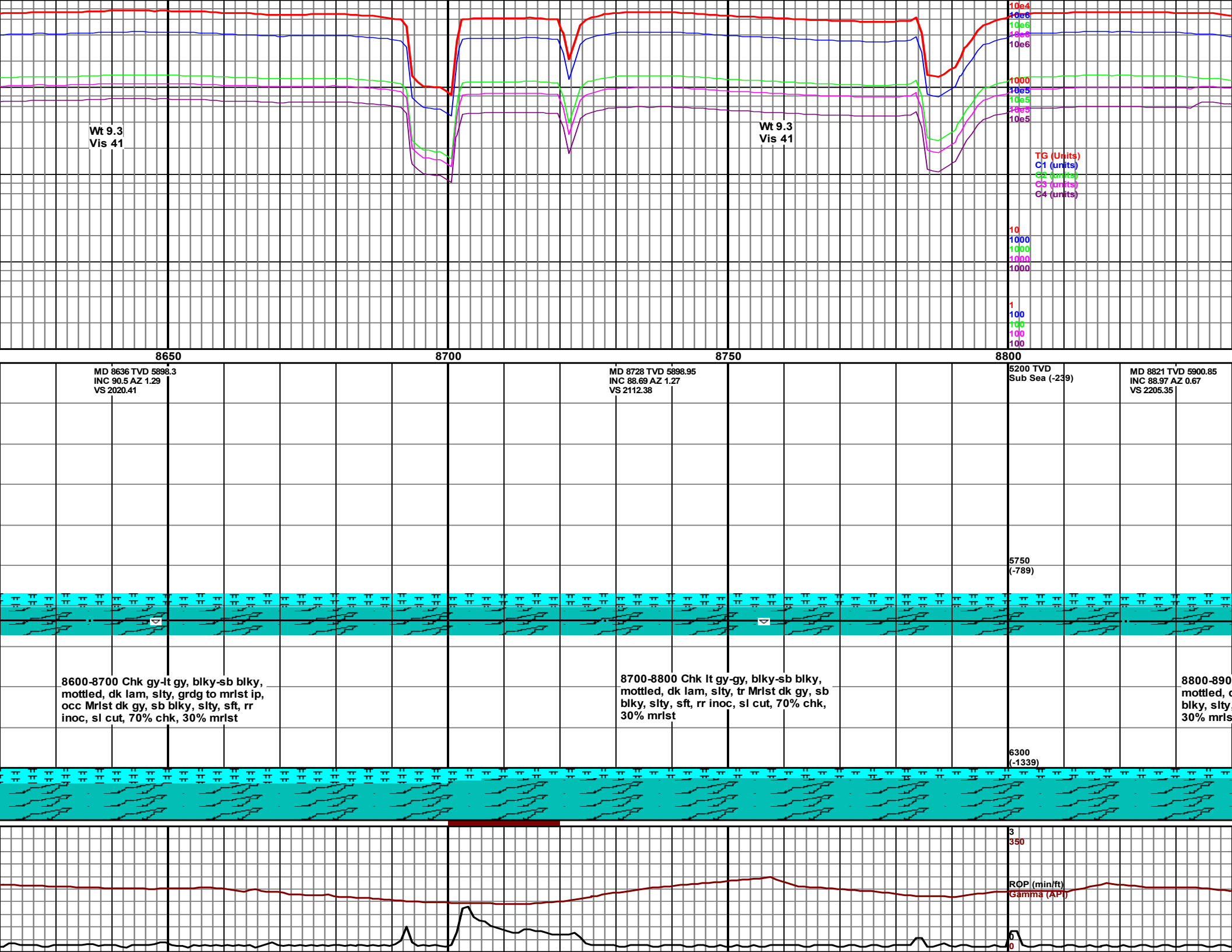

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
thane
nane
opane
ane
1
100
100
100
100
7550
7600
7650
7700
MD 7522 TVD 5886.09
INC 91.68 AZ 359.79
VS 906.77
5200 TVD
Sub Sea (-239)
MD 7614 TVD 5885.36
INC 89.22 AZ 1.02
VS 998.76
MD 7707 TVD 5888.17
INC 87.32 AZ 1.35
VS 1091.69
5750
(-789)
B
7500-7600 Chk gy-med gy, blky-sb blky, mottled, dk lam, grdg to mrlst, occ Mrlst dk gy-gy, sb blky, slty, sft, rr inoc, rr bent, sl cut, 70% chk, 30% mrlst
7600-7700 Chk med gy-dk gy, blky-sb blky, mottled, dk lam, grdg to mrlst, occ Mrlst dk gy, sb blky, slty, sft, rr inoc, sl cut, 60% chk, 40% mrlst
7700-780
blky, mot
occ Mrlst
inoc, sl c
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

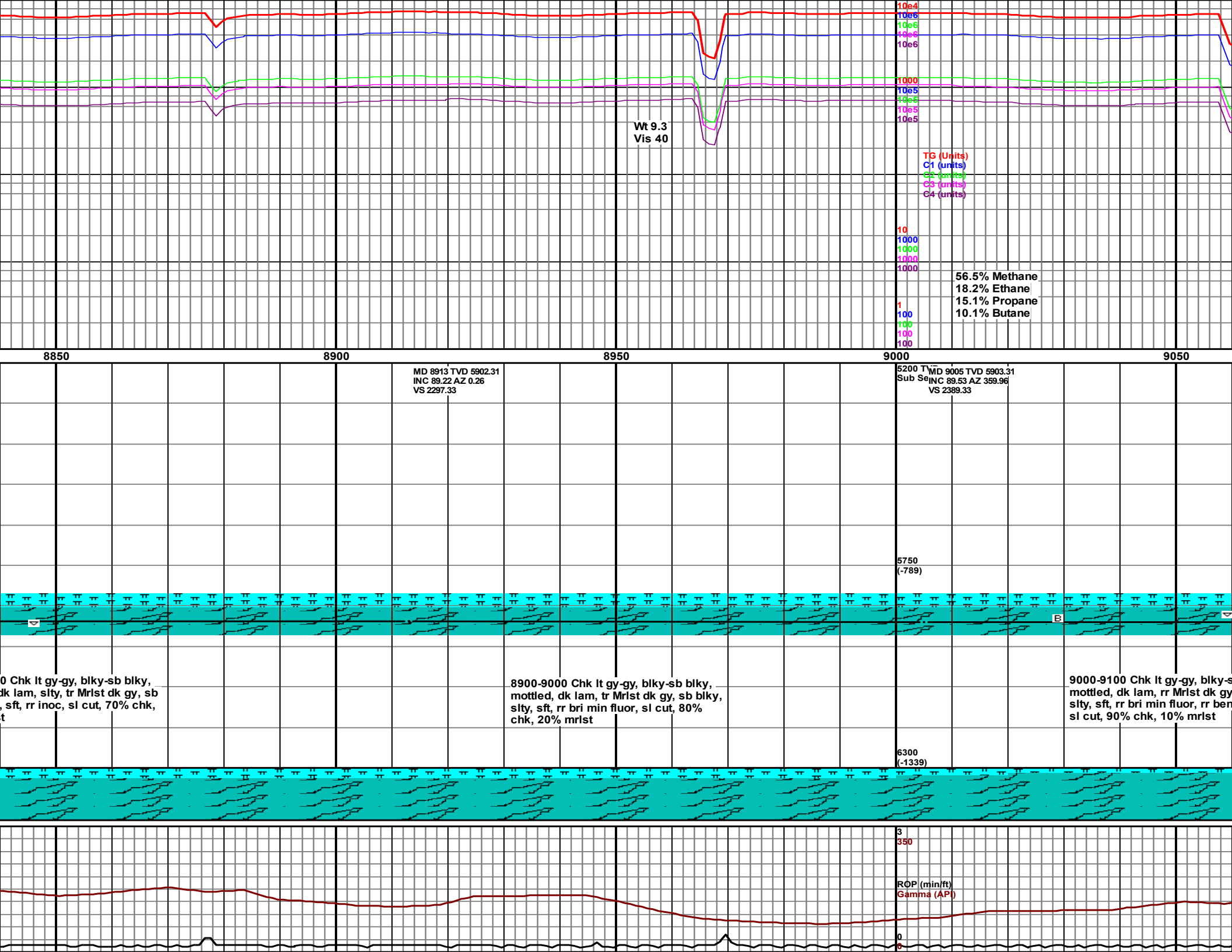

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
7750
7800
7850
7900
7950
MD 7800 TVD 5892.05
INC 87.9 AZ 0.88
VS 1184.59
MD 7893 TVD 5895.23
INC 88.18 AZ 0
VS 1277.53
5750
(-789)
6300
(-1339)
0 Chk med gy-dk gy, blky-sb
tled, dk lam, grdg to mrlst,
dk gy, sb blky, slty, sft, rr
ut, 60% chk, 40% mrlst
7800-7900 Chk gy-dk gy, blky-sb blky,
mottled, dk lam, slty, grdg to mrlst, occ
Mrlst dk gy, sb blky, slty, sft, rr inoc, rr
bent, sl cut, 60% chk, 40% mrlst
7900-8000 Chk gy-dk gy, blky
mottled, dk lam, slty, grdg to m
Mrlst dk gy, sb blky, slty, sft, r
bent, sl cut, 60% chk, 40% mr
3
350
ROP (min/ft)
Gamma (API)
0
0

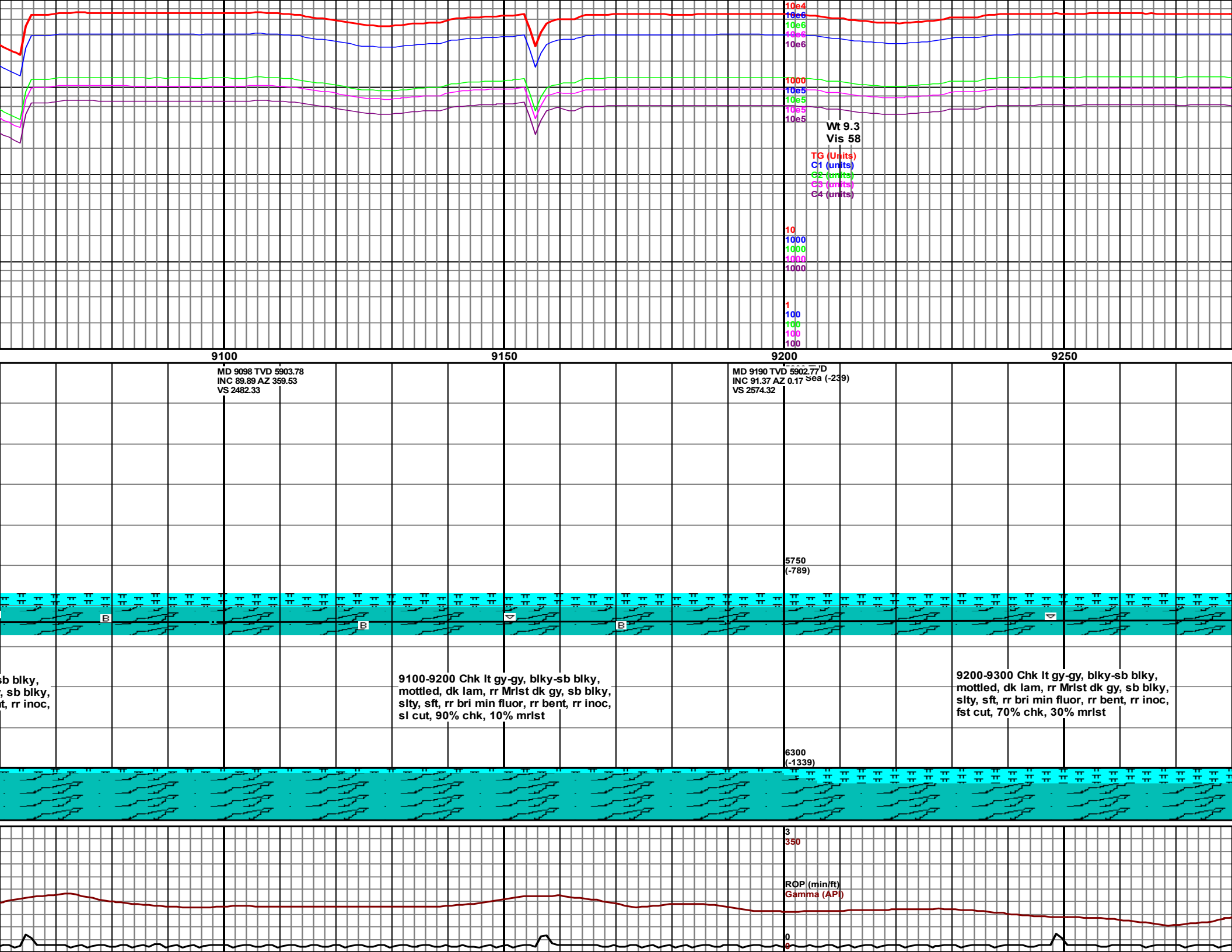

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
56.2% Methane
18.5% Ethane
15.4% Propane
9.9% Butane
8000
8050
8100
8150
MD 7986 TVD 5897.48
INC 89.05 AZ 0.62
VS 1370.5
Sub Sea (-239)
MD 8079 TVD 5898.48
INC 89.72 AZ 0.48
VS 1463.49
MD 8172 T
INC 90.39
VS 1556.49
5750
(-789)
B
-sb blky,
mrlst, occ
r inoc, rr
lst
8000-8100 Mrlst dk gy, sb blky, slty, sft, dk lam, occ Chk gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, sl cut, 60% mrlst, 40% chk
8100-8200 Mrlst dk gy, sb blky, slty, sft, dk lam, tr Chk dk gy, sb blky, dk lam, slty, grdg to mrlst, sl cut, 80% mrlst, 20% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

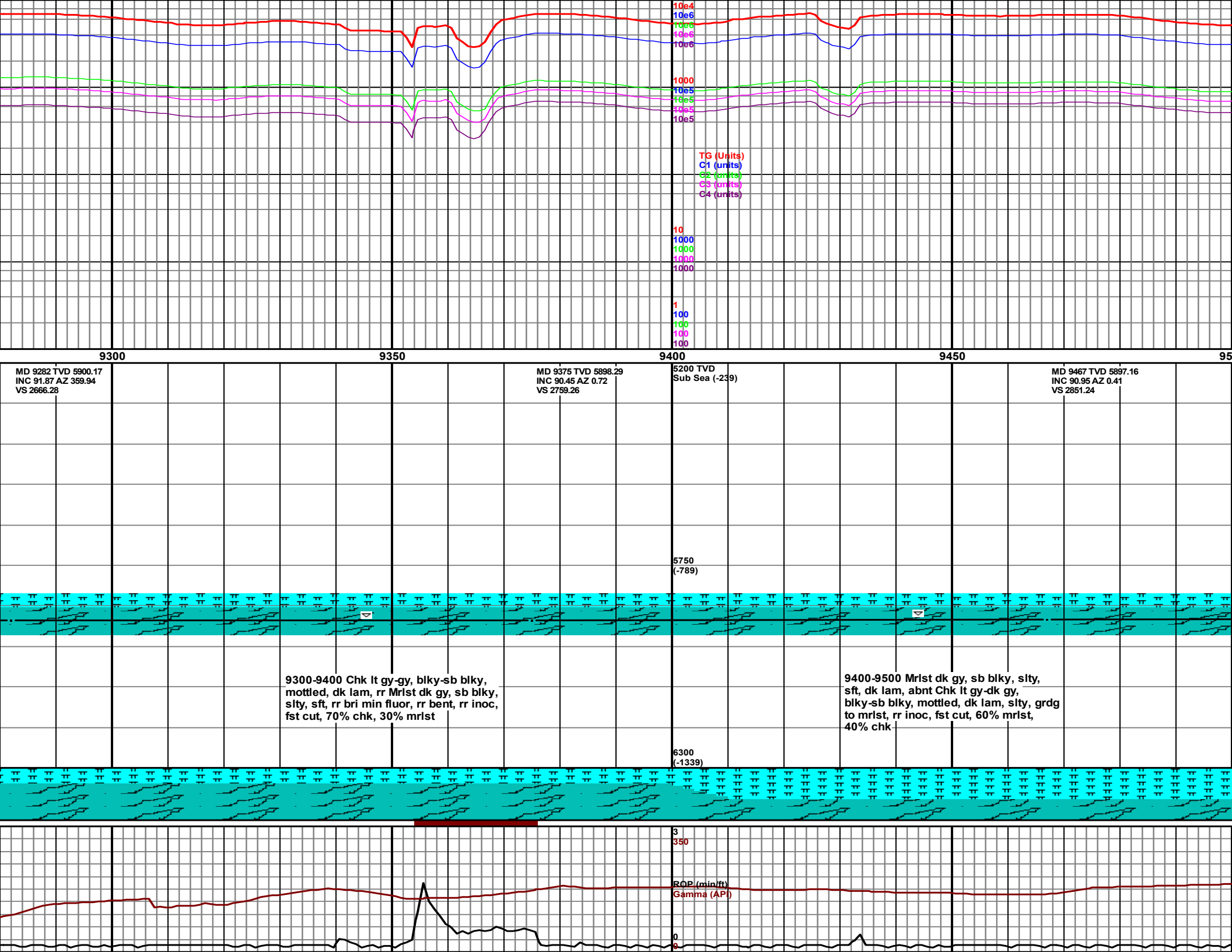

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
8200
8250
8300
8350
84
TVD 5898.39
AZ 0.08
5200 TVD
Sub Sea (-239)
MD 8265 TVD 5896.84
INC 91.51 AZ 0.25
VS 1649.47
MD 8357 TVD 5896.19
INC 89.3 AZ 1.23
VS 1741.46
5750
(-789)
8200-8300 Mrlst dk gy, sb blky, slty, sft, dk lam, tr Chk dk gy, sb blky, dk lam, slty, grdg to mrlst, sl cut, 80% mrlst, 20% chk
8300-8400 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, rr Chk dk gy, sb blky, dk lam, slty, grdg to mrlst, sl cut, 90% mrlst, 10% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

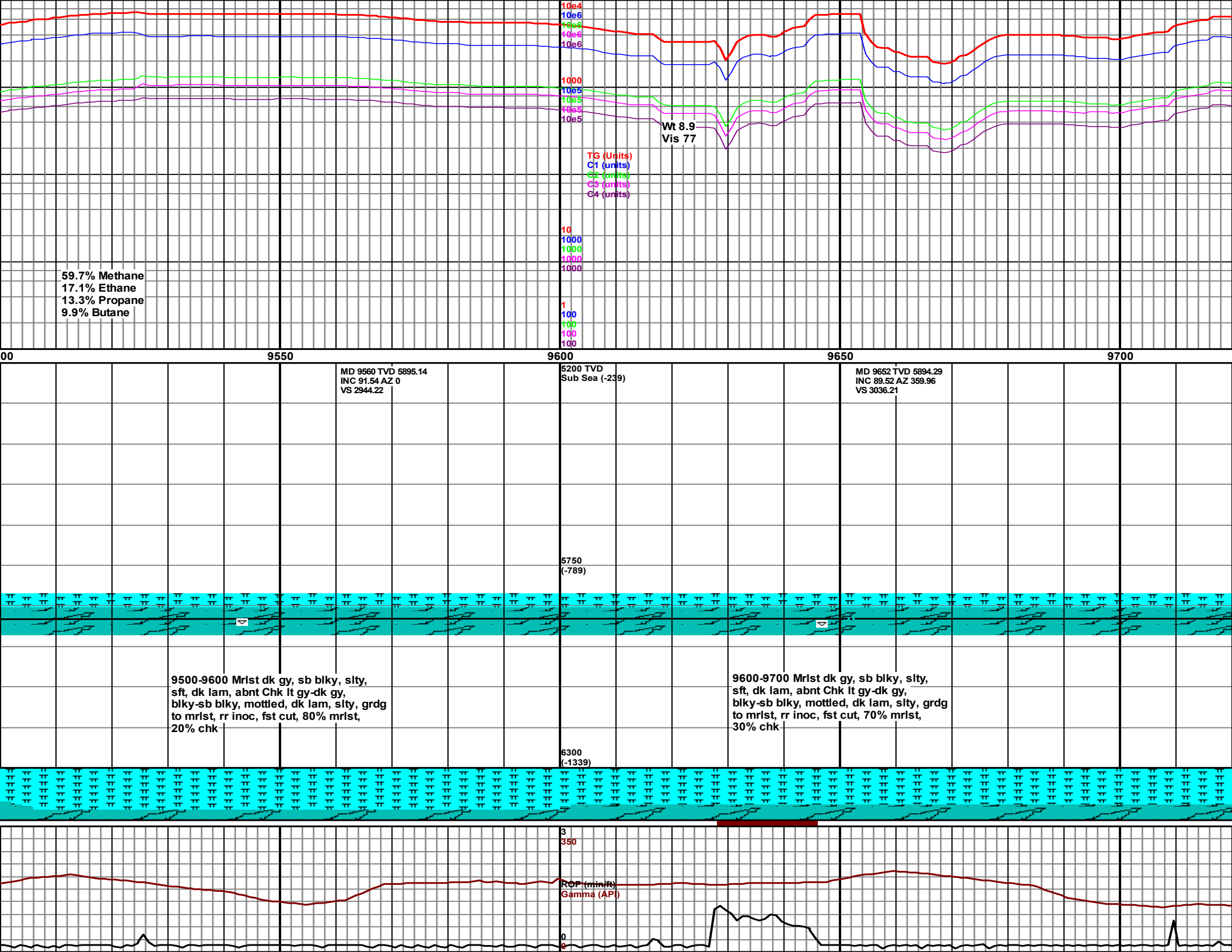

TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
60.0% Methane
18.1% Ethane
13.3% Propane
8.5% Butane
8450
8500
8550
8600
5200 TVD
Sub Sea (-239)
MD 8450 TVD 5897.33
INC 89.3 AZ 0.84
VS 1834.44
MD 8543 TVD 5898.3
INC 89.5 AZ 0.48
VS 1927.42
5750
(-789)
6300
(-1339)
8400-8500 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, rr Chk dk gy, sb blky, dk lam, slty, grdg to mrlst, sl cut, 90% mrlst, 10% chk
8500-8600 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, sl cut, 50% mrlst, 50% chk
ROP (min/ft)
Gamma (API)

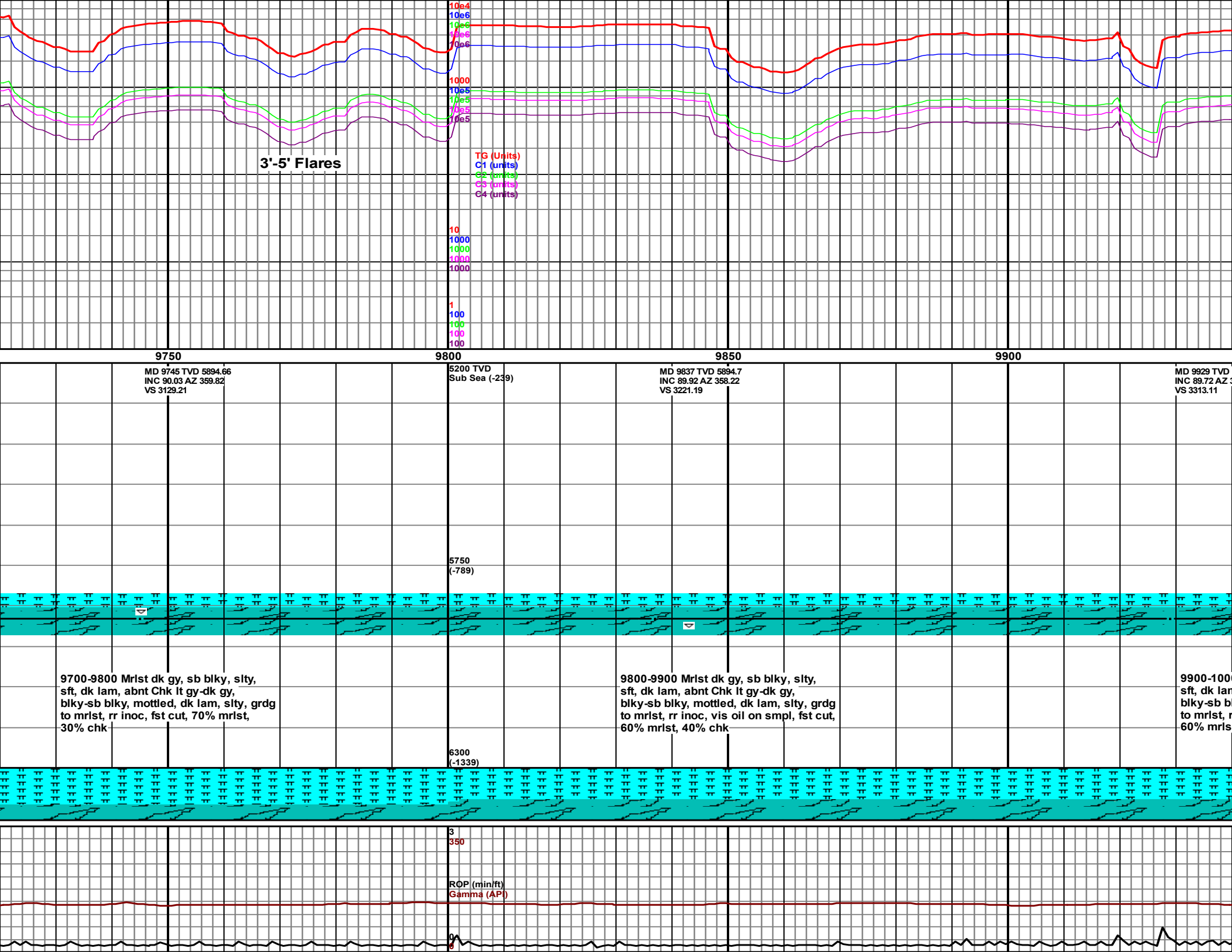

Wt 9.3
Vis 41
Wt 9.3
Vis 41
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10e4
10e6
10e6
10e6
1000
10e5
10e5
10e5
10
1000
1000
1000
1000
1
100
100
100
100
8650
8700
8750
8800
MD 8636 TVD 5898.3
INC 90.5 AZ 1.29
VS 2020.41
MD 8728 TVD 5898.95
INC 88.69 AZ 1.27
VS 2112.38
5200 TVD
Sub Sea (-239)
MD 8821 TVD 5900.85
INC 88.97 AZ 0.67
VS 2205.35
5750
(-789)
6300
(-1339)
8600-8700 Chk gy-lt gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst ip, occ Mrlst dk gy, sb blky, slty, sft, rr inoc, sl cut, 70% chk, 30% mrlst
8700-8800 Chk lt gy-gy, blky-sb blky, mottled, dk lam, slty, tr Mrlst dk gy, sb blky, slty, sft, rr inoc, sl cut, 70% chk, 30% mrlst
8800-890
mottled, d
blky, slty
30% mrls
3
350
ROP (min/ft)
Gamma (API)
0
0

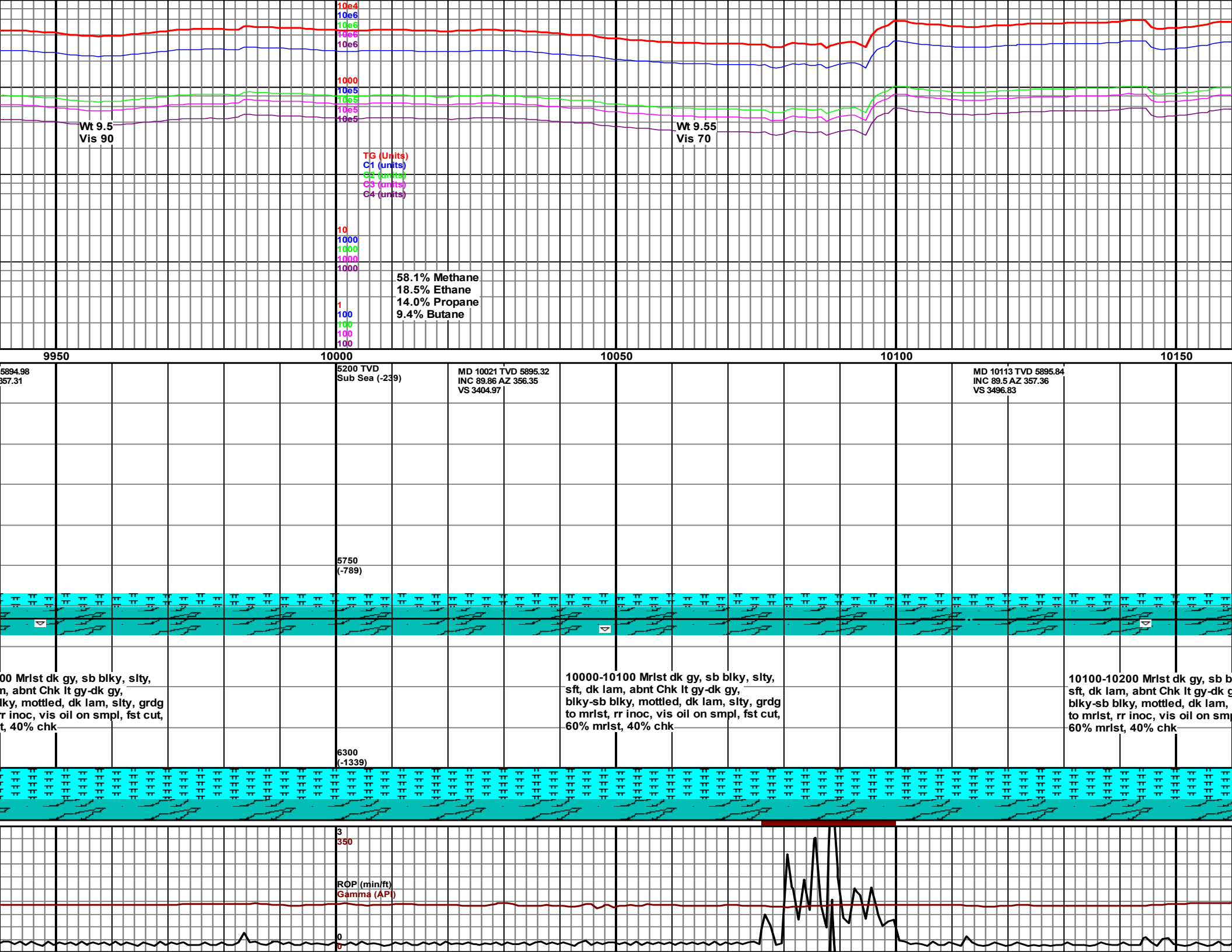

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e6
10e5
10e5
Wt 9.3
Vis 40
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
56.5% Methane
18.2% Ethane
15.1% Propane
10.1% Butane
1
100
100
100
100
8850
8900
8950
9000
9050
MD 8913 TVD 5902.31
INC 89.22 AZ 0.26
VS 2297.33
5200 TV
Sub Se
MD 9005 TVD 5903.31
INC 89.53 AZ 359.96
VS 2389.33
5750
(-789)
B
6300
(-1339)
0 Chk lt gy-gy, blky-sb blky,
dk lam, slty, tr Mrlst dk gy, sb
, sft, rr inoc, sl cut, 70% chk,
t
8900-9000 Chk lt gy-gy, blky-sb blky,
mottled, dk lam, tr Mrlst dk gy, sb blky,
slty, sft, rr bri min fluor, sl cut, 80%
chk, 20% mrlst
9000-9100 Chk lt gy-gy, blky-s
mottled, dk lam, rr Mrlst dk gy
slty, sft, rr bri min fluor, rr ben
sl cut, 90% chk, 10% mrlst
3
350
ROP (min/ft)
Gamma (API)
0
0

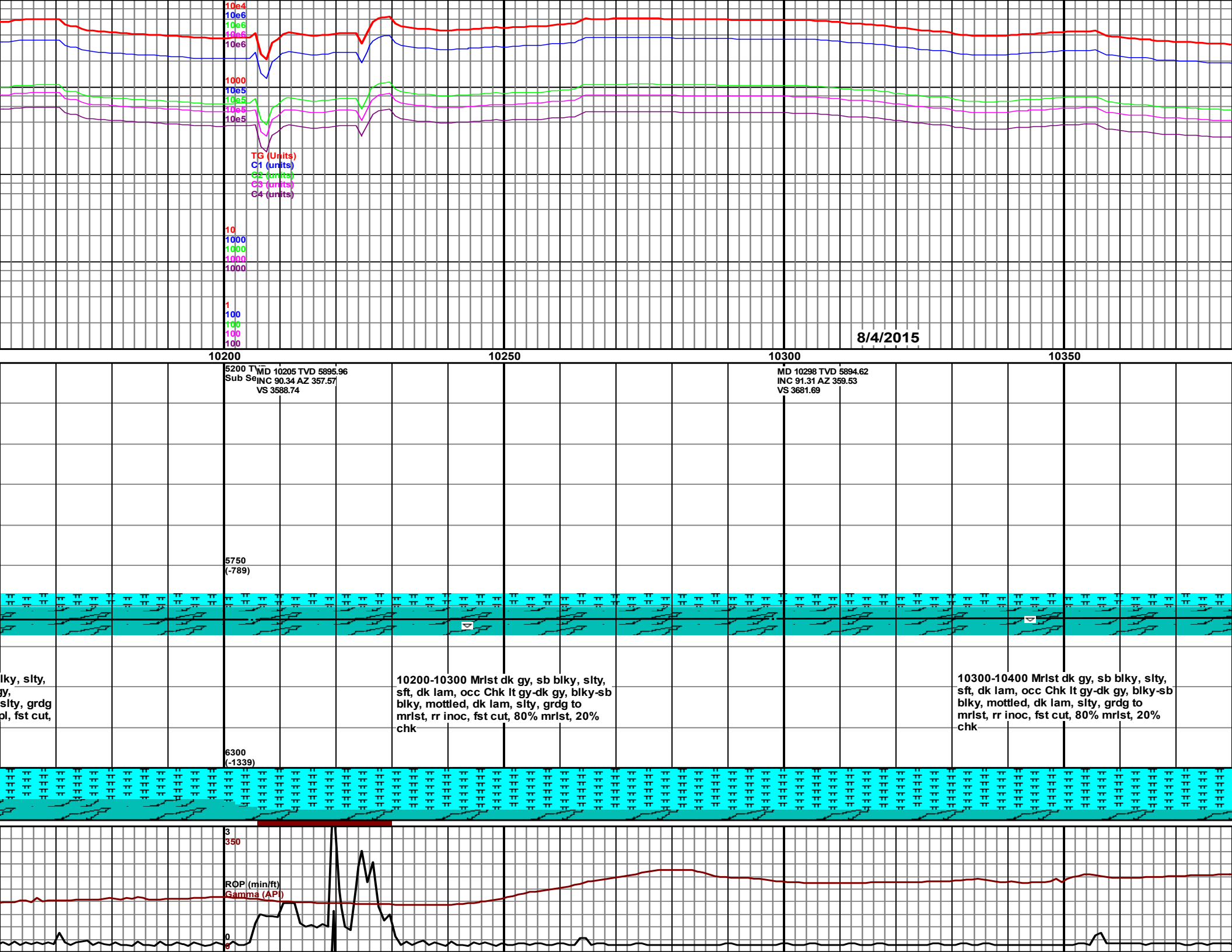

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
Wt 9.3
Vis 58
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
9100
9150
9200
9250
MD 9098 TVD 5903.78
INC 89.89 AZ 359.53
VS 2482.33
MD 9190 TVD 5902.77
INC 91.37 AZ 0.17
VS 2574.32
Sea (-239)
5750
(-789)
B
B
B
sb blky,
, sb blky,
t, rr inoc,
9100-9200 Chk lt gy-gy, blky-sb blky, mottled, dk lam, rr Mrlst dk gy, sb blky, slty, sft, rr bri min fluor, rr bent, rr inoc, sl cut, 90% chk, 10% mrlst
9200-9300 Chk lt gy-gy, blky-sb blky, mottled, dk lam, rr Mrlst dk gy, sb blky, slty, sft, rr bri min fluor, rr bent, rr inoc, fst cut, 70% chk, 30% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

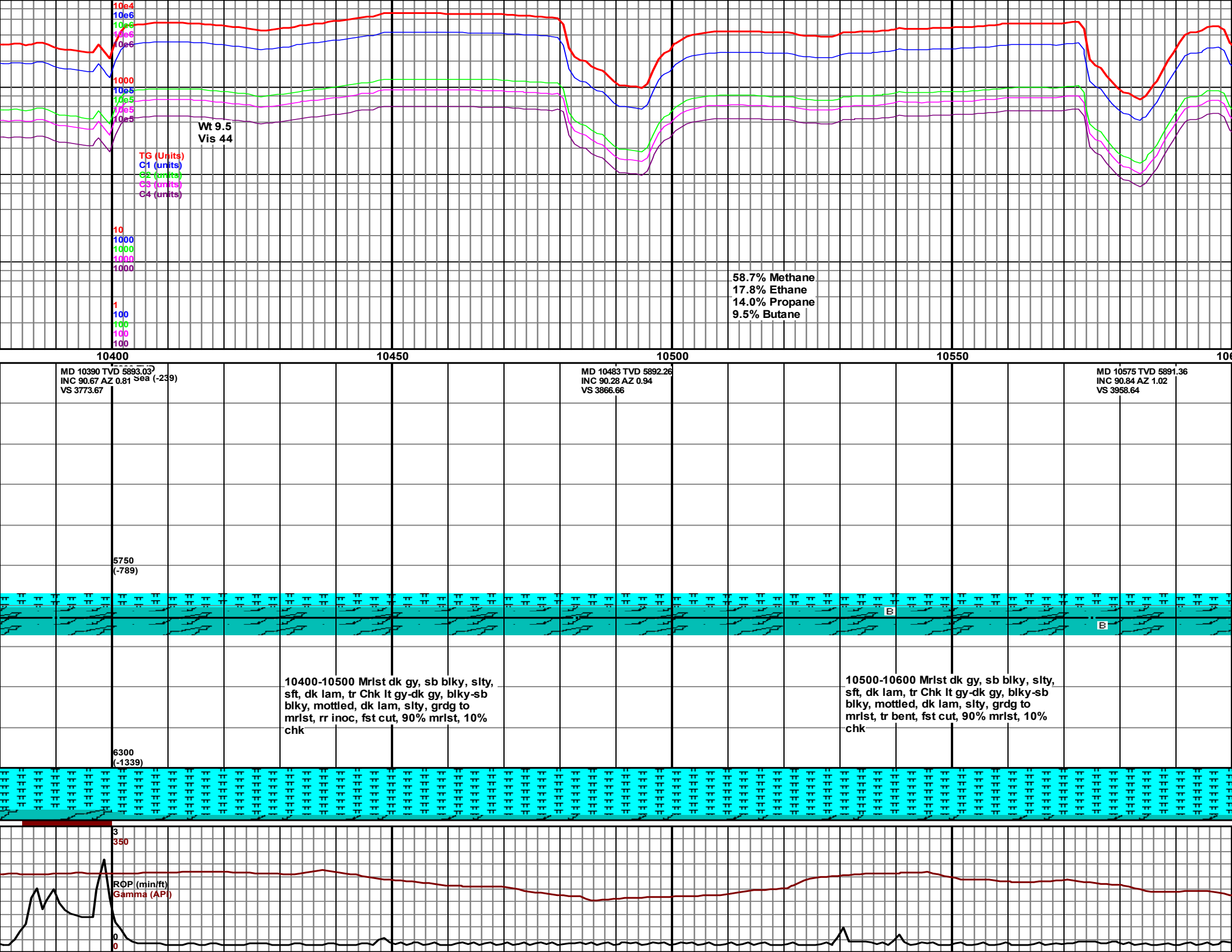

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
9300
9350
9400
9450
95
MD 9282 TVD 5900.17
INC 91.87 AZ 359.94
VS 2666.28
MD 9375 TVD 5898.29
INC 90.45 AZ 0.72
VS 2759.26
5200 TVD
Sub Sea (-239)
MD 9467 TVD 5897.16
INC 90.95 AZ 0.41
VS 2851.24
5750
(-789)
9300-9400 Chk lt gy-gy, blky-sb blky, mottled, dk lam, rr Mrlst dk gy, sb blky, slty, sft, rr bri min fluor, rr bent, rr inoc, fst cut, 70% chk, 30% mrlst
9400-9500 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, fst cut, 60% mrlst, 40% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

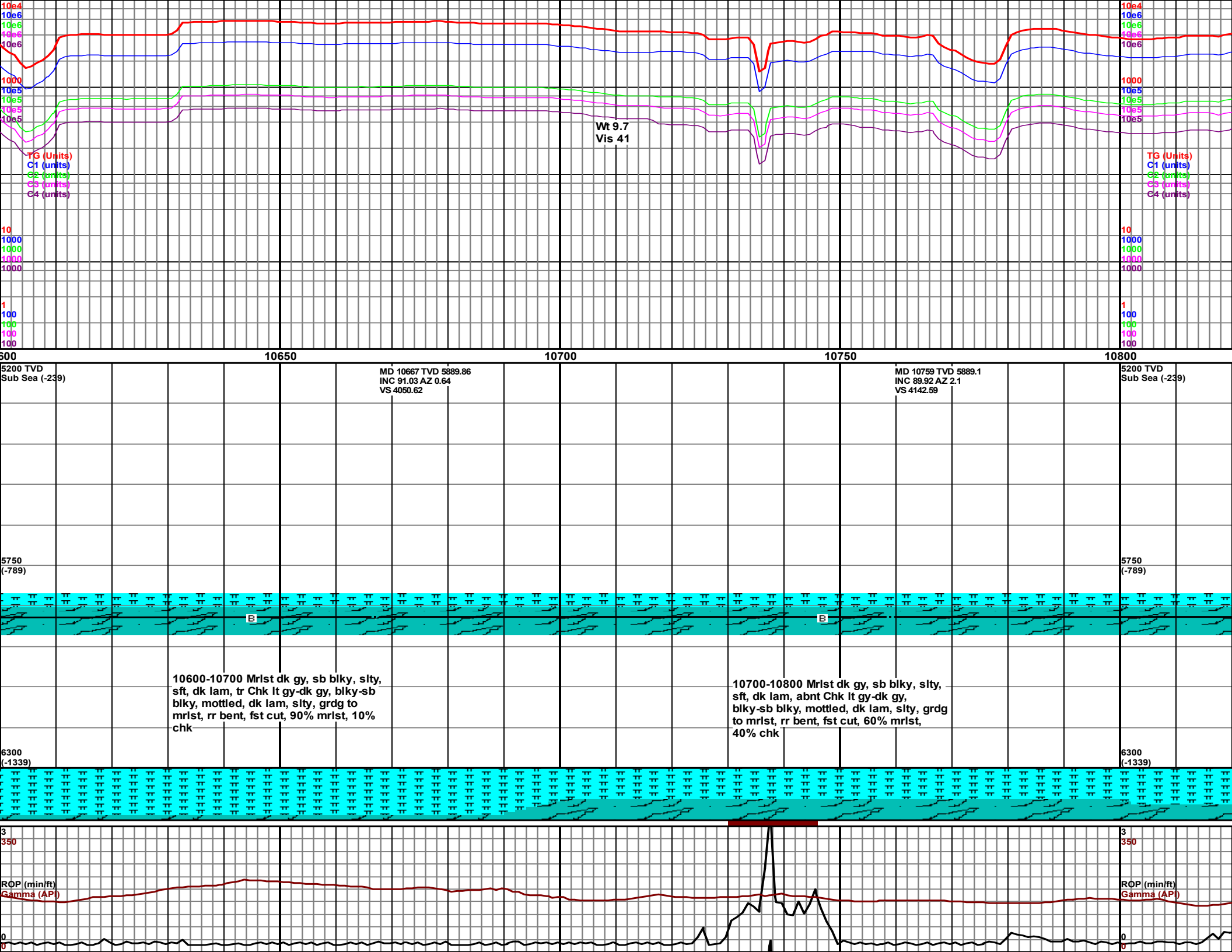

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
Wt 8.9
Vis 77
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
59.7% Methane
17.1% Ethane
13.3% Propane
9.9% Butane
00
9550
9600
9650
9700
MD 9560 TVD 5895.14
INC 91.54 AZ 0
VS 2944.22
5200 TVD
Sub Sea (-239)
MD 9652 TVD 5894.29
INC 89.52 AZ 359.96
VS 3036.21
5750
(-789)
9500-9600 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, fst cut, 80% mrlst, 20% chk
9600-9700 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, fst cut, 70% mrlst, 30% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

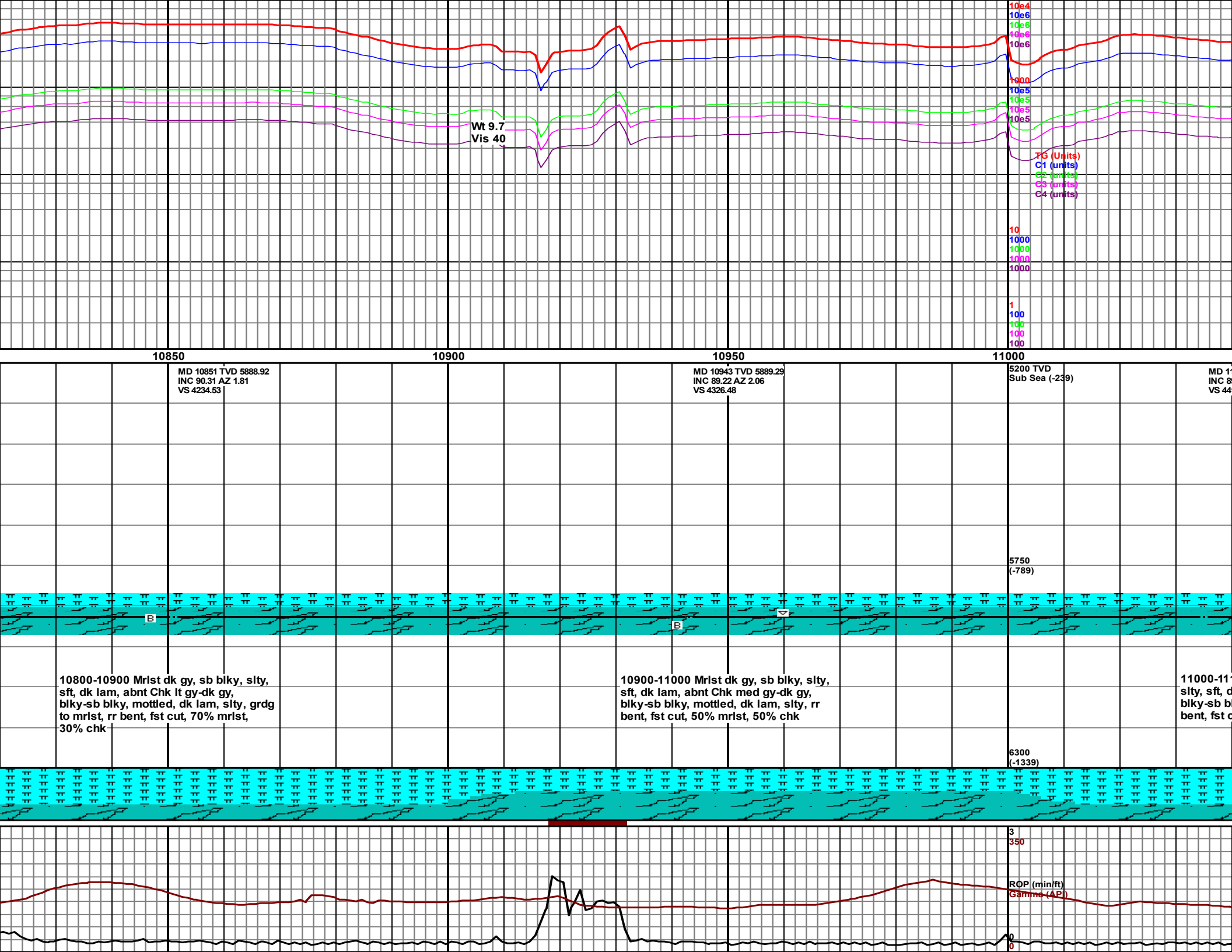

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
3'-5' Flares
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
9750
9800
9850
9900
MD 9745 TVD 5894.66
INC 90.03 AZ 359.82
VS 3129.21
5200 TVD
Sub Sea (-239)
MD 9837 TVD 5894.7
INC 89.92 AZ 358.22
VS 3221.19
MD 9929 TVD
INC 89.72 AZ
VS 3313.11
5750
(-789)
6300
(-1339)
9700-9800 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, fst cut, 70% mrlst, 30% chk
9800-9900 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, vis oil on smpl, fst cut, 60% mrlst, 40% chk
9900-100
sft, dk lam
blky-sb bl
to mrlst,
60% mrls
3
350
ROP (min/ft)
Gamma (API)
0
0

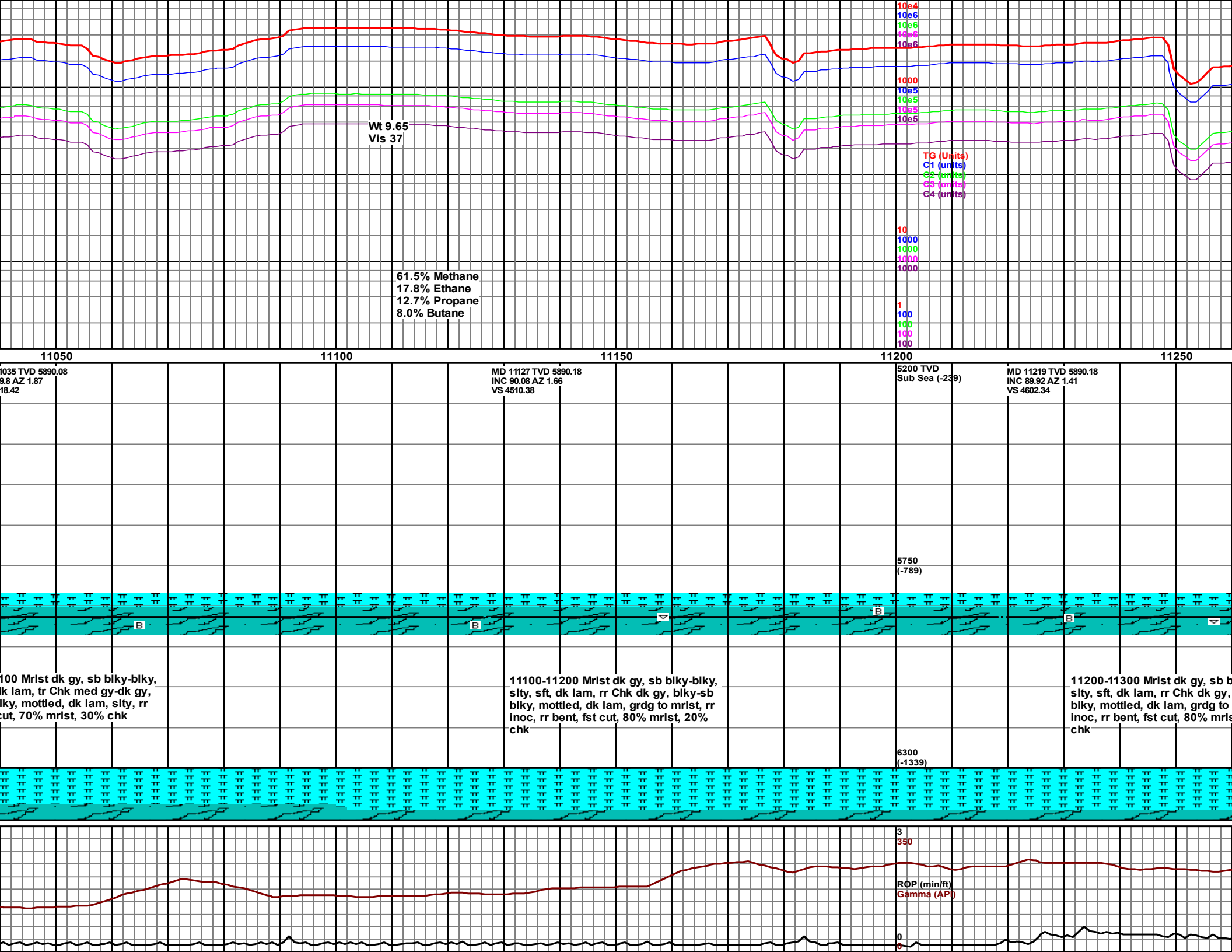

10e4
10e6
10e6
10e5
10e6
1000
10e5
10e5
10e5
10e5
Wt 9.5
Vis 90
Wt 9.55
Vis 70
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
58.1% Methane
18.5% Ethane
14.0% Propane
9.4% Butane
1
100
100
100
100
9950
10000
10050
10100
10150
5894.98
357.31
5200 TVD
Sub Sea (-239)
MD 10021 TVD 5895.32
INC 89.86 AZ 356.35
VS 3404.97
MD 10113 TVD 5895.84
INC 89.5 AZ 357.36
VS 3496.83
5750
(-789)
00 Mrlst dk gy, sb blky, slty,
n, abnt Chk lt gy-dk gy,
lky, mottled, dk lam, slty, grdg
r inoc, vis oil on smpl, fst cut,
t, 40% chk
10000-10100 Mrlst dk gy, sb blky, slty,
sft, dk lam, abnt Chk lt gy-dk gy,
blky-sb blky, mottled, dk lam, slty, grdg
to mrlst, rr inoc, vis oil on smpl, fst cut,
60% mrlst, 40% chk
10100-10200 Mrlst dk gy, sb b
sft, dk lam, abnt Chk lt gy-dk g
blky-sb blky, mottled, dk lam,
to mrlst, rr inoc, vis oil on sm
60% mrlst, 40% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

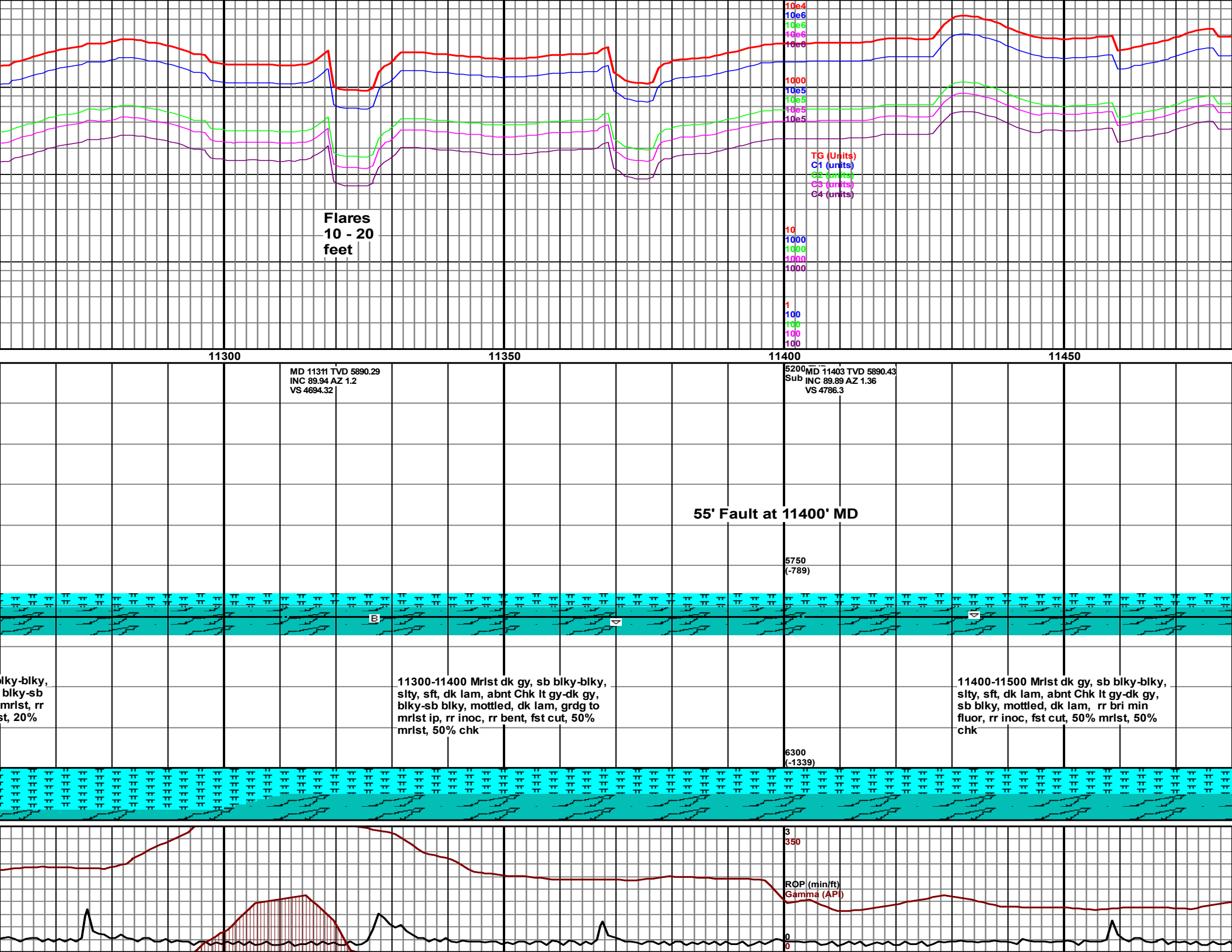

10e4
10e6
10e6
10e5
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
8/4/2015
10200
10250
10300
10350
5200 TVD
Sub Sea
MD 10205 TVD 5895.96
INC 90.34 AZ 357.57
VS 3588.74
MD 10298 TVD 5894.62
INC 91.31 AZ 359.53
VS 3681.69
5750
(-789)
lky, slty,
gy,
slty, grdg
pl, fst cut,
10200-10300 Mrlst dk gy, sb blky, slty, sft, dk lam, occ Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, fst cut, 80% mrlst, 20% chk
10300-10400 Mrlst dk gy, sb blky, slty, sft, dk lam, occ Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, fst cut, 80% mrlst, 20% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

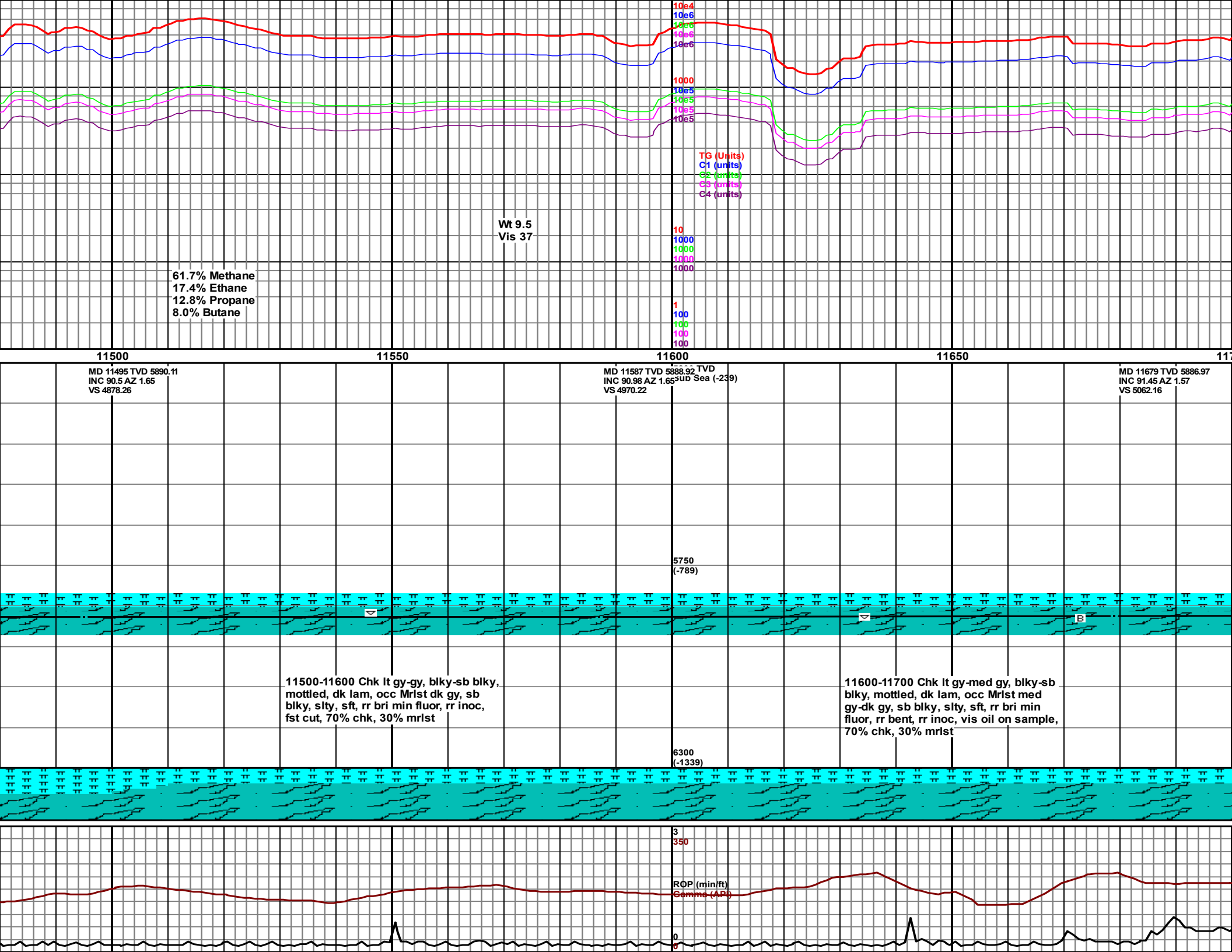

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
Wt 9.5
Vis 44
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
58.7% Methane
17.8% Ethane
14.0% Propane
9.5% Butane
10400
10450
10500
10550
MD 10390 TVD 5893.03
INC 90.67 AZ 0.81
VS 3773.67
Sea (-239)
MD 10483 TVD 5892.26
INC 90.28 AZ 0.94
VS 3866.66
MD 10575 TVD 5891.36
INC 90.84 AZ 1.02
VS 3958.64
5750
(-789)
B
B
10400-10500 Mrlst dk gy, sb blky, slty, sft, dk lam, tr Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr inoc, fst cut, 90% mrlst, 10% chk
10500-10600 Mrlst dk gy, sb blky, slty, sft, dk lam, tr Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, tr bent, fst cut, 90% mrlst, 10% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

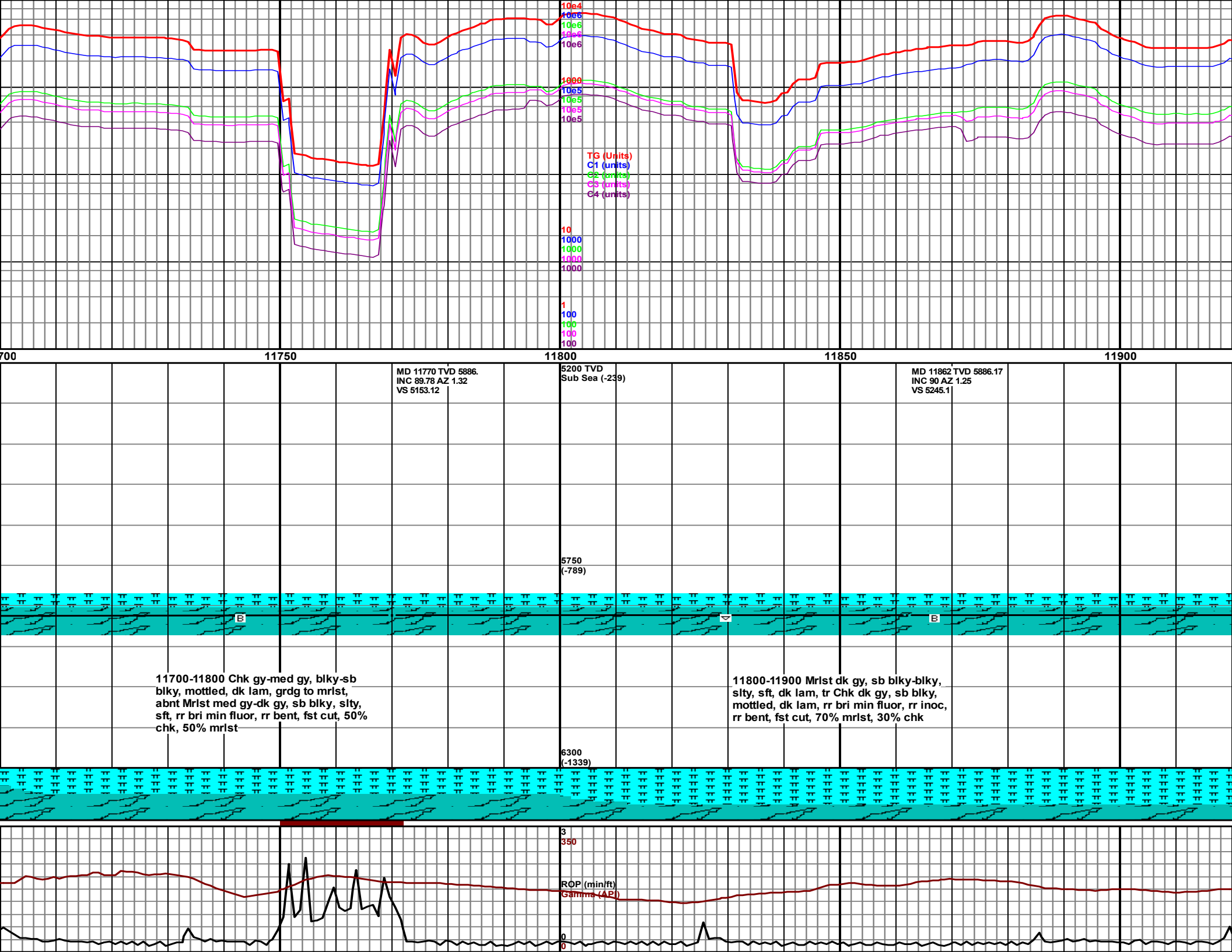

TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.7
Vis 41
10650
10700
10750
10800
5200 TVD
Sub Sea (-239)
MD 10667 TVD 5889.86
INC 91.03 AZ 0.64
VS 4050.62
MD 10759 TVD 5889.1
INC 89.92 AZ 2.1
VS 4142.59
5750
(-789)
6300
(-1339)
B
10600-10700 Mrlst dk gy, sb blky, slty, sft, dk lam, tr Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr bent, fst cut, 90% mrlst, 10% chk
10700-10800 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr bent, fst cut, 60% mrlst, 40% chk
ROP (min/ft)
Gamma (API)

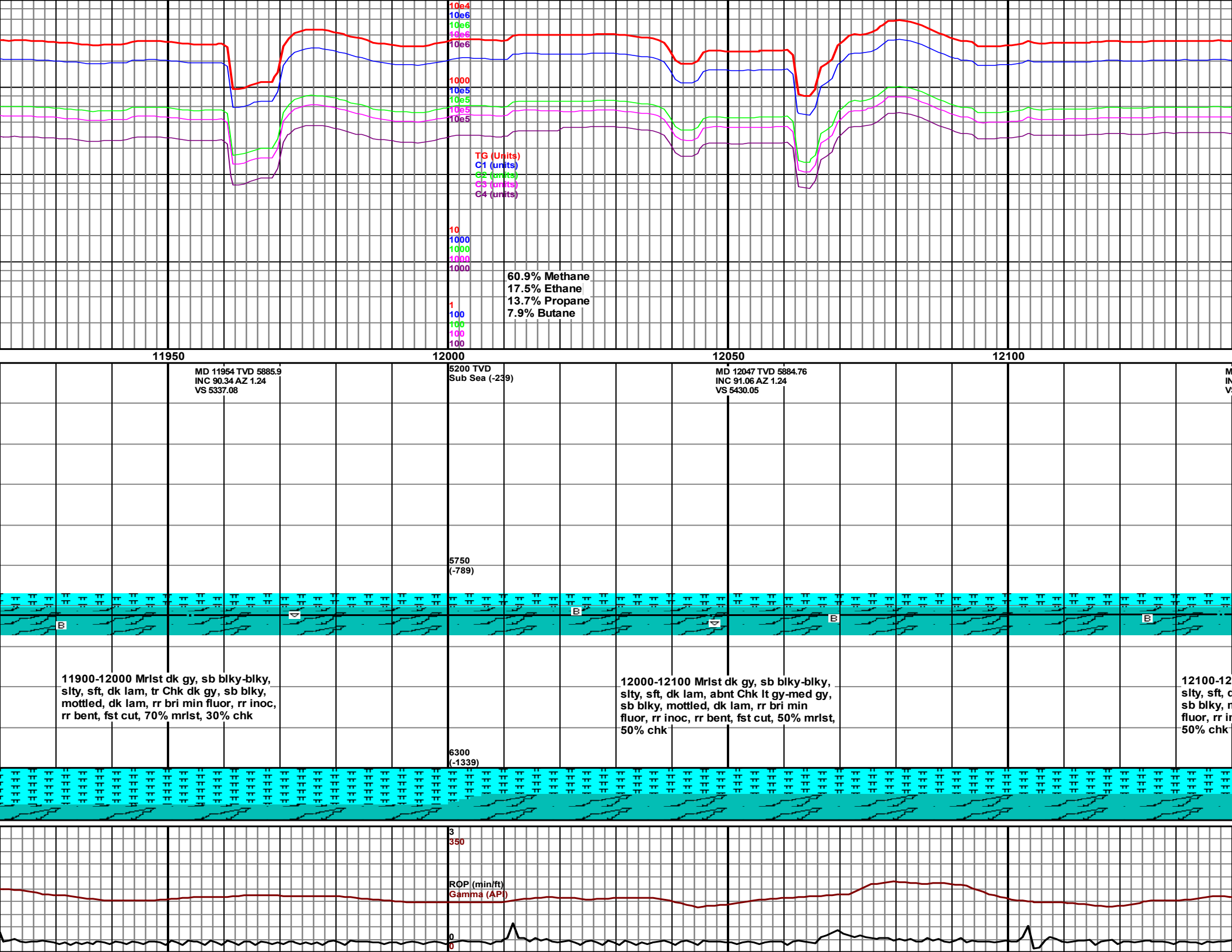

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
Wt 9.7
Vis 40
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
10850
10900
10950
11000
MD 10851 TVD 5888.92
INC 90.31 AZ 1.81
VS 4234.53
MD 10943 TVD 5889.29
INC 89.22 AZ 2.06
VS 4326.48
5200 TVD
Sub Sea (-239)
5750
(-789)
6300
(-1339)
10800-10900 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, slty, grdg to mrlst, rr bent, fst cut, 70% mrlst, 30% chk
10900-11000 Mrlst dk gy, sb blky, slty, sft, dk lam, abnt Chk med gy-dk gy, blky-sb blky, mottled, dk lam, slty, rr bent, fst cut, 50% mrlst, 50% chk
3
350
ROP (min/ft)
Gamma (API)
0
0

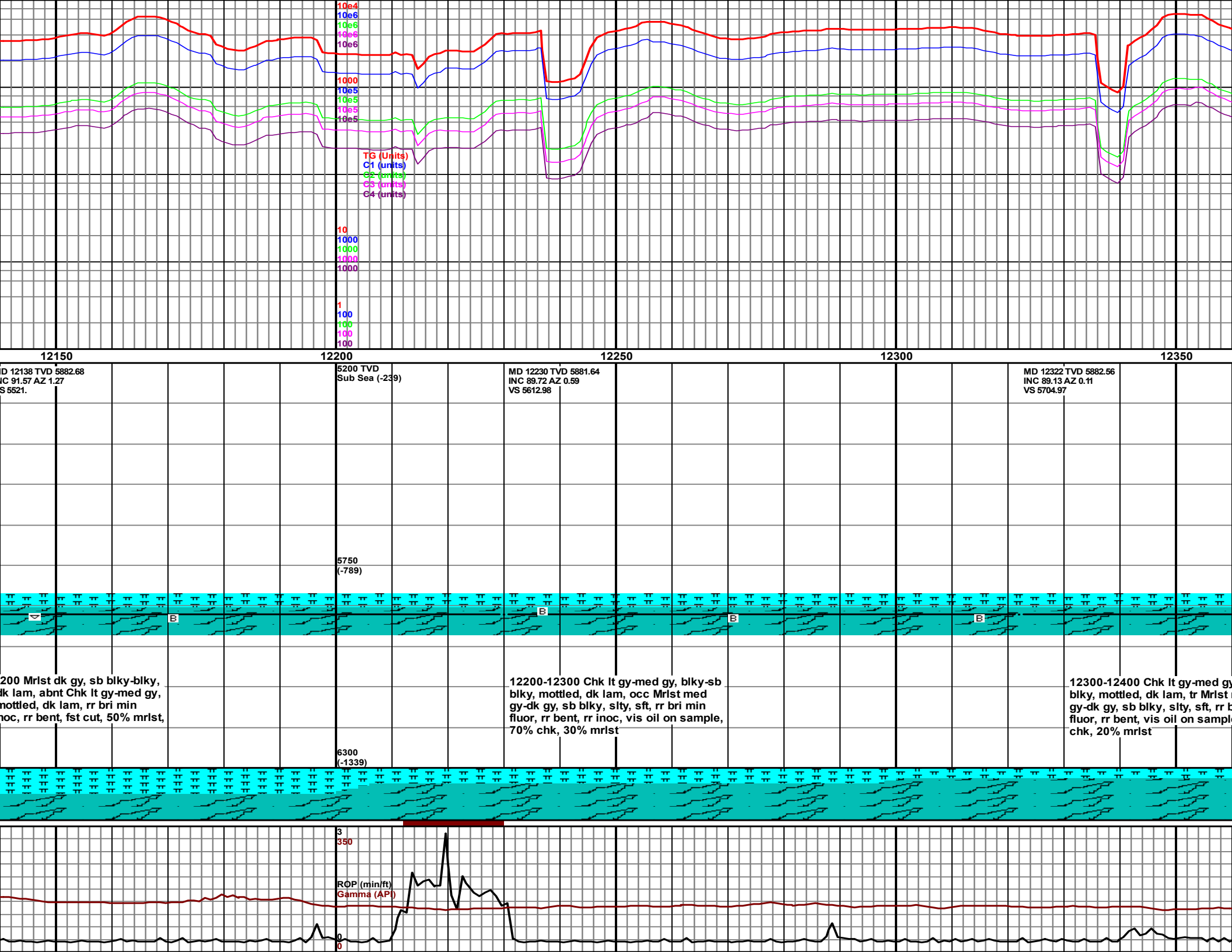

Wt 9.65
Vis 37
61.5% Methane
17.8% Ethane
12.7% Propane
8.0% Butane
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
11050
11100
11150
11200
11250
1035 TVD 5890.08
9.8 AZ 1.87
18.42
MD 11127 TVD 5890.18
INC 90.08 AZ 1.66
VS 4510.38
5200 TVD
Sub Sea (-239)
MD 11219 TVD 5890.18
INC 89.92 AZ 1.41
VS 4602.34
5750
(-789)
100 Mrlst dk gy, sb blky-blky, lk lam, tr Chk med gy-dk gy, lky, mottled, dk lam, slty, rr cut, 70% mrlst, 30% chk
11100-11200 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, rr Chk dk gy, blky-sb blky, mottled, dk lam, grdg to mrlst, rr inoc, rr bent, fst cut, 80% mrlst, 20% chk
11200-11300 Mrlst dk gy, sb b slty, sft, dk lam, rr Chk dk gy, blky, mottled, dk lam, grdg to inoc, rr bent, fst cut, 80% mrls chk
6300
(-1339)
ROP (min/ft)
Gamma (API)

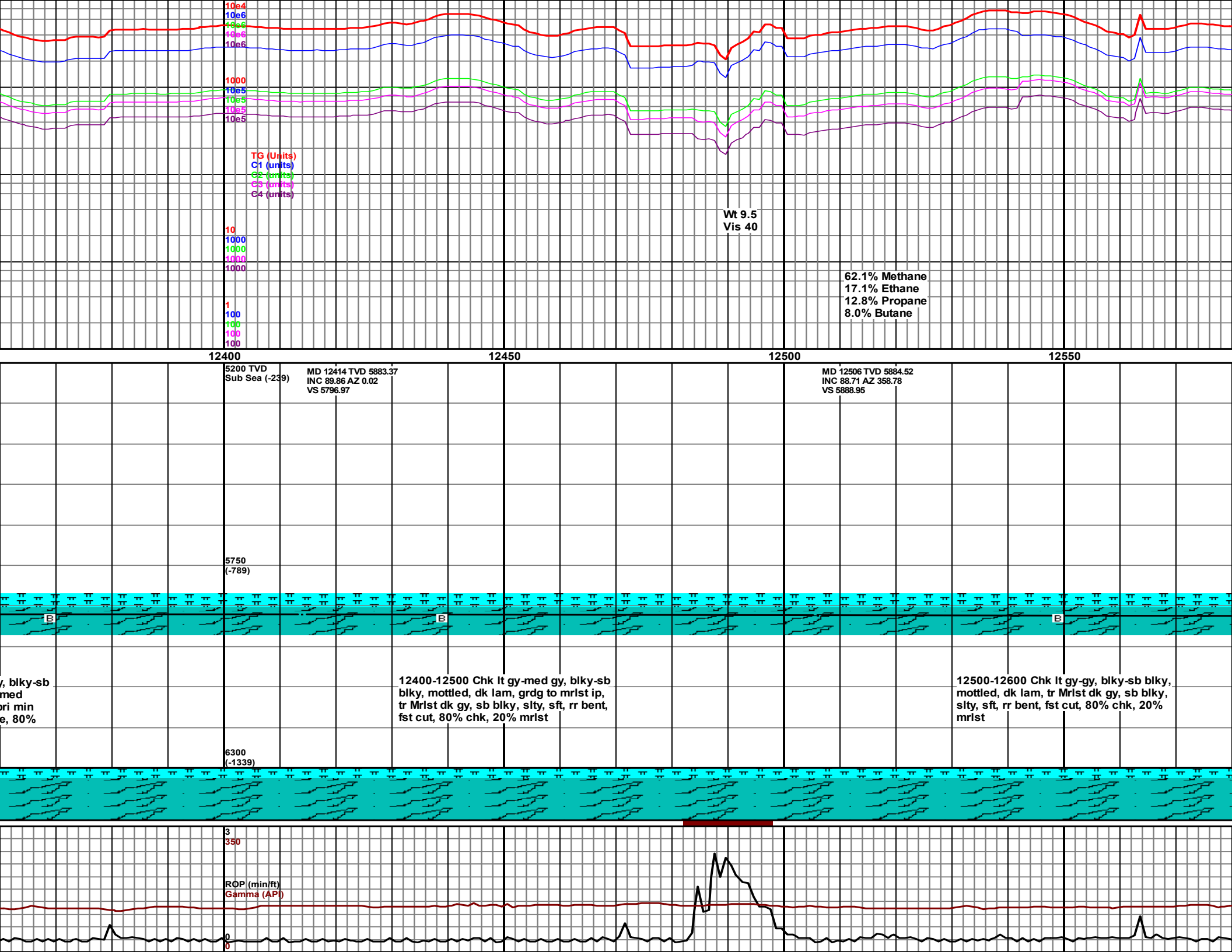

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Flares
10 - 20
feet
10
1000
1000
1000
1000
1
100
100
100
100
11300
11350
11400
11450
MD 11311 TVD 5890.29
INC 89.94 AZ 1.2
VS 4694.32
5200
Sub
MD 11403 TVD 5890.43
INC 89.89 AZ 1.36
VS 4786.3
55' Fault at 11400' MD
5750
(-789)
B
lky-blky,
blky-sb
mrlst, rr
st, 20%
11300-11400 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, blky-sb blky, mottled, dk lam, grdg to mrlst ip, rr inoc, rr bent, fst cut, 50% mrlst, 50% chk
11400-11500 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, abnt Chk lt gy-dk gy, sb blky, mottled, dk lam, rr bri min fluor, rr inoc, fst cut, 50% mrlst, 50% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

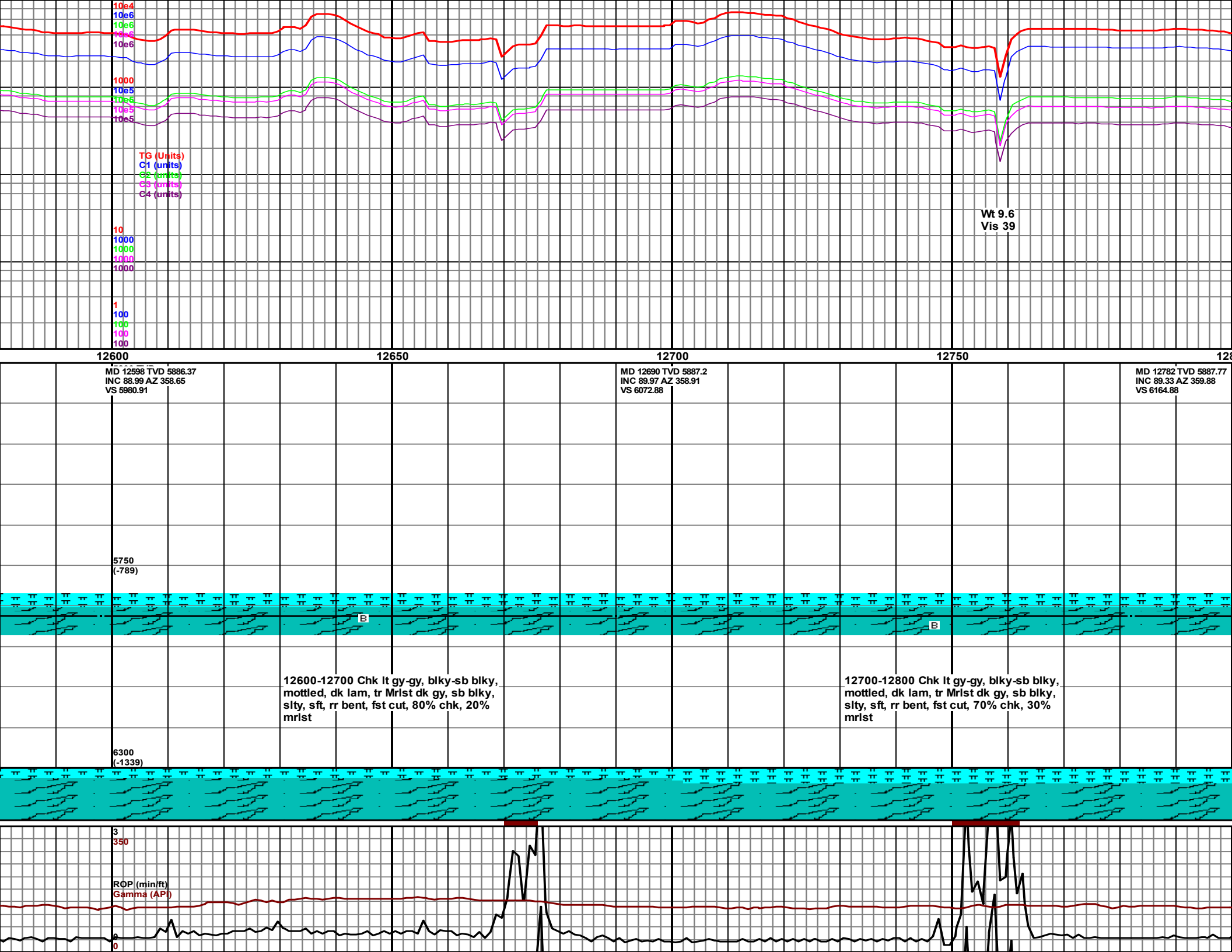

10e4
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.5
Vis 37
10
1000
1000
1000
1000
61.7% Methane
17.4% Ethane
12.8% Propane
8.0% Butane
1
100
100
100
100
11500
11550
11600
11650
MD 11495 TVD 5890.11
INC 90.5 AZ 1.65
VS 4878.26
MD 11587 TVD 5888.92
INC 90.98 AZ 1.65
VS 4970.22
MD 11679 TVD 5886.97
INC 91.45 AZ 1.57
VS 5062.16
5750
(-789)
6300
(-1339)
11500-11600 Chk lt gy-gy, blky-sb blky, mottled, dk lam, occ Mrlst dk gy, sb blky, slty, sft, rr bri min fluor, rr inoc, fst cut, 70% chk, 30% mrlst
11600-11700 Chk lt gy-med gy, blky-sb blky, mottled, dk lam, occ Mrlst med gy-dk gy, sb blky, slty, sft, rr bri min fluor, rr bent, rr inoc, vis oil on sample, 70% chk, 30% mrlst
3
350
ROP (min/ft)
Gamma (API)
0
0

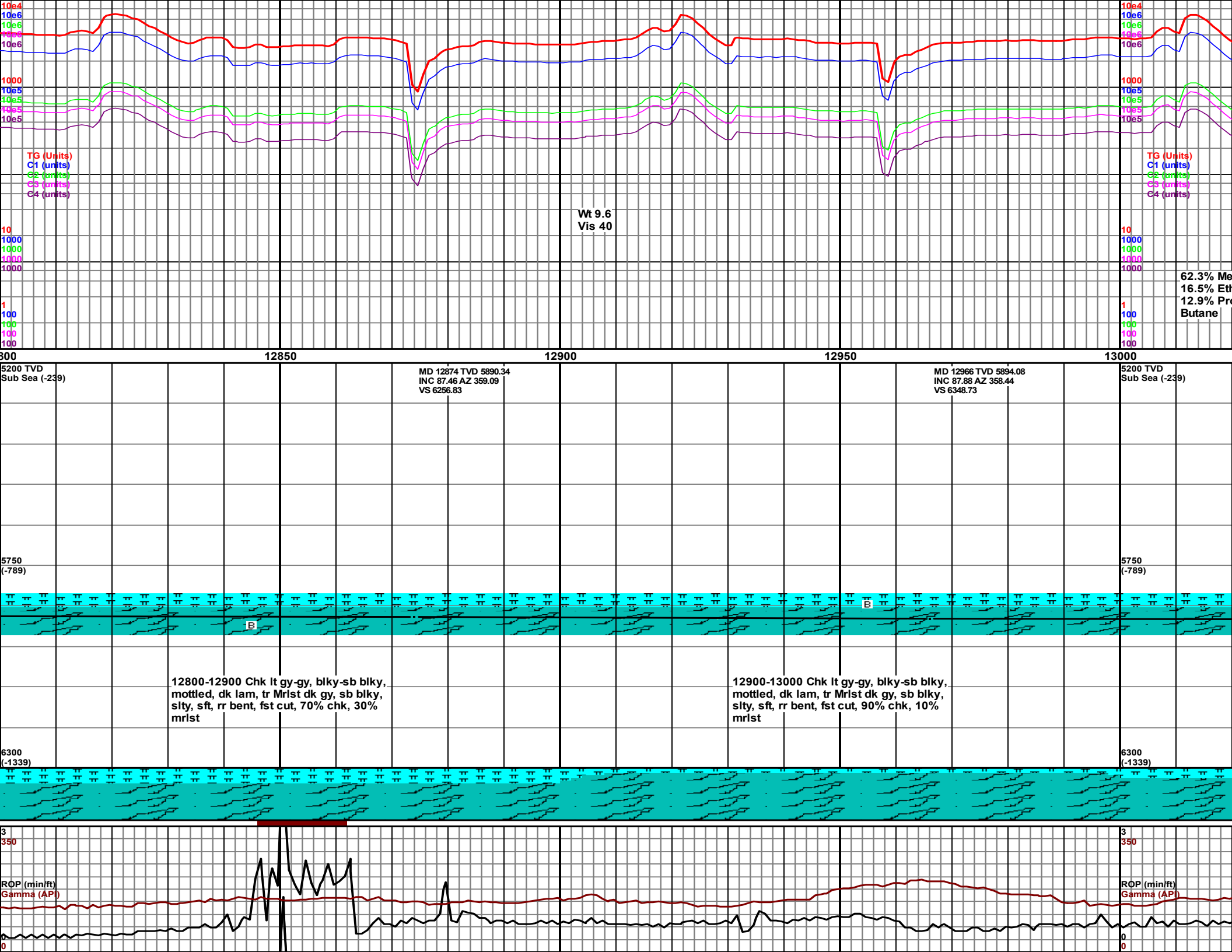

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
700
11750
11800
11850
11900
MD 11770 TVD 5886.
INC 89.78 AZ 1.32
VS 5153.12
5200 TVD
Sub Sea (-239)
MD 11862 TVD 5886.17
INC 90 AZ 1.25
VS 5245.1
5750
(-789)
B
B
11700-11800 Chk gy-med gy, blky-sb blky, mottled, dk lam, grdg to mrlst, abnt Mrlst med gy-dk gy, sb blky, slty, sft, rr bri min fluor, rr bent, fst cut, 50% chk, 50% mrlst
11800-11900 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, tr Chk dk gy, sb blky, mottled, dk lam, rr bri min fluor, rr inoc, rr bent, fst cut, 70% mrlst, 30% chk
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

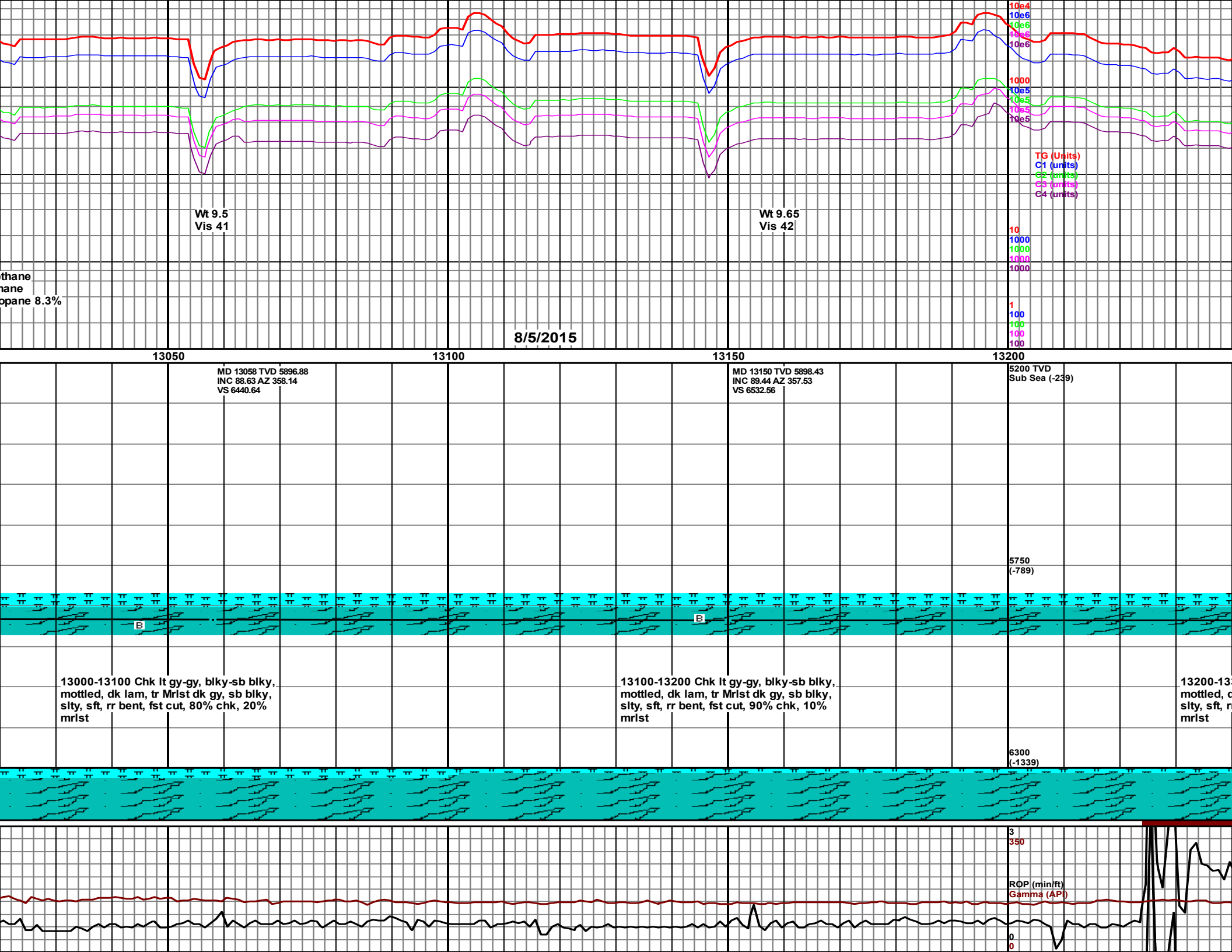

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
60.9% Methane
17.5% Ethane
13.7% Propane
7.9% Butane
11950
12000
12050
12100
MD 11954 TVD 5885.9
INC 90.34 AZ 1.24
VS 5337.08
5200 TVD
Sub Sea (-239)
MD 12047 TVD 5884.76
INC 91.06 AZ 1.24
VS 5430.05
5750
(-789)
6300
(-1339)
11900-12000 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, tr Chk dk gy, sb blky, mottled, dk lam, rr bri min fluor, rr inoc, rr bent, fst cut, 70% mrlst, 30% chk
12000-12100 Mrlst dk gy, sb blky-blky, slty, sft, dk lam, abnt Chk lt gy-med gy, sb blky, mottled, dk lam, rr bri min fluor, rr inoc, rr bent, fst cut, 50% mrlst, 50% chk
3
350
ROP (min/ft)
Gamma (API)
0
0

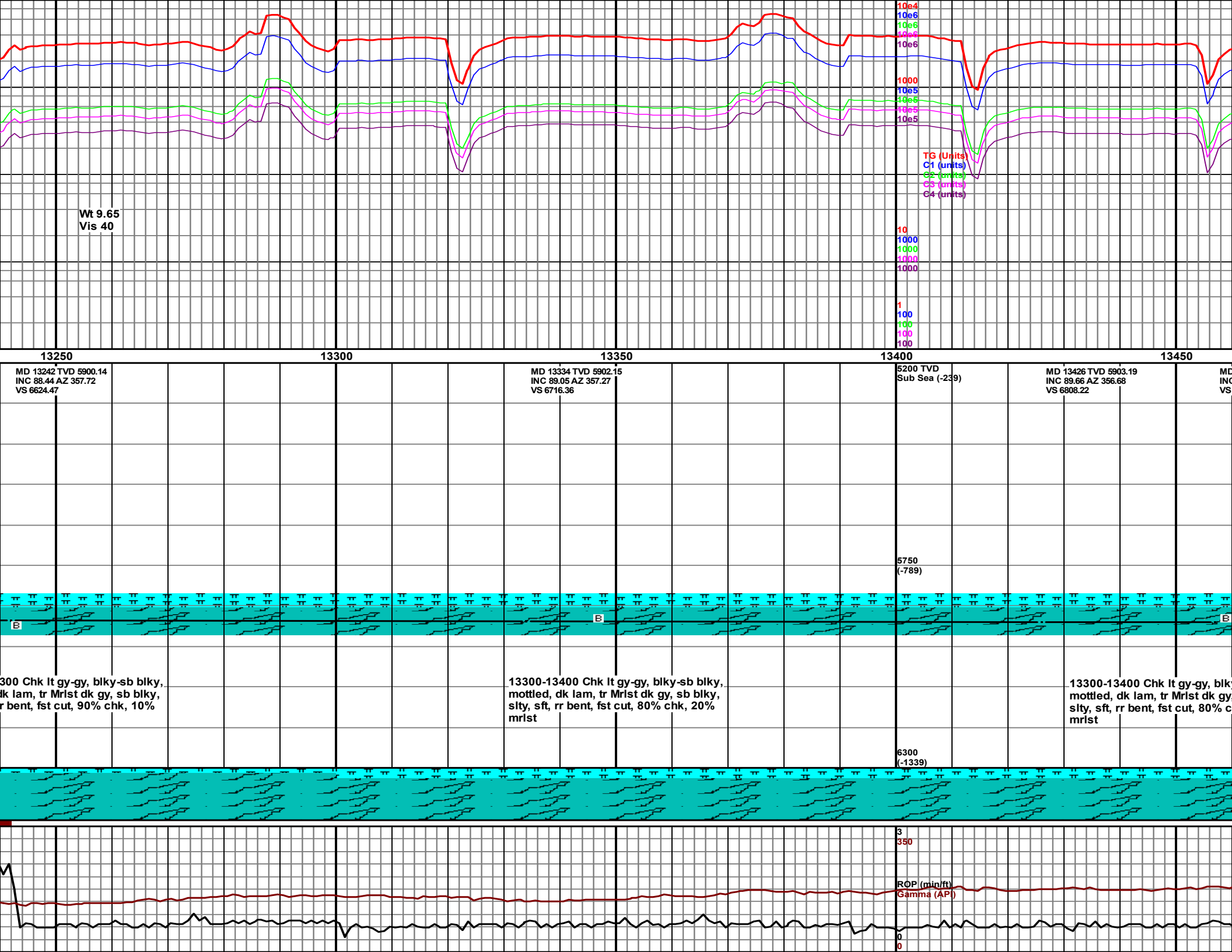

10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
12150
12200
12250
12300
12350
ID 12138 TVD 5882.68
NC 91.57 AZ 1.27
S 5521.
5200 TVD
Sub Sea (-239)
MD 12230 TVD 5881.64
INC 89.72 AZ 0.59
VS 5612.98
MD 12322 TVD 5882.56
INC 89.13 AZ 0.11
VS 5704.97
5750
(-789)
B
B
B
B
200 Mrlst dk gy, sb blky-blky,
dk lam, abnt Chk lt gy-med gy,
mottled, dk lam, rr bri min
noc, rr bent, fst cut, 50% mrlst,
12200-12300 Chk lt gy-med gy, blky-sb
blky, mottled, dk lam, occ Mrlst med
gy-dk gy, sb blky, slty, sft, rr bri min
fluor, rr bent, rr inoc, vis oil on sample,
70% chk, 30% mrlst
12300-12400 Chk lt gy-med gy
blky, mottled, dk lam, tr Mrlst
gy-dk gy, sb blky, slty, sft, rr b
fluor, rr bent, vis oil on sample
chk, 20% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0

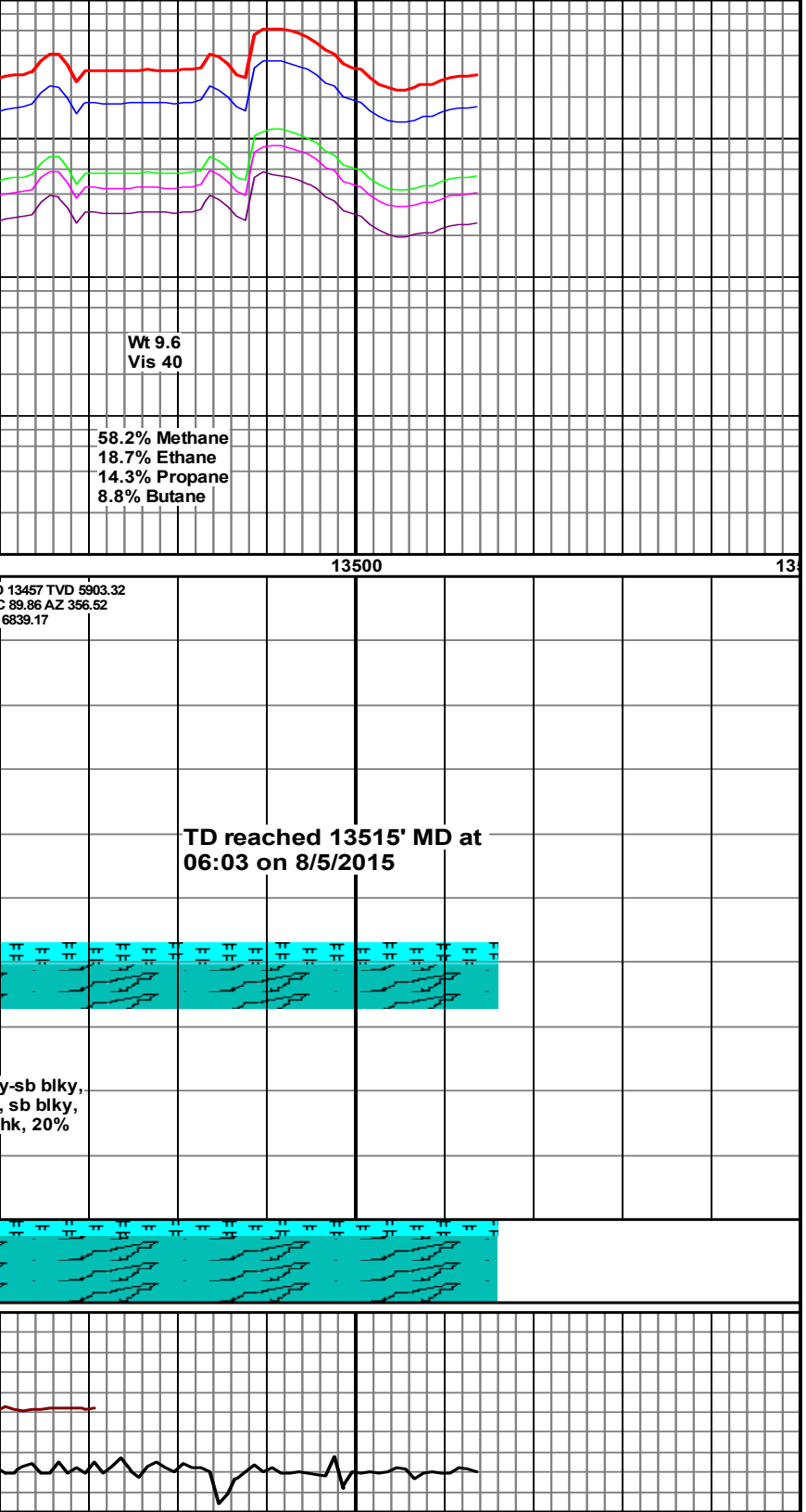

10e4
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
10
1000
1000
1000
1000
1
100
100
100
100
Wt 9.5
Vis 40
62.1% Methane
17.1% Ethane
12.8% Propane
8.0% Butane
12400
12450
12500
12550
5200 TVD
Sub Sea (-239)
MD 12414 TVD 5883.37
INC 89.86 AZ 0.02
VS 5796.97
MD 12506 TVD 5884.52
INC 88.71 AZ 358.78
VS 5888.95
5750
(-789)
6300
(-1339)
B
B
B
y, blky-sb
med
ori min
e, 80%
12400-12500 Chk lt gy-med gy, blky-sb blky, mottled, dk lam, grdg to mrlst ip, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 80% chk, 20% mrlst
12500-12600 Chk lt gy-gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 80% chk, 20% mrlst
3
350
ROP (min/ft)
Gamma (API)
0
0


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.6
Vis 39
10
1000
1000
1000
1000
1
100
100
100
100
12600
12650
12700
12750
MD 12598 TVD 5886.37
INC 88.99 AZ 358.65
VS 5980.91
MD 12690 TVD 5887.2
INC 89.97 AZ 358.91
VS 6072.88
MD 12782 TVD 5887.77
INC 89.33 AZ 359.88
VS 6164.88
5750
(-789)
B
B
12600-12700 Chk lt gy-gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 80% chk, 20% mrlst
12700-12800 Chk lt gy-gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 70% chk, 30% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0


TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.6
Vis 40
62.3% Me
16.5% Eth
12.9% Pro
Butane
12850
12900
12950
13000
5200 TVD
Sub Sea (-239)
MD 12874 TVD 5890.34
INC 87.46 AZ 359.09
VS 6256.83
MD 12966 TVD 5894.08
INC 87.88 AZ 358.44
VS 6348.73
5750
(-789)
6300
(-1339)
12800-12900 Chk lt gy-gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 70% chk, 30% mrlst
12900-13000 Chk lt gy-gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 90% chk, 10% mrlst
ROP (min/ft)
Gamma (API)


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.5
Vis 41
Wt 9.65
Vis 42
10
1000
1000
1000
1000
1
100
100
100
100
ethane
hane
opane 8.3%
8/5/2015
13050
13100
13150
13200
MD 13058 TVD 5896.88
INC 88.63 AZ 358.14
VS 6440.64
MD 13150 TVD 5898.43
INC 89.44 AZ 357.53
VS 6532.56
5200 TVD
Sub Sea (-239)
5750
(-789)
B
B
13000-13100 Chk lt gy-gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 80% chk, 20% mrlst
13100-13200 Chk lt gy-gy, blky-sb blky, mottled, dk lam, tr Mrlst dk gy, sb blky, slty, sft, rr bent, fst cut, 90% chk, 10% mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0


10e4
10e6
10e6
10e6
10e6
1000
10e5
10e5
10e5
10e5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
Wt 9.65
Vis 40
10
1000
1000
1000
1000
1
100
100
100
100
13250
13300
13350
13400
13450
MD 13242 TVD 5900.14
INC 88.44 AZ 357.72
VS 6624.47
MD 13334 TVD 5902.15
INC 89.05 AZ 357.27
VS 6716.36
5200 TVD
Sub Sea (-239)
MD 13426 TVD 5903.19
INC 89.66 AZ 356.68
VS 6808.22
5750
(-789)
B
B
B
300 Chk lt gy-gy, blky-sb blky,
dk lam, tr Mrlst dk gy, sb blky,
r bent, fst cut, 90% chk, 10%
13300-13400 Chk lt gy-gy, blky-sb blky,
mottled, dk lam, tr Mrlst dk gy, sb blky,
slty, sft, rr bent, fst cut, 80% chk, 20%
mrlst
13300-13400 Chk lt gy-gy, blk
mottled, dk lam, tr Mrlst dk gy
slty, sft, rr bent, fst cut, 80% c
mrlst
6300
(-1339)
3
350
ROP (min/ft)
Gamma (API)
0
0


Wt 9.6
Vis 40
58.2% Methane
18.7% Ethane
14.3% Propane
8.8% Butane
13500
13457 TVD 5903.32
C 89.86 AZ 356.52
6839.17
TD reached 13515' MD at
06:03 on 8/5/2015
y-sb blky,
, sb blky,
hk, 20%