eog resources
600 Seventeenth Street
Suite 1000N
Denver, CO 80202
(303) 572-9000

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

Well Name:	Garden Creek 11-18H - Horizontal Well		
Location:	Hereford Ranch		
License Number:	API# 05-123-31331	**Region:**	D-J Basin
Spud Date:	Oct. 22, 2010	**Drilling Completed:**	November. ?, 2010
Surface Coordinates:	SESE, 600' FSL & 600' FEL, Section 18, Township 11 North - Range 62 West, Weld County, Colorado		
Bottom Hole Coordinates:	NWNW, xx' FNL & xx' FWL, Section 18, Township 11 North - Range 62 West, Weld County, Colorado		
Ground Elevation (ft):	5,234'	**K.B. Elevation (ft):**	5,255'
Logged Interval (ft):	1,340' To: 12,xx'	**Total Depth (ft):**	12,xx'
Formation:	Niobrara Formation at TD		
Type of Drilling Fluid:	Water Polymer		

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OPERATOR

Company: EOG Resources, Inc.
Address: 600 17th Street, Suite 1000
Denver, Colorado 80202

GEOLOGISTS:

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17756 East Tennessee Dr.
Aurora CO, 80017

ROCK TYPES

Sltst2	Brec	Gyp	Shale
Carb sh	Cht	Igne	Shcol
Carb chalk	Clyst	Lmst	Shgy
Arg_ss	Coal	Meta	Sltst
Anhy	Congl	Mrlst	Ss
Bent	Dol	Salt	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
- Sltstrg1
- 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

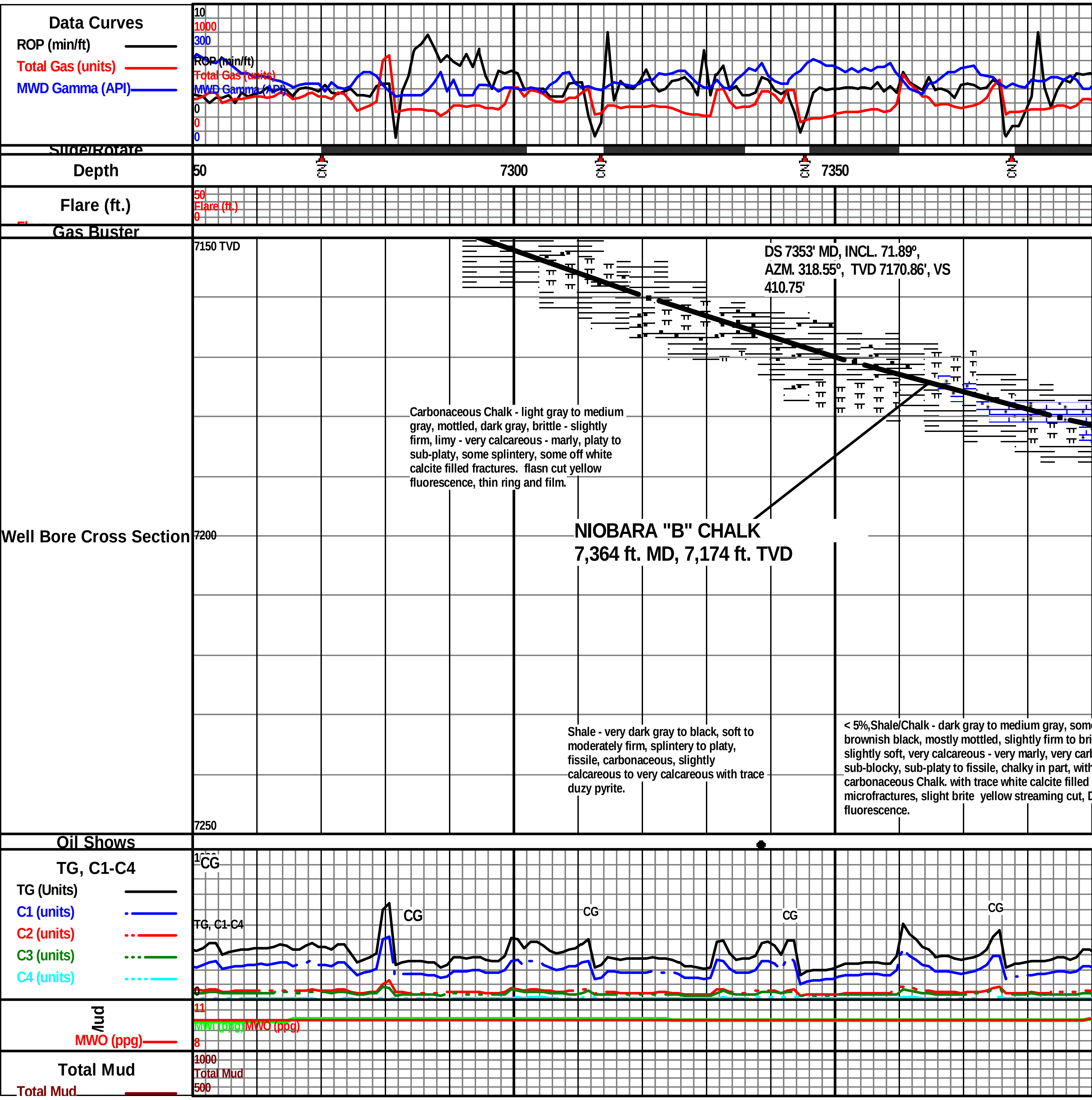
SORTING
- Well
- Moderate
- Poor

ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

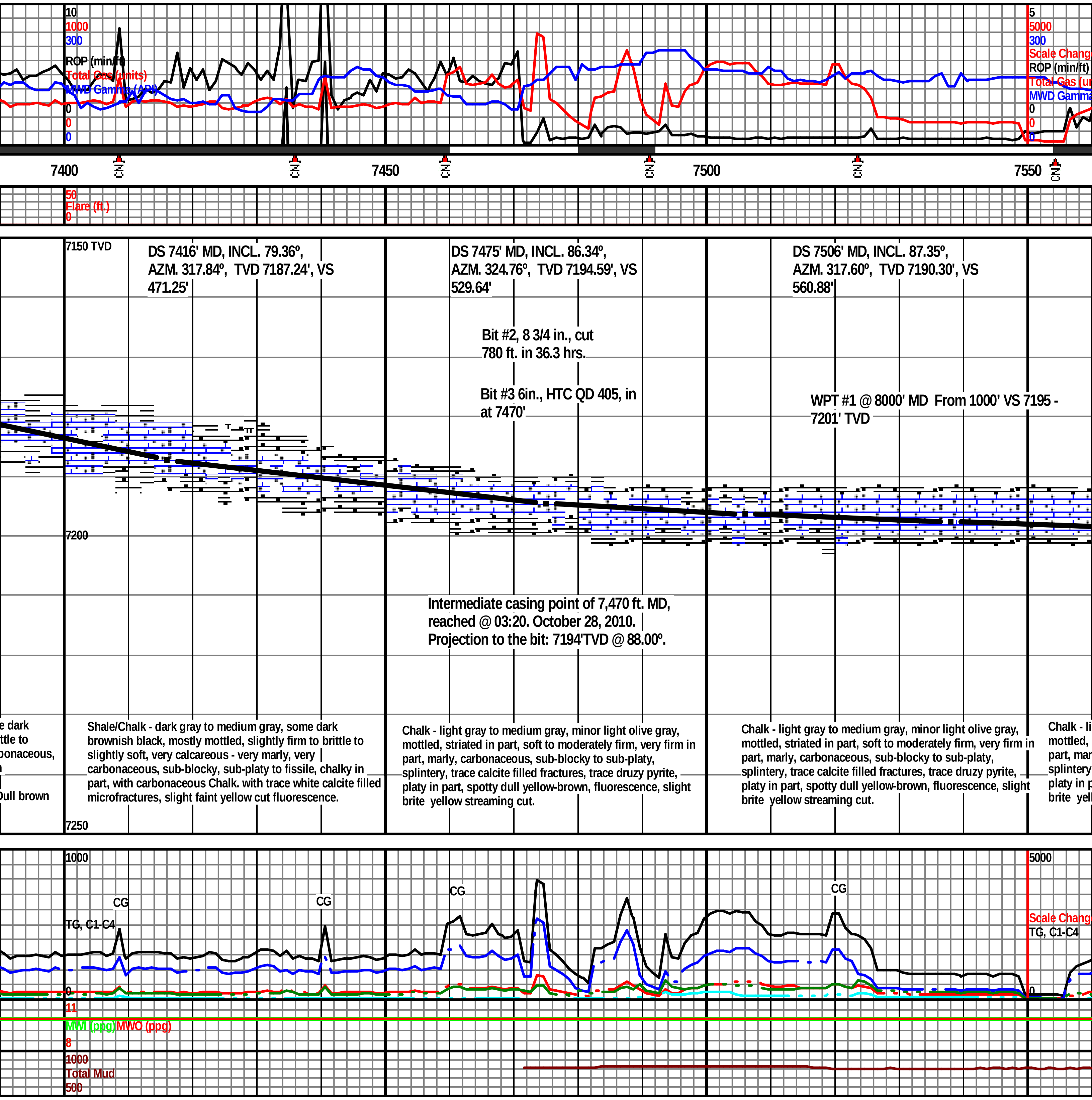
OIL SHOW
- Even
- Spotted
- Ques
- Dead

INTERVAL
- Core
- Dst

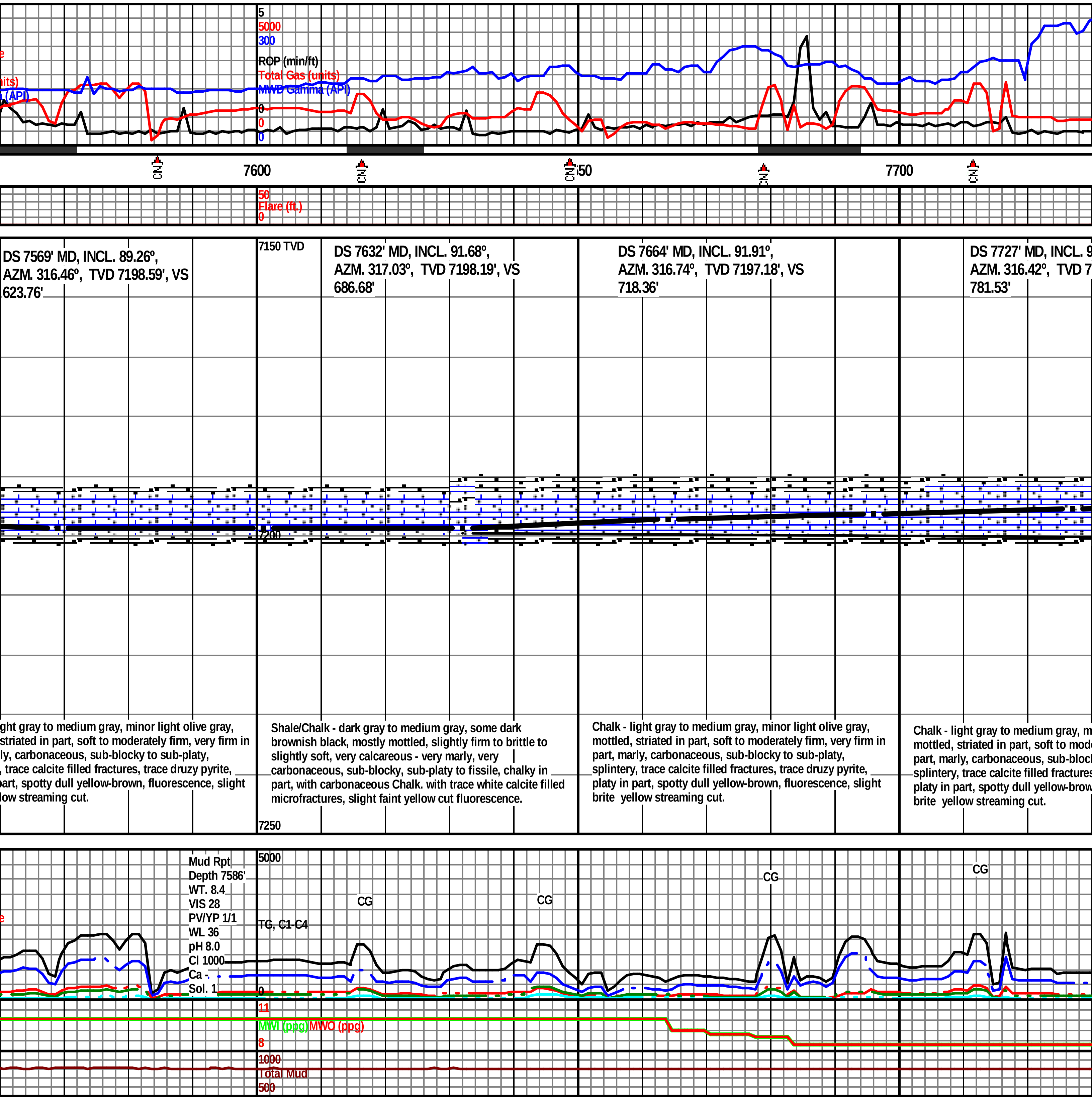
EVENT
- Rft
- Sidewall
- Cn_hzl

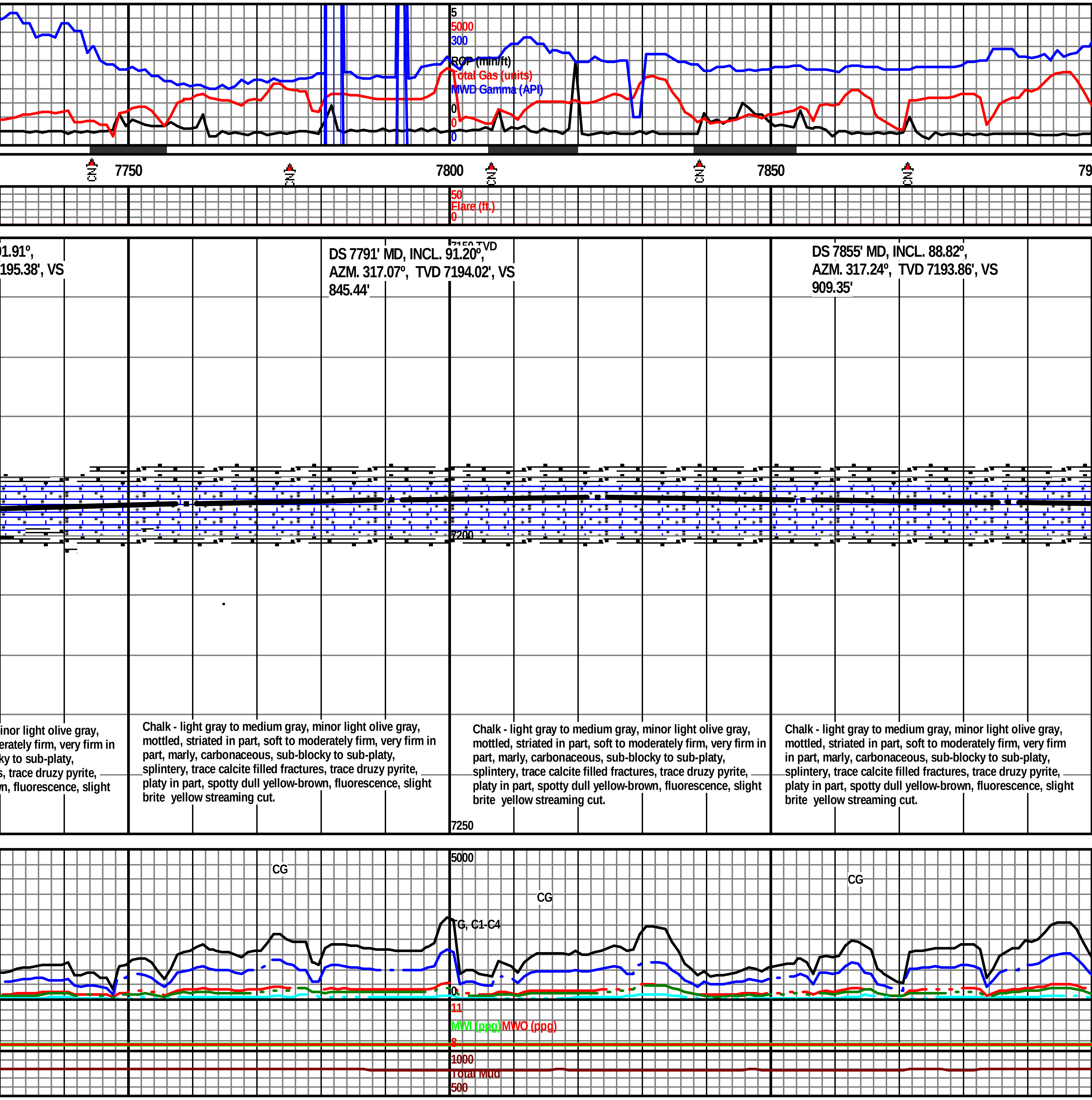


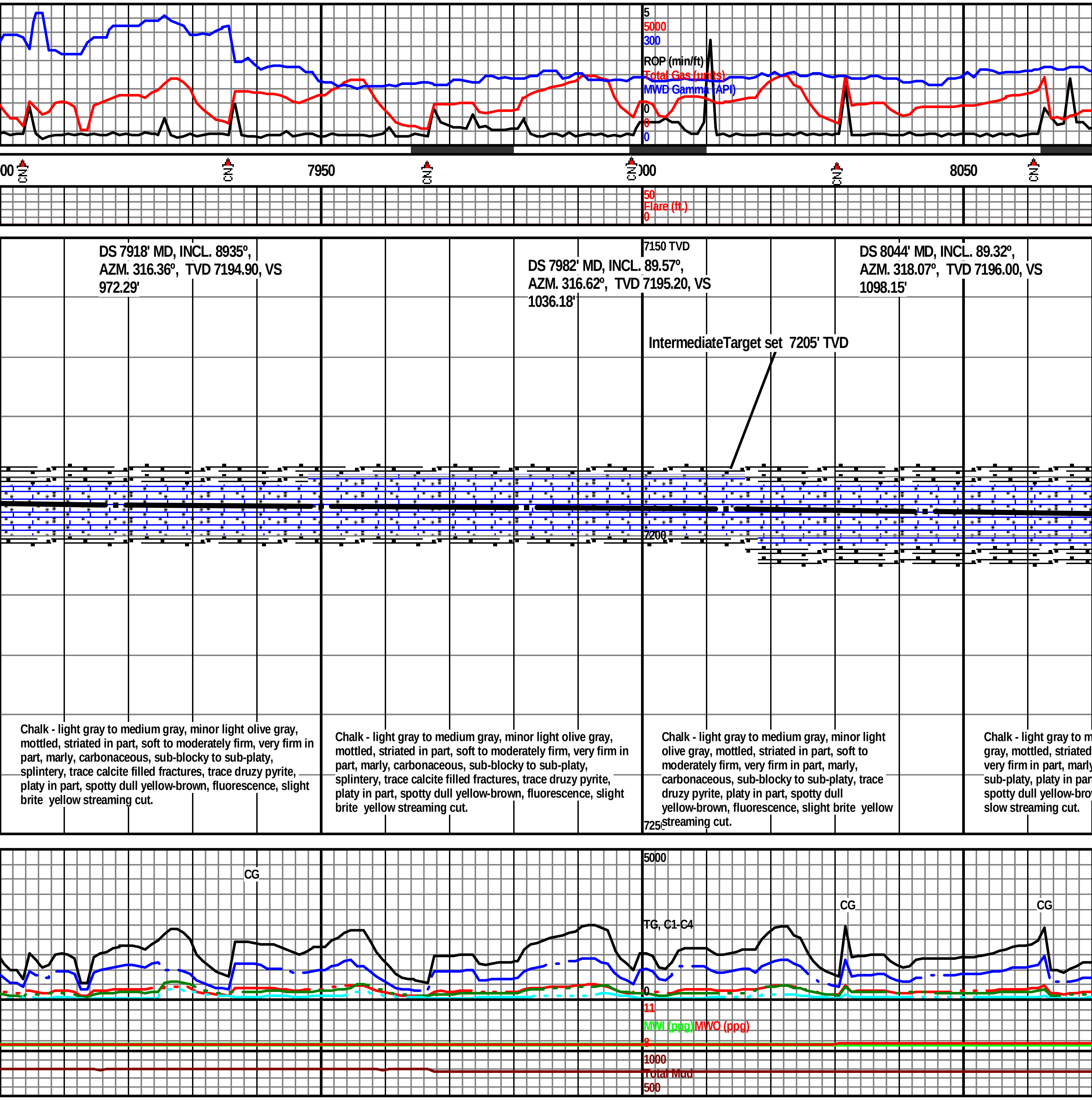
Data Curves
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
10
1000
300
0
0
0
Slide/Rotate
Depth
50
7300
7350
CN
Flare (ft.)
50
Flare (ft.)
0
Gas Buster
Well Bore Cross Section
7150 TVD
7200
7250
DS 7353' MD, INCL. 71.89º, AZM. 318.55º, TVD 7170.86', VS 410.75'
Carbonaceous Chalk - light gray to medium gray, mottled, dark gray, brittle - slightly firm, limy - very calcareous - marly, platy to sub-platy, some splintery, some off white calcite filled fractures. flasn cut yellow fluorescence, thin ring and film.
NIOBARA "B" CHALK
7,364 ft. MD, 7,174 ft. TVD
Shale - very dark gray to black, soft to moderately firm, splintery to platy, fissile, carbonaceous, slightly calcareous to very calcareous with trace duzy pyrite.
< 5%,Shale/Chalk - dark gray to medium gray, some brownish black, mostly mottled, slightly firm to bri slightly soft, very calcareous - very marly, very carb sub-blocky, sub-platy to fissile, chalky in part, with carbonaceous Chalk. with trace white calcite filled microfractures, slight brite yellow streaming cut, D fluorescence.
Oil Shows
TG, C1-C4
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
CG
TG, C1-C4
0
Mud
MWO (ppg)
11
MWI (ppg) MWO (ppg)
8
Total Mud
1000
Total Mud
500



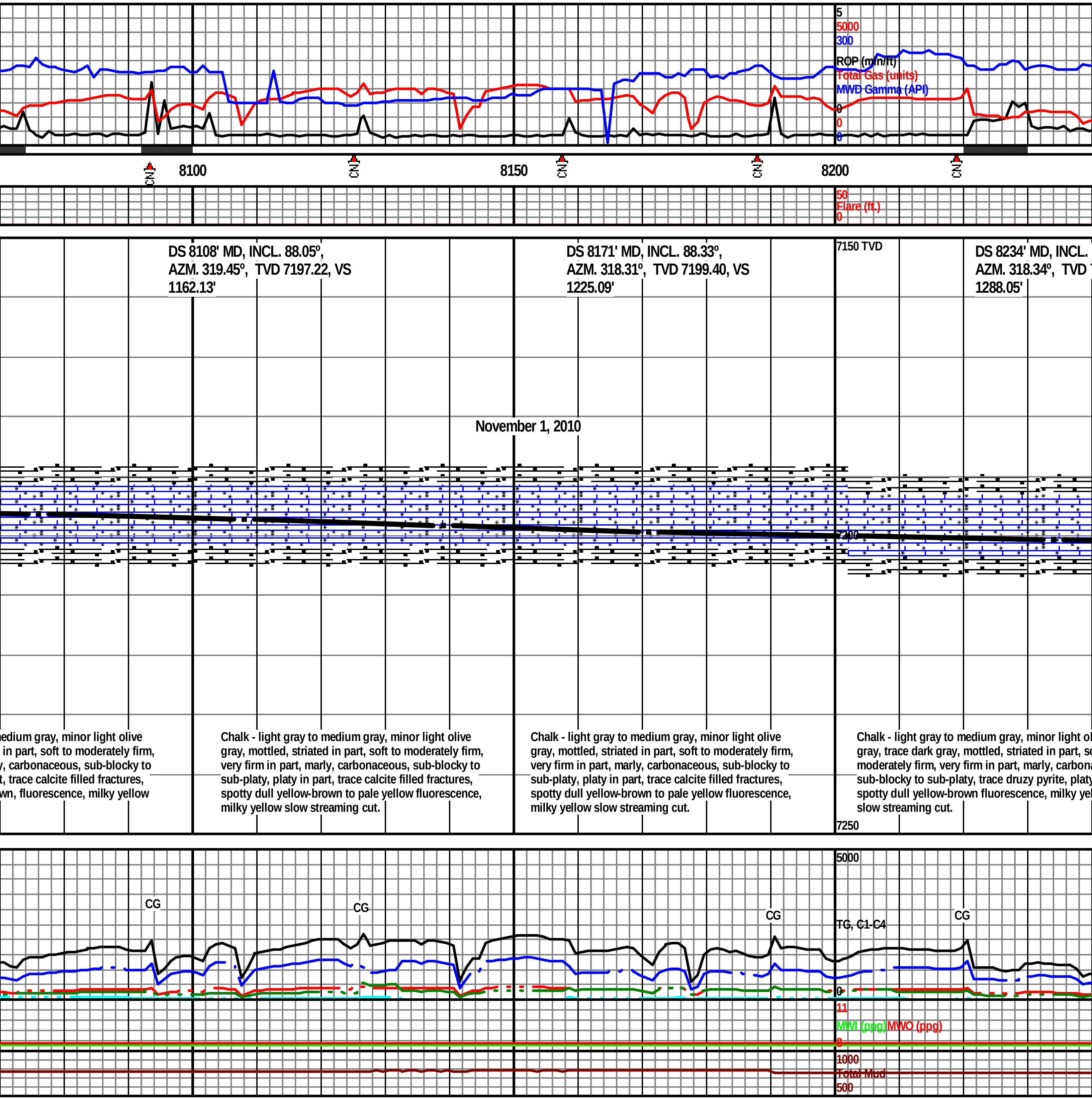
10
1000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
5
5000
300
Scale Change
ROP (min/ft)
Total Gas (un
MWD Gamma
7400
7450
7500
7550
CN
50
Flare (ft.)
0
7150 TVD
7200
7250
DS 7416' MD, INCL. 79.36°, AZM. 317.84°, TVD 7187.24', VS 471.25'
DS 7475' MD, INCL. 86.34°, AZM. 324.76°, TVD 7194.59', VS 529.64'
DS 7506' MD, INCL. 87.35°, AZM. 317.60°, TVD 7190.30', VS 560.88'
Bit #2, 8 3/4 in., cut 780 ft. in 36.3 hrs.
Bit #3 6in., HTC QD 405, in at 7470'
WPT #1 @ 8000' MD From 1000' VS 7195 - 7201' TVD
Intermediate casing point of 7,470 ft. MD, reached @ 03:20. October 28, 2010. Projection to the bit: 7194'TVD @ 88.00°.
e dark
ttle to
bonaceous,
n
Dull brown
Shale/Chalk - dark gray to medium gray, some dark brownish black, mostly mottled, slightly firm to brittle to slightly soft, very calcareous - very marly, very carbonaceous, sub-blocky, sub-platy to fissile, chalky in part, with carbonaceous Chalk. with trace white calcite filled microfractures, slight faint yellow cut fluorescence.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - li
mottled,
part, mar
splintery
platy in p
brite yell
1000
TG, C1-C4
CG
CG
CG
CG
5000
Scale Change
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

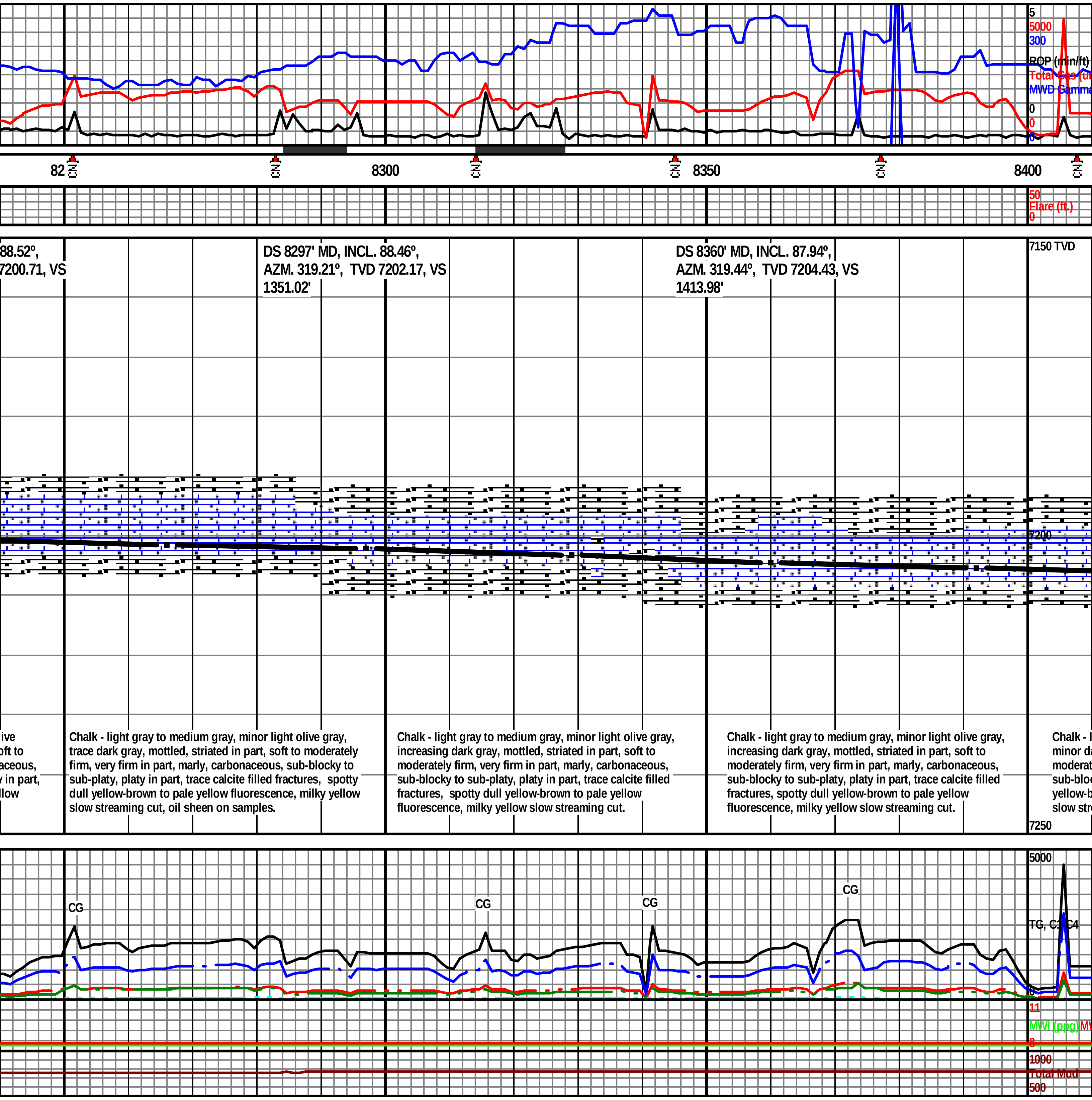

5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
7600
7650
7700
50
Flare (ft.)
0
DS 7569' MD, INCL. 89.26º, AZM. 316.46º, TVD 7198.59', VS 623.76'
7150 TVD
DS 7632' MD, INCL. 91.68º, AZM. 317.03º, TVD 7198.19', VS 686.68'
DS 7664' MD, INCL. 91.91º, AZM. 316.74º, TVD 7197.18', VS 718.36'
DS 7727' MD, INCL. 9
AZM. 316.42º, TVD 7
781.53'
7200
ght gray to medium gray, minor light olive gray, striated in part, soft to moderately firm, very firm in ly, carbonaceous, sub-blocky to sub-platy, , trace calcite filled fractures, trace druzy pyrite, part, spotty dull yellow-brown, fluorescence, slight low streaming cut.
Shale/Chalk - dark gray to medium gray, some dark brownish black, mostly mottled, slightly firm to brittle to slightly soft, very calcareous - very marly, very carbonaceous, sub-blocky, sub-platy to fissile, chalky in part, with carbonaceous Chalk. with trace white calcite filled microfractures, slight faint yellow cut fluorescence.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - light gray to medium gray, m mottled, striated in part, soft to mode part, marly, carbonaceous, sub-block splintery, trace calcite filled fractures platy in part, spotty dull yellow-brow brite yellow streaming cut.
7250
Mud Rpt
Depth 7586'
WT. 8.4
VIS 28
PV/YP 1/1
WL 36
pH 8.0
Cl 1000
Ca -
Sol. 1
5000
TG, C1-C4
CG
CG
CG
CG
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
CN
7750
CN
7800
CN
CN
7850
CN
79
50
Flare (ft.)
0
91.91°,
195.38', VS
DS 7791' MD, INCL. 91.20°,
AZM. 317.07°, TVD 7194.02', VS
845.44'
7150 TVD
DS 7855' MD, INCL. 88.82°,
AZM. 317.24°, TVD 7193.86', VS
909.35'
7200
minor light olive gray,
erately firm, very firm in
ky to sub-platy,
s, trace druzy pyrite,
n, fluorescence, slight
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
7250
5000
CG
CG
CG
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

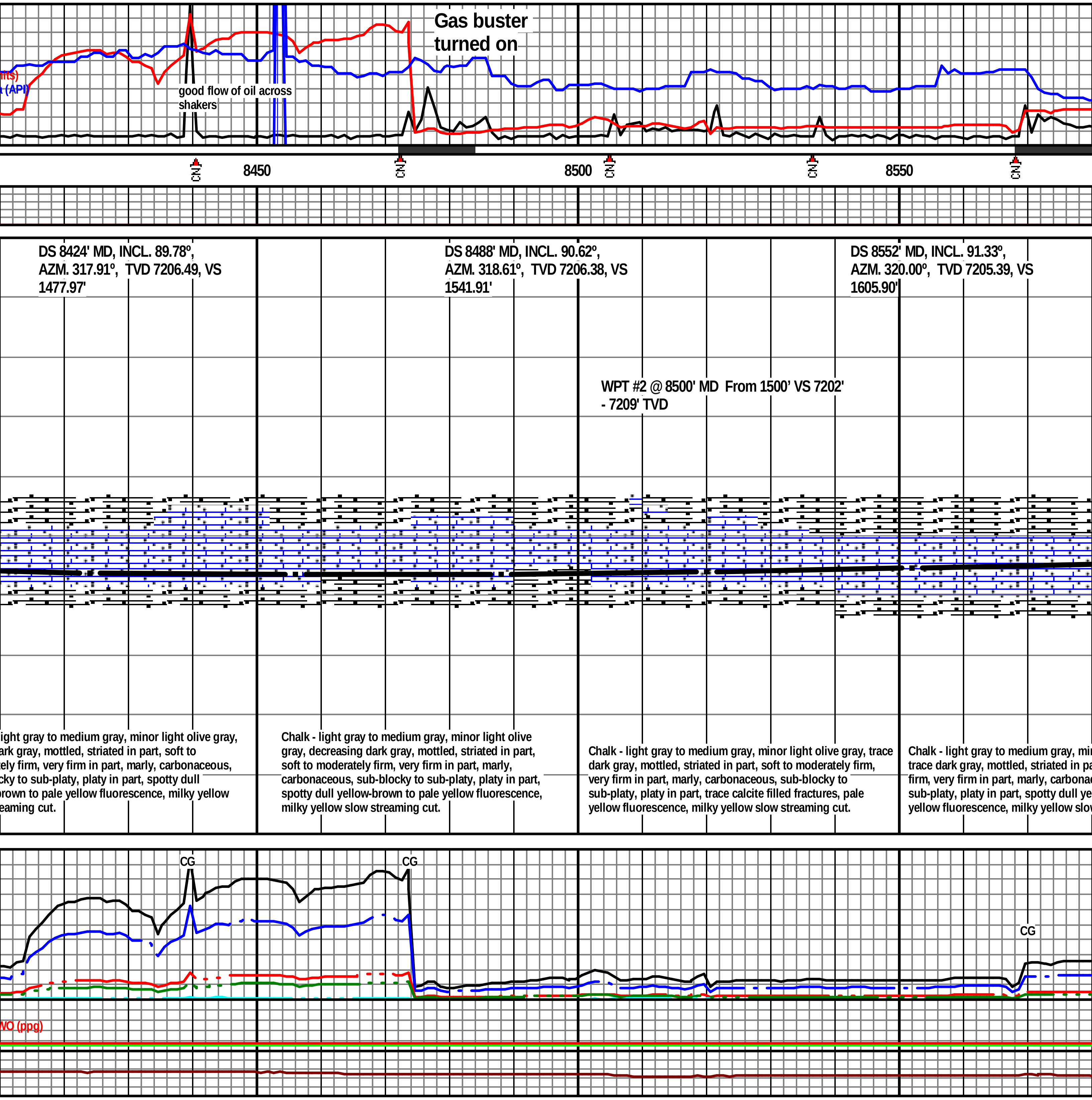


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
00
7950
000
8050
CN
50
Flare (ft.)
0
DS 7918' MD, INCL. 8935º, AZM. 316.36º, TVD 7194.90, VS 972.29'
7150 TVD
DS 7982' MD, INCL. 89.57º, AZM. 316.62º, TVD 7195.20, VS 1036.18'
DS 8044' MD, INCL. 89.32º, AZM. 318.07º, TVD 7196.00, VS 1098.15'
IntermediateTarget set 7205' TVD
7200
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, splintery, trace calcite filled fractures, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, trace druzy pyrite, platy in part, spotty dull yellow-brown, fluorescence, slight brite yellow streaming cut.
Chalk - light gray to m gray, mottled, striated very firm in part, marly sub-platy, platy in par spotty dull yellow-brow slow streaming cut.
725
5000
CG
TG, C1-C4
CG
CG
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

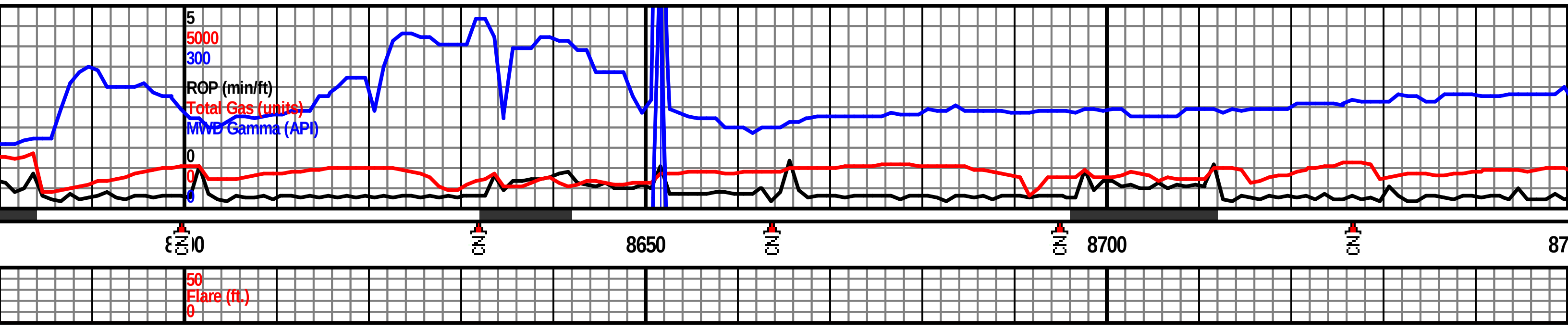

5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
CN
8100
CN
8150
CN
CN
8200
CN
50
Flare (ft.)
0
DS 8108' MD, INCL. 88.05º, AZM. 319.45º, TVD 7197.22, VS 1162.13'
DS 8171' MD, INCL. 88.33º, AZM. 318.31º, TVD 7199.40, VS 1225.09'
7150 TVD
DS 8234' MD, INCL.
AZM. 318.34º, TVD
1288.05'
November 1, 2010
7200
edium gray, minor light olive
in part, soft to moderately firm,
y, carbonaceous, sub-blocky to
t, trace calcite filled fractures,
wn, fluorescence, milky yellow
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite filled fractures, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite filled fractures, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray, minor light o
gray, trace dark gray, mottled, striated in part, s
moderately firm, very firm in part, marly, carbon
sub-blocky to sub-platy, trace druzy pyrite, platy
spotty dull yellow-brown fluorescence, milky ye
slow streaming cut.
7250
5000
CG
CG
CG
CG
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500



5
5000
300
ROP (min/ft)
Total Gas (u
MWD Gamma
0
0
0
82
CN
8300
8350
8400
50
Flare (ft.)
0
88.52º,
7200.71, VS
DS 8297' MD, INCL. 88.46º,
AZM. 319.21º, TVD 7202.17, VS
1351.02'
DS 8360' MD, INCL. 87.94º,
AZM. 319.44º, TVD 7204.43, VS
1413.98'
7150 TVD
7200
ive
oft to
aceous,
y in part,
llow
Chalk - light gray to medium gray, minor light olive gray, trace dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite filled fractures, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut, oil sheen on samples.
Chalk - light gray to medium gray, minor light olive gray, increasing dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite filled fractures, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, increasing dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite filled fractures, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - l
minor da
moderat
sub-bloc
yellow-b
slow stre
7250
5000
CG
TG, C1-C4
11
MWI (ppg) MW
8
1000
Total Mud
500



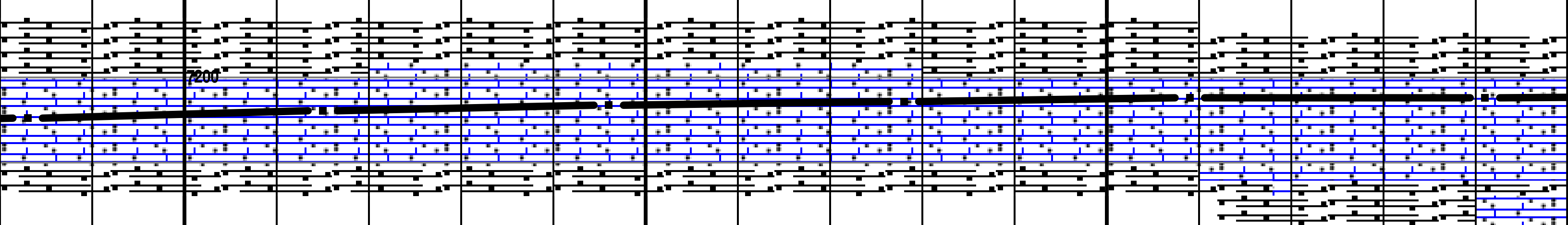
nits)
a (API)
good flow of oil across shakers
Gas buster turned on
CN
8450
8500
8550
DS 8424' MD, INCL. 89.78°, AZM. 317.91°, TVD 7206.49, VS 1477.97'
DS 8488' MD, INCL. 90.62°, AZM. 318.61°, TVD 7206.38, VS 1541.91'
DS 8552' MD, INCL. 91.33°, AZM. 320.00°, TVD 7205.39, VS 1605.90'
WPT #2 @ 8500' MD From 1500' VS 7202' - 7209' TVD
ight gray to medium gray, minor light olive gray, ark gray, mottled, striated in part, soft to ely firm, very firm in part, marly, carbonaceous, cky to sub-platy, platy in part, spotty dull rown to pale yellow fluorescence, milky yellow eaming cut.
Chalk - light gray to medium gray, minor light olive gray, decreasing dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray, minor light olive gray, trace dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite filled fractures, pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray, mi trace dark gray, mottled, striated in pa firm, very firm in part, marly, carbona sub-platy, platy in part, spotty dull ye yellow fluorescence, milky yellow slov
CG
WO (ppg)



DS 8615' MD, INCL. 91.54°, AZM. 320.73°, TVD 7203.97, VS 1668.87'

DS 8678' MD, INCL. 91.26°, AZM. 321.63°, TVD 7202.77, VS 1731.82'

DS 8741' MD, INCL. 90.12°, AZM. 321.56°, TVD 7202.45 1794.77'



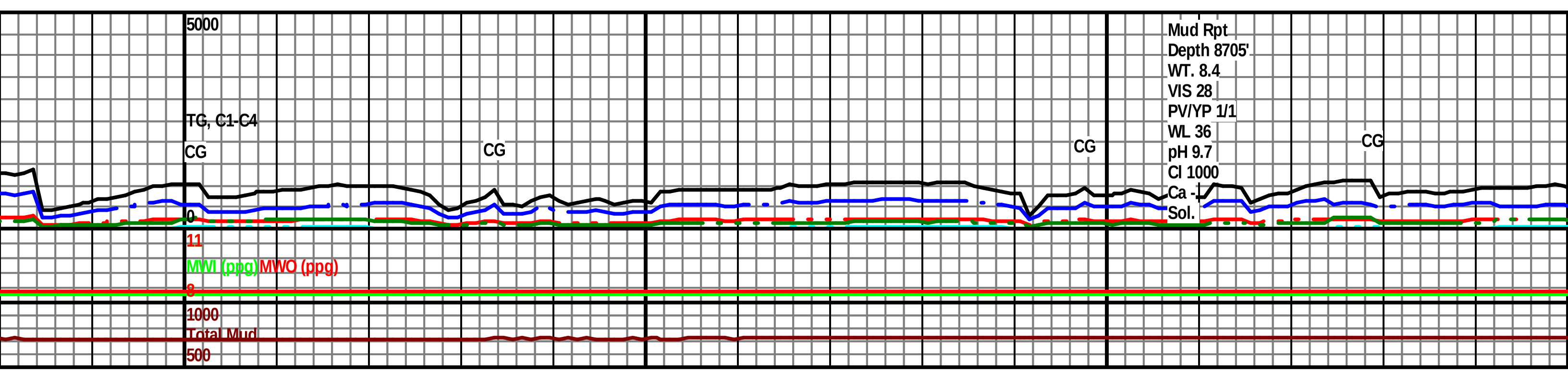
Poor sample quality

...nor light olive gray, ...art, soft to moderately ...ceous, sub-blocky to ...llow-brown to pale ...w streaming cut.

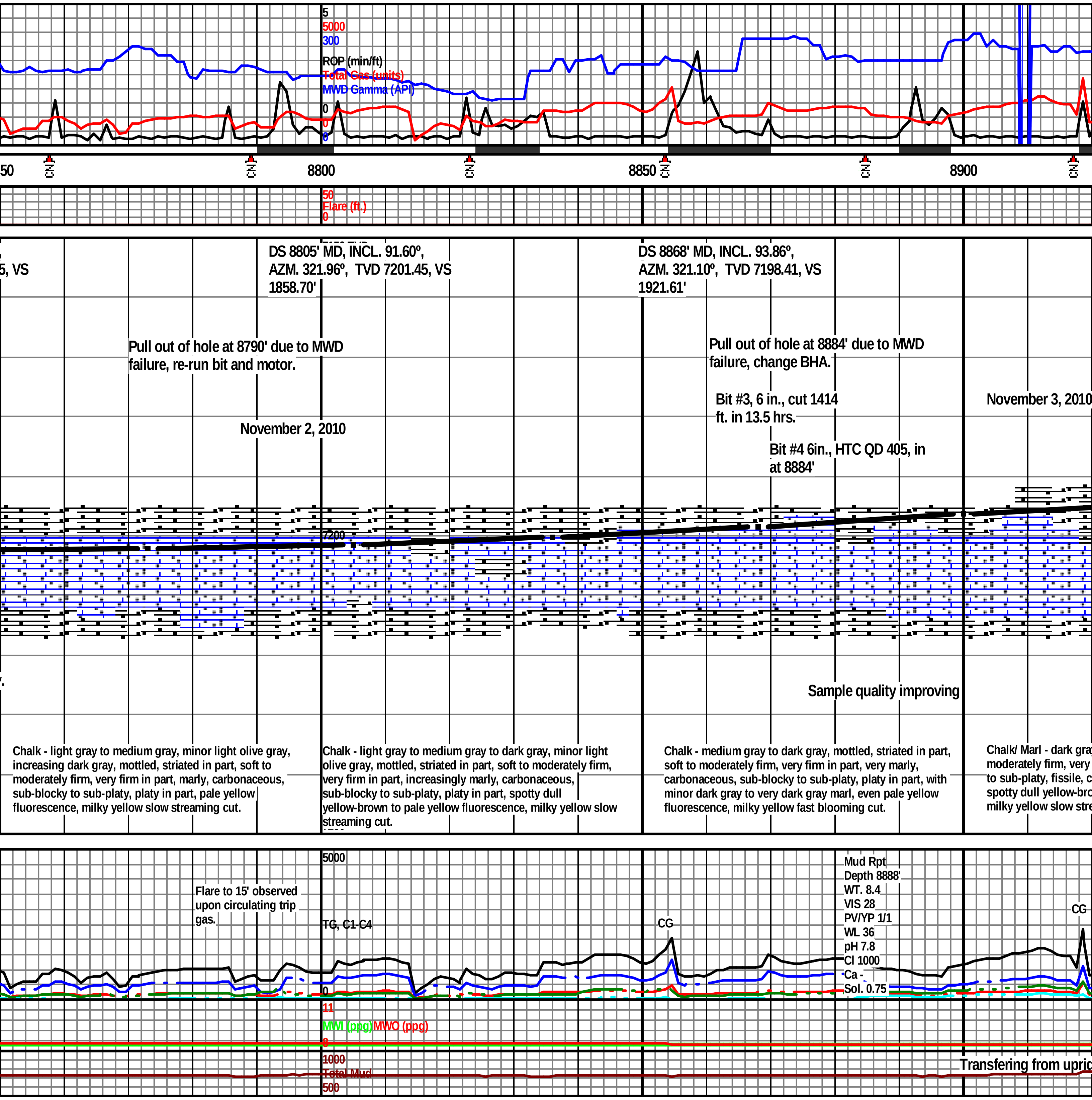
Chalk - light gray to medium gray, minor light olive gray, increasing dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.

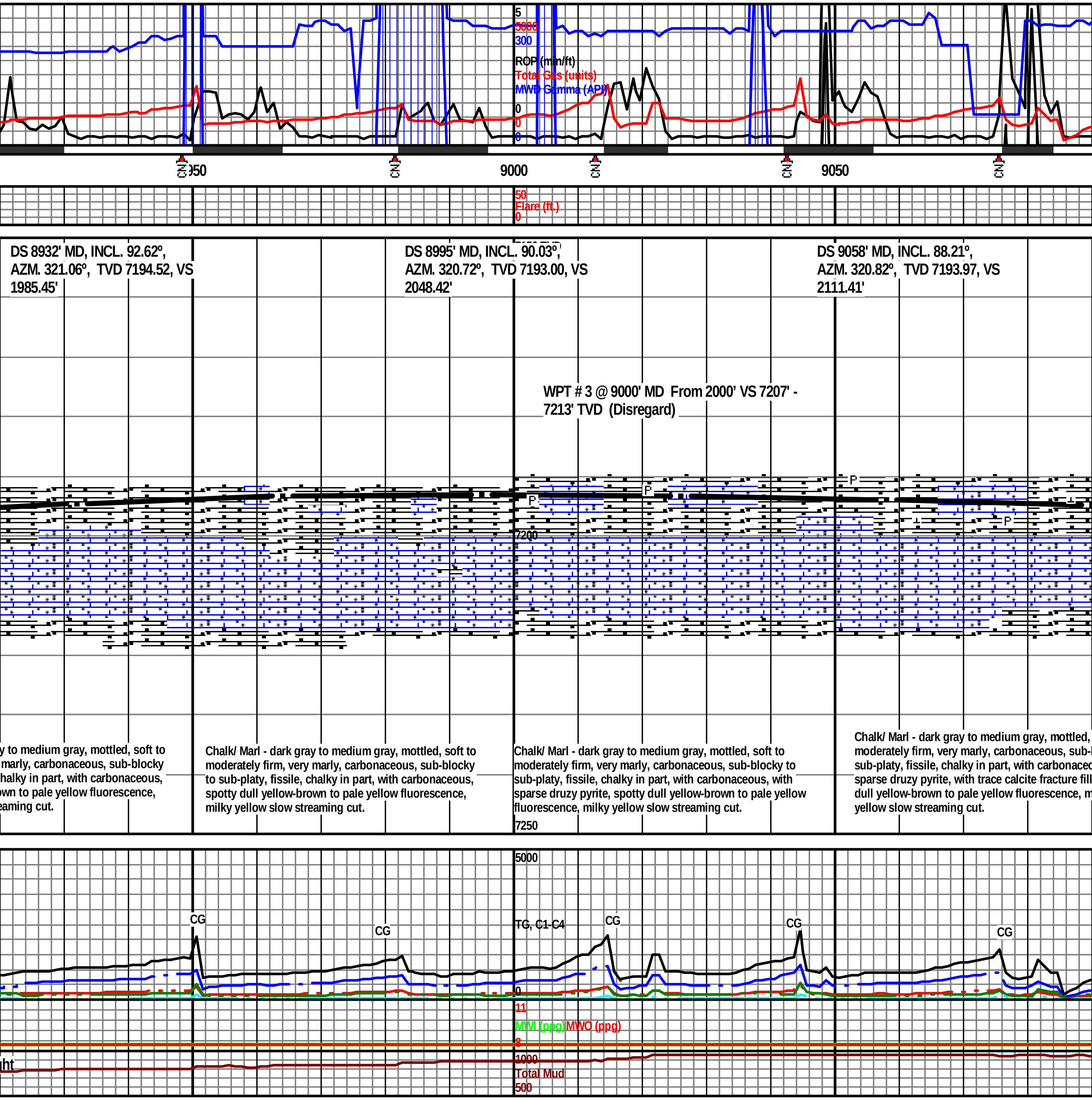
Chalk - light gray to medium gray, minor light olive gray, trace dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite filled fractures, pale yellow fluorescence, milky yellow slow streaming cut.

Chalk - light gray to medium gray, minor light olive gray, minor dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.

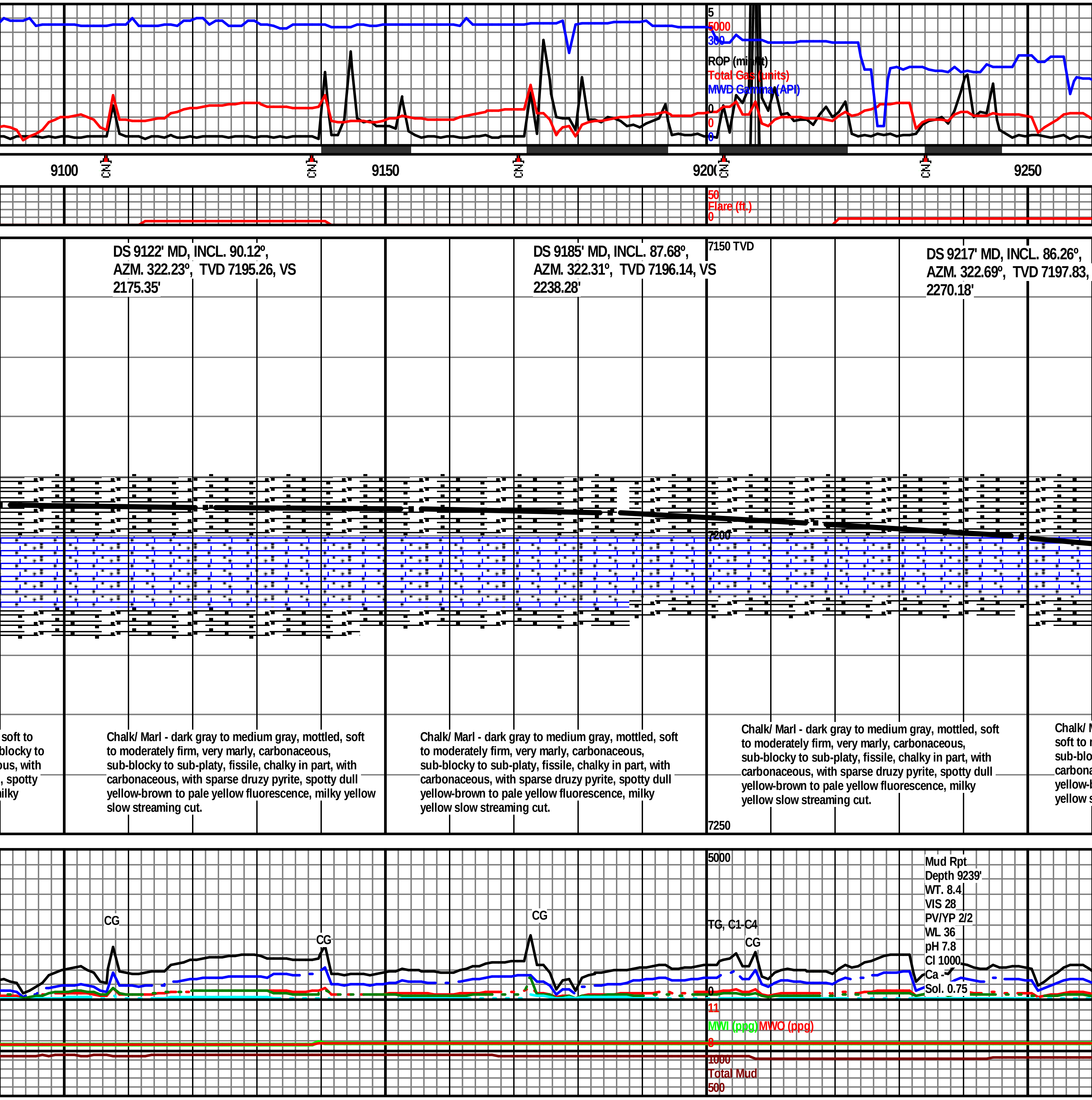


Mud Rpt
Depth 8705'
WT. 8.4
VIS 28
PV/YP 1/1
WL 36
pH 9.7
Cl 1000
Ca -
Sol.

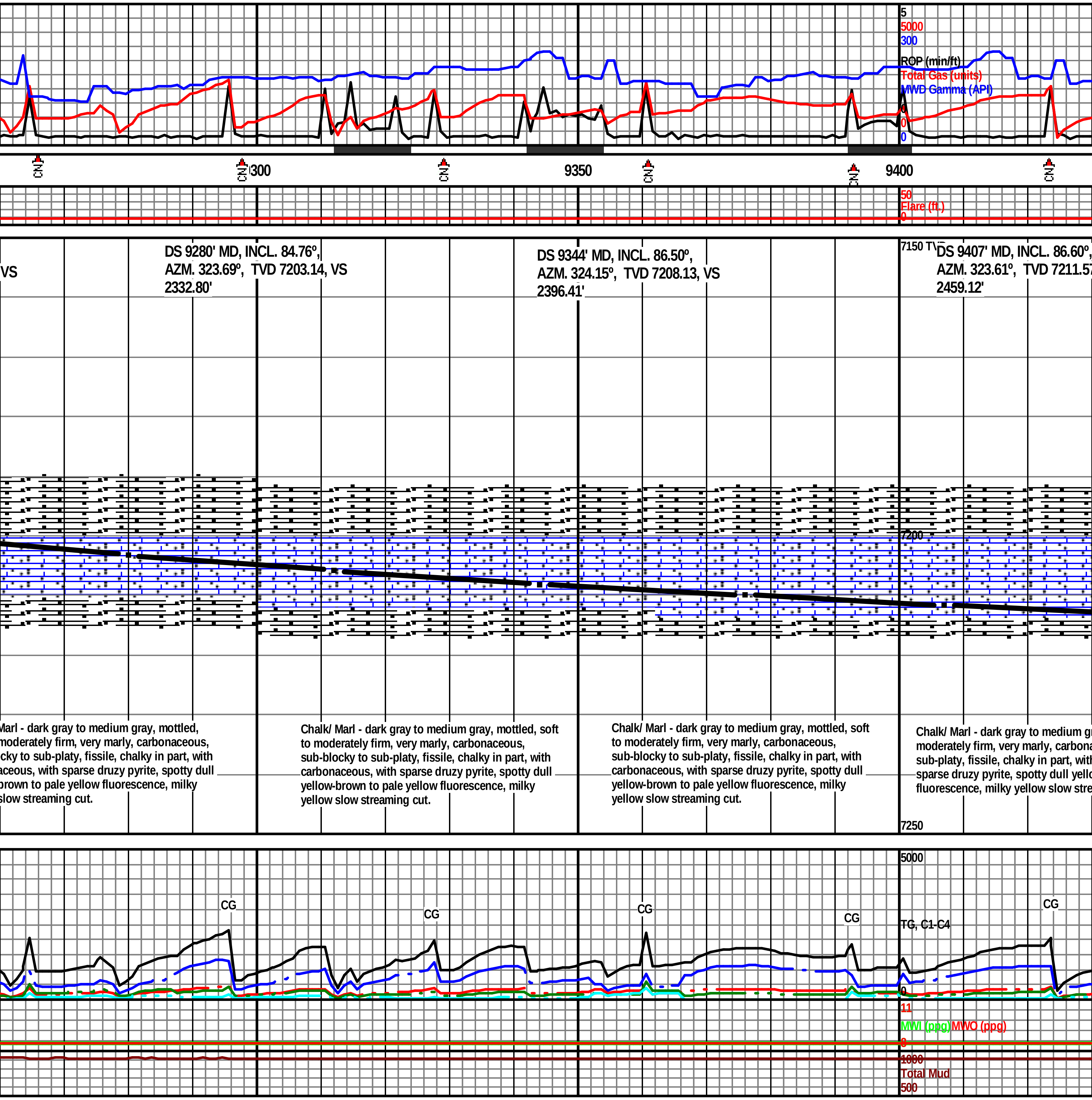

5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
50
CN
CN
8800
CN
8850
CN
CN
8900
CN
50
Flare (ft.)
0
5, VS
DS 8805' MD, INCL. 91.60º, AZM. 321.96º, TVD 7201.45, VS 1858.70'
DS 8868' MD, INCL. 93.86º, AZM. 321.10º, TVD 7198.41, VS 1921.61'
Pull out of hole at 8790' due to MWD failure, re-run bit and motor.
Pull out of hole at 8884' due to MWD failure, change BHA.
Bit #3, 6 in., cut 1414 ft. in 13.5 hrs.
November 2, 2010
November 3, 2010
Bit #4 6in., HTC QD 405, in at 8884'
7200
Sample quality improving
Chalk - light gray to medium gray, minor light olive gray, increasing dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly, carbonaceous, sub-blocky to sub-platy, platy in part, pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - medium gray to dark gray, mottled, striated in part, soft to moderately firm, very firm in part, very marly, carbonaceous, sub-blocky to sub-platy, platy in part, with minor dark gray to very dark gray marl, even pale yellow fluorescence, milky yellow fast blooming cut.
Chalk/ Marl - dark gra moderately firm, very to sub-platy, fissile, c spotty dull yellow-bro milky yellow slow stre
5000
Flare to 15' observed upon circulating trip gas.
TG, C1-C4
CG
CG
Mud Rpt
Depth 8888'
WT. 8.4
VIS 28
PV/YP 1/1
WL 36
pH 7.8
Cl 1000
Ca -
Sol. 0.75
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500
Transfering from upric

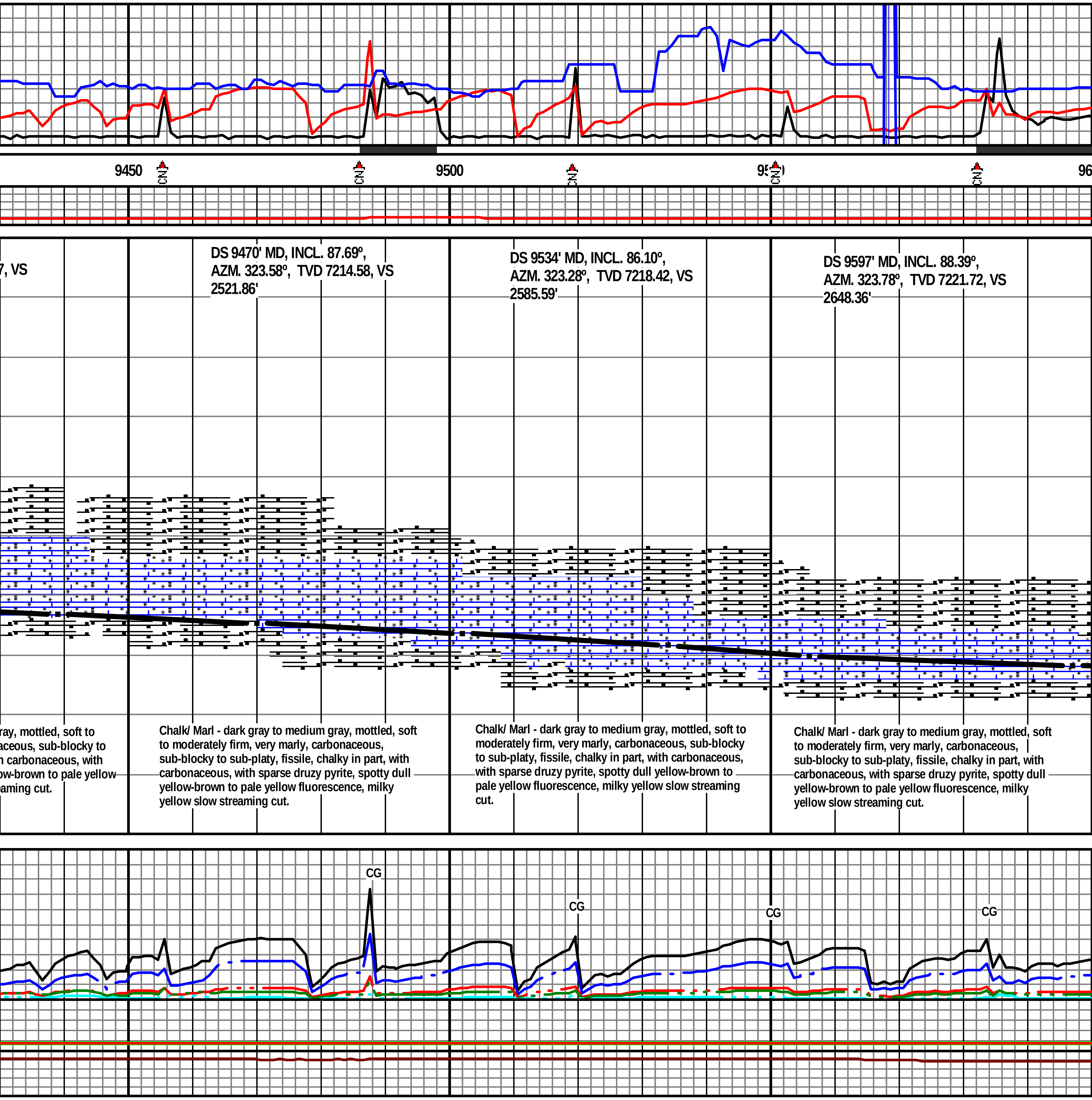


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
8950
9000
9050
50
Flare (ft.)
0
DS 8932' MD, INCL. 92.62º, AZM. 321.06º, TVD 7194.52, VS 1985.45'
DS 8995' MD, INCL. 90.03º, AZM. 320.72º, TVD 7193.00, VS 2048.42'
DS 9058' MD, INCL. 88.21º, AZM. 320.82º, TVD 7193.97, VS 2111.41'
WPT # 3 @ 9000' MD From 2000' VS 7207' - 7213' TVD (Disregard)
7200
y to medium gray, mottled, soft to marly, carbonaceous, sub-blocky halky in part, with carbonaceous, own to pale yellow fluorescence, eaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, moderately firm, very marly, carbonaceous, sub- sub-platy, fissile, chalky in part, with carbonace sparse druzy pyrite, with trace calcite fracture fill dull yellow-brown to pale yellow fluorescence, m yellow slow streaming cut.
7250
5000
TG, C1-C4
CG
CG
CG
CG
CG
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500
ht

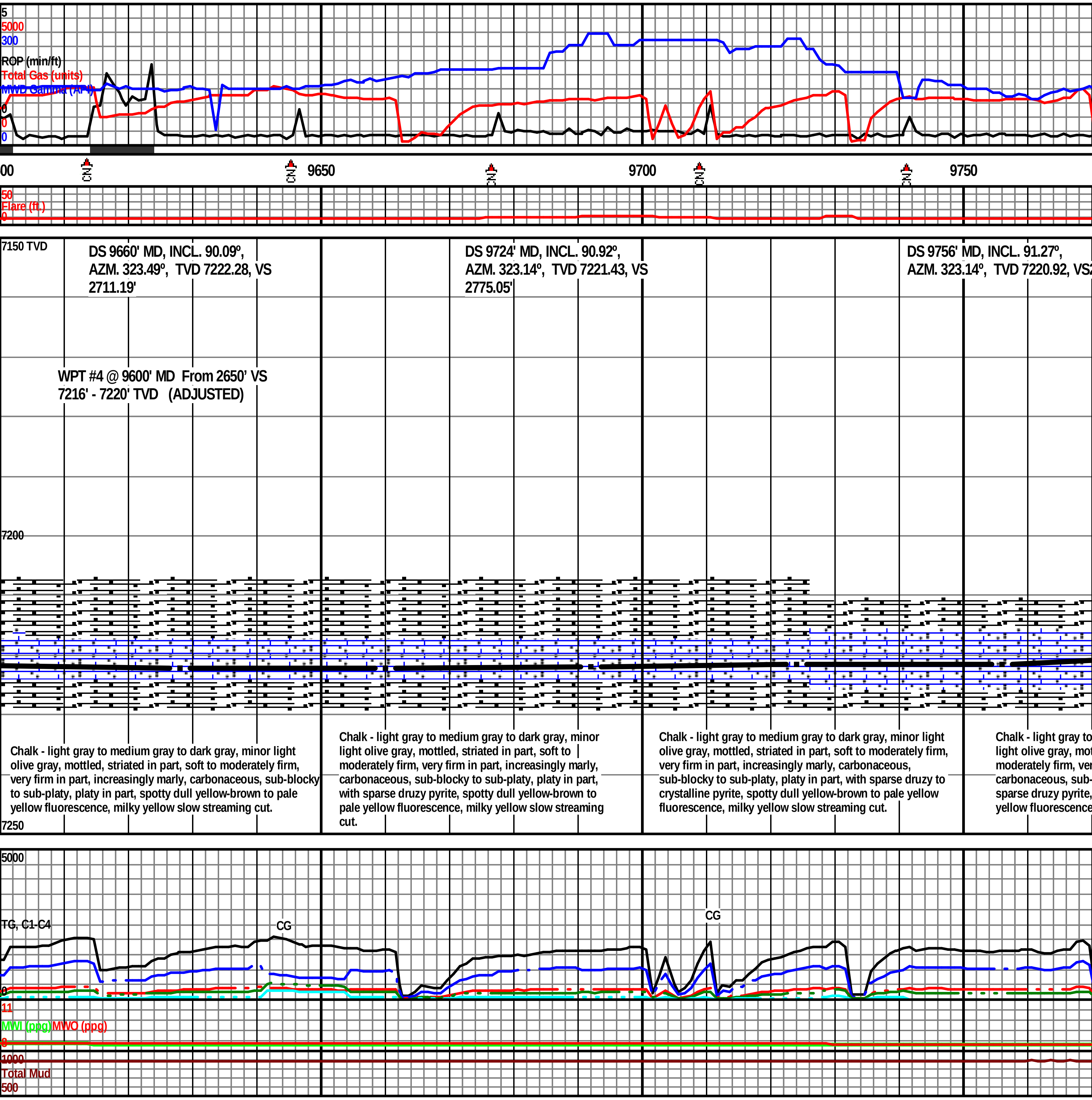


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
9100
CN
CN
9150
CN
9200
CN
CN
9250
50
Flare (ft.)
0
DS 9122' MD, INCL. 90.12°, AZM. 322.23°, TVD 7195.26, VS 2175.35'
DS 9185' MD, INCL. 87.68°, AZM. 322.31°, TVD 7196.14, VS 2238.28'
7150 TVD
DS 9217' MD, INCL. 86.26°, AZM. 322.69°, TVD 7197.83, VS 2270.18'
7200
soft to … blocky to … ous, with … , spotty … ilky
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ M… soft to … sub-blo… carbona… yellow-… yellow s…
7250
5000
CG
CG
CG
TG, C1-C4
CG
Mud Rpt
Depth 9239'
WT. 8.4
VIS 28
PV/YP 2/2
WL 36
pH 7.8
Cl 1000
Ca -
Sol. 0.75
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

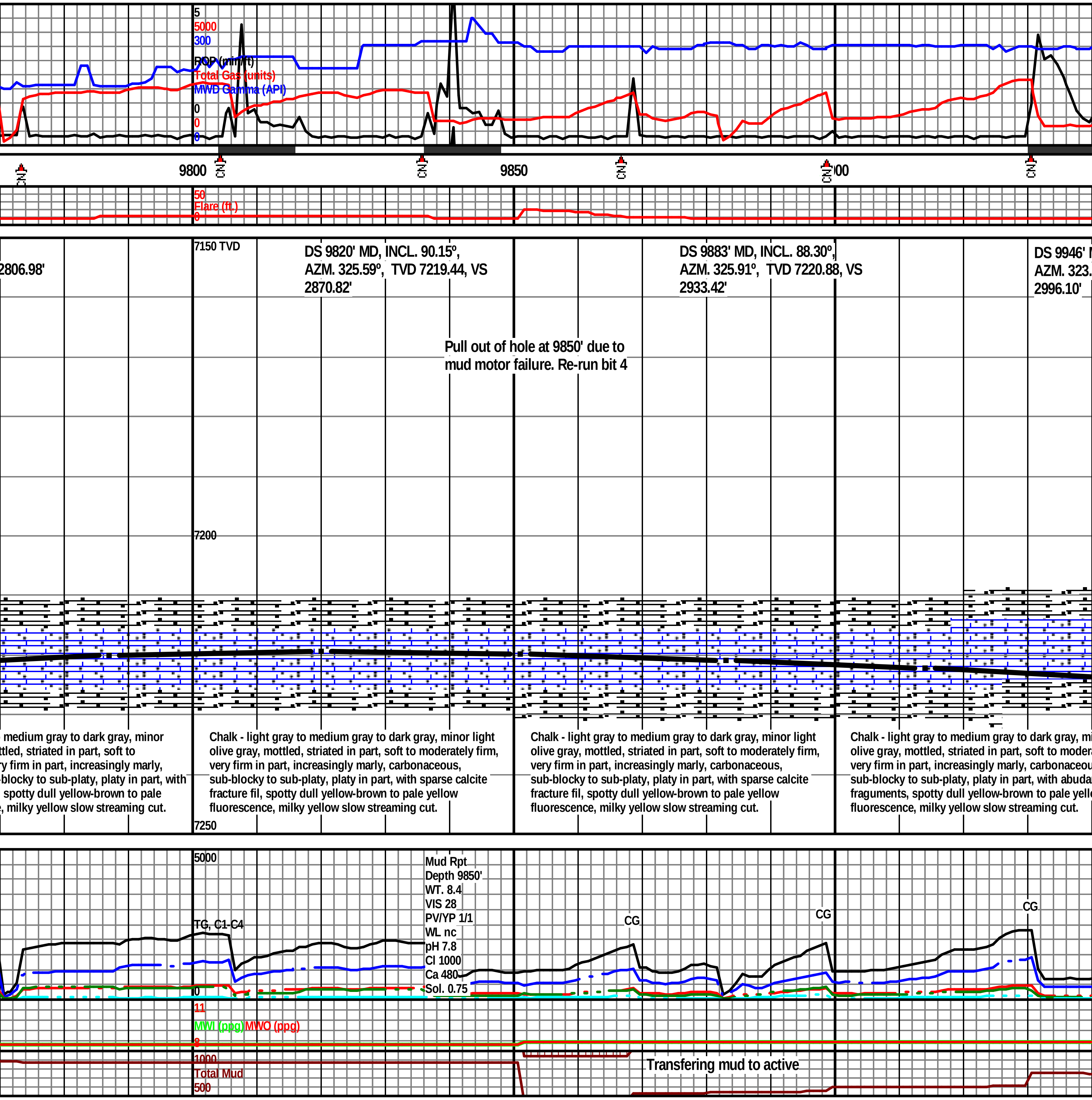

5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
CN
CN
9300
CN
9350
CN
CN
9400
CN
50
Flare (ft.)
0
VS
DS 9280' MD, INCL. 84.76º, AZM. 323.69º, TVD 7203.14, VS 2332.80'
DS 9344' MD, INCL. 86.50º, AZM. 324.15º, TVD 7208.13, VS 2396.41'
7150 TV
DS 9407' MD, INCL. 86.60º, AZM. 323.61º, TVD 7211.57
2459.12'
7200
Marl - dark gray to medium gray, mottled, moderately firm, very marly, carbonaceous, cky to sub-platy, fissile, chalky in part, with aceous, with sparse druzy pyrite, spotty dull brown to pale yellow fluorescence, milky slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium g moderately firm, very marly, carbona sub-platy, fissile, chalky in part, with sparse druzy pyrite, spotty dull yello fluorescence, milky yellow slow stre
7250
5000
CG
CG
CG
CG
CG
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500



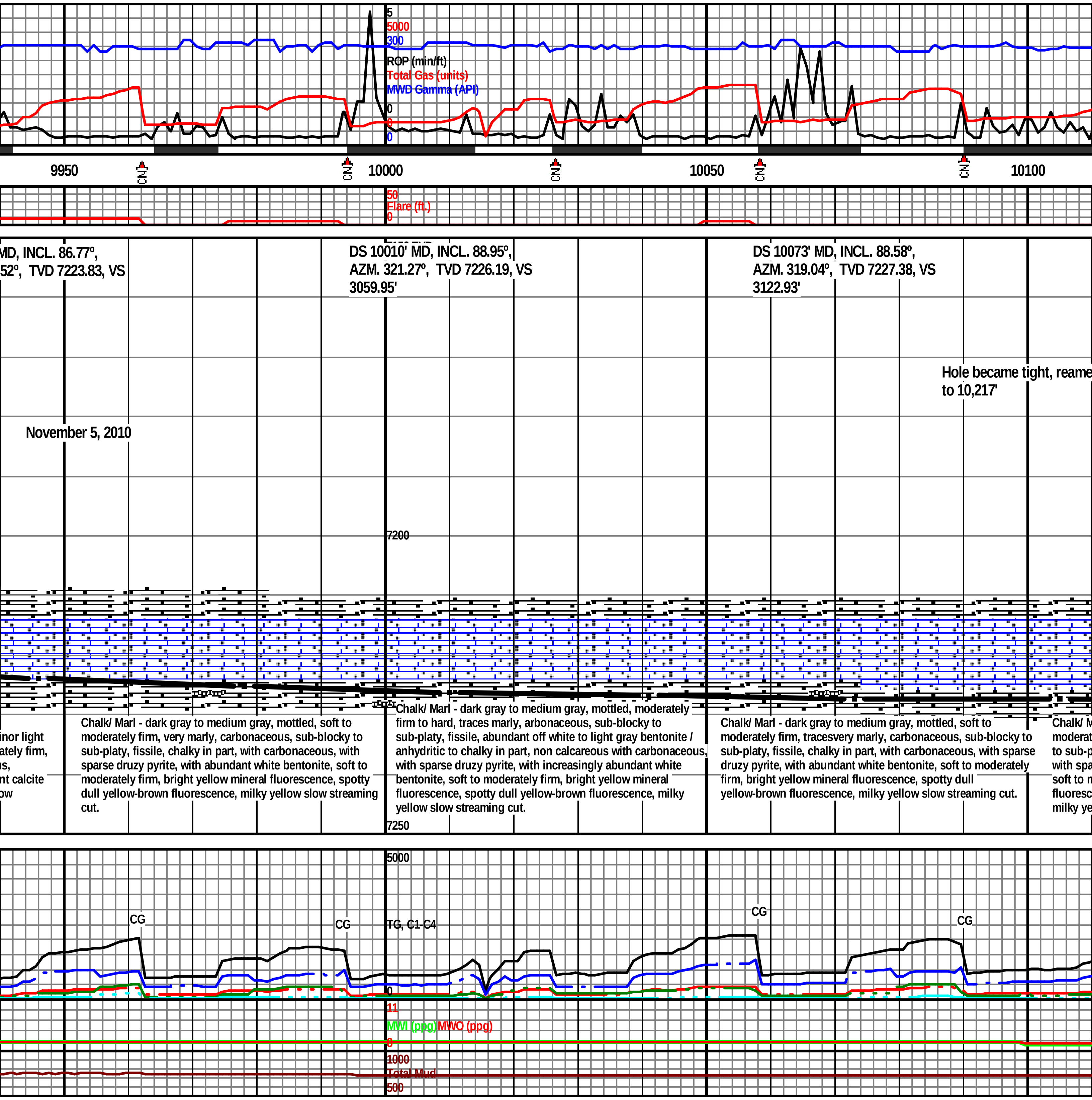
9450
CN
CN
9500
CN
95[?]0
CN
96
7, VS
DS 9470' MD, INCL. 87.69º, AZM. 323.58º, TVD 7214.58, VS 2521.86'
DS 9534' MD, INCL. 86.10º, AZM. 323.28º, TVD 7218.42, VS 2585.59'
DS 9597' MD, INCL. 88.39º, AZM. 323.78º, TVD 7221.72, VS 2648.36'
ray, mottled, soft to aceous, sub-blocky to n carbonaceous, with ow-brown to pale yellow aming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
CG
CG
CG
CG

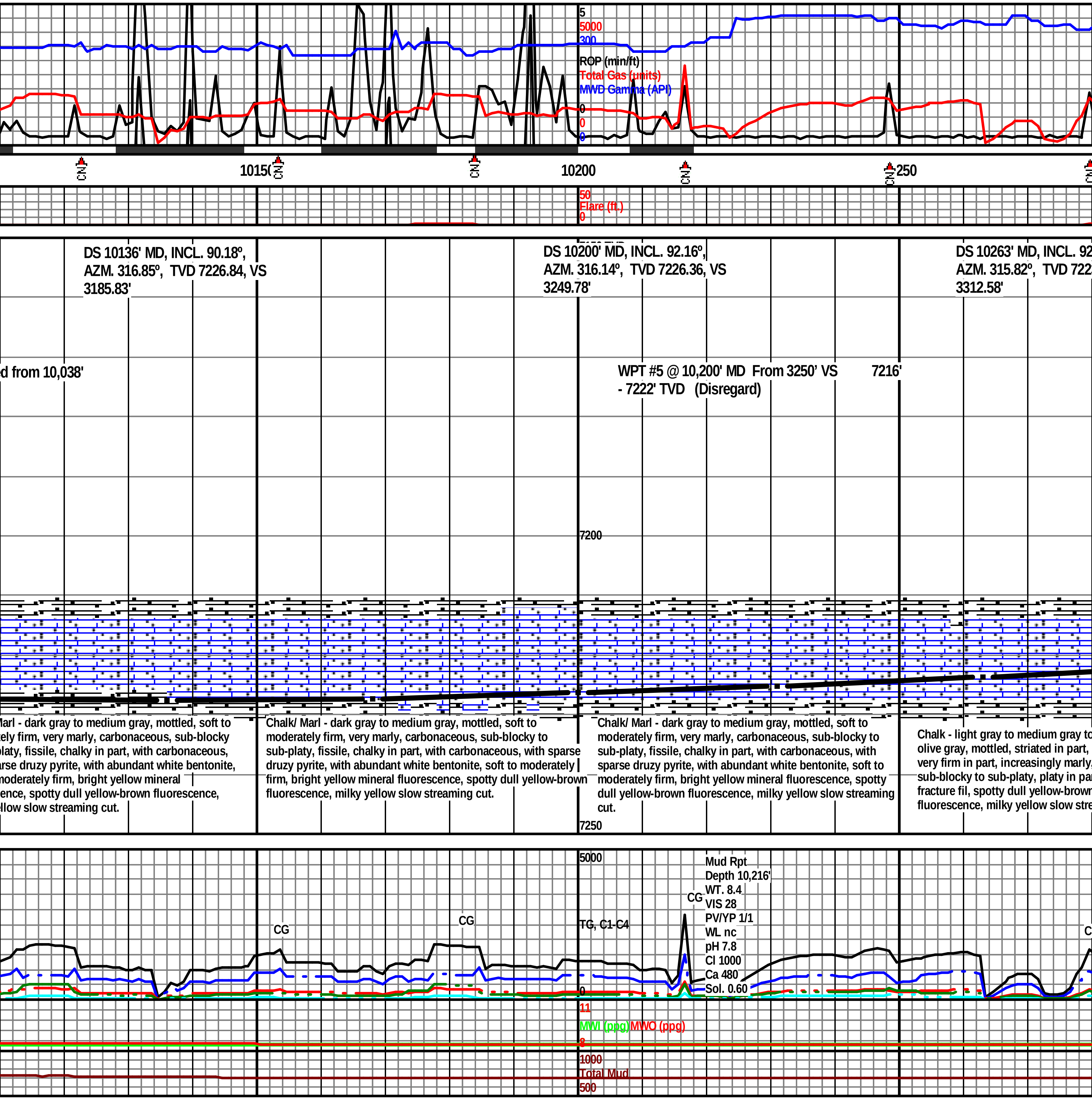


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
00
9650
9700
9750
CN
CN
CN
CN
CN
50
Flare (ft.)
0
7150 TVD
DS 9660' MD, INCL. 90.09º, AZM. 323.49º, TVD 7222.28, VS 2711.19'
WPT #4 @ 9600' MD From 2650' VS 7216' - 7220' TVD (ADJUSTED)
DS 9724' MD, INCL. 90.92º, AZM. 323.14º, TVD 7221.43, VS 2775.05'
DS 9756' MD, INCL. 91.27º, AZM. 323.14º, TVD 7220.92, VS
7200
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse druzy pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse druzy to crystalline pyrite, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to light olive gray, mot moderately firm, ver carbonaceous, sub- sparse druzy pyrite, yellow fluorescence
7250
5000
TG, C1-C4
CG
CG
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

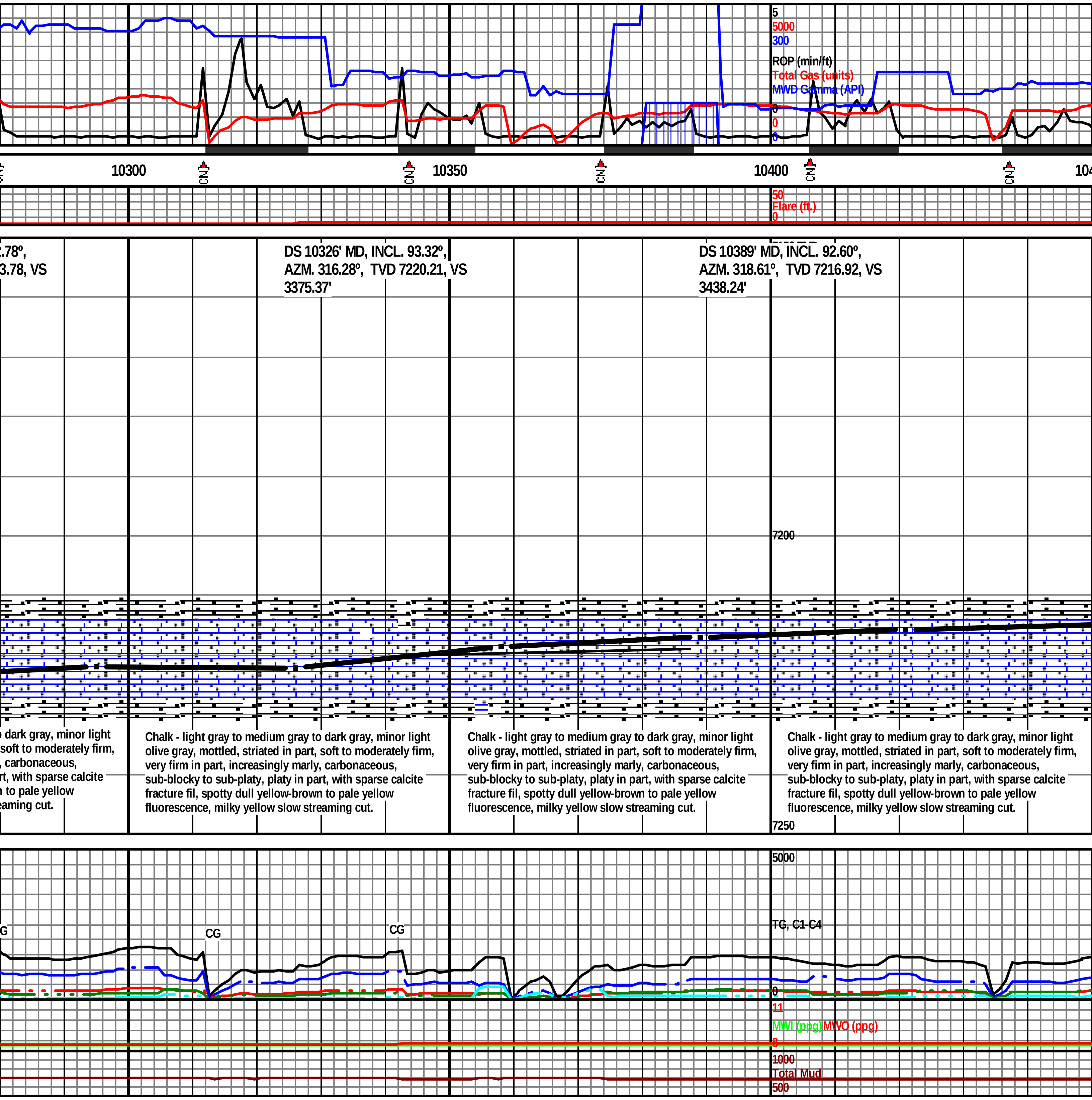


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
9800
9850
00
50
Flare (ft.)
0
2806.98'
7150 TVD
DS 9820' MD, INCL. 90.15°, AZM. 325.59°, TVD 7219.44, VS 2870.82'
DS 9883' MD, INCL. 88.30°, AZM. 325.91°, TVD 7220.88, VS 2933.42'
DS 9946' M AZM. 323. 2996.10'
Pull out of hole at 9850' due to mud motor failure. Re-run bit 4
7200
medium gray to dark gray, minor ttled, striated in part, soft to ry firm in part, increasingly marly, blocky to sub-platy, platy in part, with spotty dull yellow-brown to pale , milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse calcite fracture fil, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse calcite fracture fil, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, mi olive gray, mottled, striated in part, soft to modera very firm in part, increasingly marly, carbonaceou sub-blocky to sub-platy, platy in part, with abuda fraguments, spotty dull yellow-brown to pale yello fluorescence, milky yellow slow streaming cut.
7250
5000
TG, C1-C4
Mud Rpt
Depth 9850'
WT. 8.4
VIS 28
PV/YP 1/1
WL nc
pH 7.8
Cl 1000
Ca 480
Sol. 0.75
CG
CG
CG
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500
Transfering mud to active

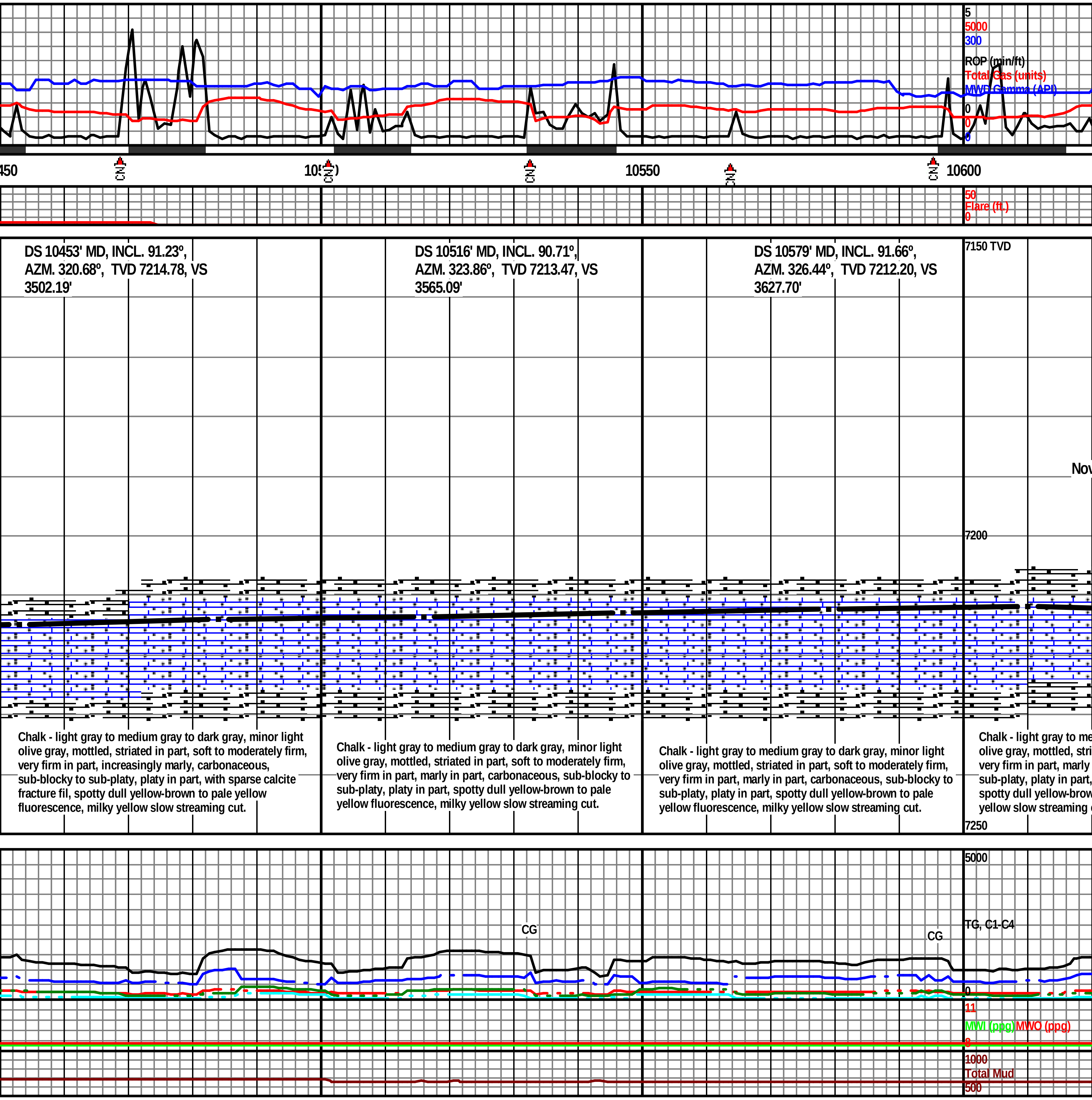

5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
9950
10000
10050
10100
CN
50
Flare (ft.)
0
MD, INCL. 86.77º,
52º, TVD 7223.83, VS
DS 10010' MD, INCL. 88.95º,
AZM. 321.27º, TVD 7226.19, VS
3059.95'
DS 10073' MD, INCL. 88.58º,
AZM. 319.04º, TVD 7227.38, VS
3122.93'
Hole became tight, reame
to 10,217'
November 5, 2010
7200
inor light
ately firm,
s,
nt calcite
ow
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, with abundant white bentonite, soft to moderately firm, bright yellow mineral fluorescence, spotty dull yellow-brown fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, moderately firm to hard, traces marly, arbonaceous, sub-blocky to sub-platy, fissile, abundant off white to light gray bentonite / anhydritic to chalky in part, non calcareous with carbonaceous, with sparse druzy pyrite, with increasingly abundant white bentonite, soft to moderately firm, bright yellow mineral fluorescence, spotty dull yellow-brown fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, tracesvery marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, with abundant white bentonite, soft to moderately firm, bright yellow mineral fluorescence, spotty dull yellow-brown fluorescence, milky yellow slow streaming cut.
Chalk/ M
moderat
to sub-p
with spa
soft to m
fluoresc
milky ye
7250
5000
CG
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500



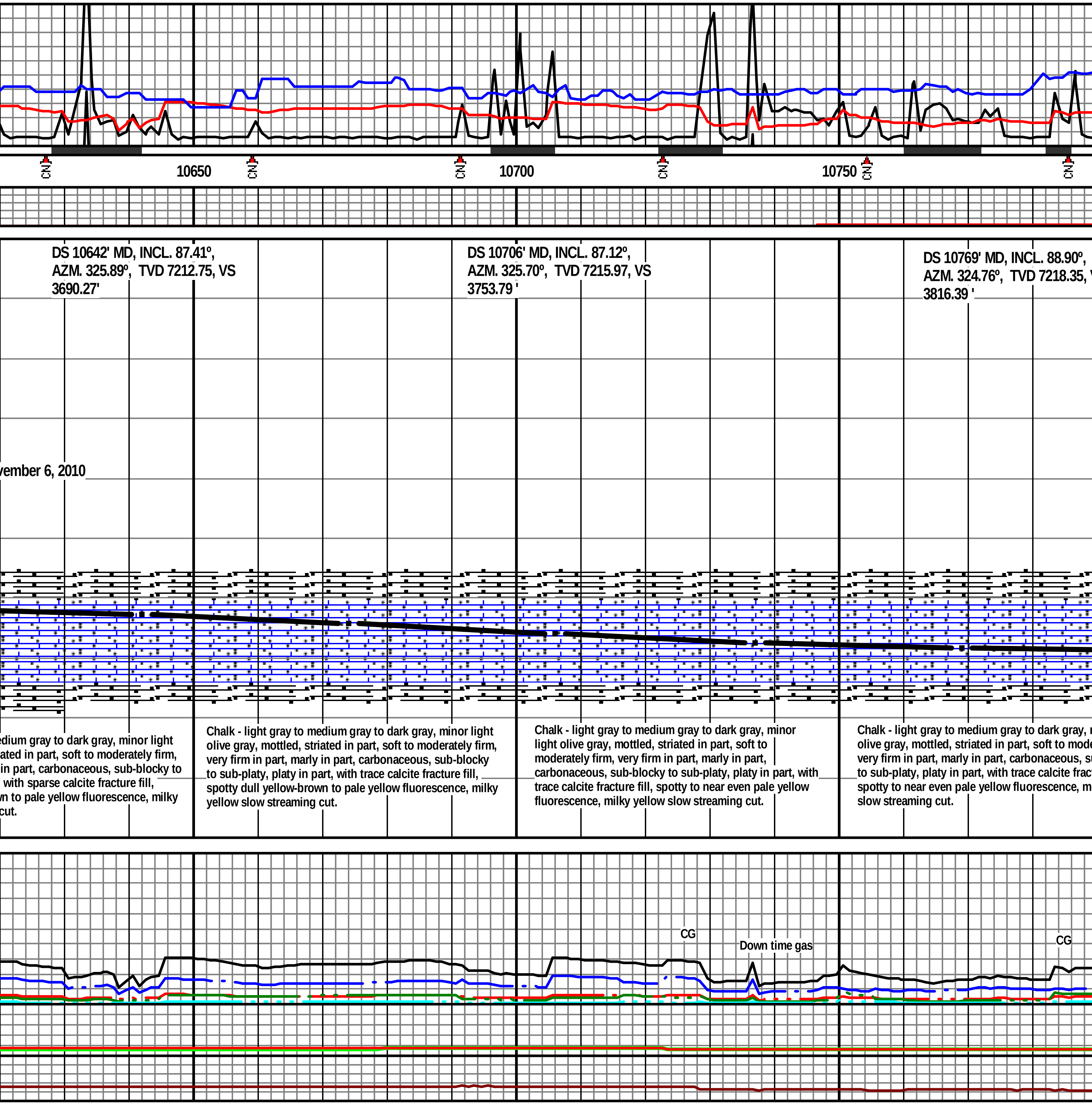
5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
CN
10150
10200
250
50
Flare (ft.)
0
DS 10136' MD, INCL. 90.18º, AZM. 316.85º, TVD 7226.84, VS 3185.83'
DS 10200' MD, INCL. 92.16º, AZM. 316.14º, TVD 7226.36, VS 3249.78'
DS 10263' MD, INCL. 92
AZM. 315.82º, TVD 722
3312.58'
d from 10,038'
WPT #5 @ 10,200' MD From 3250' VS - 7222' TVD (Disregard)
7216'
7200
Marl - dark gray to medium gray, mottled, soft to
ely firm, very marly, carbonaceous, sub-blocky
platy, fissile, chalky in part, with carbonaceous,
arse druzy pyrite, with abundant white bentonite,
moderately firm, bright yellow mineral
ence, spotty dull yellow-brown fluorescence,
llow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, with abundant white bentonite, soft to moderately firm, bright yellow mineral fluorescence, spotty dull yellow-brown fluorescence, milky yellow slow streaming cut.
Chalk/ Marl - dark gray to medium gray, mottled, soft to moderately firm, very marly, carbonaceous, sub-blocky to sub-platy, fissile, chalky in part, with carbonaceous, with sparse druzy pyrite, with abundant white bentonite, soft to moderately firm, bright yellow mineral fluorescence, spotty dull yellow-brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to
olive gray, mottled, striated in part,
very firm in part, increasingly marly,
sub-blocky to sub-platy, platy in pa
fracture fil, spotty dull yellow-brown
fluorescence, milky yellow slow stre
7250
5000
TG, C1-C4
CG
CG
CG
Mud Rpt
Depth 10,216'
WT. 8.4
VIS 28
PV/YP 1/1
WL nc
pH 7.8
Cl 1000
Ca 480
Sol. 0.60
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500



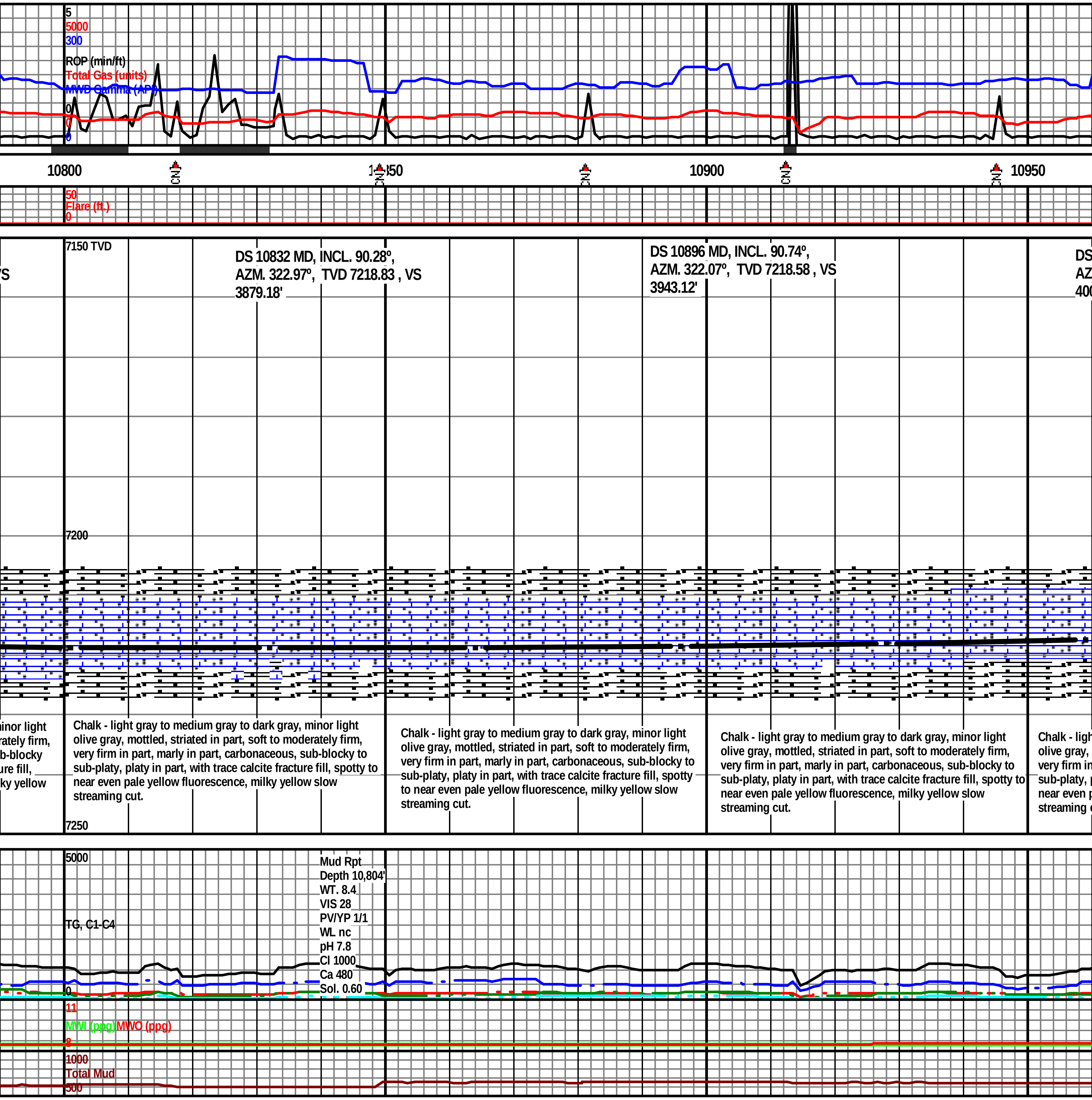
5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
CN
10300
10350
10400
50
Flare (ft.)
0
.78º,
3.78, VS
DS 10326' MD, INCL. 93.32º, AZM. 316.28º, TVD 7220.21, VS 3375.37'
DS 10389' MD, INCL. 92.60º, AZM. 318.61º, TVD 7216.92, VS 3438.24'
7200
o dark gray, minor light
soft to moderately firm,
, carbonaceous,
rt, with sparse calcite
n to pale yellow
eaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse calcite fracture fil, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse calcite fracture fil, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse calcite fracture fil, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
7250
5000
G
CG
CG
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500



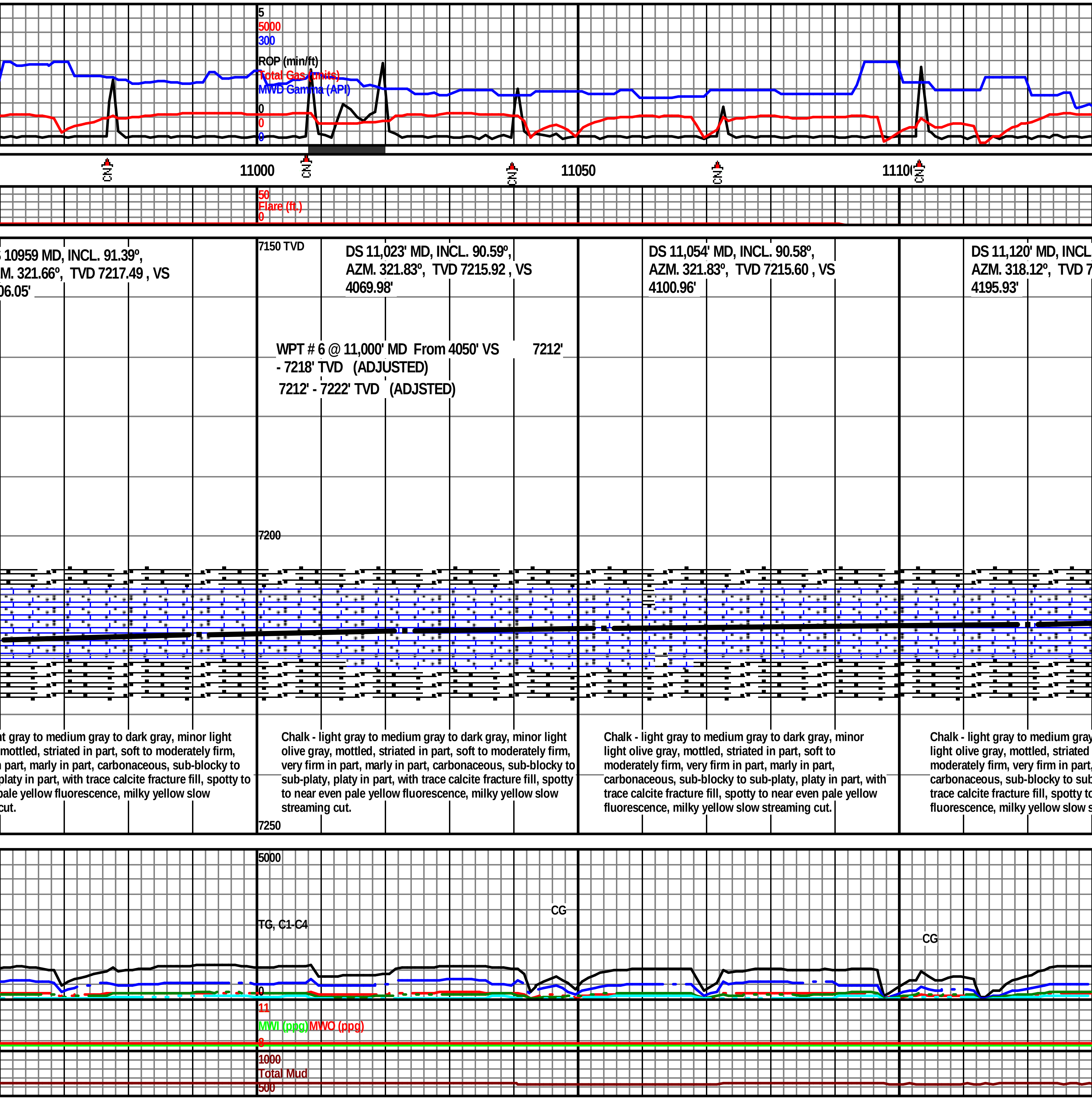
5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
450
CN
10500
CN
CN
10550
CN
CN
10600
50
Flare (ft.)
0
DS 10453' MD, INCL. 91.23º, AZM. 320.68º, TVD 7214.78, VS 3502.19'
DS 10516' MD, INCL. 90.71º, AZM. 323.86º, TVD 7213.47, VS 3565.09'
DS 10579' MD, INCL. 91.66º, AZM. 326.44º, TVD 7212.20, VS 3627.70'
7150 TVD
Nov
7200
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, increasingly marly, carbonaceous, sub-blocky to sub-platy, platy in part, with sparse calcite fracture fil, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to me
olive gray, mottled, stri
very firm in part, marly
sub-platy, platy in part,
spotty dull yellow-brow
yellow slow streaming
7250
5000
CG
CG
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

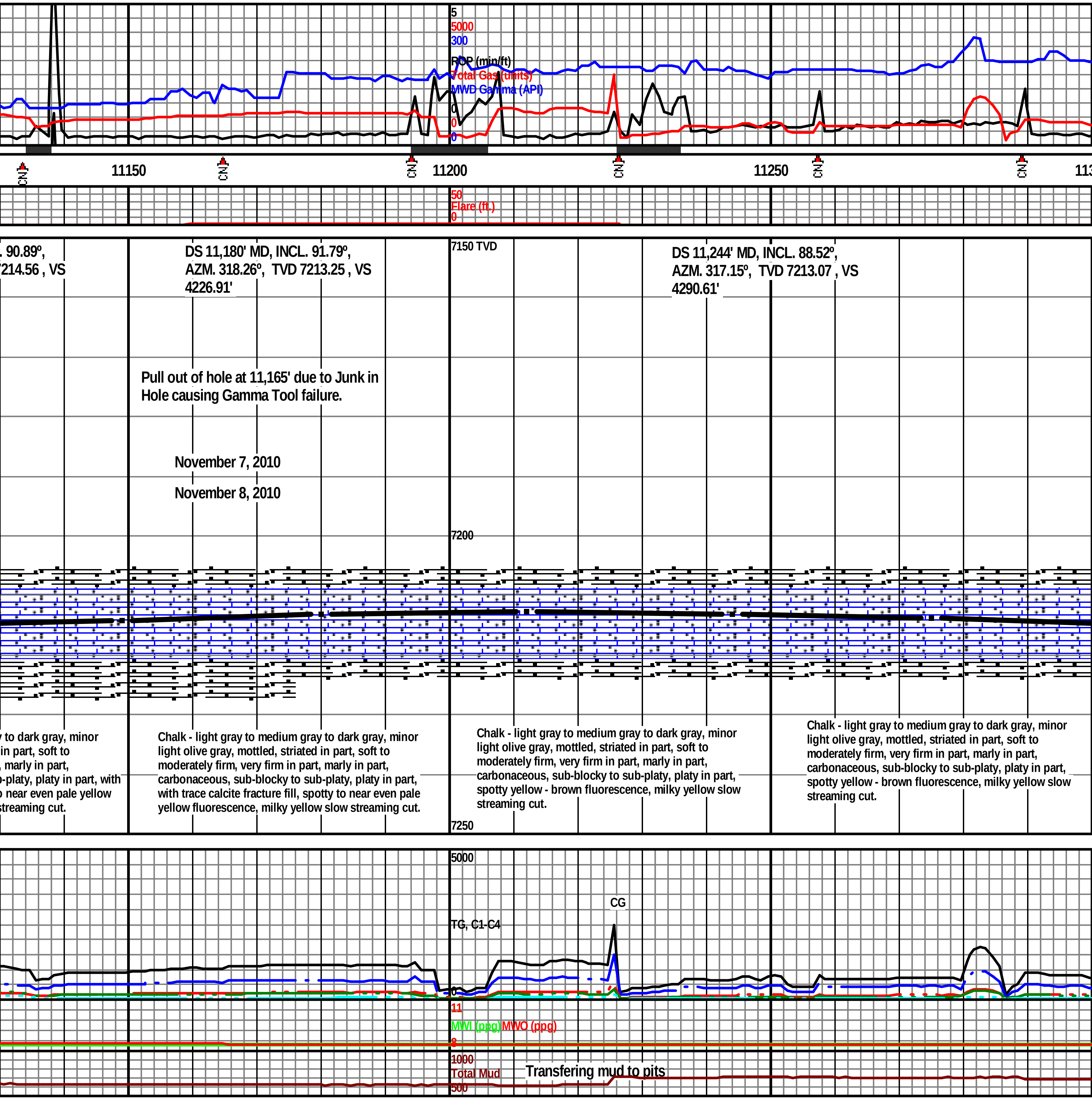


CN
10650
CN
CN
10700
CN
10750
CN
CN
DS 10642' MD, INCL. 87.41º, AZM. 325.89º, TVD 7212.75, VS 3690.27'
DS 10706' MD, INCL. 87.12º, AZM. 325.70º, TVD 7215.97, VS 3753.79 '
DS 10769' MD, INCL. 88.90º, AZM. 324.76º, TVD 7218.35, V
3816.39 '
vember 6, 2010
edium gray to dark gray, minor light
ated in part, soft to moderately firm,
in part, carbonaceous, sub-blocky to
with sparse calcite fracture fill,
n to pale yellow fluorescence, milky
cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, with trace calcite fracture fill, spotty dull yellow-brown to pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, with trace calcite fracture fill, spotty to near even pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, m
olive gray, mottled, striated in part, soft to moder
very firm in part, marly in part, carbonaceous, su
to sub-platy, platy in part, with trace calcite fractu
spotty to near even pale yellow fluorescence, mil
slow streaming cut.
CG
Down time gas
CG

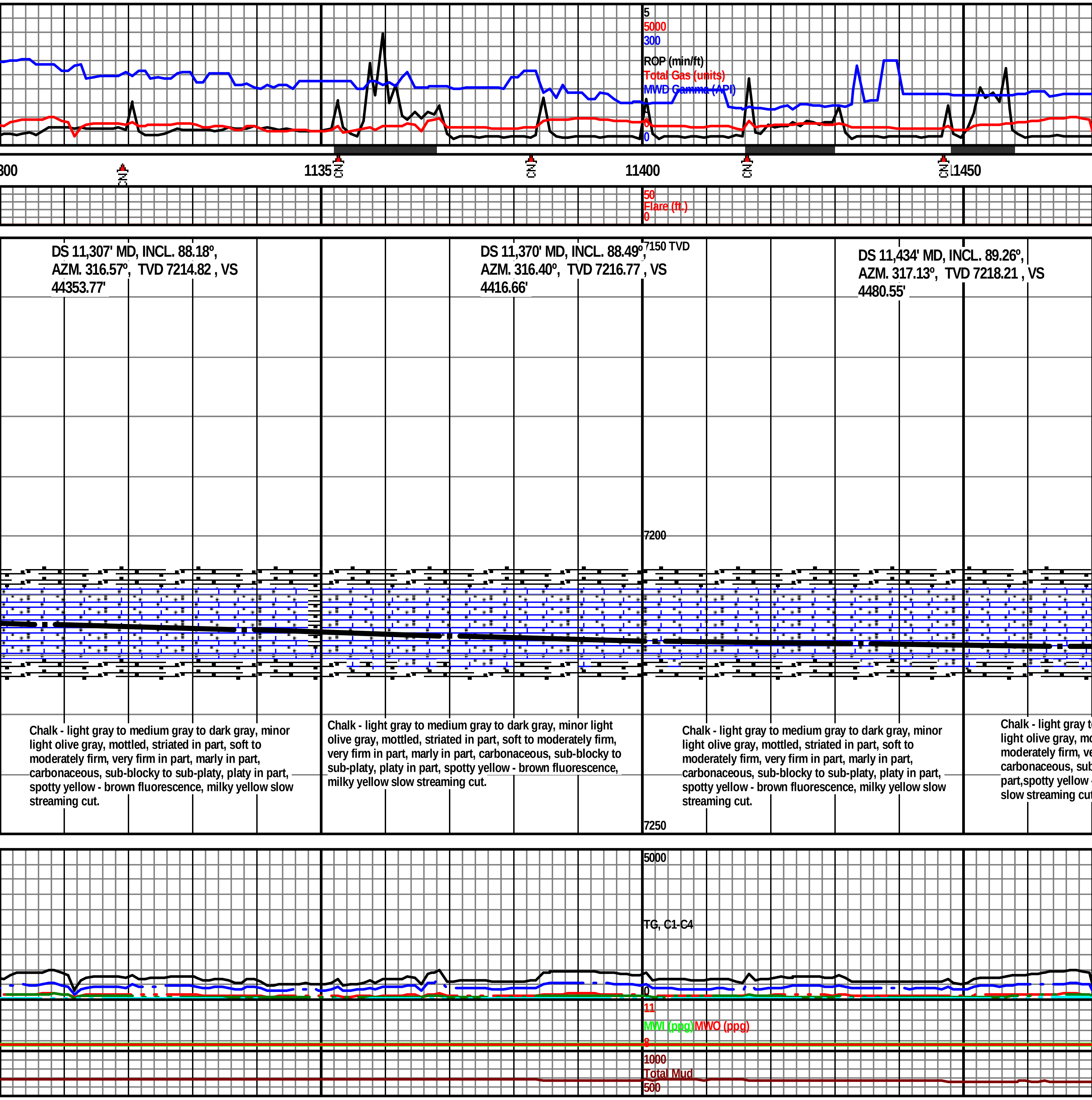


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
10800
10850
10900
10950
CN
50
Flare (ft.)
0
7150 TVD
DS 10832 MD, INCL. 90.28º, AZM. 322.97º, TVD 7218.83 , VS 3879.18'
DS 10896 MD, INCL. 90.74º, AZM. 322.07º, TVD 7218.58 , VS 3943.12'
7200
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, with trace calcite fracture fill, spotty to near even pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, with trace calcite fracture fill, spotty to near even pale yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, with trace calcite fracture fill, spotty to near even pale yellow fluorescence, milky yellow slow streaming cut.
7250
5000
TG, C1-C4
Mud Rpt
Depth 10,804'
WT. 8.4
VIS 28
PV/YP 1/1
WL nc
pH 7.8
Cl 1000
Ca 480
Sol. 0.60
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

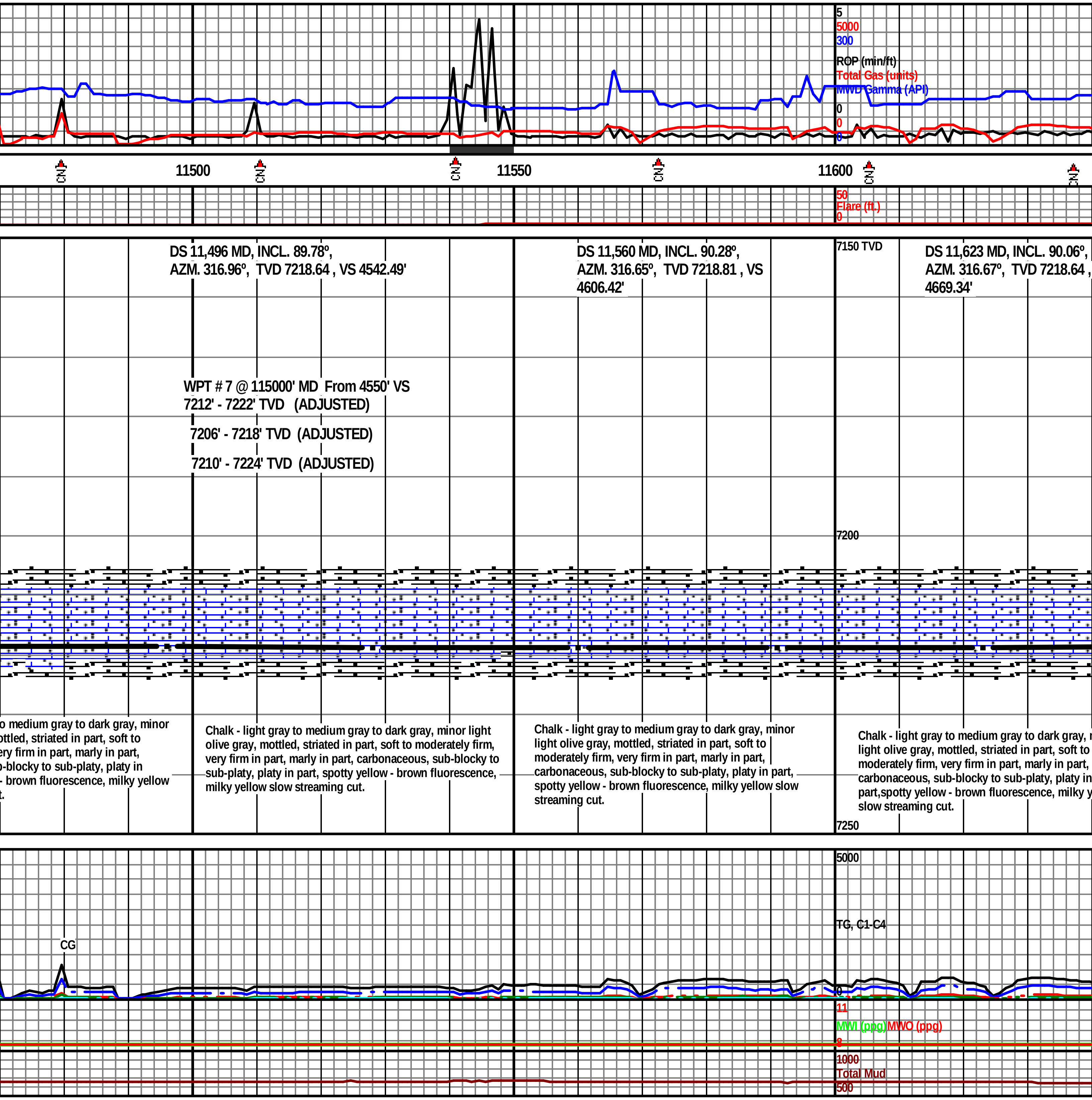

5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
CN
11000
CN
CN
11050
CN
1110(
CN
50
Flare (ft.)
0
7150 TVD
S 10959 MD, INCL. 91.39º,
M. 321.66º, TVD 7217.49 , VS
06.05'
DS 11,023' MD, INCL. 90.59º,
AZM. 321.83º, TVD 7215.92 , VS
4069.98'
DS 11,054' MD, INCL. 90.58º,
AZM. 321.83º, TVD 7215.60 , VS
4100.96'
DS 11,120' MD, INCL
AZM. 318.12º, TVD 7
4195.93'
WPT # 6 @ 11,000' MD From 4050' VS 7212'
- 7218' TVD (ADJUSTED)
7212' - 7222' TVD (ADJSTED)
7200
ht gray to medium gray to dark gray, minor light
mottled, striated in part, soft to moderately firm,
n part, marly in part, carbonaceous, sub-blocky to
platy in part, with trace calcite fracture fill, spotty to
pale yellow fluorescence, milky yellow slow
cut.
Chalk - light gray to medium gray to dark gray, minor light
olive gray, mottled, striated in part, soft to moderately firm,
very firm in part, marly in part, carbonaceous, sub-blocky to
sub-platy, platy in part, with trace calcite fracture fill, spotty
to near even pale yellow fluorescence, milky yellow slow
streaming cut.
Chalk - light gray to medium gray to dark gray, minor
light olive gray, mottled, striated in part, soft to
moderately firm, very firm in part, marly in part,
carbonaceous, sub-blocky to sub-platy, platy in part, with
trace calcite fracture fill, spotty to near even pale yellow
fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray
light olive gray, mottled, striated
moderately firm, very firm in part,
carbonaceous, sub-blocky to sub
trace calcite fracture fill, spotty to
fluorescence, milky yellow slow s
7250
5000
CG
TG, C1-C4
CG
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

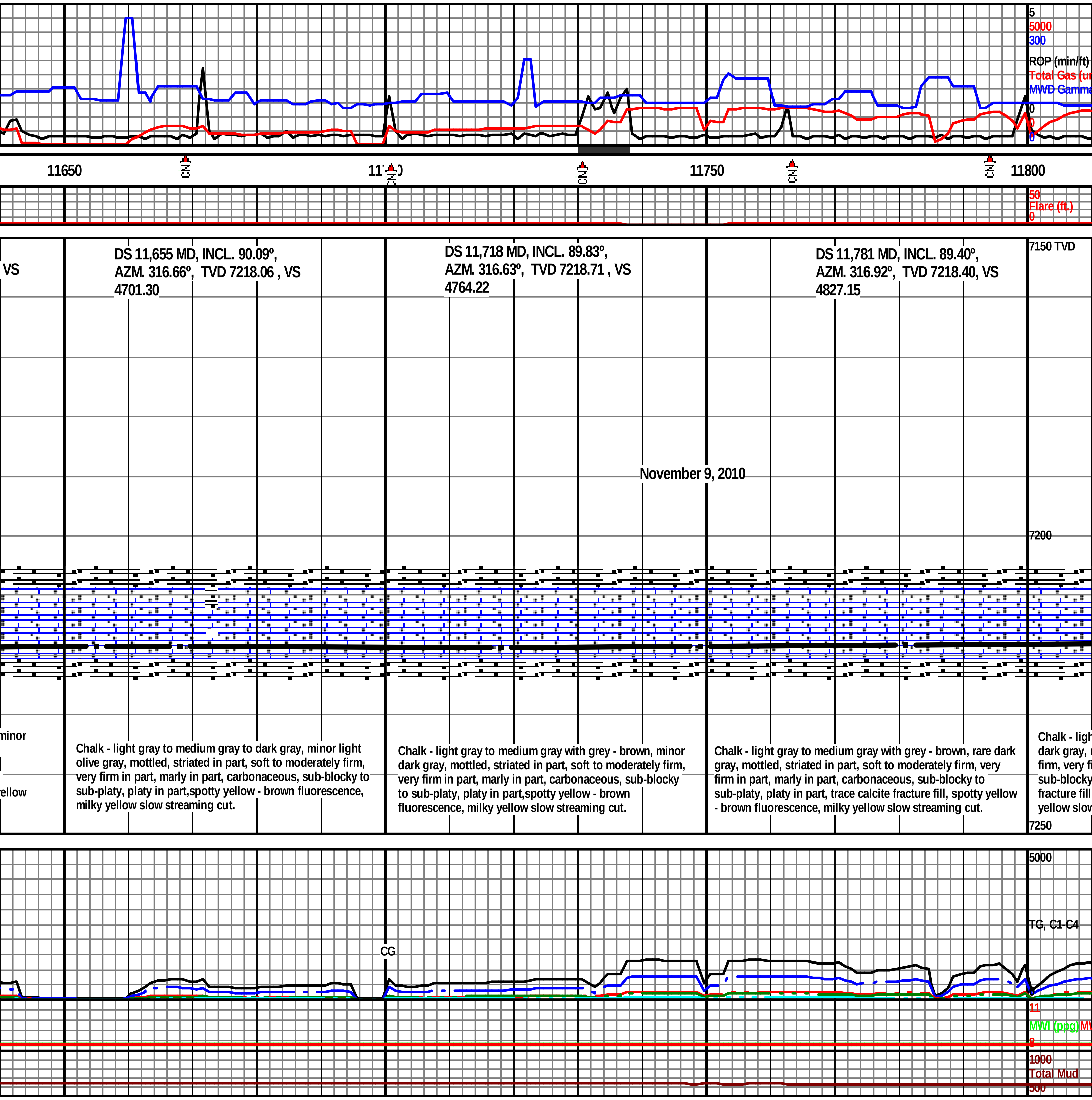


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
11150
11200
11250
CN
50
Flare (ft.)
0
. 90.89º,
7214.56 , VS
DS 11,180' MD, INCL. 91.79º,
AZM. 318.26º, TVD 7213.25 , VS
4226.91'
7150 TVD
DS 11,244' MD, INCL. 88.52º,
AZM. 317.15º, TVD 7213.07 , VS
4290.61'
Pull out of hole at 11,165' due to Junk in
Hole causing Gamma Tool failure.
November 7, 2010
November 8, 2010
7200
y to dark gray, minor
in part, soft to
, marly in part,
b-platy, platy in part, with
o near even pale yellow
streaming cut.
Chalk - light gray to medium gray to dark gray, minor
light olive gray, mottled, striated in part, soft to
moderately firm, very firm in part, marly in part,
carbonaceous, sub-blocky to sub-platy, platy in part,
with trace calcite fracture fill, spotty to near even pale
yellow fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor
light olive gray, mottled, striated in part, soft to
moderately firm, very firm in part, marly in part,
carbonaceous, sub-blocky to sub-platy, platy in part,
spotty yellow - brown fluorescence, milky yellow slow
streaming cut.
Chalk - light gray to medium gray to dark gray, minor
light olive gray, mottled, striated in part, soft to
moderately firm, very firm in part, marly in part,
carbonaceous, sub-blocky to sub-platy, platy in part,
spotty yellow - brown fluorescence, milky yellow slow
streaming cut.
7250
5000
CG
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500
Transfering mud to pits

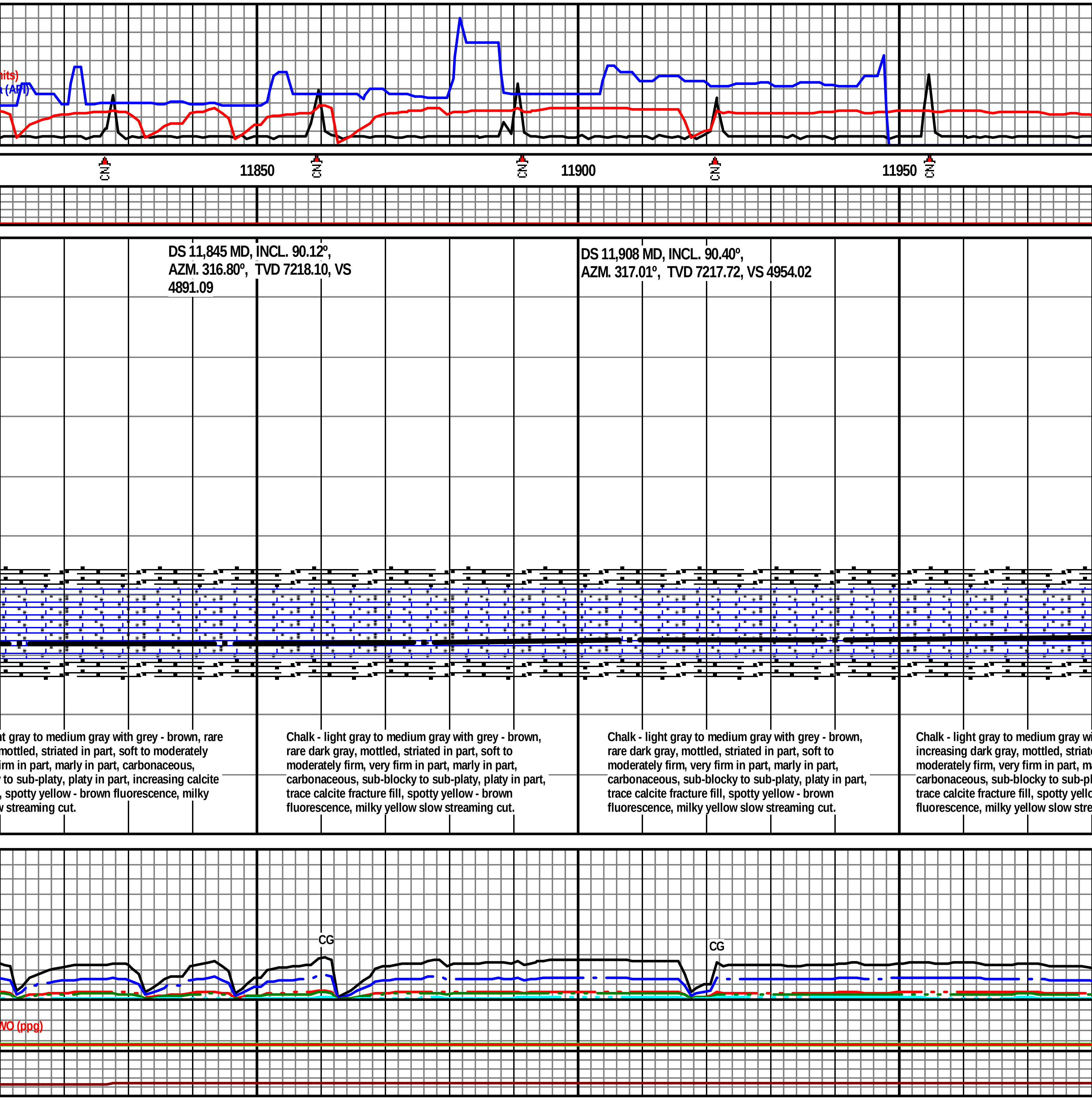


5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
300
CN
1135
CN
CN
11400
CN
CN
1450
50
Flare (ft.)
0
DS 11,307' MD, INCL. 88.18º, AZM. 316.57º, TVD 7214.82 , VS 44353.77'
DS 11,370' MD, INCL. 88.49º, AZM. 316.40º, TVD 7216.77 , VS 4416.66'
7150 TVD
DS 11,434' MD, INCL. 89.26º, AZM. 317.13º, TVD 7218.21 , VS 4480.55'
7200
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray t
light olive gray, mo
moderately firm, ve
carbonaceous, sub
part,spotty yellow
slow streaming cut
7250
5000
TG, C1-C4
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500

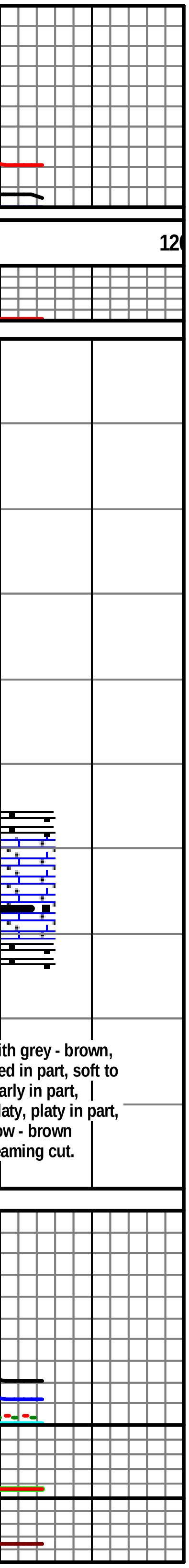

5
5000
300
ROP (min/ft)
Total Gas (units)
MWD Gamma (API)
0
0
0
CN
11500
CN
CN
11550
CN
11600
CN
CN
50
Flare (ft.)
0
DS 11,496 MD, INCL. 89.78º, AZM. 316.96º, TVD 7218.64 , VS 4542.49'
WPT # 7 @ 115000' MD From 4550' VS 7212' - 7222' TVD (ADJUSTED)
7206' - 7218' TVD (ADJUSTED)
7210' - 7224' TVD (ADJUSTED)
DS 11,560 MD, INCL. 90.28º, AZM. 316.65º, TVD 7218.81 , VS 4606.42'
7150 TVD
DS 11,623 MD, INCL. 90.06º, AZM. 316.67º, TVD 7218.64 , 4669.34'
7200
o medium gray to dark gray, minor ottled, striated in part, soft to ery firm in part, marly in part, b-blocky to sub-platy, platy in - brown fluorescence, milky yellow t.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray to dark gray, light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part,spotty yellow - brown fluorescence, milky y slow streaming cut.
7250
5000
TG, C1-C4
CG
0
11
MWI (ppg) MWO (ppg)
8
1000
Total Mud
500



5
5000
300
ROP (min/ft)
Total Gas (u
MWD Gamma
0
0
0
11650
11700
11750
11800
CN
50
Flare (ft.)
0
VS
DS 11,655 MD, INCL. 90.09º, AZM. 316.66º, TVD 7218.06 , VS 4701.30
DS 11,718 MD, INCL. 89.83º, AZM. 316.63º, TVD 7218.71 , VS 4764.22
DS 11,781 MD, INCL. 89.40º, AZM. 316.92º, TVD 7218.40, VS 4827.15
7150 TVD
November 9, 2010
7200
minor
ellow
Chalk - light gray to medium gray to dark gray, minor light olive gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part,spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray with grey - brown, minor dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part,spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray with grey - brown, rare dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite fracture fill, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - ligh
dark gray,
firm, very fi
sub-blocky
fracture fill
yellow slow
7250
5000
TG, C1-C4
CG
11
MWI (ppg) MV
8
1000
Total Mud
500



its)
(API)
CN
11850
CN
CN
11900
CN
11950
CN
DS 11,845 MD, INCL. 90.12°, AZM. 316.80°, TVD 7218.10, VS 4891.09
DS 11,908 MD, INCL. 90.40°, AZM. 317.01°, TVD 7217.72, VS 4954.02
t gray to medium gray with grey - brown, rare mottled, striated in part, soft to moderately irm in part, marly in part, carbonaceous, to sub-platy, platy in part, increasing calcite , spotty yellow - brown fluorescence, milky w streaming cut.
Chalk - light gray to medium gray with grey - brown, rare dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite fracture fill, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray with grey - brown, rare dark gray, mottled, striated in part, soft to moderately firm, very firm in part, marly in part, carbonaceous, sub-blocky to sub-platy, platy in part, trace calcite fracture fill, spotty yellow - brown fluorescence, milky yellow slow streaming cut.
Chalk - light gray to medium gray wi increasing dark gray, mottled, striat moderately firm, very firm in part, m carbonaceous, sub-blocky to sub-pl trace calcite fracture fill, spotty yello fluorescence, milky yellow slow stre
CG
CG
WO (ppg)


12
ith grey - brown,
ed in part, soft to
arly in part,
aty, platy in part,
w - brown
aming cut.