GOOLSBY BROTHERS
and associates, inc.
575 Union Blvd, Suite 208
Lakewood, CO 80228
303-945-2860 Office
Geological Wellsite
Supervision
PETCOM
www.goolsbybrothers.com

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

Well Name:	Critter Creek 18-22H (Horizontal Hole Section)		
Location:	Section 22, T11N, R63W, Weld County, CO.		
License Number:	API: 05-123-31738	Region:	DJ-LA Basin - Hereford
Spud Date:	August 30, 2010	Drilling Completed:	September 11, 2010
Surface Coordinates:	NWNW Sec 22 T11N R63W; 501 FNL 501 FWL Lat N 40.913775, Long W -104.426139		
Bottom Hole Coordinates:	SESE Sec 22, T11N, R63W; 630 FSL 1194 FEL		
Ground Elevation (ft):	5239'	K.B. Elevation (ft):	5264'
Logged Interval (ft):	1365' To: 12564'	Total Depth (ft):	12605' MTD, 5436' VS
Formation:	Pierre Sands/Shales, Niobrara (Kn), Kn "B" Chalk		
Type of Drilling Fluid:	Water & Poly to 4400', LSND 4400'-7645', Water w/ UBD System 12605' MTD		

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

OPERATOR

Company: Energy Oppurtunity & Growth (EOG)
Address: 600 17th St., Ste. 1000
Denver, CO 80202
Co. Geologist John Melby

E-logs

MWD GR 1,365' - 12,564'

Logs & Casing

9 5/8" Surface Casing set @ 1365'
7" Intermediate Casing set @ 7645'
4 1/2" Production Liner hung 09/14/10

1) Drilling Contractor: True Drilling, Rig
Toolpusher: JR Kirton & Greg E
2) Company Man: Keith Karow, Dan
Engineer: Pat Gilli
4) Directional Drilling: Halliburton
Drillers: Justin Koenen & M
MWD: Rodney Stanfield
5) UBD System: Weatherford
6) Gas Equipment: Mudlogging Systems
by Terra Services
Redbox # ML-198 & Ratcliff Agitator

Anhy
Bent
Brec
Cht
Clyst
Coal

Co
Do
Gy
Ig
Lr
Mc

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
Sulphu
Tuff

FOSSIL
Algae
Amph
Belm
Bioclst
Brach
Bryozo
Cephal
Coral

Comments

#30
Eckert
ny Cook
and

Mark Price
& Jonathan Parrish

Inc.

3) Mud Company : Quest Drilling Fluids

OTHER SYMBOLS

POROSITY TYPE
Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

SORTING
Well
Moderate
Poor

ROUNDING
Rounded
Subrnd
Subang
Angular

OIL SHOWS
Even
Spotted
Ques
Dead
Vspotty
near even

INTERVALS
Core
Dst

ROCK TYPES

ongl
ol
yp
ne
mst
eta

Mrlst
Salt
Shale
Shcol
Shgy
Sltst

Ss
sltst
ssbig2
chalk
Carb chalk
Carb sh

ACCESSORIES

r
a

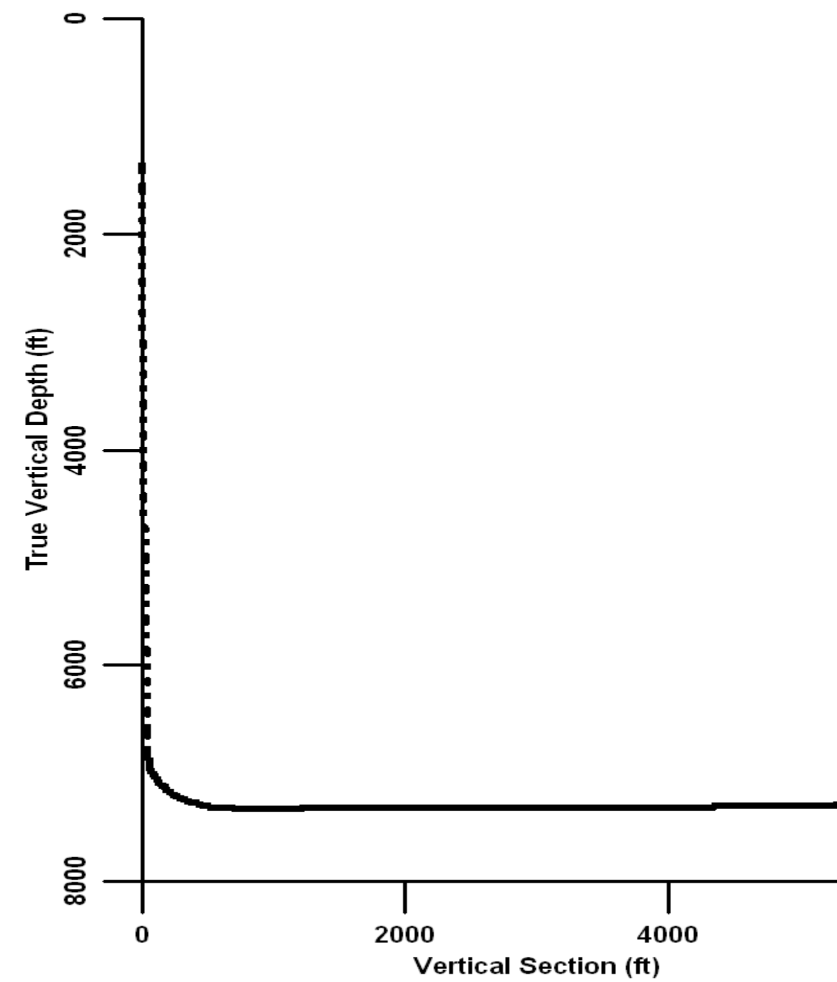
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

STRINGER
Chlkstg
Anhy
Arg
Bent
Coal

Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

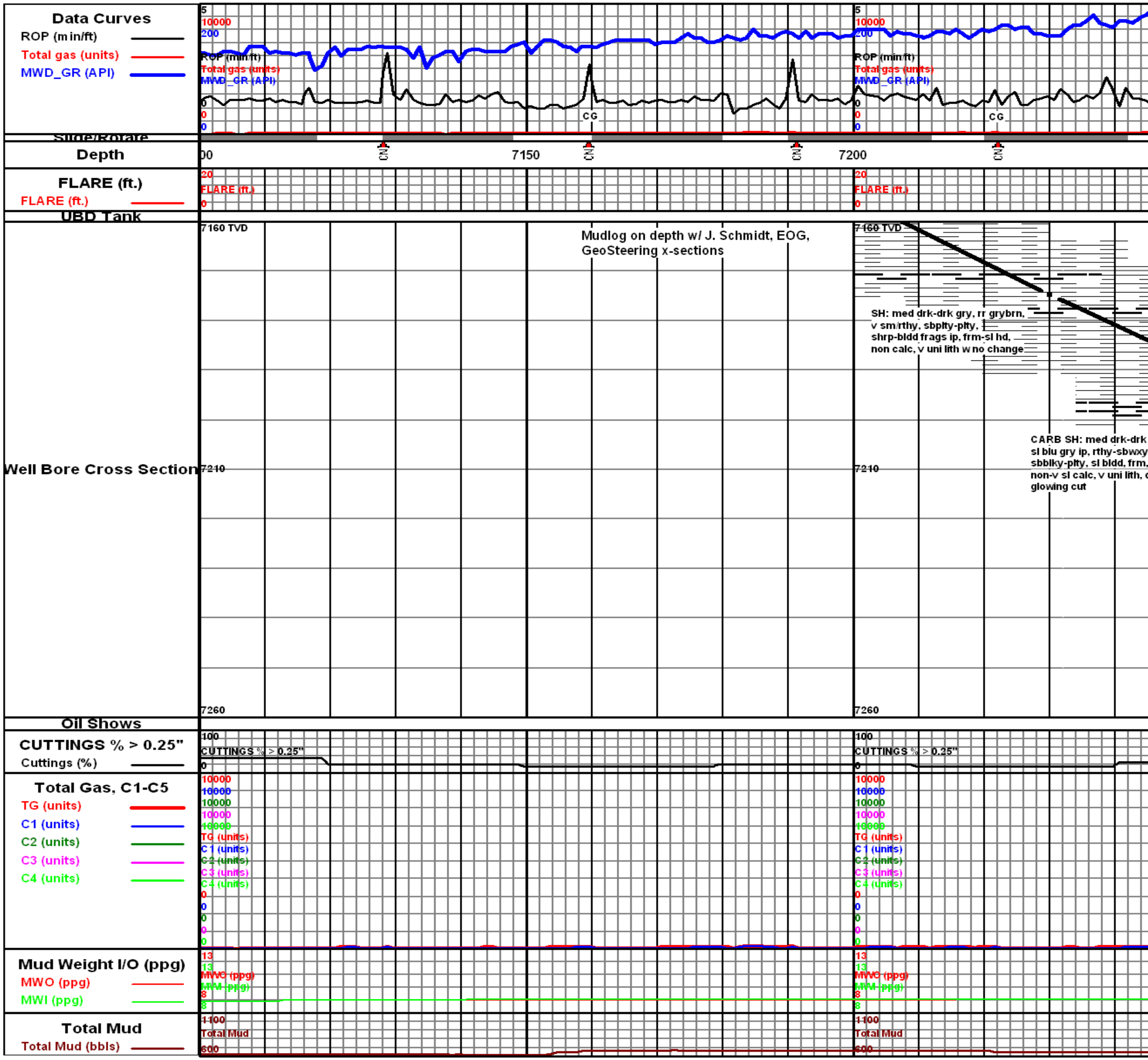
TEXTURE
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

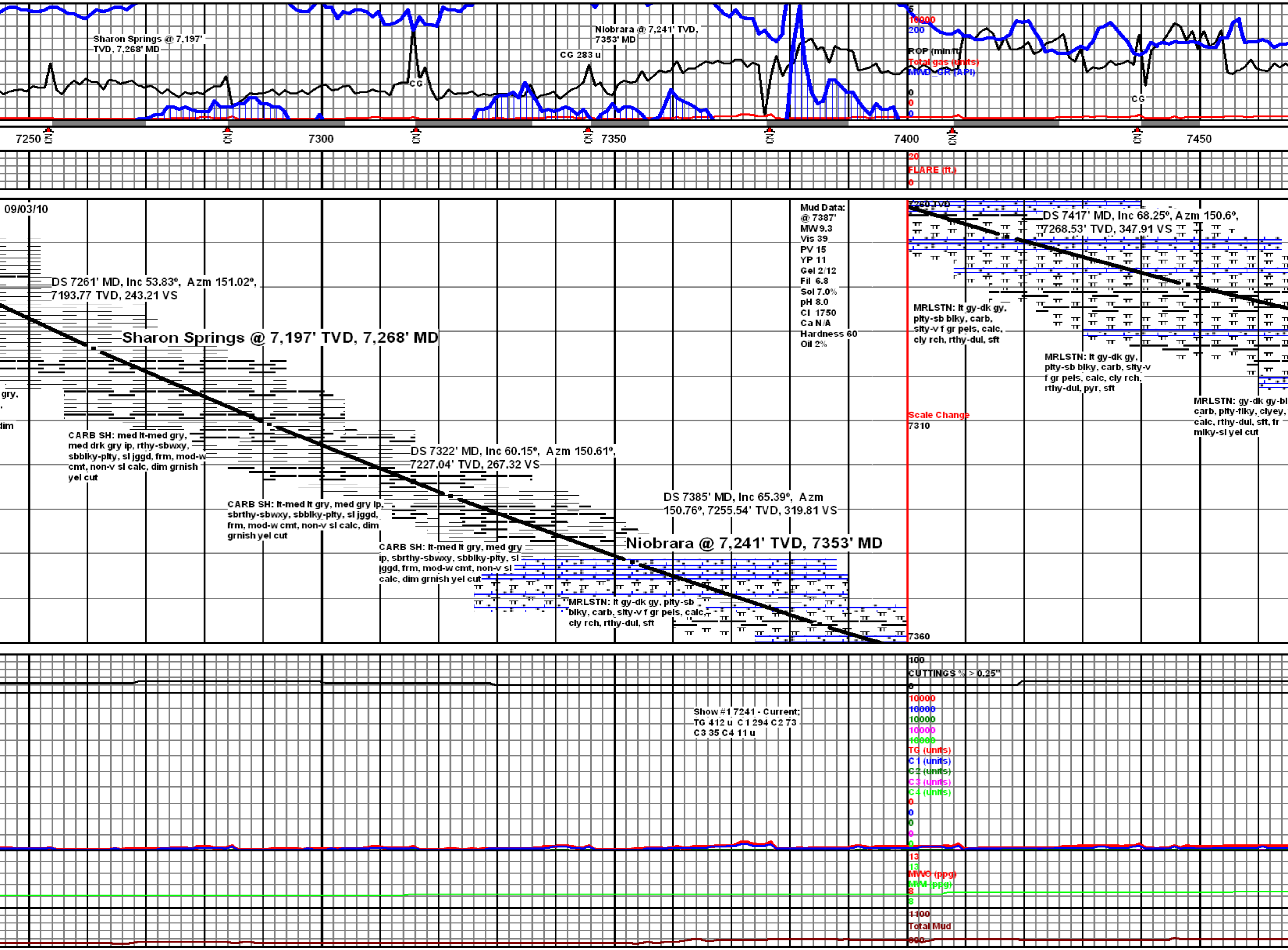
Elevation

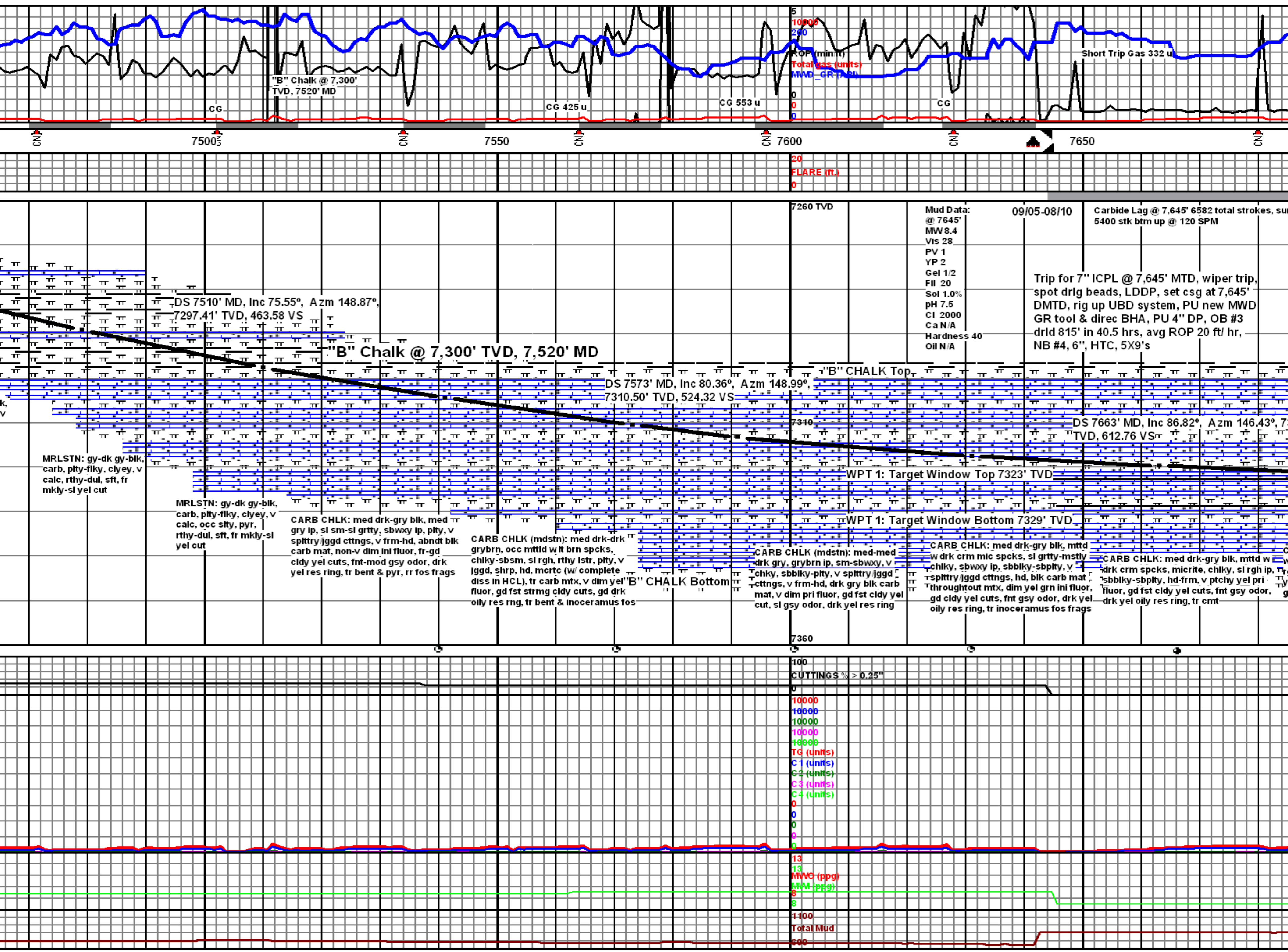


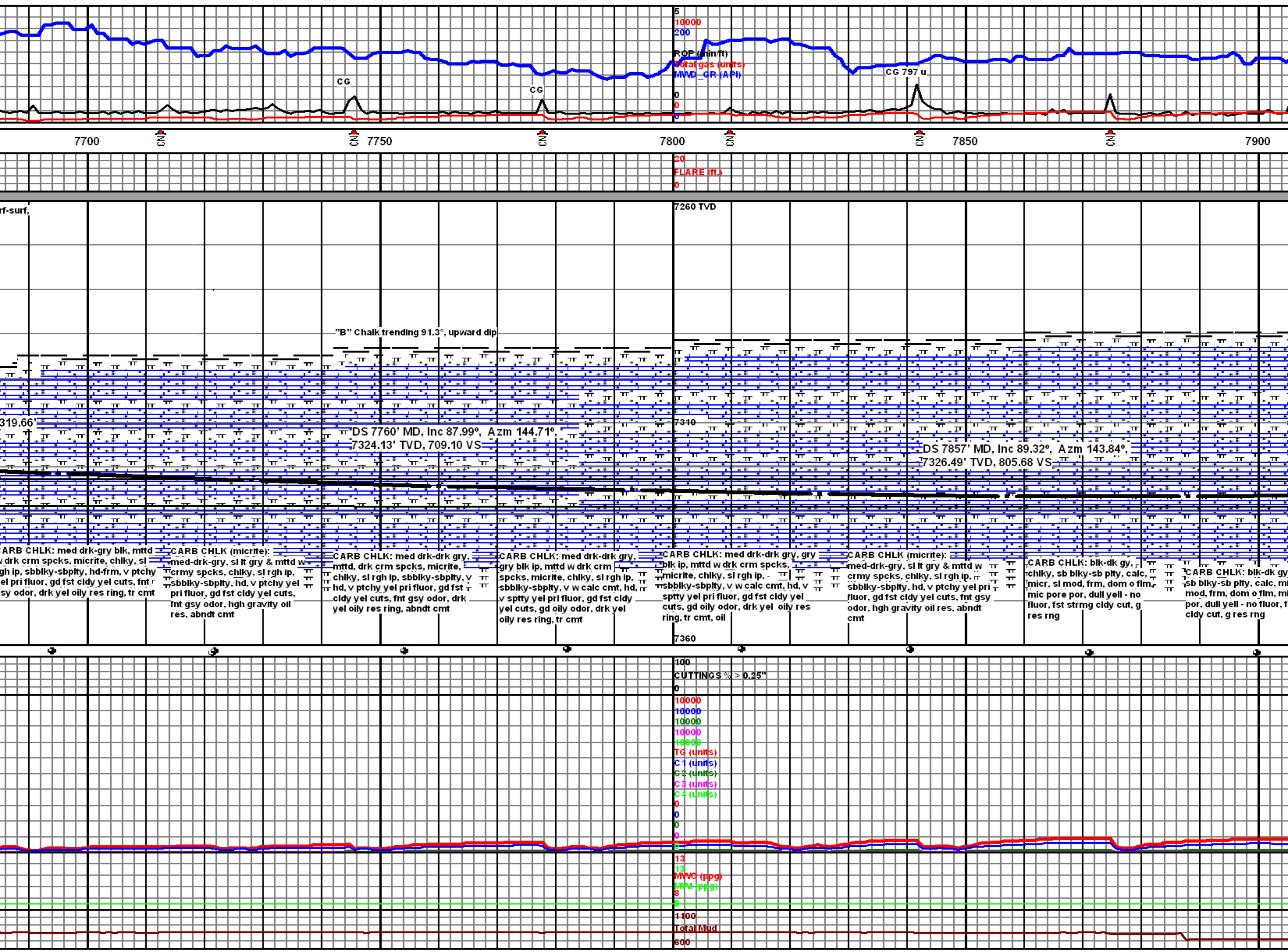
EVENTS
- Rft
- Sidewall
- Off bottom
- conn
- Survey(red)
- bit
- casingrh
- casingh

6000

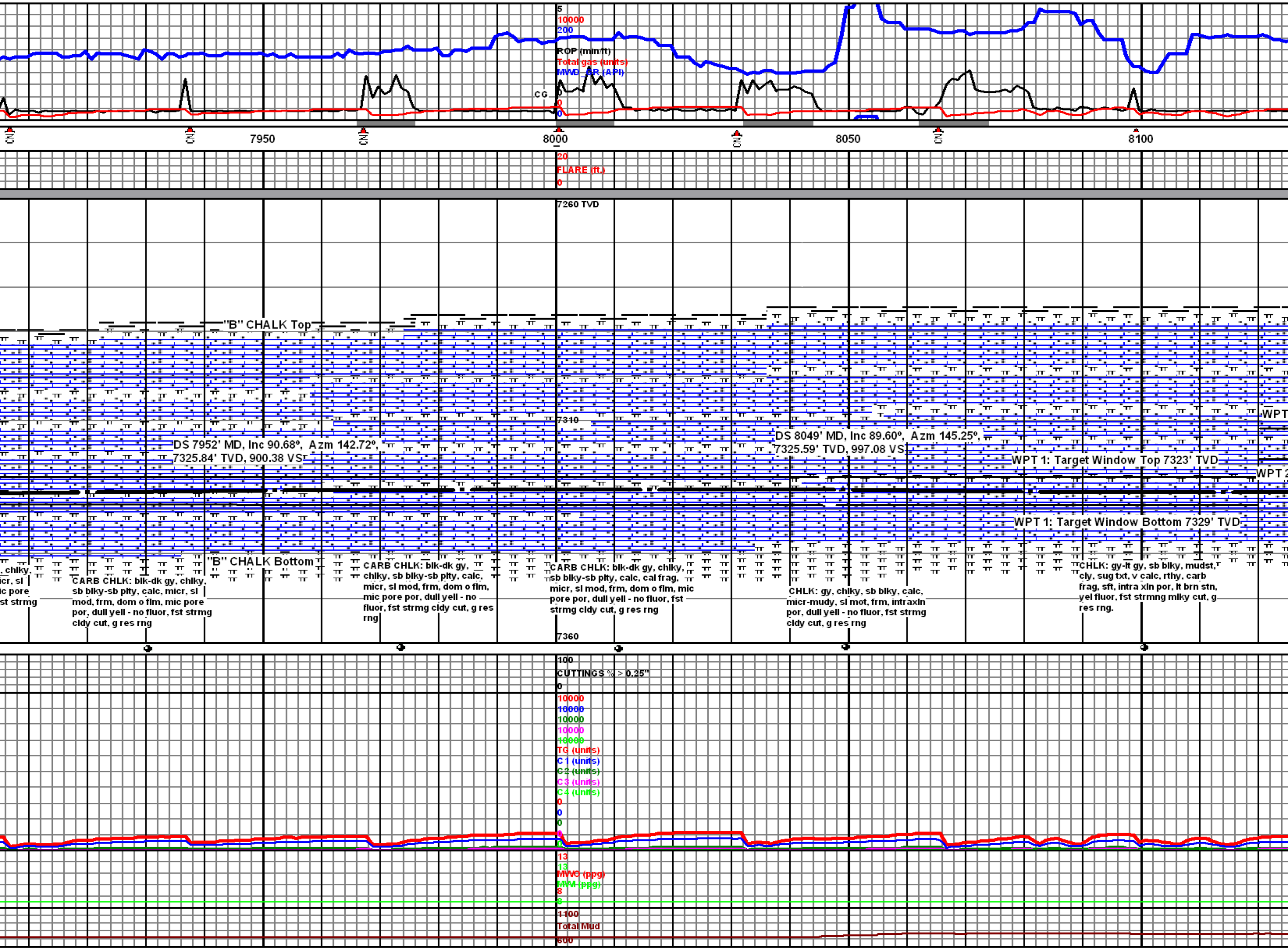



Sharon Springs @ 7,197' TVD, 7,268' MD
Niobrara @ 7,241' TVD, 7353' MD
CG 283 u
CG
ROP (min/ft)
Total gas (units)
MWD_GR (API)
7250
7300
7350
7400
7450
FLARE (ft.)
09/03/10
DS 7261' MD, Inc 53.83°, Azm 151.02°, 7193.77 TVD, 243.21 VS
Sharon Springs @ 7,197' TVD, 7,268' MD
CARB SH: med lt-med gry, med drk gry ip, rthy-sbwxy, sbblky-plty, sl jggd, frm, mod-w cmt, non-v sl calc, dim grnish yel cut
CARB SH: lt-med lt gry, med gry ip, sbrthy-sbwxy, sbblky-plty, sl jggd, frm, mod-w cmt, non-v sl calc, dim grnish yel cut
DS 7322' MD, Inc 60.15°, Azm 150.61°, 7227.04' TVD, 267.32 VS
CARB SH: lt-med lt gry, med gry ip, sbrthy-sbwxy, sbblky-plty, sl jggd, frm, mod-w cmt, non-v sl calc, dim grnish yel cut
DS 7385' MD, Inc 65.39°, Azm 150.76°, 7255.54' TVD, 319.81 VS
Niobrara @ 7,241' TVD, 7353' MD
MRLSTN: lt gy-dk gy, plty-sb blky, carb, slty-v f gr pels, calc, cly rch, rthy-dul, sft
Mud Data: @ 7387' MW 9.3 Vis 39 PV 15 YP 11 Gel 2/12 Fil 6.8 Sol 7.0% pH 8.0 Cl 1750 Ca N/A Hardness 60 Oil 2%
7260 TVD
DS 7417' MD, Inc 68.25°, Azm 150.6°, 7268.53' TVD, 347.91 VS
MRLSTN: lt gy-dk gy, plty-sb blky, carb, slty-v f gr pels, calc, cly rch, rthy-dul, sft
MRLSTN: lt gy-dk gy, plty-sb blky, carb, slty-v f gr pels, calc, cly rch, rthy-dul, pyr, sft
MRLSTN: gy-dk gy-bl carb, plty-flky, clyey, calc, rthy-dul, sft, fr mlky-sl yel cut
Scale Change
7310
7360
CUTTINGS % > 0.25"
Show #1 7241 - Current; TG 412 u C1 294 C2 73 C3 35 C4 11 u
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
MWO (ppg)
MWI (ppg)
Total Mud

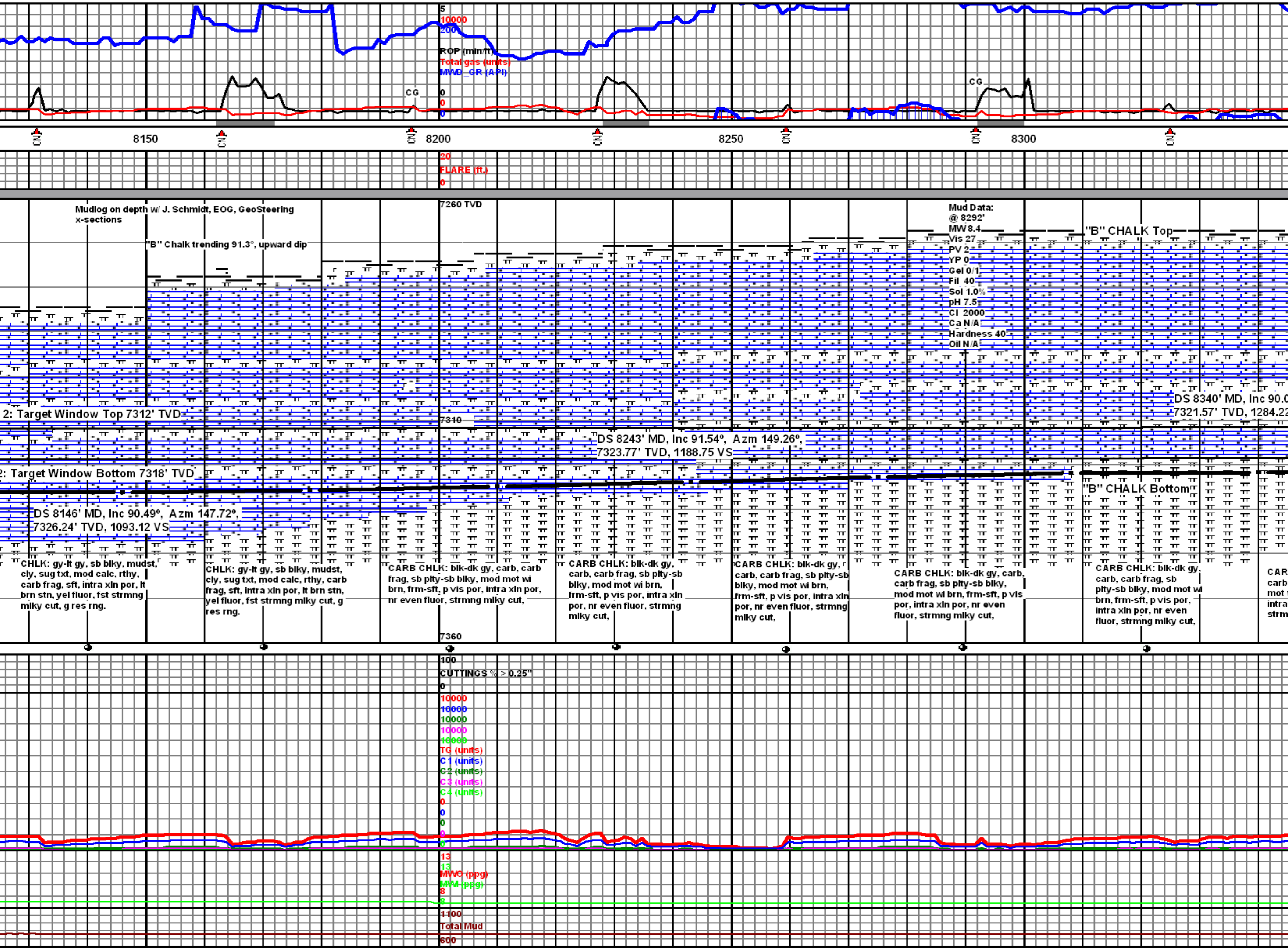

"B" Chalk @ 7,300' TVD, 7520' MD
CG
CG 425 u
CG 553 u
CG
Short Trip Gas 332 u
ROP (min/ft)
Total gas (units)
MWD_GR (API)
7500
7550
7600
7650
FLARE (ft.)
7260 TVD
7310
7360
Mud Data:
@ 7645'
MW 8.4
Vis 28
PV 1
YP 2
Gel 1/2
Fil 20
Sol 1.0%
pH 7.5
Cl 2000
Ca N/A
Hardness 40
Oil N/A
09/05-08/10
Carbide Lag @ 7,645' 6582 total strokes, su
5400 stk btm up @ 120 SPM
Trip for 7" ICPL @ 7,645' MTD, wiper trip, spot drlg beads, LDDP, set csg at 7,645' DMTD, rig up UBD system, PU new MWD GR tool & direc BHA, PU 4" DP, OB #3 drld 815' in 40.5 hrs, avg ROP 20 ft/ hr, NB #4, 6", HTC, 5X9's
DS 7510' MD, Inc 75.55°, Azm 148.87°, 7297.41' TVD, 463.58 VS
"B" Chalk @ 7,300' TVD, 7,520' MD
"B" CHALK Top
DS 7573' MD, Inc 80.36°, Azm 148.99°, 7310.50' TVD, 524.32 VS
DS 7663' MD, Inc 86.82°, Azm 146.43°, 7
TVD, 612.76 VS
WPT 1: Target Window Top 7323' TVD
WPT 1: Target Window Bottom 7329' TVD
"B" CHALK Bottom
MRLSTN: gy-dk gy-blk, carb, plty-flky, clyey, v calc, rthy-dul, sft, fr mkly-sl yel cut
MRLSTN: gy-dk gy-blk, carb, plty-flky, clyey, v calc, occ slty, pyr, rthy-dul, sft, fr mkly-sl yel cut
CARB CHLK: med drk-gry blk, med gry ip, sl sm-sl grtty, sbwxy ip, plty, v splttry/jggd cttngs, v frm-hd, abndt blk carb mat, non-v dim ini fluor, fr-gd cldy yel cuts, fnt-mod gsy odor, drk yel res ring, tr bent & pyr, rr fos frags
CARB CHLK (mdstn): med drk-drk grybrn, occ mttld w lt brn spcks, chlky-sbsm, sl rgh, rthy lstr, plty, v jggd, shrp, hd, mcrtc (w/ complete diss in HCL), tr carb mtx, v dim yel fluor, gd fst strmg cldy cuts, gd drk oily res rng, tr bent & inoceramus fos
CARB CHLK (mdstn): med-med drk gry, grybrn ip, sm-sbwxy, v chky, sbblky-plty, v splttry/jggd cttngs, v frm-hd, drk gry blk carb mat, v dim pri fluor, gd fst cldy yel cut, sl gsy odor, drk yel res ring
CARB CHLK: med drk-gry blk, mttd w drk crm mic spcks, sl grtty-mstly chlky, sbwxy ip, sbblky-sbplty, v splttry/jggd cttngs, hd, blk carb mat throughtout mtx, dim yel grn ini fluor, gd cldy yel cuts, fnt gsy odor, drk yel oily res ring, tr inoceramus fos frags
CARB CHLK: med drk-gry blk, mttd w drk crm spcks, micrite, chlky, sl rgh ip, sbblky-sbplty, hd-frm, v ptchy yel pri fluor, gd fst cldy yel cuts, fnt gsy odor, drk yel oily res ring, tr cmt
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600



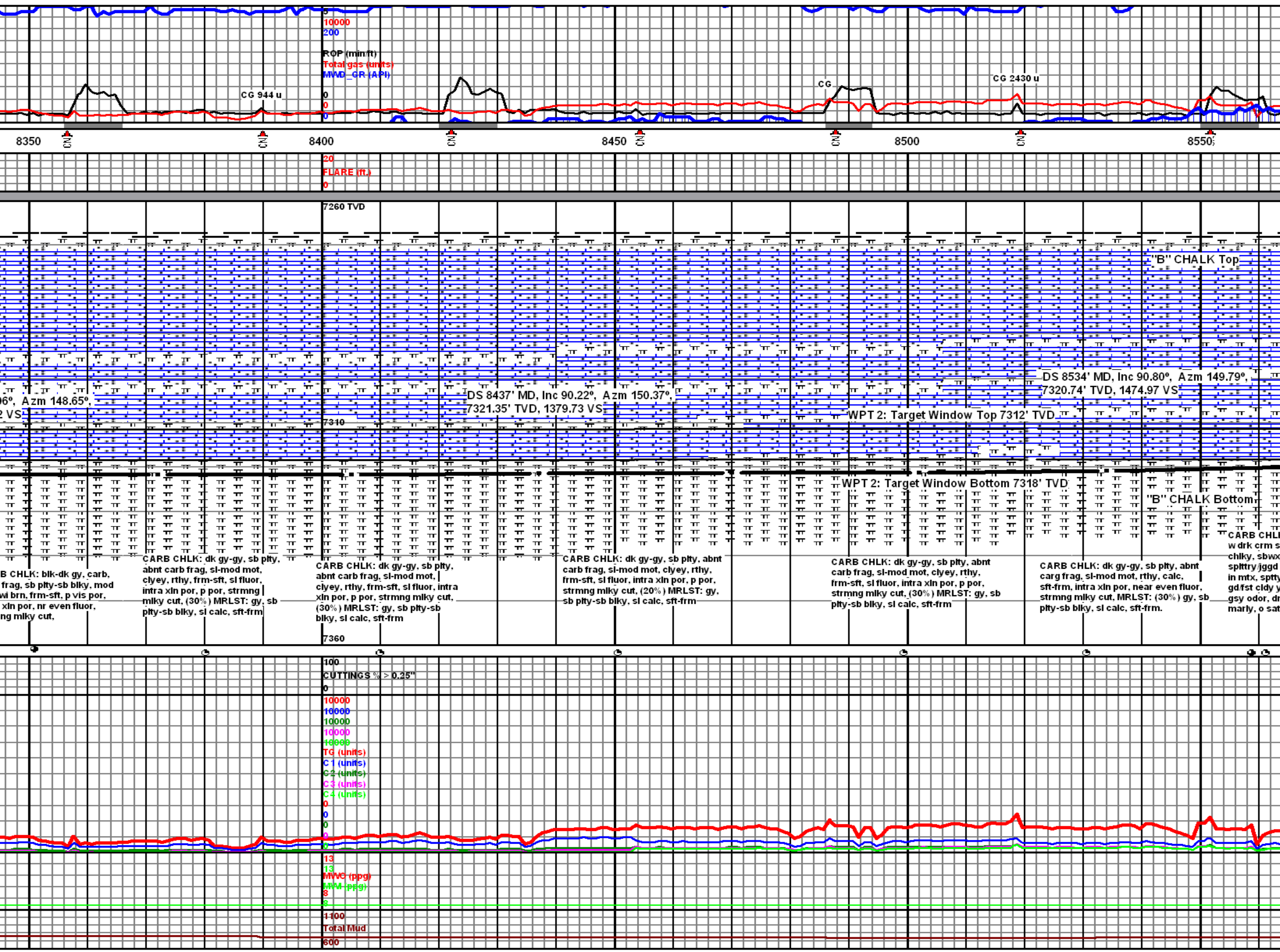
5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
CG
CG
CG 797 u
7700
7750
7800
7850
7900
CN
20
FLARE (ft.)
0
7260 TVD
rf-surf,
"B" Chalk trending 91.3°, upward dip
319.66'
DS 7760' MD, Inc 87.99°, Azm 144.71°,
7324.13' TVD, 709.10 VS
7310
DS 7857' MD, Inc 89.32°, Azm 143.84°,
7326.49' TVD, 805.68 VS
CARB CHLK: med drk-gry blk, mttd w drk crm spcks, micrite, chlky, sl rgh ip, sbblky-sbplty, hd-frm, v ptchy yel pri fluor, gd fst cldy yel cuts, fnt gsy odor, drk yel oily res ring, tr cmt
CARB CHLK (micrite): med-drk-gry, sl lt gry & mttd w crmy spcks, chlky, sl rgh ip, sbblky-sbplty, hd, v ptchy yel pri fluor, gd fst cldy yel cuts, fnt gsy odor, hgh gravity oil res, abndt cmt
CARB CHLK: med drk-drk gry, mttd, drk crm spcks, micrite, chlky, sl rgh ip, sbblky-sbplty, v hd, v ptchy yel pri fluor, gd fst cldy yel cuts, fnt gsy odor, drk yel oily res ring, abndt cmt
CARB CHLK: med drk-drk gry, gry blk ip, mttd w drk crm spcks, micrite, chlky, sl rgh ip, sbblky-sbplty, v w calc cmt, hd, v sptty yel pri fluor, gd fst cldy yel cuts, gd oily odor, drk yel oily res ring, tr cmt
CARB CHLK: med drk-drk gry, gry blk ip, mttd w drk crm spcks, micrite, chlky, sl rgh ip, - sbblky-sbplty, v w calc cmt, hd, v sptty yel pri fluor, gd fst cldy yel cuts, gd oily odor, drk yel oily res ring, tr cmt, oil
CARB CHLK (micrite): med-drk-gry, sl lt gry & mttd w crmy spcks, chlky, sl rgh ip, sbblky-sbplty, hd, v ptchy yel pri fluor, gd fst cldy yel cuts, fnt gsy odor, hgh gravity oil res, abndt cmt
CARB CHLK: blk-dk gy, chlky, sb blky-sb plty, calc, micr, sl mod, frm, dom o flm, mic pore por, dull yell - no fluor, fst strmg cldy cut, g res rng
CARB CHLK: blk-dk gy, sb blky-sb plty, calc, mi mod, frm, dom o flm, mi por, dull yell - no fluor, f cldy cut, g res rng
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600



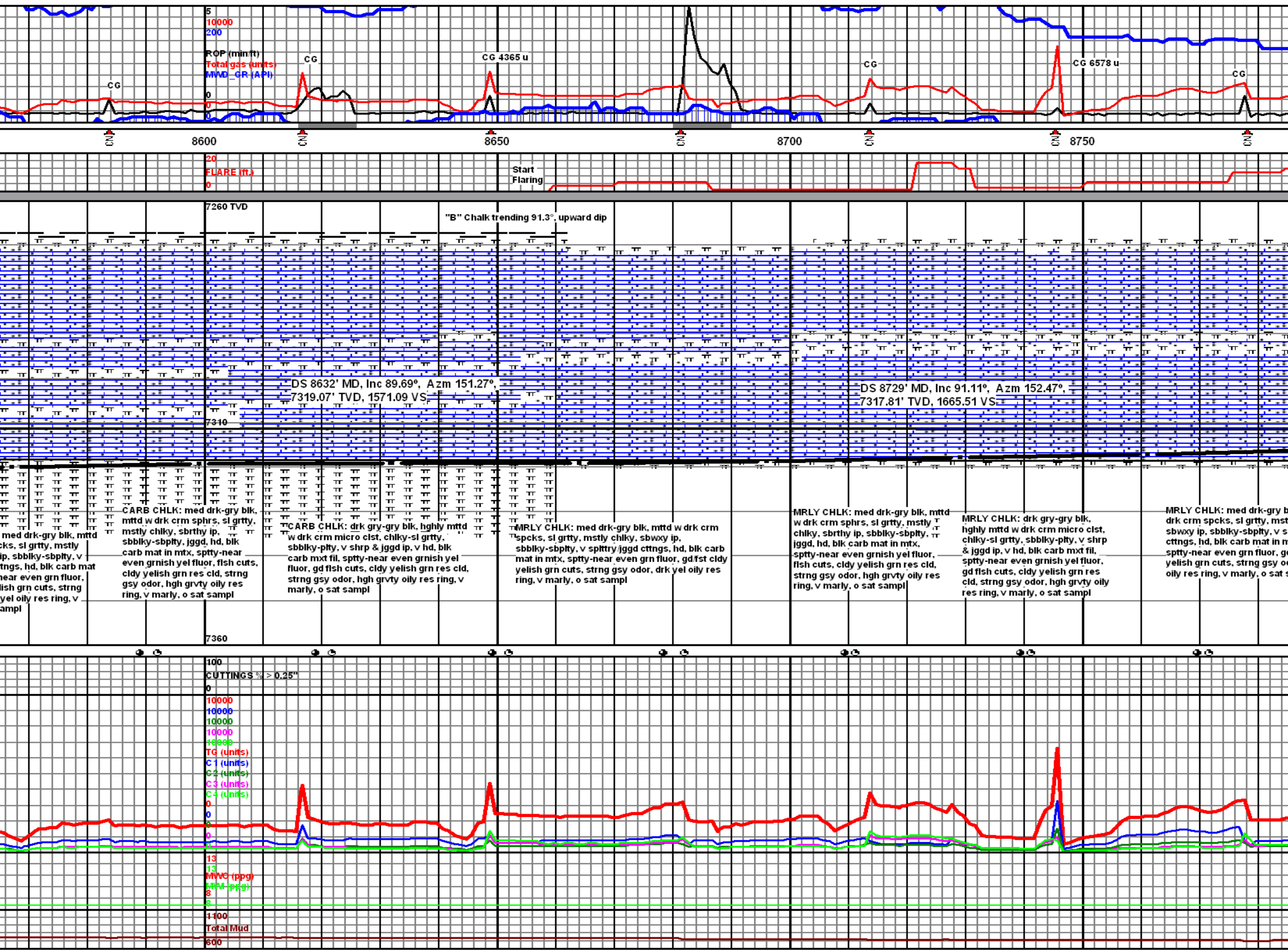
5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
CG
0
0
0
CN
7950
8000
8050
8100
20
FLARE (ft.)
0
7260 TVD
"B" CHALK Top
DS 7952' MD, Inc 90.68°, Azm 142.72°, 7325.84' TVD, 900.38 VS
7310
DS 8049' MD, Inc 89.60°, Azm 145.25°, 7325.59' TVD, 997.08 VS
WPT 1: Target Window Top 7323' TVD
WPT 1: Target Window Bottom 7329' TVD
"B" CHALK Bottom
CARB CHLK: blk-dk gy, chlky, sb blky-sb plty, calc, micr, sl mod, frm, dom o flm, mic pore por, dull yell - no fluor, fst strmg cldy cut, g res rng
CARB CHLK: blk-dk gy, chlky, sb blky-sb plty, calc, micr, sl mod, frm, dom o flm, mic pore por, dull yell - no fluor, fst strmg cldy cut, g res rng
CARB CHLK: blk-dk gy, chlky, sb blky-sb plty, calc, cal frag, micr, sl mod, frm, dom o flm, mic pore por, dull yell - no fluor, fst strmg cldy cut, g res rng
CHLK: gy, chlky, sb blky, calc, micr-mudy, sl mot, frm, intraxln por, dull yell - no fluor, fst strmg cldy cut, g res rng
CHLK: gy-lt gy, sb blky, mudst, cly, sug txt, v calc, rthy, carb frag, sft, intra xln por, lt brn stn, yel fluor, fst strmng mlky cut, g res rng.
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
13
13
MWC (ppg)
MW (ppg)
8
8
1100
Total Mud
600

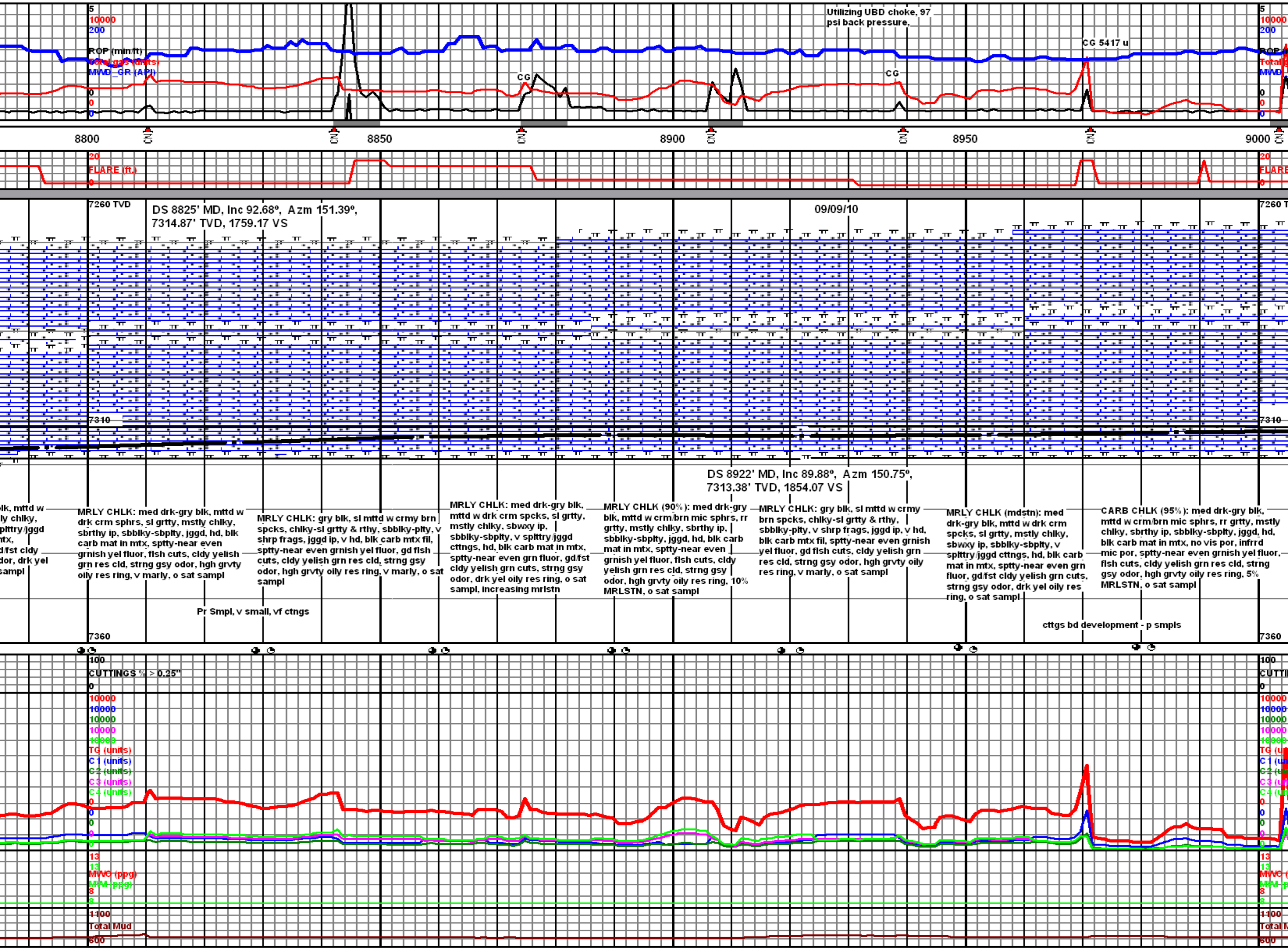


5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
CG
CG
CN
8150
8200
8250
8300
20
FLARE (ft.)
0
7260 TVD
7310
7360
Mudlog on depth w/ J. Schmidt, EOG, GeoSteering x-sections
"B" Chalk trending 91.3°, upward dip
2: Target Window Top 7312' TVD
2: Target Window Bottom 7318' TVD
DS 8146' MD, Inc 90.49°, Azm 147.72°, 7326.24' TVD, 1093.12 VS
DS 8243' MD, Inc 91.54°, Azm 149.26°, 7323.77' TVD, 1188.75 VS
DS 8340' MD, Inc 90.0
7321.57' TVD, 1284.22
Mud Data:
@ 8292'
MW 8.4
Vis 27
PV 2
YP 0
Gel 0/1
Fil 40
Sol 1.0%
pH 7.5
Cl 2000
Ca N/A
Hardness 40
Oil N/A
"B" CHALK Top
"B" CHALK Bottom
CHLK: gy-lt gy, sb blky, mudst, cly, sug txt, mod calc, rthy, carb frag, sft, intra xln por, lt brn stn, yel fluor, fst strmng mlky cut, g res rng.
CHLK: gy-lt gy, sb blky, mudst, cly, sug txt, mod calc, rthy, carb frag, sft, intra xln por, lt brn stn, yel fluor, fst strmng mlky cut, g res rng.
CARB CHLK: blk-dk gy, carb, carb frag, sb plty-sb blky, mod mot wi brn, frm-sft, p vis por, intra xln por, nr even fluor, strmng mlky cut,
CARB CHLK: blk-dk gy, carb, carb frag, sb plty-sb blky, mod mot wi brn, frm-sft, p vis por, intra xln por, nr even fluor, strmng mlky cut,
CARB CHLK: blk-dk gy, carb, carb frag, sb plty-sb blky, mod mot wi brn, frm-sft, p vis por, intra xln por, nr even fluor, strmng mlky cut,
CARB CHLK: blk-dk gy, carb, carb frag, sb plty-sb blky, mod mot wi brn, frm-sft, p vis por, intra xln por, nr even fluor, strmng mlky cut,
CARB CHLK: blk-dk gy, carb, carb frag, sb plty-sb blky, mod mot wi brn, frm-sft, p vis por, intra xln por, nr even fluor, strmng mlky cut,
CAR
carb
mot
intra
strm
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWC (ppg)
MWM (ppg)
8
8
1100
Total Mud
600

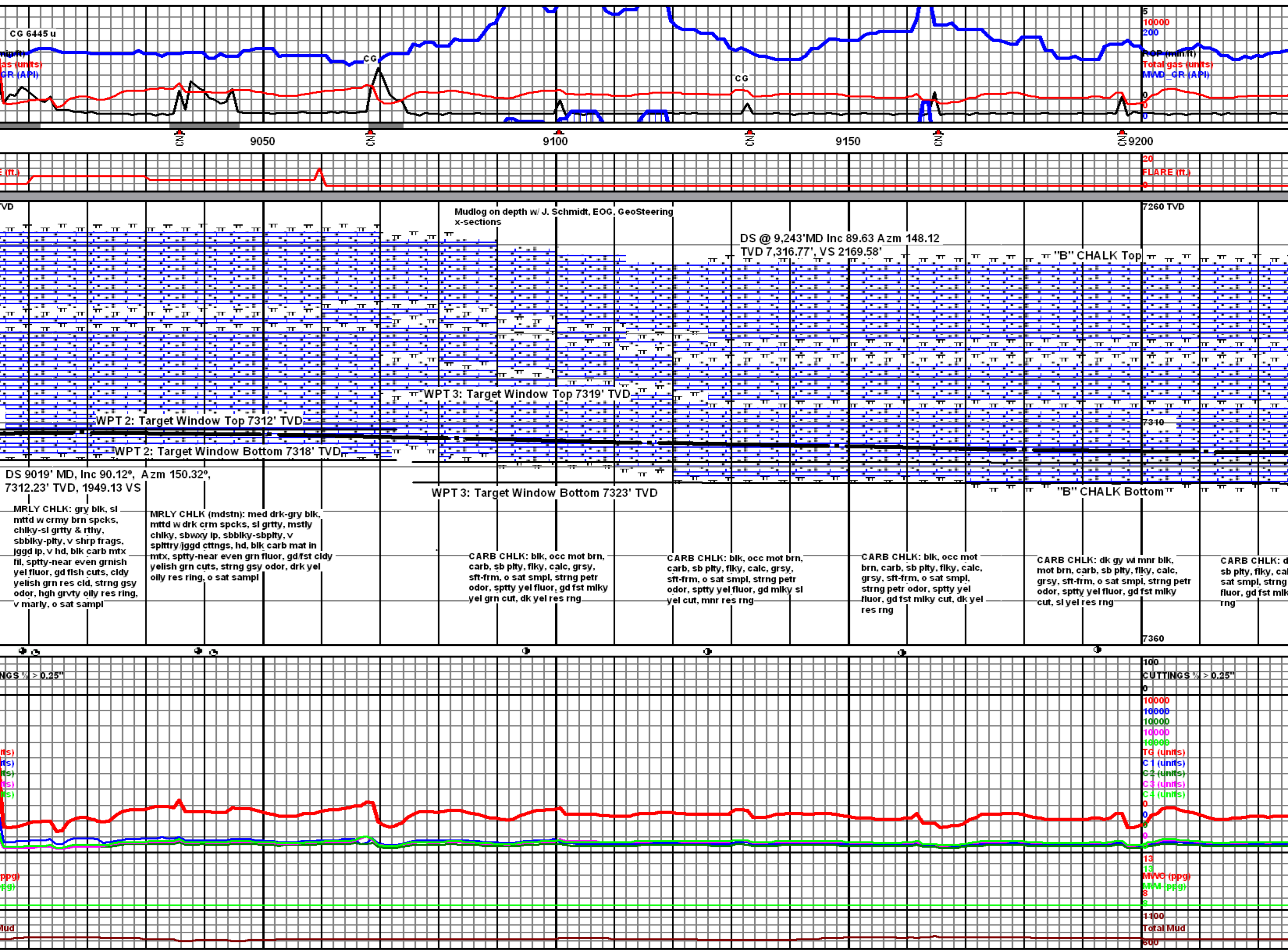


10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
CG 944 u
CG
CG 2430 u
8350
8400
8450
8500
8550
20
FLARE (ft.)
0
7260 TVD
"B" CHALK Top
DS 8534' MD, Inc 90.80º, Azm 149.79º, 7320.74' TVD, 1474.97 VS
06º, Azm 148.65º,
2 VS
DS 8437' MD, Inc 90.22º, Azm 150.37º, 7321.35' TVD, 1379.73 VS
7310
WPT 2: Target Window Top 7312' TVD
WPT 2: Target Window Bottom 7318' TVD
"B" CHALK Bottom
B CHLK: blk-dk gy, carb, frag, sb plty-sb blky, mod wi brn, frm-sft, p vis por, xln por, nr even fluor, ng mlky cut,
CARB CHLK: dk gy-gy, sb plty, abnt carb frag, sl-mod mot, clyey, rthy, frm-sft, sl fluor, intra xln por, p por, strmng mlky cut, (30%) MRLST: gy, sb plty-sb blky, sl calc, sft-frm
CARB CHLK: dk gy-gy, sb plty, abnt carb frag, sl-mod mot, clyey, rthy, frm-sft, sl fluor, intra xln por, p por, strmng mlky cut, (30%) MRLST: gy, sb plty-sb blky, sl calc, sft-frm
CARB CHLK: dk gy-gy, sb plty, abnt carb frag, sl-mod mot, clyey, rthy, frm-sft, sl fluor, intra xln por, p por, strmng mlky cut, (20%) MRLST: gy, sb plty-sb blky, sl calc, sft-frm
CARB CHLK: dk gy-gy, sb plty, abnt carb frag, sl-mod mot, clyey, rthy, frm-sft, sl fluor, intra xln por, p por, strmng mlky cut, (30%) MRLST: gy, sb plty-sb blky, sl calc, sft-frm
CARB CHLK: dk gy-gy, sb plty, abnt carg frag, sl-mod mot, rthy, calc, sft-frm, intra xln por, near even fluor, strmng mlky cut, MRLST: (30%) gy, sb plty-sb blky, sl calc, sft-frm.
CARB CHLK: w drk crm spo chlky, sbwxy splttry/jggd ct in mtx, sptty-r gd/fst cldy yel gsy odor, drk marly, o sat s
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWC (ppg)
MW (ppg)
8
8
1100
Total Mud
600

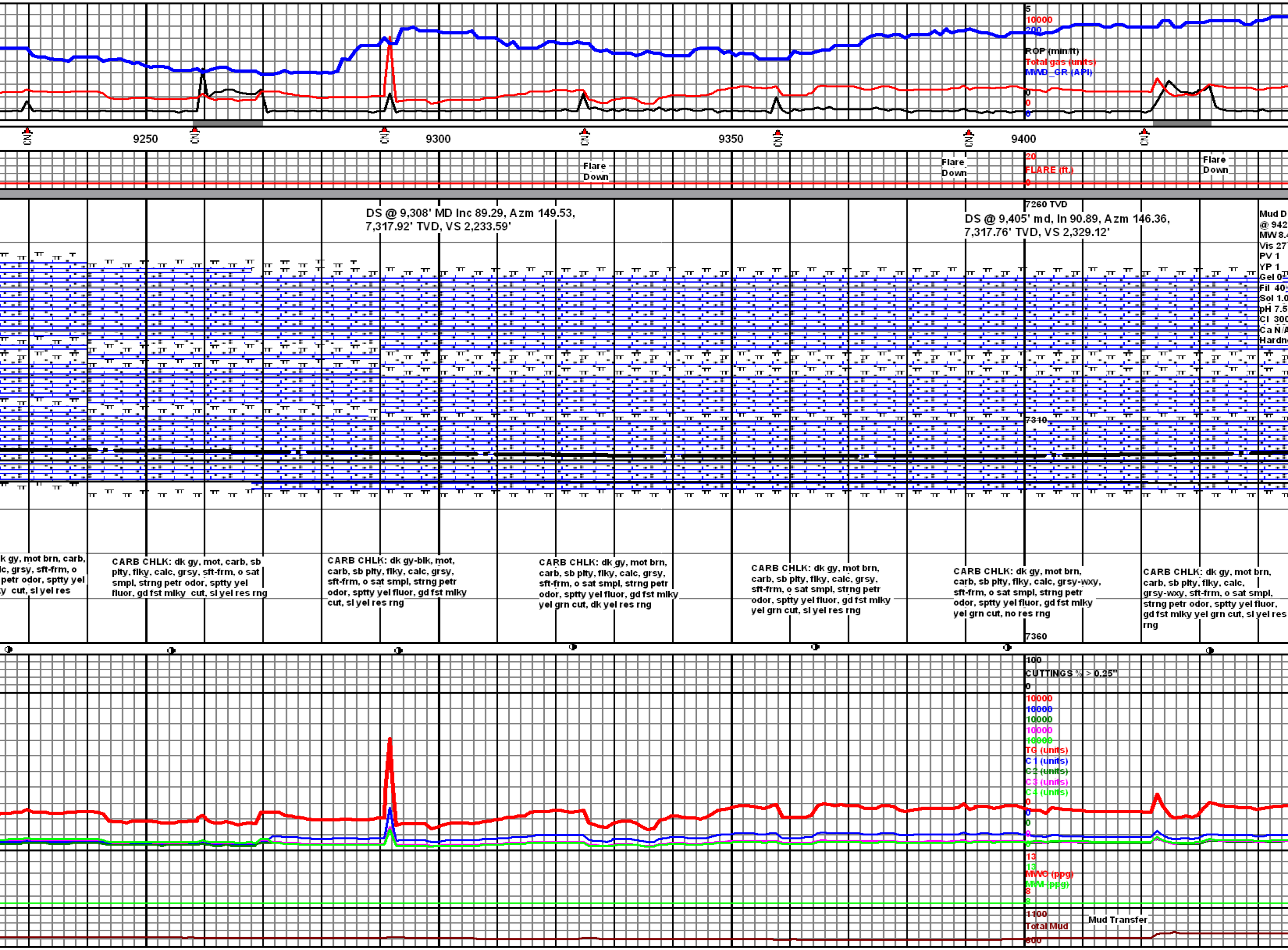

5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
CG
CG
CG 4365 u
CG
CG 6578 u
CG
CN
8600
8650
8700
8750
20
FLARE (ft.)
0
Start Flaring
7260 TVD
"B" Chalk trending 91.3°, upward dip
DS 8632' MD, Inc 89.69°, Azm 151.27°, 7319.07' TVD, 1571.09 VS
DS 8729' MD, Inc 91.11°, Azm 152.47°, 7317.81' TVD, 1665.51 VS
7310
med drk-gry blk, mttd ...cks, sl grtty, mstly ...ip, sbblky-sbplty, v ...tngs, hd, blk carb mat ...near even grn fluor, ...lish grn cuts, strng ...yel oily res ring, v ...ampl
CARB CHLK: med drk-gry blk, mttd w drk crm sphrs, sl grtty, mstly chlky, sbrthy ip, sbblky-sbplty, jggd, hd, blk carb mat in mtx, sptty-near even grnish yel fluor, fish cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
CARB CHLK: drk gry-gry blk, hghly mttd w drk crm micro clst, chlky-sl grtty, sbblky-plty, v shrp & jggd ip, v hd, blk carb mxt fil, sptty-near even grnish yel fluor, gd fish cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
MRLY CHLK: med drk-gry blk, mttd w drk crm spcks, sl grtty, mstly chlky, sbwxy ip, sbblky-sbplty, v splttry jggd cttngs, hd, blk carb mat in mtx, sptty-near even grn fluor, gd/fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring, v marly, o sat sampl
MRLY CHLK: med drk-gry blk, mttd w drk crm sphrs, sl grtty, mstly chlky, sbrthy ip, sbblky-sbplty, jggd, hd, blk carb mat in mtx, sptty-near even grnish yel fluor, fish cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
MRLY CHLK: drk gry-gry blk, hghly mttd w drk crm micro clst, chlky-sl grtty, sbblky-plty, v shrp & jggd ip, v hd, blk carb mxt fil, sptty-near even grnish yel fluor, gd fish cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
MRLY CHLK: med drk-gry b... drk crm spcks, sl grtty, mst... sbwxy ip, sbblky-sbplty, v s... cttngs, hd, blk carb mat in m... sptty-near even grn fluor, g... yelish grn cuts, strng gsy o... oily res ring, v marly, o sat s...
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600



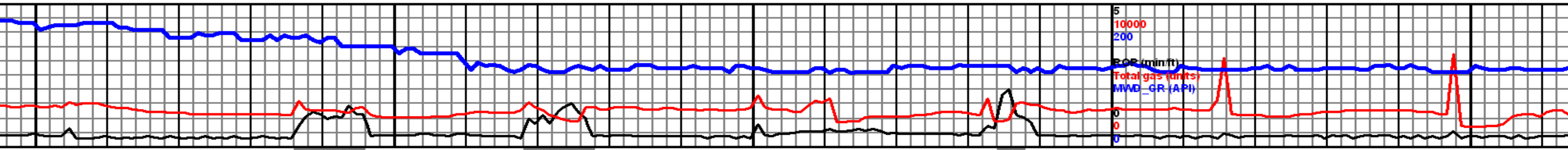
Utilizing UBD choke, 97 psi back pressure.
5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
CG
CG
CG 5417 u
8800
8850
8900
8950
9000
CN
20
FLARE (ft.)
0
7260 TVD
DS 8825' MD, Inc 92.68°, Azm 151.39°, 7314.87' TVD, 1759.17 VS
09/09/10
7310
DS 8922' MD, Inc 89.88°, Azm 150.75°, 7313.38' TVD, 1854.07 VS
blk, mttd w ... ly chlky, ... splttry/jggd ... mtx, ... d/fst cldy ... odor, drk yel ... sampl
MRLY CHLK: med drk-gry blk, mttd w drk crm sphrs, sl grtty, mstly chlky, sbrthy ip, sbblky-sbplty, jggd, hd, blk carb mat in mtx, sptty-near even grnish yel fluor, flsh cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
MRLY CHLK: gry blk, sl mttd w crmy brn spcks, chlky-sl grtty & rthy, sbblky-plty, v shrp frags, jggd ip, v hd, blk carb mtx fil, sptty-near even grnish yel fluor, gd flsh cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
MRLY CHLK: med drk-gry blk, mttd w drk crm spcks, sl grtty, mstly chlky, sbwxy ip, sbblky-sbplty, v splttry/jggd cttngs, hd, blk carb mat in mtx, sptty-near even grn fluor, gd/fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring, o sat sampl, increasing mrlstn
MRLY CHLK (90%): med drk-gry blk, mttd w crm/brn mic sphrs, rr grtty, mstly chlky, sbrthy ip, sbblky-sbplty, jggd, hd, blk carb mat in mtx, sptty-near even grnish yel fluor, flsh cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, 10% MRLSTN, o sat sampl
MRLY CHLK: gry blk, sl mttd w crmy brn spcks, chlky-sl grtty & rthy, sbblky-plty, v shrp frags, jggd ip, v hd, blk carb mtx fil, sptty-near even grnish yel fluor, gd flsh cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
MRLY CHLK (mdstn): med drk-gry blk, mttd w drk crm spcks, sl grtty, mstly chlky, sbwxy ip, sbblky-sbplty, v splttry/jggd cttngs, hd, blk carb mat in mtx, sptty-near even grn fluor, gd/fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring, o sat sampl
CARB CHLK (95%): med drk-gry blk, mttd w crm/brn mic sphrs, rr grtty, mstly chlky, sbrthy ip, sbblky-sbplty, jggd, hd, blk carb mat in mtx, no vis por, infrrd mic por, sptty-near even grnish yel fluor, flsh cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, 5% MRLSTN, o sat sampl
Pr Smpl, v small, vf ctngs
cttgs bd development - p smpls
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600



CG 6445 u
CG
CG
9050
9100
9150
9200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
FLARE (ft.)
7260 TVD
Mudlog on depth w/ J. Schmidt, EOG, GeoSteering x-sections
DS @ 9,243'MD Inc 89.63 Azm 148.12
TVD 7,316.77', VS 2169.58'
"B" CHALK Top
WPT 3: Target Window Top 7319' TVD
WPT 2: Target Window Top 7312' TVD
7310
WPT 2: Target Window Bottom 7318' TVD
DS 9019' MD, Inc 90.12°, Azm 150.32°,
7312.23' TVD, 1949.13 VS
WPT 3: Target Window Bottom 7323' TVD
"B" CHALK Bottom
MRLY CHLK: gry blk, sl mttd w crmy brn spcks, chlky-sl grtty & rthy, sbblky-plty, v shrp frags, jggd ip, v hd, blk carb mtx fil, sptty-near even grnish yel fluor, gd flsh cuts, cldy yelish grn res cld, strng gsy odor, hgh grvty oily res ring, v marly, o sat sampl
MRLY CHLK (mdstn): med drk-gry blk, mttd w drk crm spcks, sl grtty, mstly chlky, sbwxy ip, sbblky-sbplty, v splttry/jggd cttngs, hd, blk carb mat in mtx, sptty-near even grn fluor, gd/fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring, o sat sampl
CARB CHLK: blk, occ mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky yel grn cut, dk yel res rng
CARB CHLK: blk, occ mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd mlky sl yel cut, mnr res rng
CARB CHLK: blk, occ mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky cut, dk yel res rng
CARB CHLK: dk gy wi mnr blk, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky cut, sl yel res rng
CARB CHLK: d sb plty, flky, cal sat smpl, strng fluor, gd fst mlk rng
7360
100
CUTTINGS % > 0.25"
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
13
MWC (ppg)
MWI (ppg)
8
1100
Total Mud
800



ROP (min/ft)
Total gas (units)
MWD_GR (API)
9250
9300
9350
9400
Flare Down
Flare Down
Flare Down
FLARE (ft.)
7260 TVD
7310
7360
DS @ 9,308' MD Inc 89.29, Azm 149.53, 7,317.92' TVD, VS 2,233.59'
DS @ 9,405' md, In 90.89, Azm 146.36, 7,317.76' TVD, VS 2,329.12'
k gy, mot brn, carb, lc, grsy, sft-frm, o petr odor, sptty yel y cut, sl yel res
CARB CHLK: dk gy, mot, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky cut, sl yel res rng
CARB CHLK: dk gy-blk, mot, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky cut, sl yel res rng
CARB CHLK: dk gy, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky yel grn cut, dk yel res rng
CARB CHLK: dk gy, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky yel grn cut, sl yel res rng
CARB CHLK: dk gy, mot brn, carb, sb plty, flky, calc, grsy-wxy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky yel grn cut, no res rng
CARB CHLK: dk gy, mot brn, carb, sb plty, flky, calc, grsy-wxy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, gd fst mlky yel grn cut, sl yel res rng
Mud D
@ 942
MW 8.
Vis 27
PV 1
YP 1
Gel 0
Fil 40
Sol 1.0
pH 7.5
Cl 300
Ca N/
Hardn
CUTTINGS % > 0.25"
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
MWO (ppg)
MWI (ppg)
Total Mud
Mud Transfer



9450 CN 9500 CN 9550 CN 9600 CN CN 9650

20
FLARE (ft.)
0

7260 TVD

DS @ 9,501' MD, In 91.45, Azm 150.76
TVD 7315.35', VS

DS @ 9,598' MD. in 89.04, Azm 150.99,
TVD 7315.25' VS 2,423.39'

7310

CARB CHLK: blk, occ mot wi brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng

CARB CHLK: blk, occ mot brn, carb, sb plty, flky, calc, grsy-wxy, mdy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng

CARB CHLK: blk, sl mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng

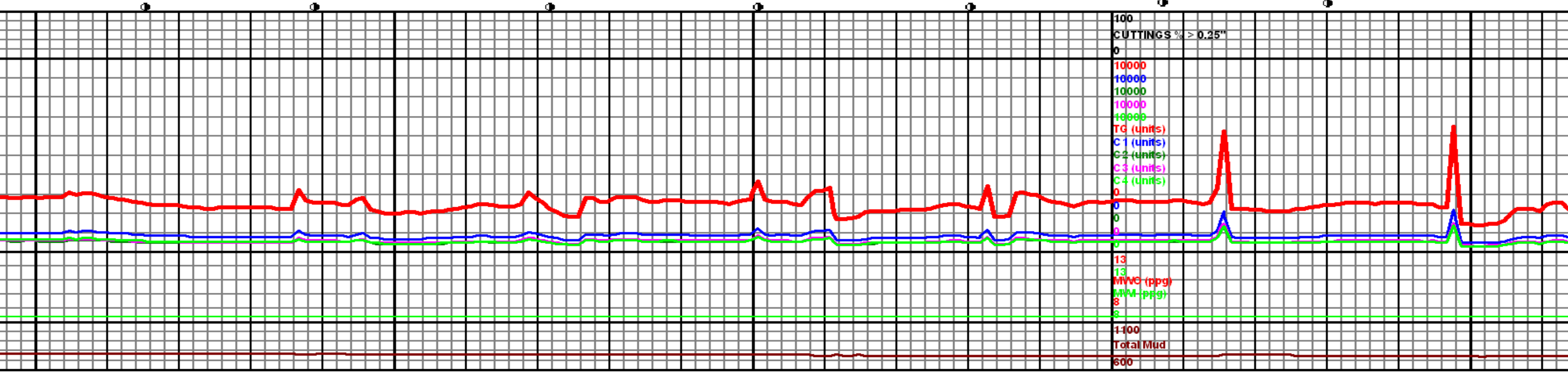
CARB CHLK: blk, sl mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng

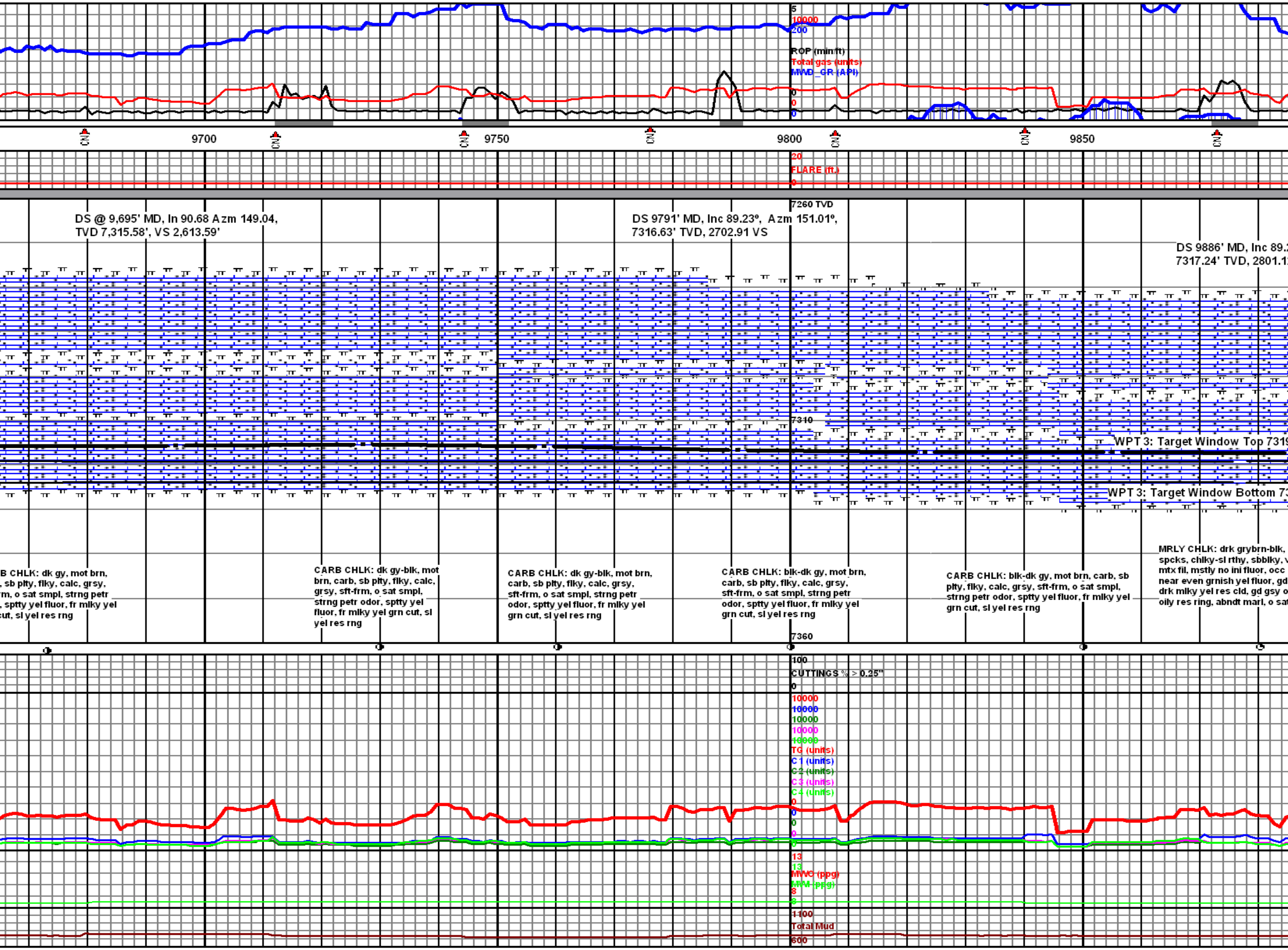
CARB CHLK: dk gy, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng

CARB CHLK: blk, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng

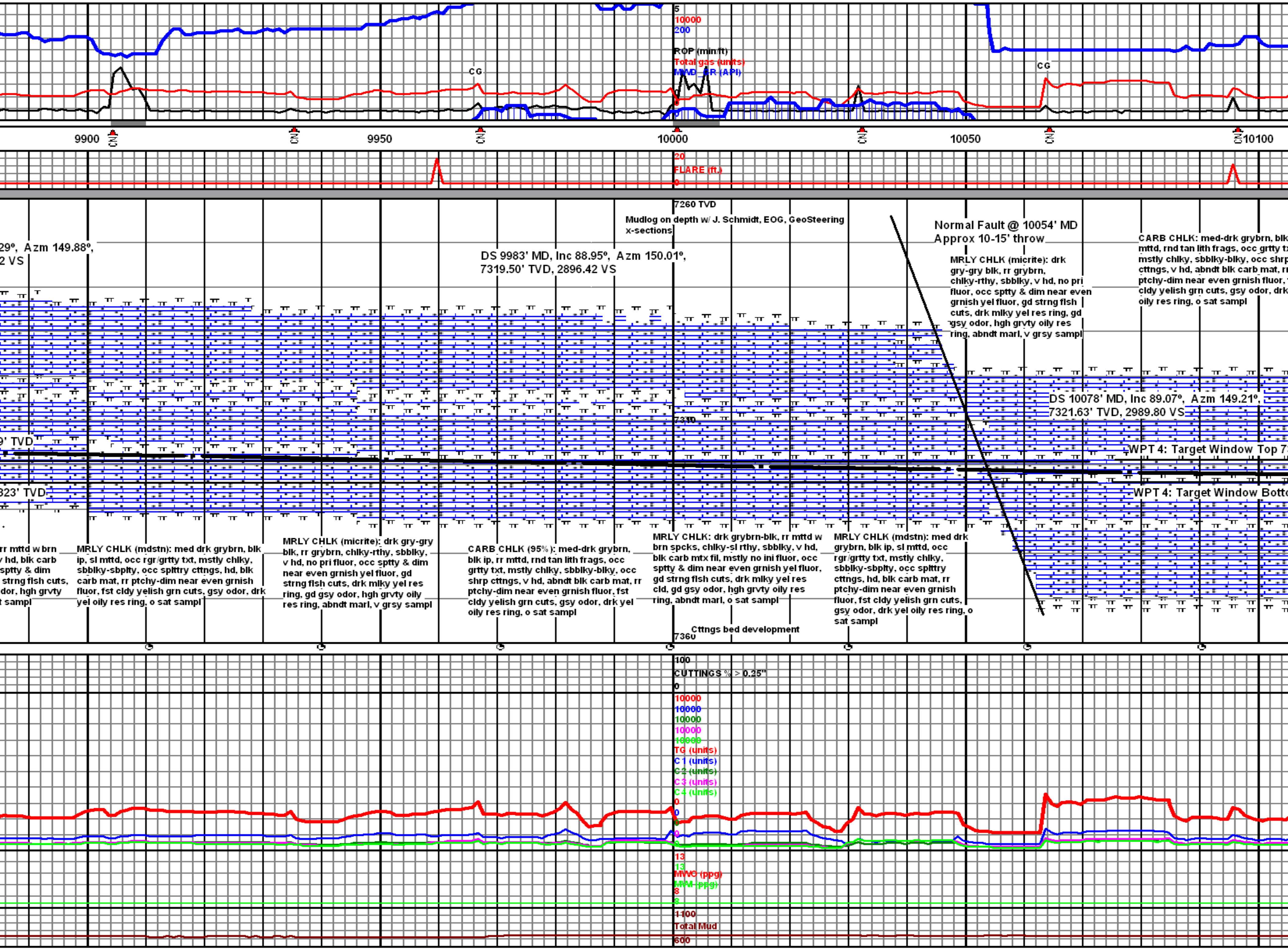
CARB CHLK: dk gy, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng

7360





5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
9700
9750
9800
9850
CN
20
FLARE (ft.)
0
7260 TVD
DS @ 9,695' MD, In 90.68 Azm 149.04, TVD 7,315.58', VS 2,613.59'
DS 9791' MD, Inc 89.23º, Azm 151.01º, 7316.63' TVD, 2702.91 VS
DS 9886' MD, Inc 89.
7317.24' TVD, 2801.1
7310
WPT 3: Target Window Top 731
WPT 3: Target Window Bottom 7
B CHLK: dk gy, mot brn, , sb plty, flky, calc, grsy, rm, o sat smpl, strng petr , sptty yel fluor, fr mlky yel cut, sl yel res rng
CARB CHLK: dk gy-blk, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng
CARB CHLK: dk gy-blk, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng
CARB CHLK: blk-dk gy, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng
CARB CHLK: blk-dk gy, mot brn, carb, sb plty, flky, calc, grsy, sft-frm, o sat smpl, strng petr odor, sptty yel fluor, fr mlky yel grn cut, sl yel res rng
MRLY CHLK: drk grybrn-blk, spcks, chlky-sl rthy, sbblky, mtx fil, mstly no ini fluor, occ near even grnish yel fluor, gd drk mlky yel res cld, gd gsy o oily res ring, abndt marl, o sa
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600



5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
CG
CG
9900
9950
10000
10050
10100
CN
20
FLARE (ft.)
0
7260 TVD
Mudlog on depth w/ J. Schmidt, EOG, GeoSteering x-sections
Normal Fault @ 10054' MD
Approx 10-15' throw
29°, Azm 149.88°,
2 VS
DS 9983' MD, Inc 88.95°, Azm 150.01°,
7319.50' TVD, 2896.42 VS
MRLY CHLK (micrite): drk gry-gry blk, rr grybrn, chlky-rthy, sbblky, v hd, no pri fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res ring, gd gsy odor, hgh grvty oily res ring, abndt marl, v grsy sampl
CARB CHLK: med-drk grybrn, blk mttd, rnd tan lith frags, occ grtty tx mstly chlky, sbblky-blky, occ shrp cttngs, v hd, abndt blk carb mat, r ptchy-dim near even grnish fluor, cldy yelish grn cuts, gsy odor, drk oily res ring, o sat sampl
DS 10078' MD, Inc 89.07°, Azm 149.21°,
7321.63' TVD, 2989.80 VS
7310
9' TVD
WPT 4: Target Window Top 7
323' TVD
WPT 4: Target Window Botto
rr mttd w brn v hd, blk carb sptty & dim strng flsh cuts, odor, hgh grvty t sampl
MRLY CHLK (mdstn): med drk grybrn, blk ip, sl mttd, occ rgr/grtty txt, mstly chlky, sbblky-sbplty, occ splttry cttngs, hd, blk carb mat, rr ptchy-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl
MRLY CHLK (micrite): drk gry-gry blk, rr grybrn, chlky-rthy, sbblky, v hd, no pri fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res ring, gd gsy odor, hgh grvty oily res ring, abndt marl, v grsy sampl
CARB CHLK (95%): med-drk grybrn, blk ip, rr mttd, rnd tan lith frags, occ grtty txt, mstly chlky, sbblky-blky, occ shrp cttngs, v hd, abndt blk carb mat, rr ptchy-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl
MRLY CHLK: drk grybrn-blk, rr mttd w brn spcks, chlky-sl rthy, sbblky, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, hgh grvty oily res ring, abndt marl, o sat sampl
MRLY CHLK (mdstn): med drk grybrn, blk ip, sl mttd, occ rgr/grtty txt, mstly chlky, sbblky-sbplty, occ splttry cttngs, hd, blk carb mat, rr ptchy-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl
7360
Cttngs bed development
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600

ROP (min/ft)
Total gas (units)
MWD_GR (API)

5
10000
200
0
0
0

CG

CN 10150 CN CN 10200 CN 10250 CN CN 10300 CN

15' flare

20
FLARE (ft.)
0

1 - 8' flare

7260 TVD

ip, rr ... xt, ... fst ... yel

CARB CHLK: drk grybrn-blk, rr mttd w brn spcks, chlky-sl rthy, sbblky, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, hgh grvty oily res ring, abndt marl, o sat sampl

CARB CHLK (micrite): drk gry-gry blk, rr grybrn, chlky-rthy, sbblky, v hd, no pri fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res ring, gd gsy odor, hgh grvty oily res ring, abndt marl, v grsy sampl

MRLY CHLK: drk grybrn-blk, rr mttd w brn spcks, chlky-sl rthy, sbblky, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, hgh grvty oily res ring, abndt marl, o sat sampl

CARB CHLK: med-drk grybrn, blk ip, rr mttd, rnd tan lith frags, occ grtty txt, mstly chlky, sbblky-blky, occ shrp cttngs, v hd, abndt blk carb mat, rr ptchy-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl

MRLY CHLK (mdstn): med drk grybrn, blk ip, sl mttd, occ rgr/grtty txt, mstly chlky, sbblky-sbplty, occ splttry cttngs, hd, blk carb mat, rr ptchy-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl

MRLY CHLK: drk grybrn-blk, rr mttd w brn spcks, chlky-sl rthy, sbblky, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, hgh grvty oily res ring, abndt marl, o sat sampl

MRLY CHLK (mdstn): med drk grybrn, blk ip, sl mttd, occ rgr/grtty txt, mstly chlky, sbblky-sbplty, occ splttry cttngs, hd, blk carb mat, rr ptchy-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl

CARB ... w brn ... hd, bl ... occ s ... fluor, ... res cl ... res ri

"B" CHALK Top

DS 10176' MD, Inc 90.59°, Azm 147.30°, 7321.59' TVD, 3086.47 VS

DS 10273' MD, Inc 91.14°, Azm 144.88°, 7319.92' TVD, 3182.79 VS

7310

319' TVD

gray zn mkr

Target Top (yell zn mkr)

om 7323' TVD

Target Btm (blu zn mkr)

"B" CHALK Btm

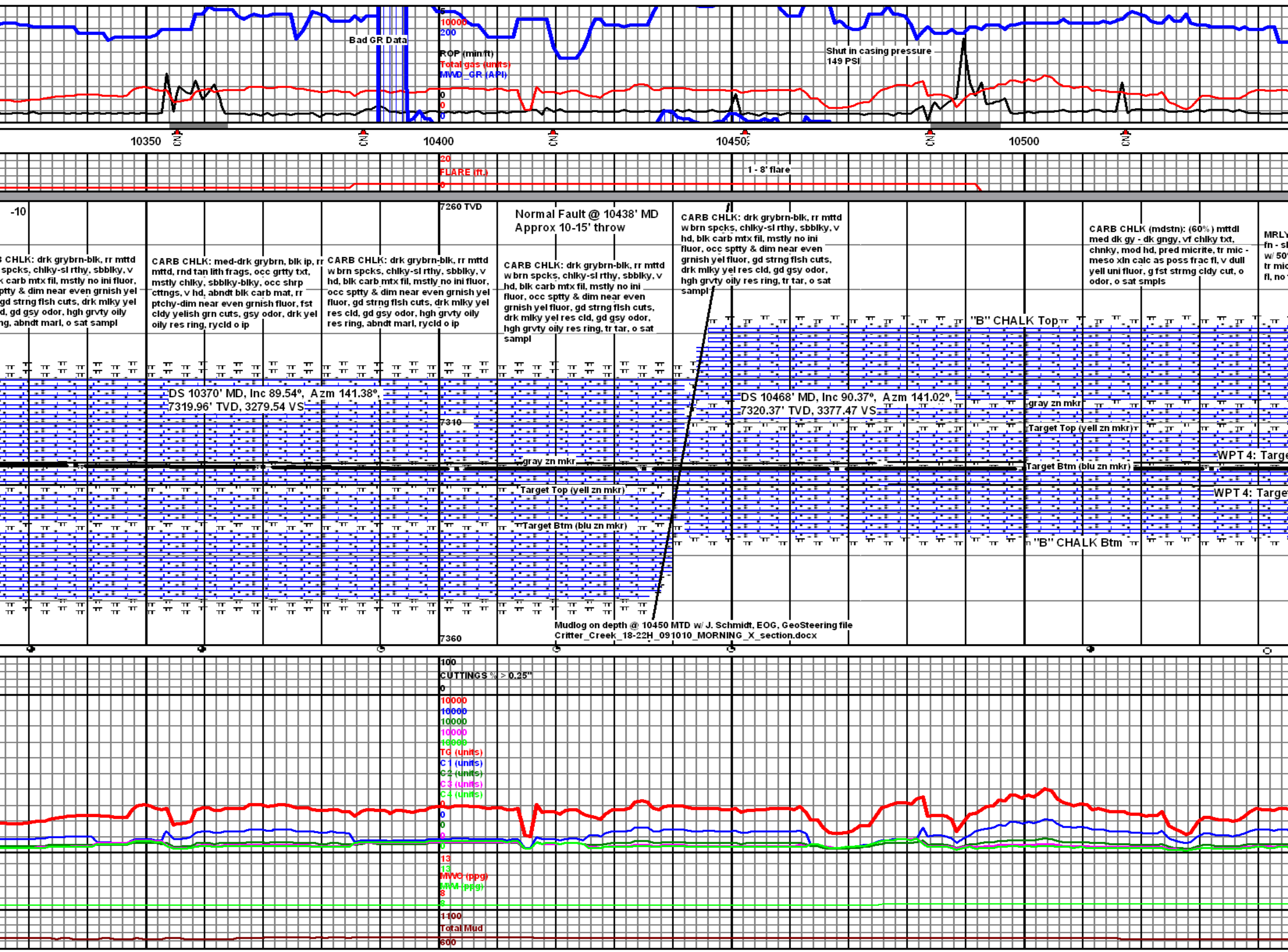
7360

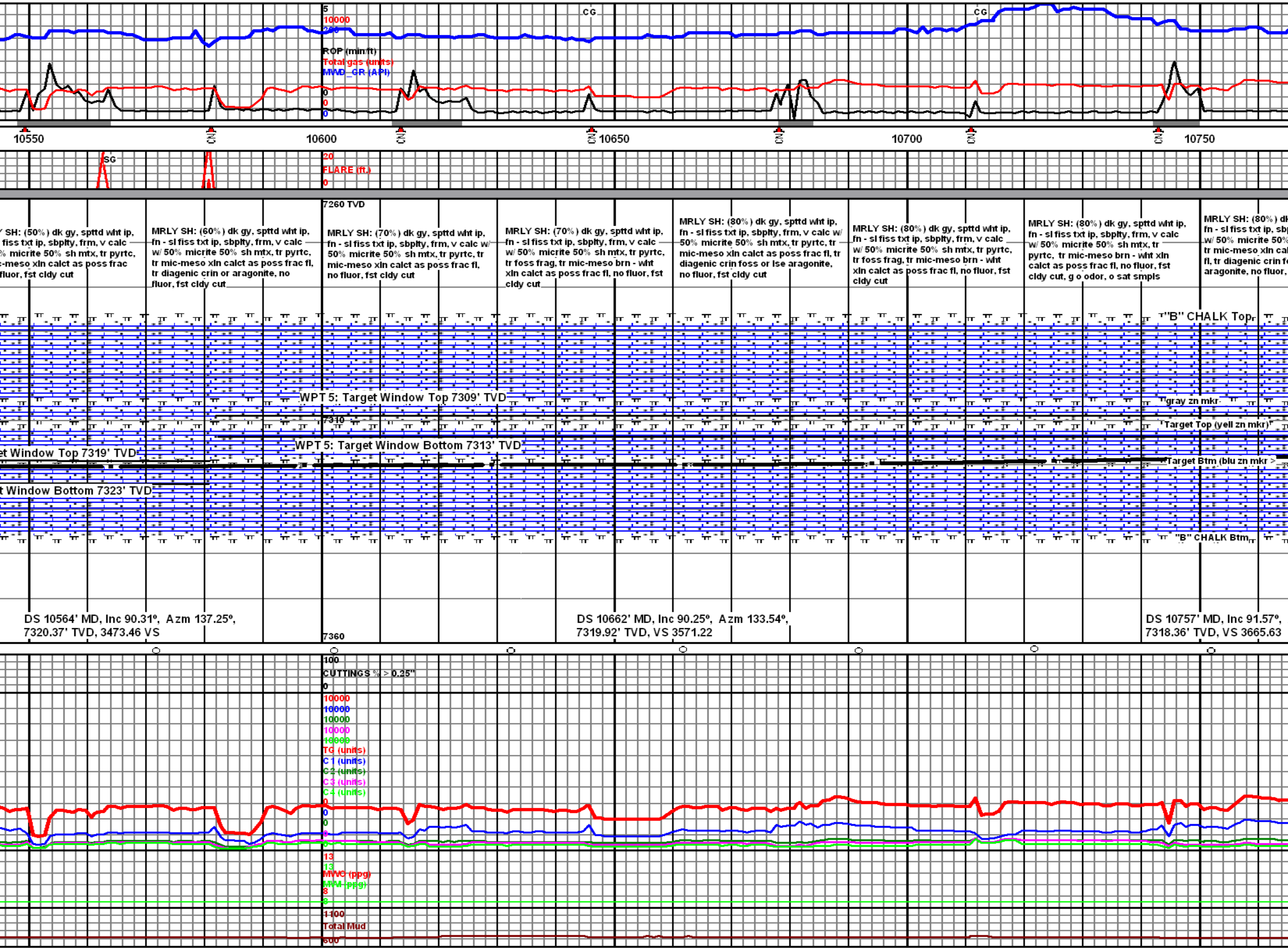
100
CUTTINGS % > 0.25"
0

10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0

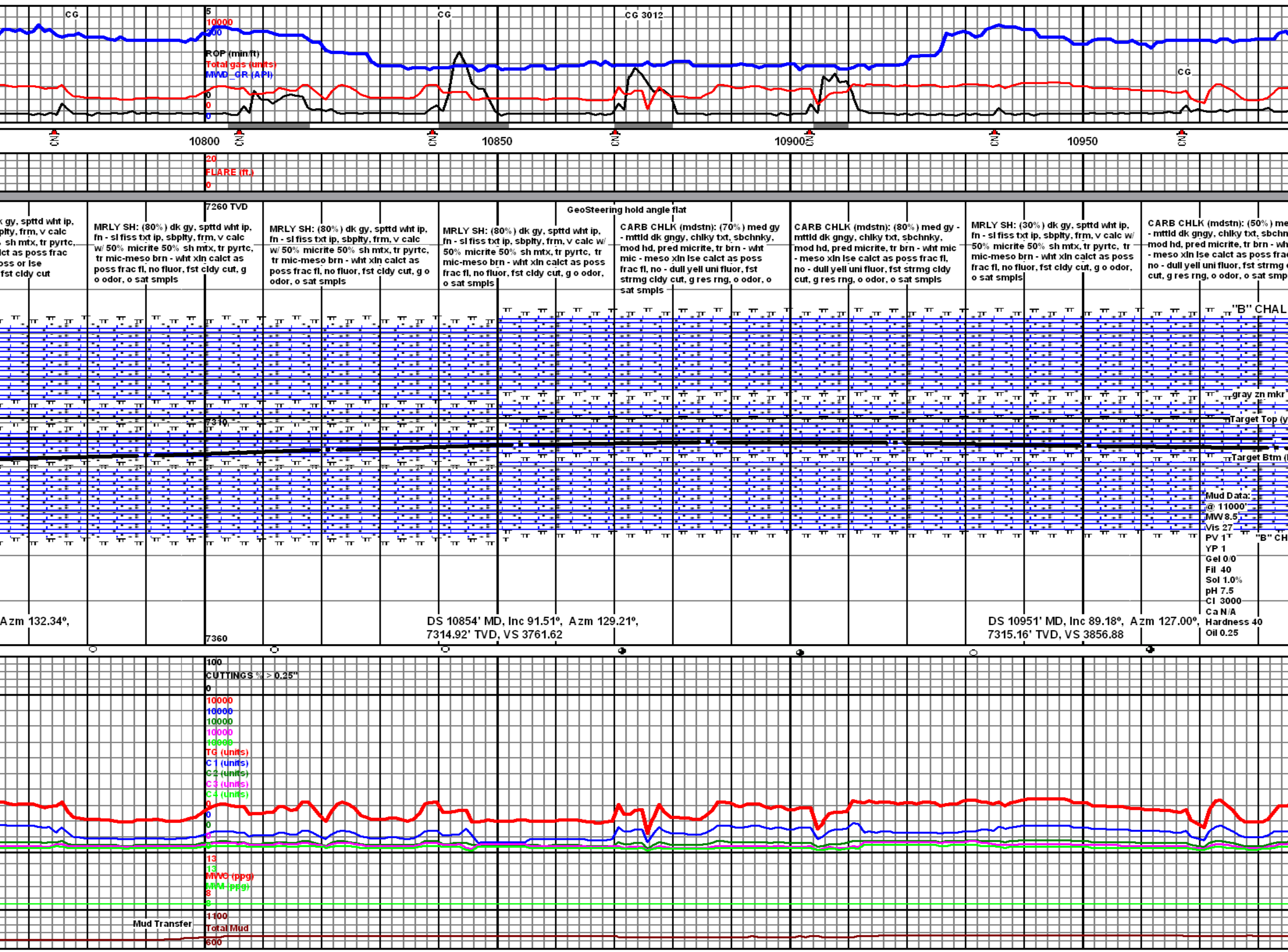
13
13
MWO (ppg)
MWI (ppg)
8
8

1100
Total Mud
600

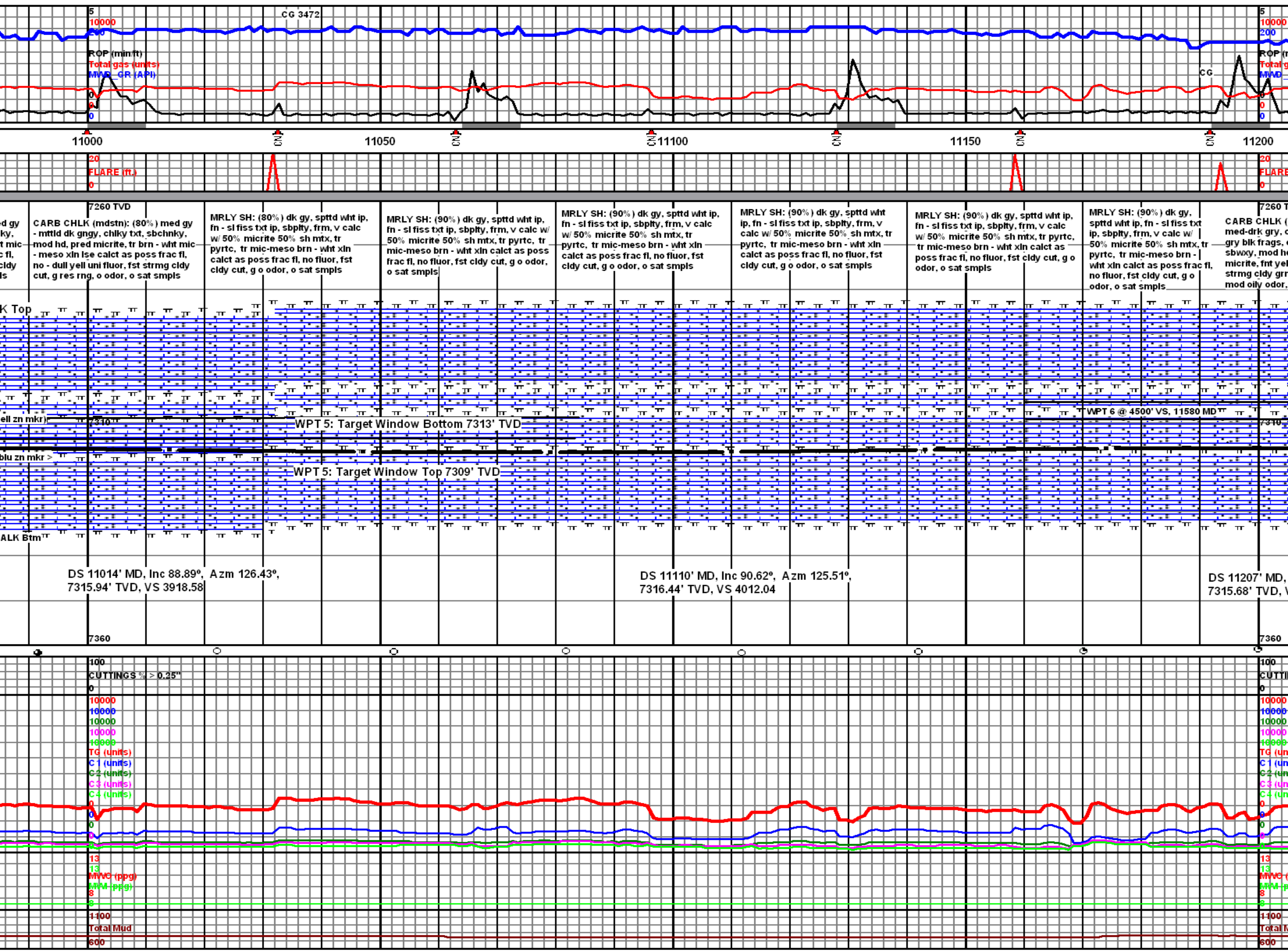

Bad GR Data
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
Shut in casing pressure
149 PSI
10350
CN
10400
10450
10500
20
FLARE (ft.)
0
1 - 8' flare
-10
7260 TVD
Normal Fault @ 10438' MD
Approx 10-15' throw
CARB CHLK: med-drk grybrn, blk ip, rr mttd, rnd tan lith frags, occ grtty txt, mstly chlky, sbblky-blky, occ shrp cttngs, v hd, abndt blk carb mat, rr ptchy-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, rycld o ip
CARB CHLK: drk grybrn-blk, rr mttd w brn spcks, chlky-sl rthy, sbblky, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, hgh grvty oily res ring, abndt marl, rycld o ip
CARB CHLK: drk grybrn-blk, rr mttd w brn spcks, chlky-sl rthy, sbblky, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, hgh grvty oily res ring, tr tar, o sat sampl
CARB CHLK: drk grybrn-blk, rr mttd w brn spcks, chlky-sl rthy, sbblky, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, hgh grvty oily res ring, tr tar, o sat sampl
CARB CHLK (mdstn): (60%) mttdl med dk gy - dk gngy, vf chlky txt, chnky, mod hd, pred micrite, tr mic - meso xln calc as poss frac fl, v dull yell uni fluor, g fst strmg cldy cut, o odor, o sat smpls
"B" CHALK Top
DS 10370' MD, Inc 89.54°, Azm 141.38°, 7319.96' TVD, 3279.54 VS
DS 10468' MD, Inc 90.37°, Azm 141.02°, 7320.37' TVD, 3377.47 VS
7310
gray zn mkr
Target Top (yell zn mkr)
Target Btm (blu zn mkr)
WPT 4: Targe
"B" CHALK Btm
Mudlog on depth @ 10450 MTD w/ J. Schmidt, EOG, GeoSteering file
Critter_Creek_18-22H_091010_MORNING_X_section.docx
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C 1 (units)
C 2 (units)
C 3 (units)
C 4 (units)
0
0
0
0
0
13
13
MWC (ppg)
MWM (ppg)
8
8
1100
Total Mud
600



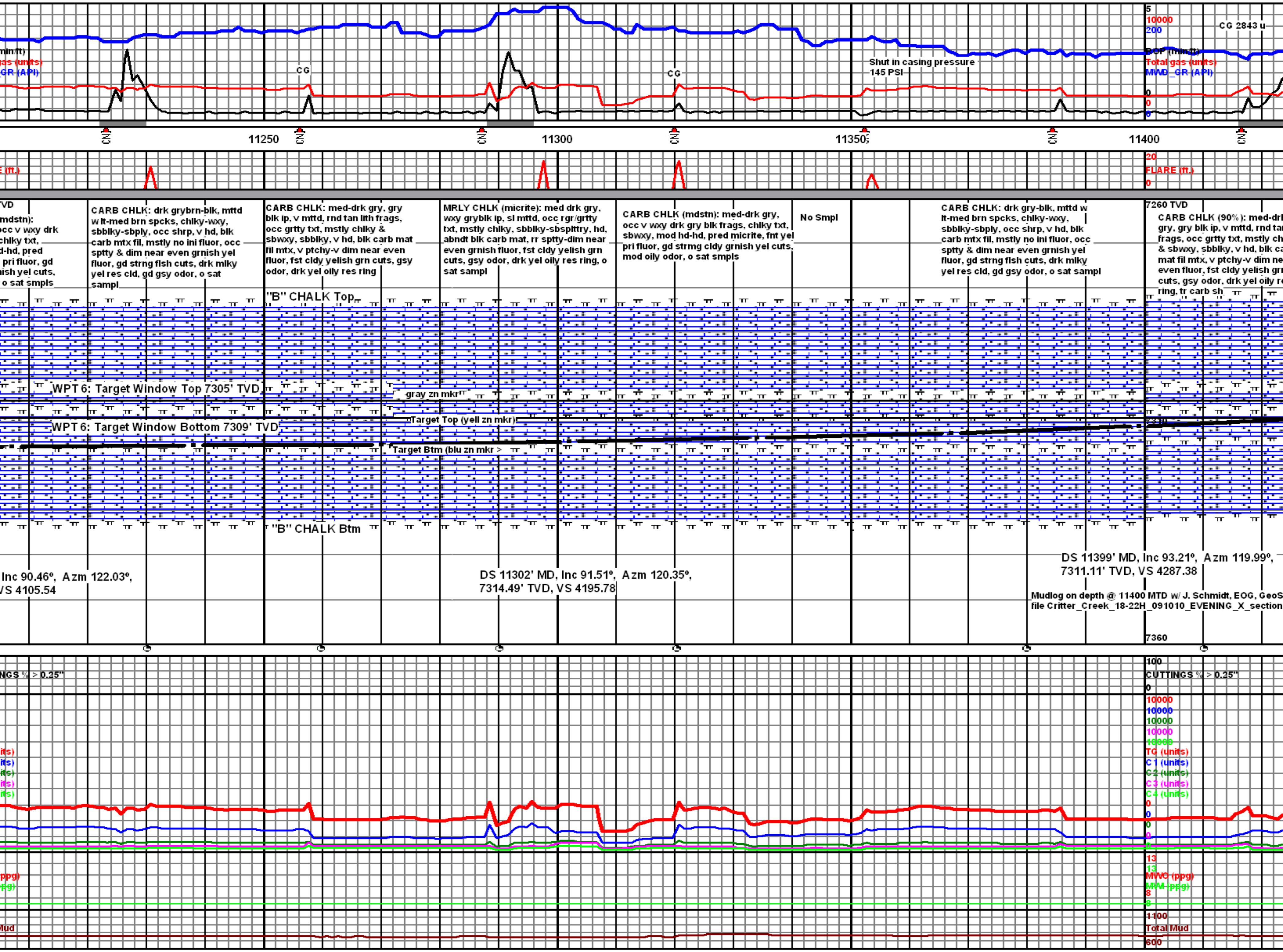
ROP (min/ft)
Total gas (units)
MWD_GR (API)
10550
10600
10650
10700
10750
CG
SG
CN
FLARE (ft.)
7260 TVD
Y SH: (50%) dk gy, spttd wht ip, fiss txt ip, sbplty, frm, v calc % micrite 50% sh mtx, tr pyrtc, c-meso xln calct as poss frac fluor, fst cldy cut
MRLY SH: (60%) dk gy, spttd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso xln calct as poss frac fl, tr diagenic crin or aragonite, no fluor, fst cldy cut
MRLY SH: (70%) dk gy, spttd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso xln calct as poss frac fl, no fluor, fst cldy cut
MRLY SH: (70%) dk gy, spttd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr foss frag, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut
MRLY SH: (80%) dk gy, spttd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso xln calct as poss frac fl, tr diagenic crin foss or lse aragonite, no fluor, fst cldy cut
MRLY SH: (80%) dk gy, spttd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr tr foss frag, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut
MRLY SH: (80%) dk gy, spttd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (80%) dk gy, spttd wht ip, fn - sl fiss txt ip, sb w/ 50% micrite 50% tr mic-meso xln cal fl, tr diagenic crin f aragonite, no fluor,
"B" CHALK Top
WPT 5: Target Window Top 7309' TVD
7310
gray zn mkr
Target Top (yell zn mkr)
et Window Top 7319' TVD
WPT 5: Target Window Bottom 7313' TVD
Target Btm (blu zn mkr >
t Window Bottom 7323' TVD
"B" CHALK Btm
DS 10564' MD, Inc 90.31°, Azm 137.25°, 7320.37' TVD, 3473.46 VS
7360
DS 10662' MD, Inc 90.25°, Azm 133.54°, 7319.92' TVD, VS 3571.22
DS 10757' MD, Inc 91.57°, 7318.36' TVD, VS 3665.63
CUTTINGS % > 0.25"
TG (units)
C 1 (units)
C 2 (units)
C 3 (units)
C 4 (units)
MWC (ppg)
MW (ppg)
Total Mud

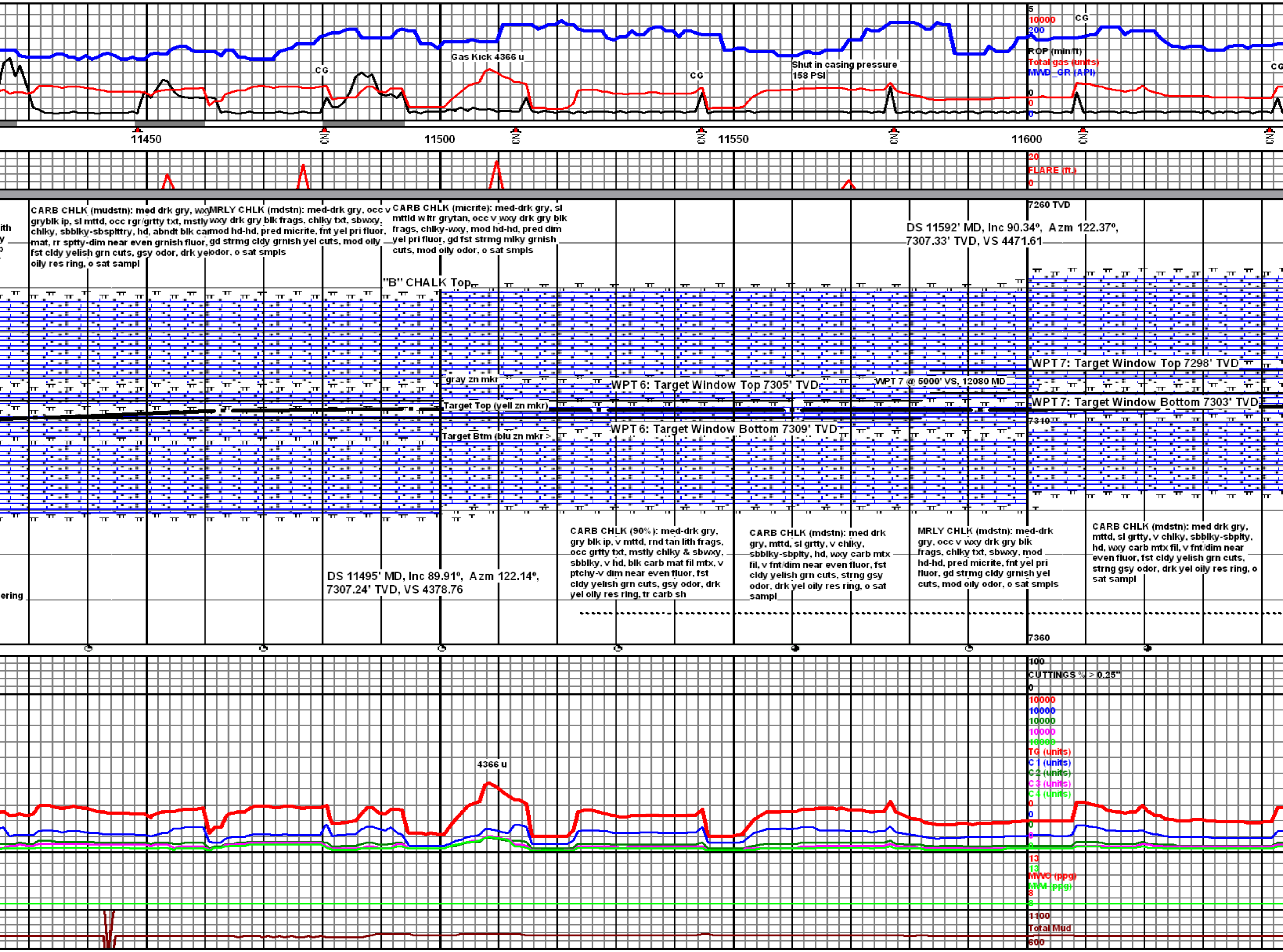


CG
CG
CG 3012
CG
5
10000
500
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
10800
10850
10900
10950
CN
20
FLARE (ft.)
0
7260 TVD
GeoSteering hold angle flat
MRLY SH: (80%) dk gy, spttd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (80%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (80%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): (70%) med gy - mttld dk gngy, chlky txt, sbchnky, mod hd, pred micrite, tr brn - wht mic - meso xln lse calct as poss frac fl, no - dull yell uni fluor, fst strmg cldy cut, g res rng, o odor, o sat smpls
CARB CHLK (mdstn): (80%) med gy - mttld dk gngy, chlky txt, sbchnky, mod hd, pred micrite, tr brn - wht mic - meso xln lse calct as poss frac fl, no - dull yell uni fluor, fst strmg cldy cut, g res rng, o odor, o sat smpls
MRLY SH: (30%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
7310
"B" CHAL
gray zn mkr
Target Top
Target Btm
Mud Data:
@ 11000'
MW 8.5
Vis 27
PV 1
YP 1
Gel 0/0
Fil 40
Sol 1.0%
pH 7.5
Cl 3000
Ca N/A
Hardness 40
Oil 0.25
"B" CH
Azm 132.34º,
DS 10854' MD, Inc 91.51º, Azm 129.21º, 7314.92' TVD, VS 3761.62
DS 10951' MD, Inc 89.18º, Azm 127.00º, 7315.16' TVD, VS 3856.88
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600
Mud Transfer

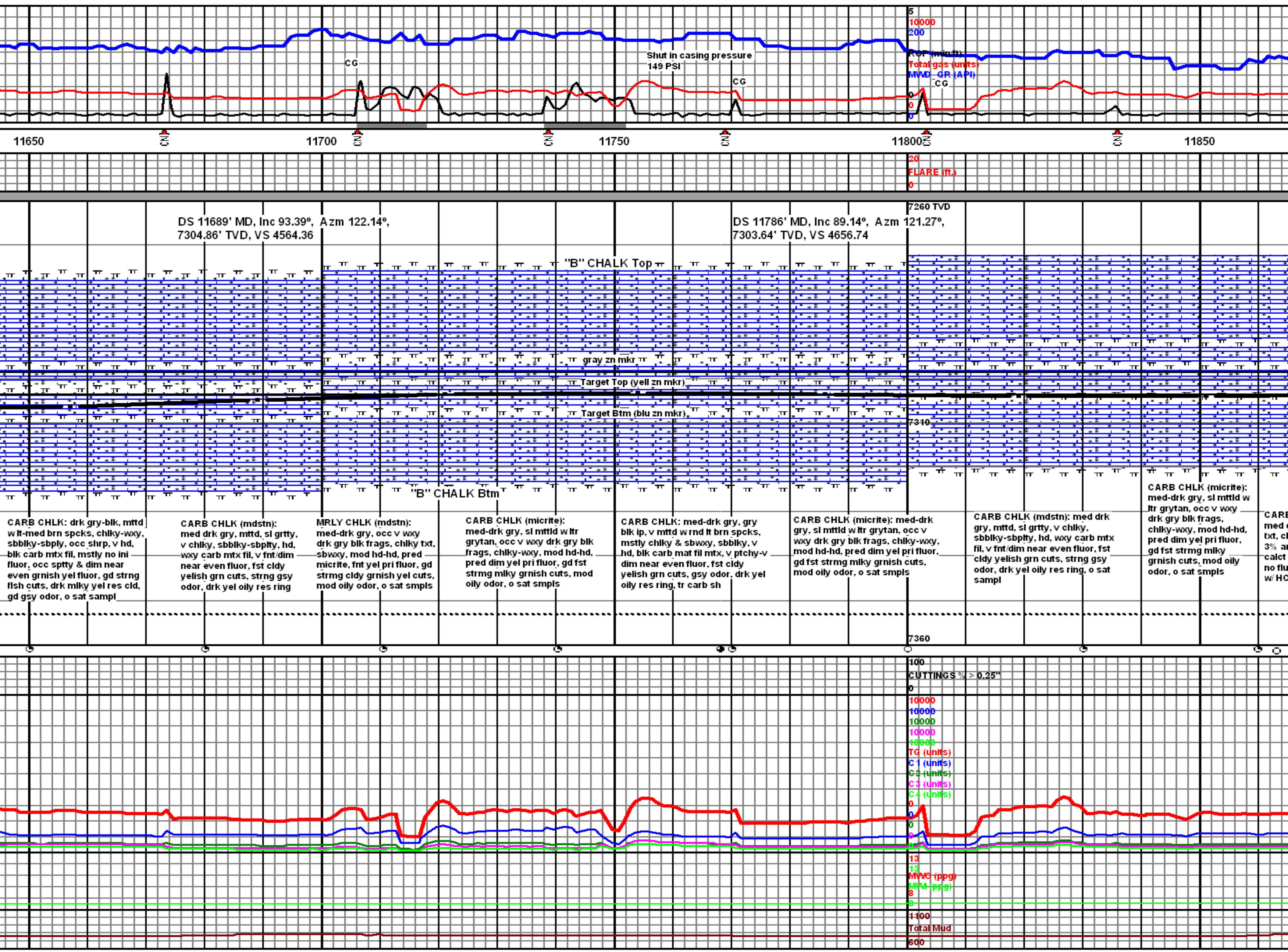


ROP (min/ft)
Total gas (units)
MWD_GR (API)
CG 3472
CG
11000
11050
11100
11150
11200
CN
FLARE (ft.)
7260 TVD
CARB CHLK (mdstn): (80%) med gy - mttld dk gngy, chlky txt, sbchnky, mod hd, pred micrite, tr brn - wht mic - meso xln lse calct as poss frac fl, no - dull yell uni fluor, fst strmg cldy cut, g res rng, o odor, o sat smpls
MRLY SH: (80%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (90%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (90%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (90%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (90%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
MRLY SH: (90%) dk gy, sptd wht ip, fn - sl fiss txt ip, sbplty, frm, v calc w/ 50% micrite 50% sh mtx, tr pyrtc, tr mic-meso brn - wht xln calct as poss frac fl, no fluor, fst cldy cut, g o odor, o sat smpls
CARB CHLK
K Top
ell zn mkr)
7310
blu zn mkr >
ALK Btm
WPT 5: Target Window Bottom 7313' TVD
WPT 5: Target Window Top 7309' TVD
WPT 6 @ 4500' VS, 11580 MD
DS 11014' MD, Inc 88.89°, Azm 126.43°, 7315.94' TVD, VS 3918.58
DS 11110' MD, Inc 90.62°, Azm 125.51°, 7316.44' TVD, VS 4012.04
DS 11207' MD,
7315.68' TVD,
7360
CUTTINGS % > 0.25"
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
MWO (ppg)
MWI (ppg)
Total Mud

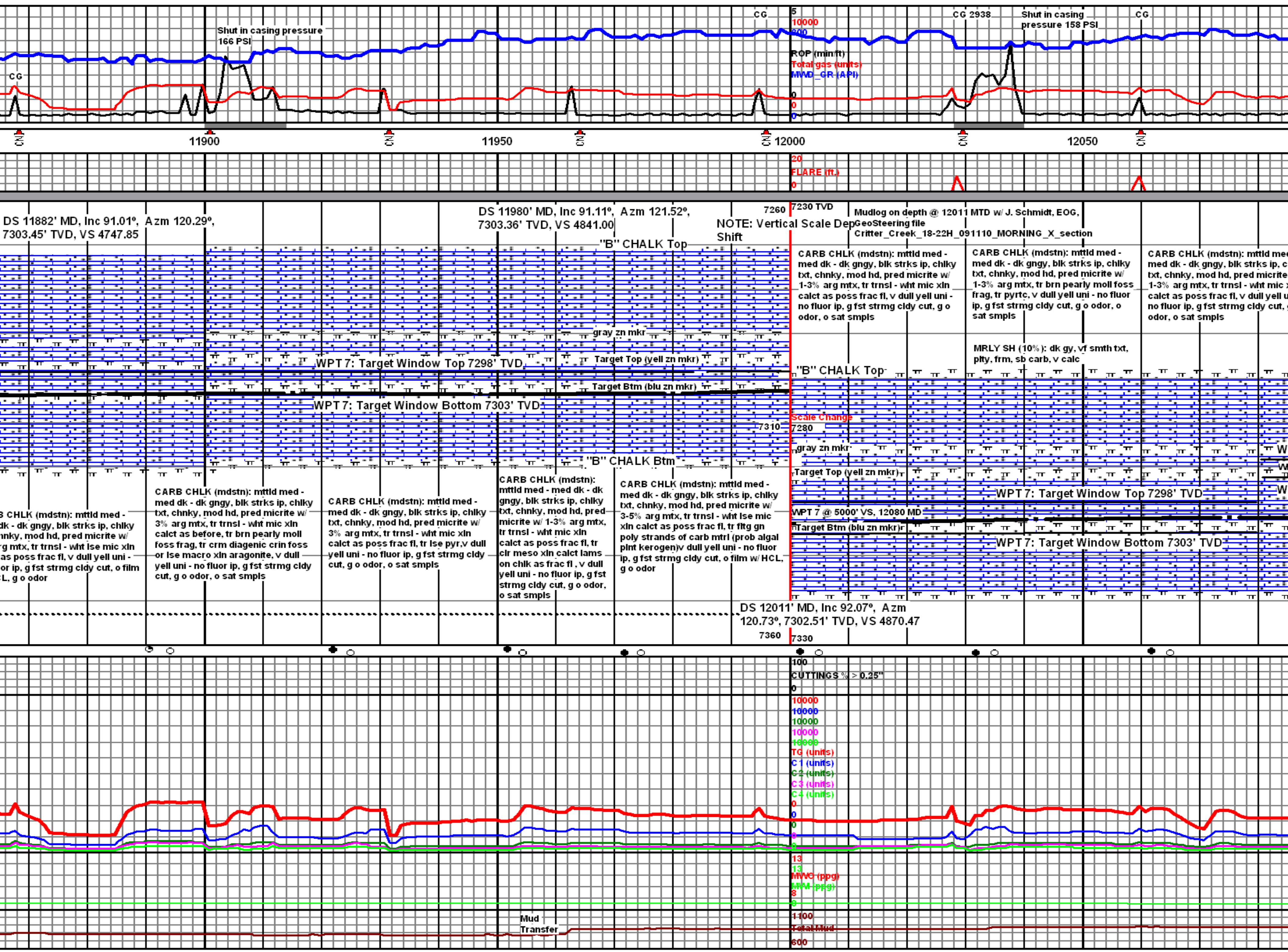

CG 2843 u
ROP (min/ft)
Total gas (units)
MWD_GR (API)
CG
CG
Shut in casing pressure
145 PSI
11250
11300
11350
11400
FLARE (ft.)
7260 TVD
CARB CHLK: drk grybrn-blk, mttd w lt-med brn spcks, chlky-wxy, sbblky-sbply, occ shrp, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, o sat sampl
CARB CHLK: med-drk gry, gry blk ip, v mttd, rnd tan lith frags, occ grtty txt, mstly chlky & sbwxy, sbblky, v hd, blk carb mat fil mtx, v ptchy-v dim near even fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring
MRLY CHLK (micrite): med drk gry, wxy gryblk ip, sl mttd, occ rgr/grtty txt, mstly chlky, sbblky-sbspltty, hd, abndt blk carb mat, rr sptty-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl
CARB CHLK (mdstn): med-drk gry, occ v wxy drk gry blk frags, chlky txt, sbwxy, mod hd-hd, pred micrite, fnt yel pri fluor, gd strmg cldy grnish yel cuts, mod oily odor, o sat smpls
No Smpl
CARB CHLK: drk gry-blk, mttd w lt-med brn spcks, chlky-wxy, sbblky-sbply, occ shrp, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, o sat sampl
CARB CHLK (90%): med-drk gry, gry blk ip, v mttd, rnd tan frags, occ grtty txt, mstly chlk & sbwxy, sbblky, v hd, blk carb mat fil mtx, v ptchy-v dim near even fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, tr carb sh
"B" CHALK Top
WPT 6: Target Window Top 7305' TVD
WPT 6: Target Window Bottom 7309' TVD
gray zn mkr
Target Top (yell zn mkr)
Target Btm (blu zn mkr >
"B" CHALK Btm
Inc 90.46°, Azm 122.03°,
VS 4105.54
DS 11302' MD, Inc 91.51°, Azm 120.35°,
7314.49' TVD, VS 4195.78
DS 11399' MD, Inc 93.21°, Azm 119.99°,
7311.11' TVD, VS 4287.38
Mudlog on depth @ 11400 MTD w/ J. Schmidt, EOG, GeoSte
file Critter_Creek_18-22H_091010_EVENING_X_section
7360
CUTTINGS % > 0.25"
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
MWG (ppg)
MW (ppg)
Total Mud

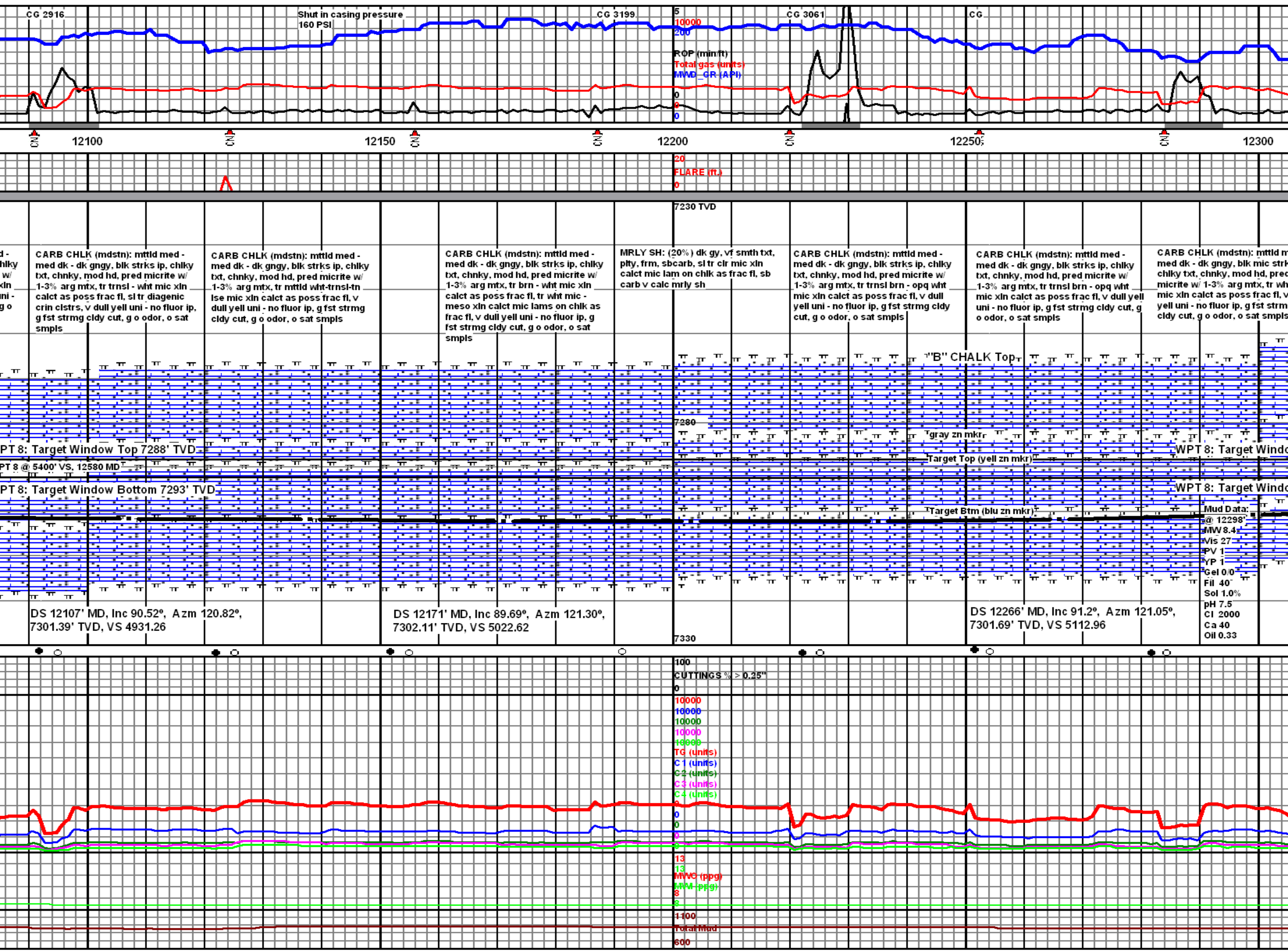


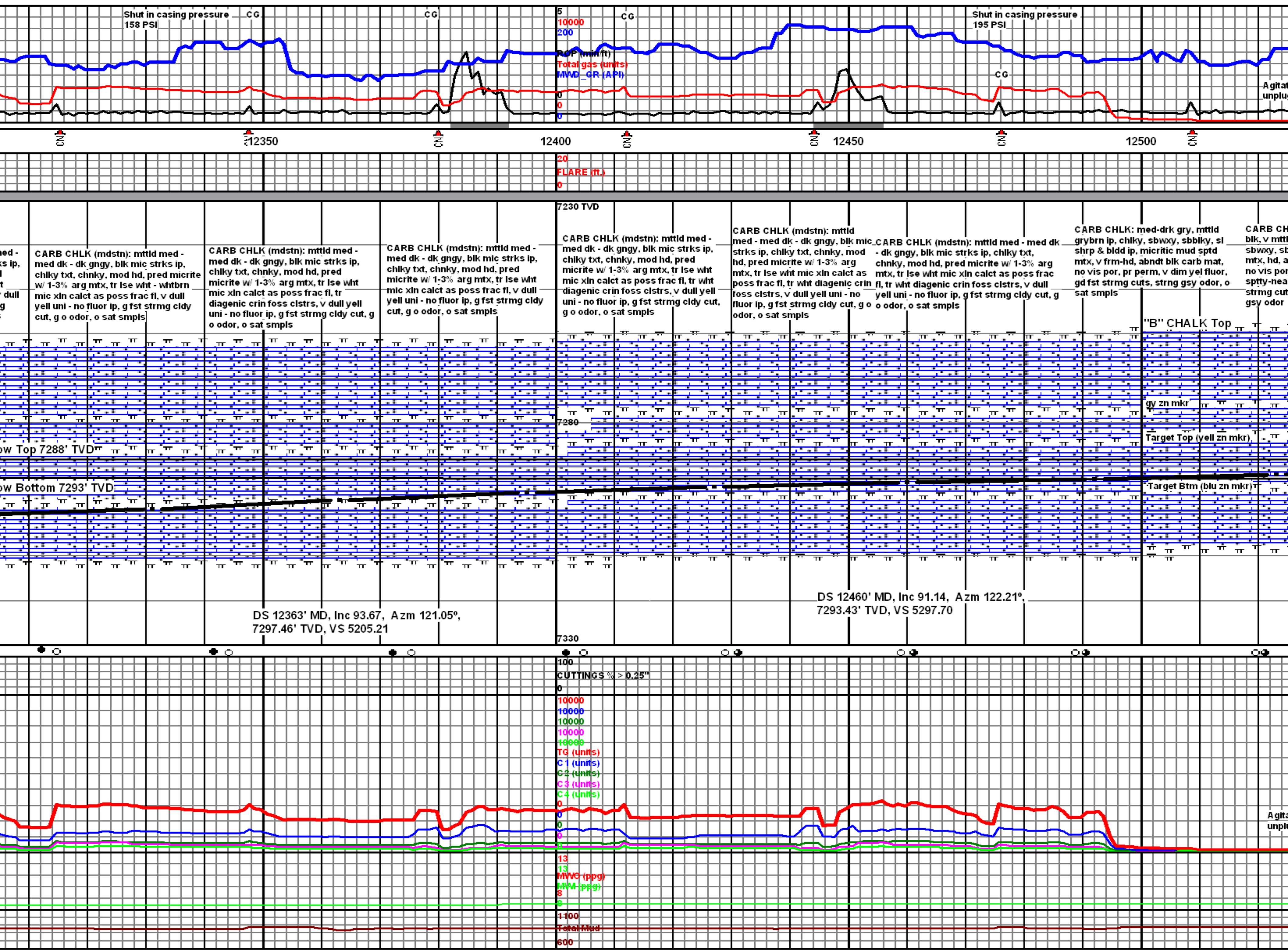
ROP (min/ft)
Total gas (units)
MWD_GR (API)
5
10000
200
0
0
0
CG
Gas Kick 4366 u
Shut in casing pressure 158 PSI
11450
11500
11550
11600
CN
20
FLARE (ft.)
0
CARB CHLK (mudstn): med drk gry, wxy gryblk ip, sl mttd, occ rgr/grtty txt, mstly chlky, sbblky-sbspltty, hd, abndt blk carb mat, rr sptty-dim near even grnish fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, o sat sampl
MRLY CHLK (mdstn): med-drk gry, occ v wxy drk gry blk frags, chlky txt, sbwxy, mod hd-hd, pred micrite, fnt yel pri fluor, gd strmg cldy grnish yel cuts, mod oily odor, o sat smpls
CARB CHLK (micrite): med-drk gry, sl mttld w ltr grytan, occ v wxy drk gry blk frags, chlky-wxy, mod hd-hd, pred dim yel pri fluor, gd fst strmg mlky grnish cuts, mod oily odor, o sat smpls
7260 TVD
DS 11592' MD, Inc 90.34°, Azm 122.37°, 7307.33' TVD, VS 4471.61
"B" CHALK Top
WPT 7: Target Window Top 7298' TVD
gray zn mkr
WPT 6: Target Window Top 7305' TVD
WPT 7 @ 5000' VS, 12080 MD
Target Top (yell zn mkr)
WPT 7: Target Window Bottom 7303' TVD
7310
Target Btm (blu zn mkr >
WPT 6: Target Window Bottom 7309' TVD
CARB CHLK (90%): med-drk gry, gry blk ip, v mttd, rnd tan lith frags, occ grtty txt, mstly chlky & sbwxy, sbblky, v hd, blk carb mat fil mtx, v ptchy-v dim near even fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, tr carb sh
CARB CHLK (mdstn): med drk gry, mttd, sl grtty, v chlky, sbblky-sbplty, hd, wxy carb mtx fil, v fnt/dim near even fluor, fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring, o sat sampl
MRLY CHLK (mdstn): med-drk gry, occ v wxy drk gry blk frags, chlky txt, sbwxy, mod hd-hd, pred micrite, fnt yel pri fluor, gd strmg cldy grnish yel cuts, mod oily odor, o sat smpls
CARB CHLK (mdstn): med drk gry, mttd, sl grtty, v chlky, sbblky-sbplty, hd, wxy carb mtx fil, v fnt/dim near even fluor, fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring, o sat sampl
DS 11495' MD, Inc 89.91°, Azm 122.14°, 7307.24' TVD, VS 4378.76
ering
7360
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
4366 u
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600

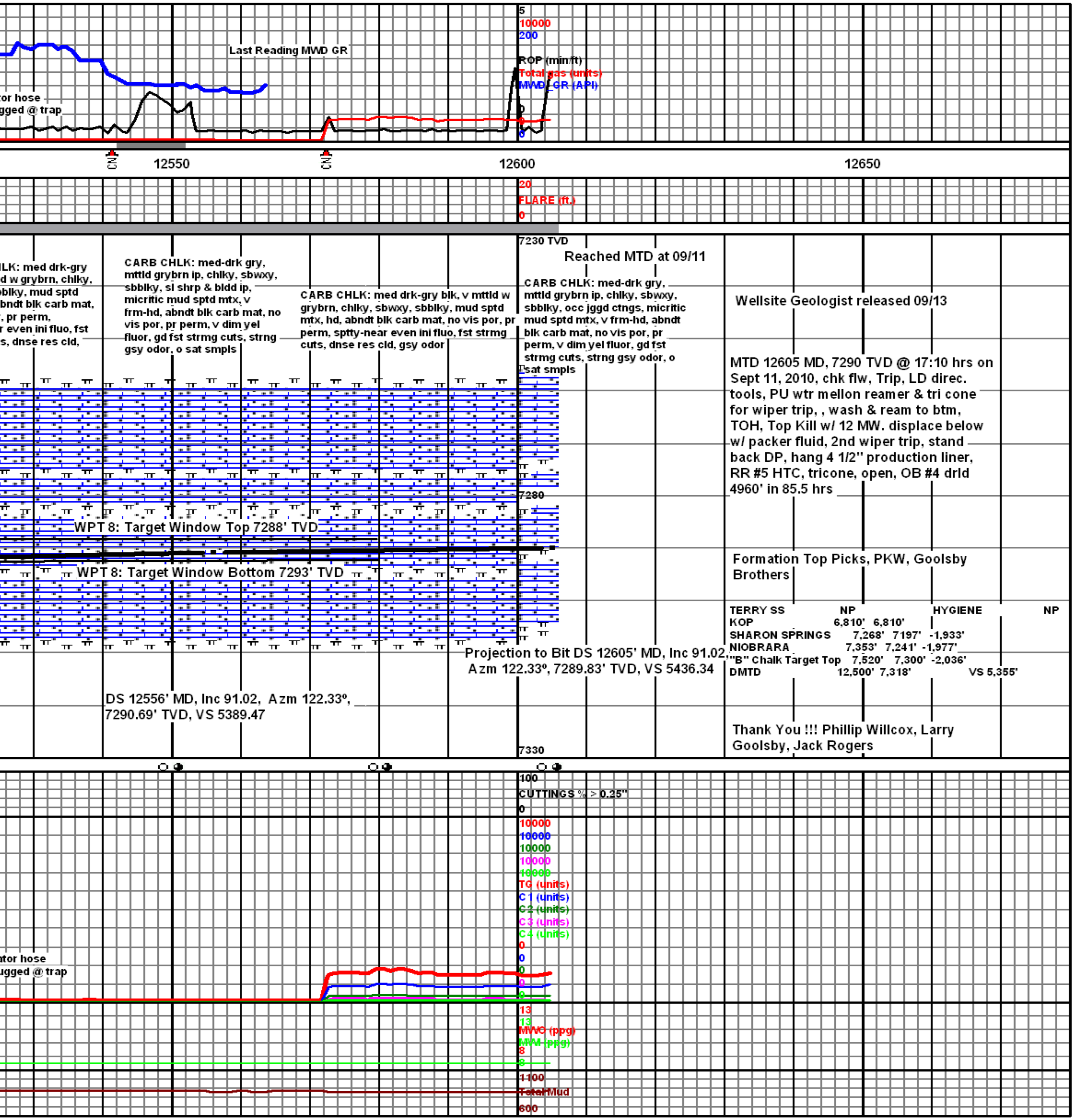


ROP (min/ft)
Total gas (units)
MWD_GR (API)
5
10000
200
0
0
0
CG
Shut in casing pressure
149 PSI
CN
11650
11700
11750
11800
11850
FLARE (ft.)
20
0
7260 TVD
7310
7360
DS 11689' MD, Inc 93.39°, Azm 122.14°,
7304.86' TVD, VS 4564.36
DS 11786' MD, Inc 89.14°, Azm 121.27°,
7303.64' TVD, VS 4656.74
"B" CHALK Top
gray zn mkr
Target Top (yell zn mkr)
Target Btm (blu zn mkr)
"B" CHALK Btm
CARB CHLK: drk gry-blk, mttd w lt-med brn spcks, chlky-wxy, sbblky-sbply, occ shrp, v hd, blk carb mtx fil, mstly no ini fluor, occ sptty & dim near even grnish yel fluor, gd strng flsh cuts, drk mlky yel res cld, gd gsy odor, o sat sampl
CARB CHLK (mdstn): med drk gry, mttd, sl grtty, v chlky, sbblky-sbplty, hd, wxy carb mtx fil, v fnt/dim near even fluor, fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring
MRLY CHLK (mdstn): med-drk gry, occ v wxy drk gry blk frags, chlky txt, sbwxy, mod hd-hd, pred micrite, fnt yel pri fluor, gd strmg cldy grnish yel cuts, mod oily odor, o sat smpls
CARB CHLK (micrite): med-drk gry, sl mttld w ltr grytan, occ v wxy drk gry blk frags, chlky-wxy, mod hd-hd, pred dim yel pri fluor, gd fst strmg mlky grnish cuts, mod oily odor, o sat smpls
CARB CHLK: med-drk gry, gry blk ip, v mttd w rnd lt brn spcks, mstly chlky & sbwxy, sbblky, v hd, blk carb mat fil mtx, v ptchy-v dim near even fluor, fst cldy yelish grn cuts, gsy odor, drk yel oily res ring, tr carb sh
CARB CHLK (micrite): med-drk gry, sl mttld w ltr grytan, occ v wxy drk gry blk frags, chlky-wxy, mod hd-hd, pred dim yel pri fluor, gd fst strmg mlky grnish cuts, mod oily odor, o sat smpls
CARB CHLK (mdstn): med drk gry, mttd, sl grtty, v chlky, sbblky-sbplty, hd, wxy carb mtx fil, v fnt/dim near even fluor, fst cldy yelish grn cuts, strng gsy odor, drk yel oily res ring, o sat sampl
CARB CHLK (micrite): med-drk gry, sl mttld w ltr grytan, occ v wxy drk gry blk frags, chlky-wxy, mod hd-hd, pred dim yel pri fluor, gd fst strmg mlky grnish cuts, mod oily odor, o sat smpls
CARB
med
txt, cl
3% a
calct
no flu
w/ HC
CUTTINGS % > 0.25"
100
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600


CG
Shut in casing pressure 166 PSI
CG
CG 2938
Shut in casing pressure 158 PSI
CG
5
10000
800
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
11900
11950
12000
12050
CN
20
FLARE (ft.)
0
DS 11882' MD, Inc 91.01°, Azm 120.29°, 7303.45' TVD, VS 4747.85
DS 11980' MD, Inc 91.11°, Azm 121.52°, 7303.36' TVD, VS 4841.00
7260
7230 TVD
NOTE: Vertical Scale Dep Shift
Mudlog on depth @ 12011 MTD w/ J. Schmidt, EOG, GeoSteering file Critter_Creek_18-22H_091110_MORNING_X_section
"B" CHALK Top
gray zn mkr
Target Top (yell zn mkr)
WPT 7: Target Window Top 7298' TVD
Target Btm (blu zn mkr)
WPT 7: Target Window Bottom 7303' TVD
7310
Scale Change
7280
"B" CHALK Btm
"B" CHALK Top
gray zn mkr
Target Top (yell zn mkr)
WPT 7: Target Window Top 7298' TVD
WPT 7 @ 5000' VS, 12080 MD
Target Btm (blu zn mkr)
WPT 7: Target Window Bottom 7303' TVD
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr trnsl - wht mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr brn pearly moll foss frag, tr pyrtc, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr trnsl - wht mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
MRLY SH (10%): dk gy, vf smth txt, plty, frm, sb carb, v calc
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 3% arg mtx, tr trnsl - wht lse mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, o film w/ HCL, g o odor
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 3% arg mtx, tr trnsl - wht mic xln calct as before, tr brn pearly moll foss frag, tr crm diagenic crin foss or lse macro xln aragonite, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 3% arg mtx, tr trnsl - wht mic xln calct as poss frac fl, tr lse pyr,v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr trnsl - wht mic xln calct as poss frac fl, tr clr meso xln calct lams on chlk as frac fl , v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 3-5% arg mtx, tr trnsl - wht lse mic xln calct as poss frac fl, tr fltg gn poly strands of carb mtrl (prob algal plnt kerogen)v dull yell uni - no fluor ip, g fst strmg cldy cut, o film w/ HCL, g o odor
DS 12011' MD, Inc 92.07°, Azm 120.73°, 7302.51' TVD, VS 4870.47
7360
7330
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600
Mud Transfer


CG 2916
Shut in casing pressure
160 PSI
CG 3199
CG 3061
CG
5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
CN
12100
12150
12200
12250
12300
20
FLARE (ft.)
0
7230 TVD
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr trnsl - wht mic xln calct as poss frac fl, sl tr diagenic crin clstrs, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr mttld wht-trnsl-tn lse mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr brn - wht mic xln calct as poss frac fl, tr wht mic - meso xln calct mic lams on chlk as frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
MRLY SH: (20%) dk gy, vf smth txt, plty, frm, sbcarb, sl tr clr mic xln calct mic lam on chlk as frac fl, sb carb v calc mrly sh
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr trnsl brn - opq wht mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr trnsl brn - opq wht mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk mic strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr wht mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
"B" CHALK Top
7280
gray zn mkr
Target Top (yell zn mkr)
Target Btm (blu zn mkr)
PT 8: Target Window Top 7288' TVD
PT 8 @ 5400' VS, 12580 MD
PT 8: Target Window Bottom 7293' TVD
WPT 8: Target Windo
WPT 8: Target Windo
Mud Data:
@ 12298'
MW 8.4
Vis 27
PV 1
YP 1
Gel 0/0
Fil 40
Sol 1.0%
pH 7.5
Cl 2000
Ca 40
Oil 0.33
DS 12107' MD, Inc 90.52°, Azm 120.82°, 7301.39' TVD, VS 4931.26
DS 12171' MD, Inc 89.69°, Azm 121.30°, 7302.11' TVD, VS 5022.62
DS 12266' MD, Inc 91.2°, Azm 121.05°, 7301.69' TVD, VS 5112.96
7330
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
13
13
MWO (ppg)
MWI (ppg)
8
8
1100
Total Mud
600


Shut in casing pressure
158 PSI
CG
CG
CG
Shut in casing pressure
195 PSI
CG
5
10000
200
ROP (min/ft)
Total gas (units)
MWD_GR (API)
0
0
0
Agitator unplugged
CN
12350
12400
12450
12500
20
FLARE (ft.)
0
7230 TVD
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk mic strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr lse wht - whtbrn mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk mic strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr lse wht mic xln calct as poss frac fl, tr diagenic crin foss clstrs, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk mic strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr lse wht mic xln calct as poss frac fl, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk mic strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr lse wht mic xln calct as poss frac fl, tr wht diagenic crin foss clstrs, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk mic strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr lse wht mic xln calct as poss frac fl, tr wht diagenic crin foss clstrs, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK (mdstn): mttld med - med dk - dk gngy, blk mic strks ip, chlky txt, chnky, mod hd, pred micrite w/ 1-3% arg mtx, tr lse wht mic xln calct as poss frac fl, tr wht diagenic crin foss clstrs, v dull yell uni - no fluor ip, g fst strmg cldy cut, g o odor, o sat smpls
CARB CHLK: med-drk gry, mttld grybrn ip, chlky, sbwxy, sbblky, sl shrp & bldd ip, micritic mud sptd mtx, v frm-hd, abndt blk carb mat, no vis por, pr perm, v dim yel fluor, gd fst strmg cuts, strng gsy odor, o sat smpls
"B" CHALK Top
gy zn mkr
Target Top (yell zn mkr)
Target Btm (blu zn mkr)
7280
ow Top 7288' TVD
ow Bottom 7293' TVD
DS 12363' MD, Inc 93.67, Azm 121.05°, 7297.46' TVD, VS 5205.21
DS 12460' MD, Inc 91.14, Azm 122.21°, 7293.43' TVD, VS 5297.70
7330
100
CUTTINGS % > 0.25"
0
10000
10000
10000
10000
10000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
13
13
MWC (ppg)
MW (ppg)
8
8
1100
Total Mud
600


Last Reading MWD GR
ROP (min/ft)
Total gas (units)
MWD GR (API)
or hose
gged @ trap
CN
12550
12600
12650
FLARE (ft.)
7230 TVD
Reached MTD at 09/11
LK: med drk-gry
d w grybrn, chlky,
blky, mud sptd
bndt blk carb mat,
, pr perm,
r even ini fluo, fst
s, dnse res cld,
CARB CHLK: med-drk gry, mttld grybrn ip, chlky, sbwxy, sbblky, sl shrp & bldd ip, micritic mud sptd mtx, v frm-hd, abndt blk carb mat, no vis por, pr perm, v dim yel fluor, gd fst strmg cuts, strng gsy odor, o sat smpls
CARB CHLK: med drk-gry blk, v mttld w grybrn, chlky, sbwxy, sbblky, mud sptd mtx, hd, abndt blk carb mat, no vis por, pr perm, sptty-near even ini fluo, fst strmg cuts, dnse res cld, gsy odor
CARB CHLK: med-drk gry, mttld grybrn ip, chlky, sbwxy, sbblky, occ jggd ctngs, micritic mud sptd mtx, v frm-hd, abndt blk carb mat, no vis por, pr perm, v dim yel fluor, gd fst strmg cuts, strng gsy odor, o sat smpls
Wellsite Geologist released 09/13
MTD 12605 MD, 7290 TVD @ 17:10 hrs on Sept 11, 2010, chk flw, Trip, LD direc. tools, PU wtr mellon reamer & tri cone for wiper trip, , wash & ream to btm, TOH, Top Kill w/ 12 MW. displace below w/ packer fluid, 2nd wiper trip, stand back DP, hang 4 1/2" production liner, RR #5 HTC, tricone, open, OB #4 drld 4960' in 85.5 hrs
7280
WPT 8: Target Window Top 7288' TVD
WPT 8: Target Window Bottom 7293' TVD
Formation Top Picks, PKW, Goolsby Brothers
TERRY SS NP HYGIENE NP
KOP 6,810' 6,810'
SHARON SPRINGS 7,268' 7197' -1,933'
NIOBRARA 7,353' 7,241' -1,977'
"B" Chalk Target Top 7,520' 7,300' -2,036'
DMTD 12,500' 7,318' VS 5,355'
Projection to Bit DS 12605' MD, Inc 91.02, Azm 122.33°, 7289.83' TVD, VS 5436.34
DS 12556' MD, Inc 91.02, Azm 122.33°, 7290.69' TVD, VS 5389.47
Thank You !!! Phillip Willcox, Larry Goolsby, Jack Rogers
7330
CUTTINGS % > 0.25"
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
tor hose
ugged @ trap
MWO (ppg)
MWI (ppg)
Total Mud