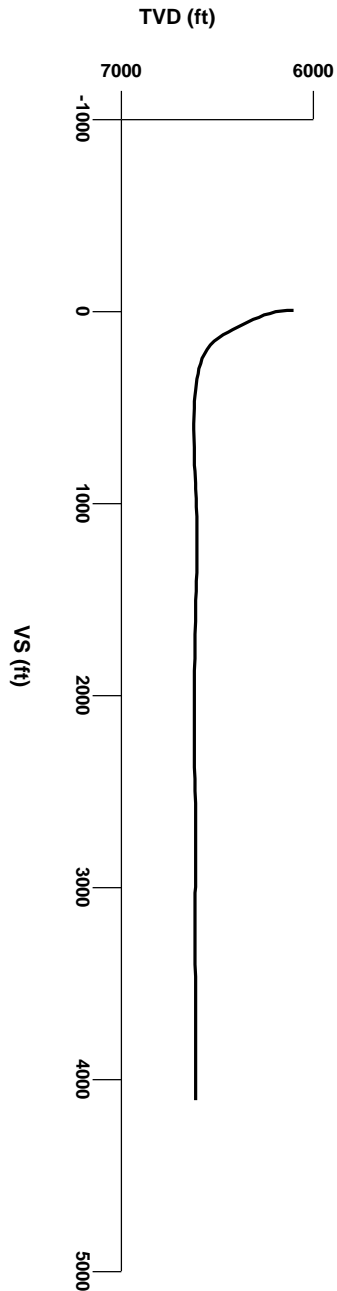




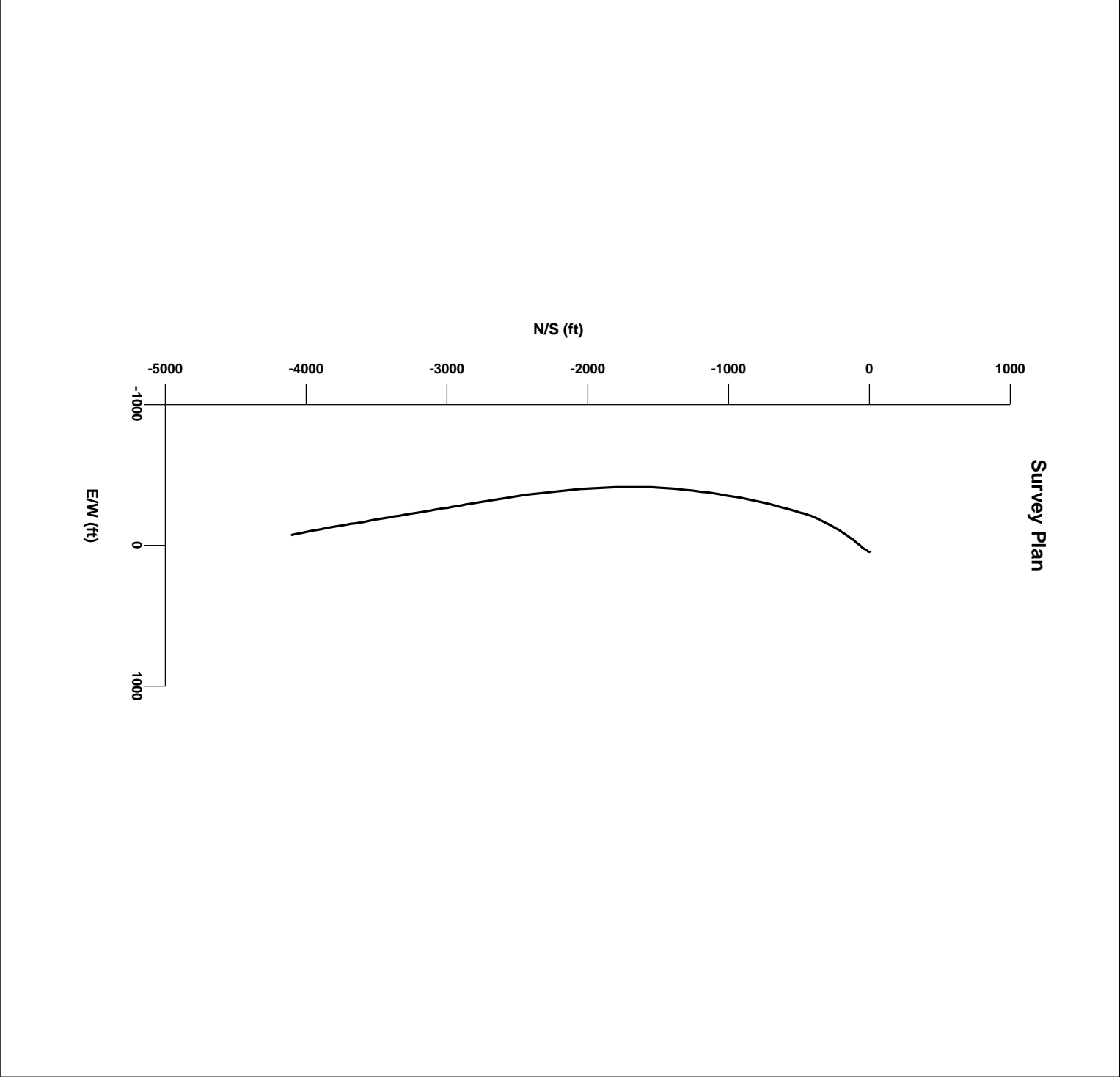
LOG created using LPLOT VH Version 3.0, October 22, 2011, Copyright (C) 1999-2009 Pason Systems Corp.

OPERATOR: Continental Resources
WELL: Perrin 10-4 H
PRINT DATE: 10/22/2011 10:02:19 AM

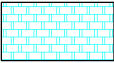


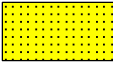
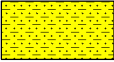
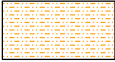
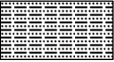
LOCATION: Sec10 / T7N / R62W
COUNTY: Weld
STATE: Colorado








Survey Elevation





LITHOLOGIES

 Chalk	 Coal	 Marl	 Sandstone
 Shaly Sandstone	 Shaly Siltstone	 Silty Shale	

ENGINEERING SYMBOLS

 Bit Change	 Casing	 Casing
 Connection Gas	 Midnight Depth	

BAR SYMBOLS

	
---	---

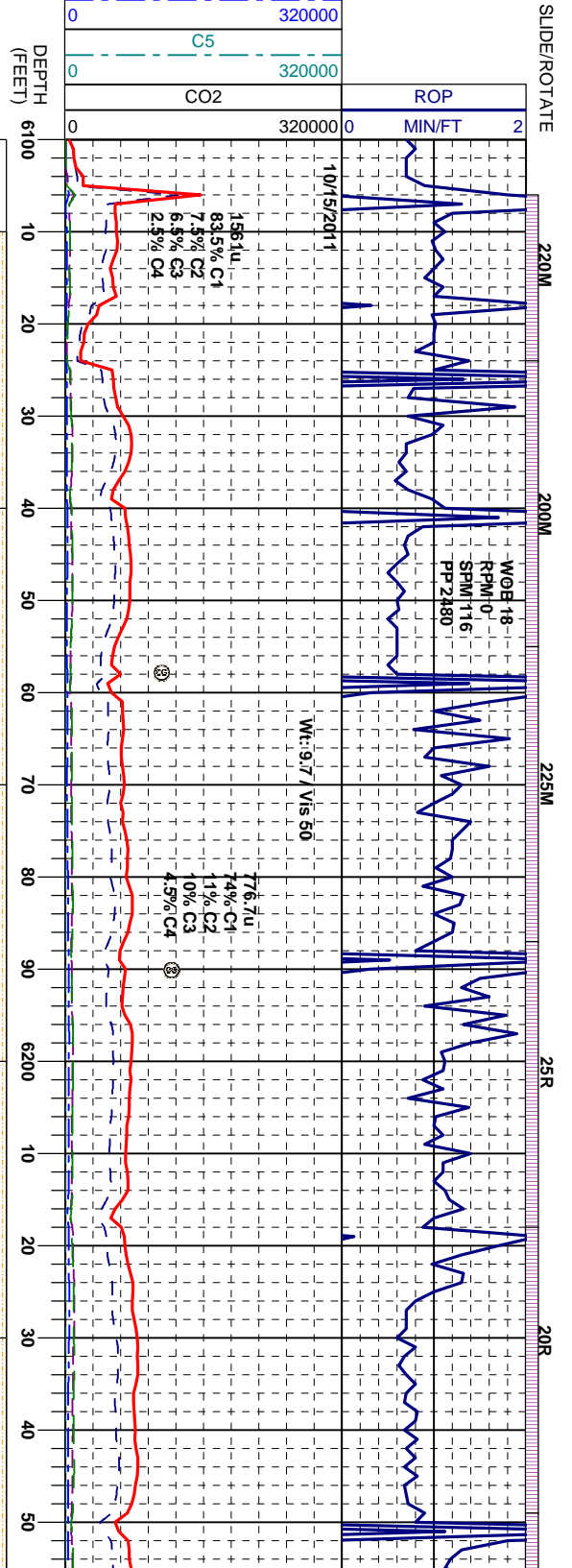


Rotating

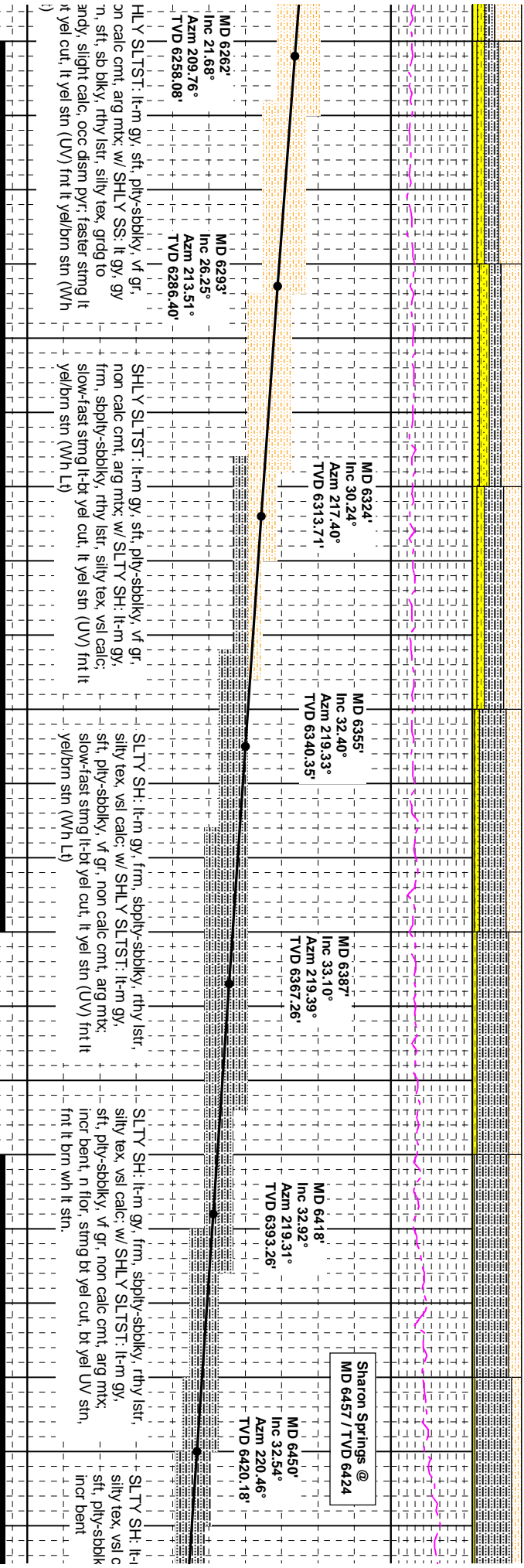
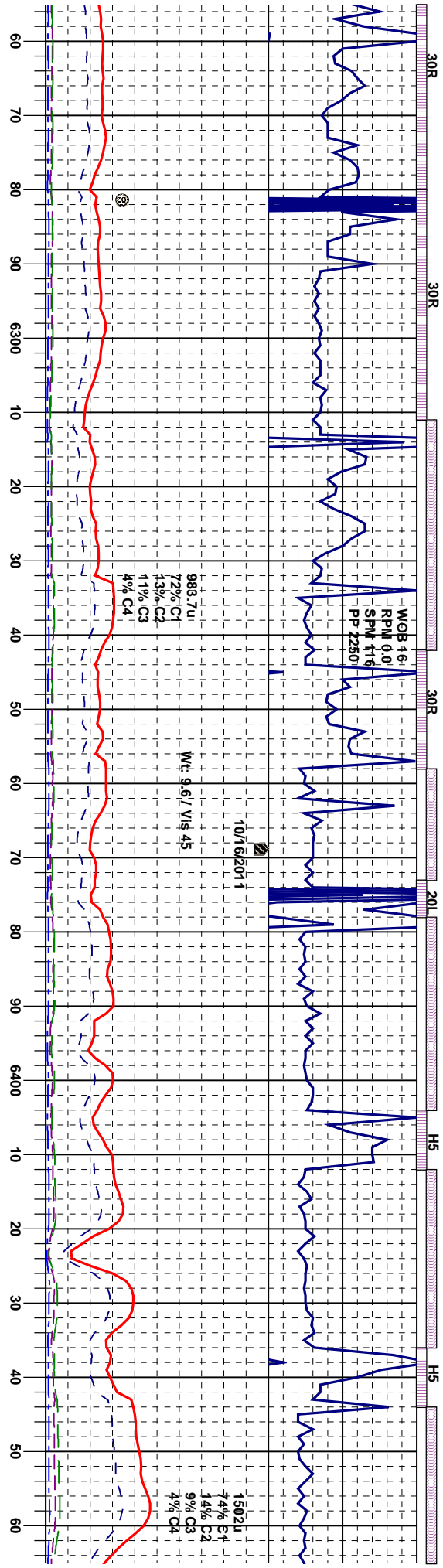


Sliding

GAS		
0	UNITS	32000
0	C1	320000
0	C2	320000
0	C3	320000
0	C4	320000
0	C5	320000



SAMPLE PHOTOS



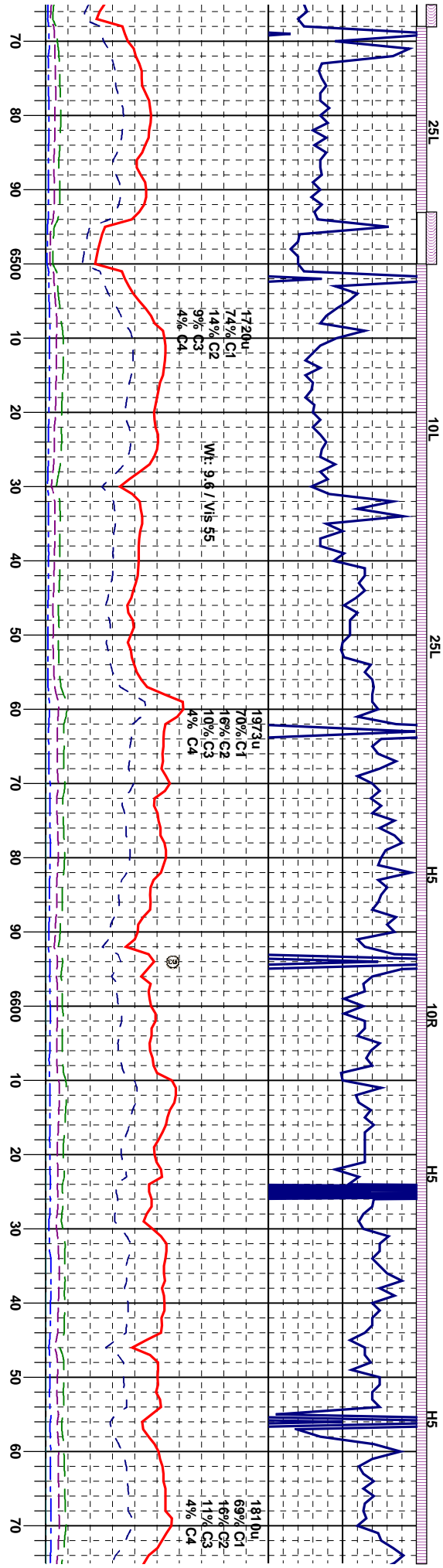
HL Y SLTST: lt-m gy, sft, pily-sbbkly, v' gr,
on calc cnt, arg mix, w/ SHLY SS, lt gy, gy
n, sft, sb blkly, rthy lsfr, silty tex, grdg to
andy, slight calc, occ dism pyr, faster string it
it yel cut, lt yel sin (UV) frnt lt yel/brn sin (Wh
)

SHLY SLTST: lt-m gy, sft, pily-sbbkly, v' gr,
non calc cnt, arg mix, w/ SLTY SH: lt-m gy,
frm, sbbply-sbbkly, rthy lsfr, silty tex, vsi calc,
slow-fast string lt-bt yel cut, lt yel sin (UV) frnt lt
yel/brn sin (Wh Lt)

SLTY SH: lt-m gy, frm, sbbply-sbbkly, rthy lsfr,
silty tex, vsi calc, w/ SHLY SLTST: lt-m gy,
sft, pily-sbbkly, v' gr, non calc cnt, arg mix,
slow-fast string lt-bt yel cut, lt yel sin (UV) frnt lt
yel/brn sin (Wh Lt)

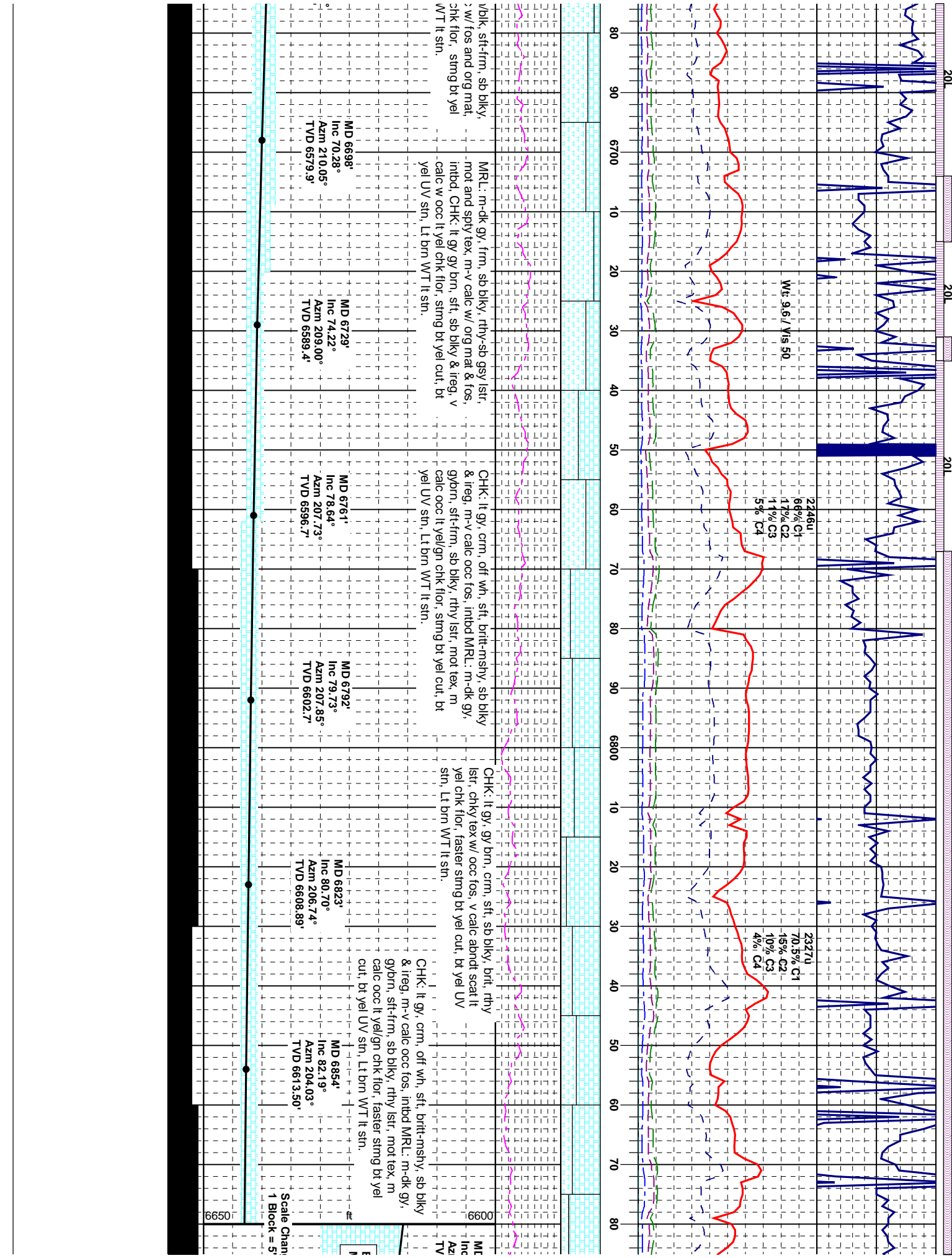
SLTY SH: lt-m gy, frm, sbbply-sbbkly, rthy lsfr,
silty tex, vsi calc, w/ SHLY SLTST: lt-m gy,
sft, pily-sbbkly, v' gr, non calc cnt, arg mix,
incr bent, n floor, string bt yel cut, bt yel UV str,
frnt lt brn wh lt str.

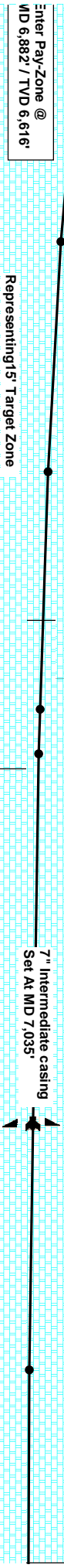
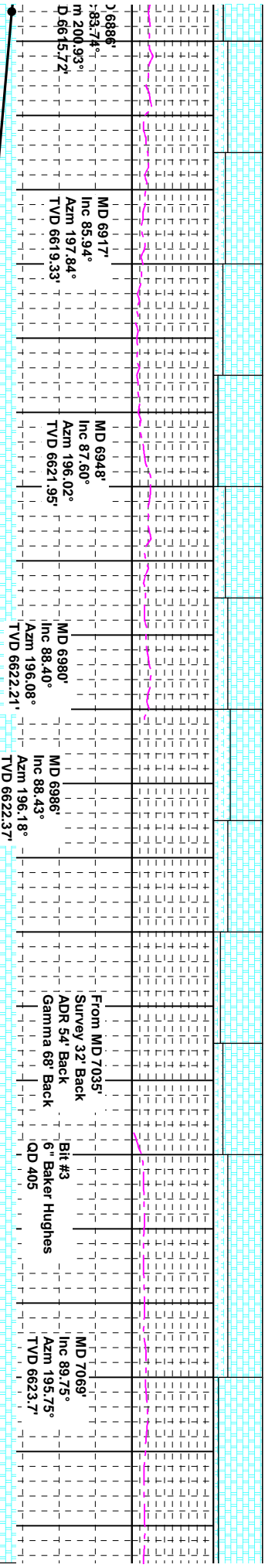
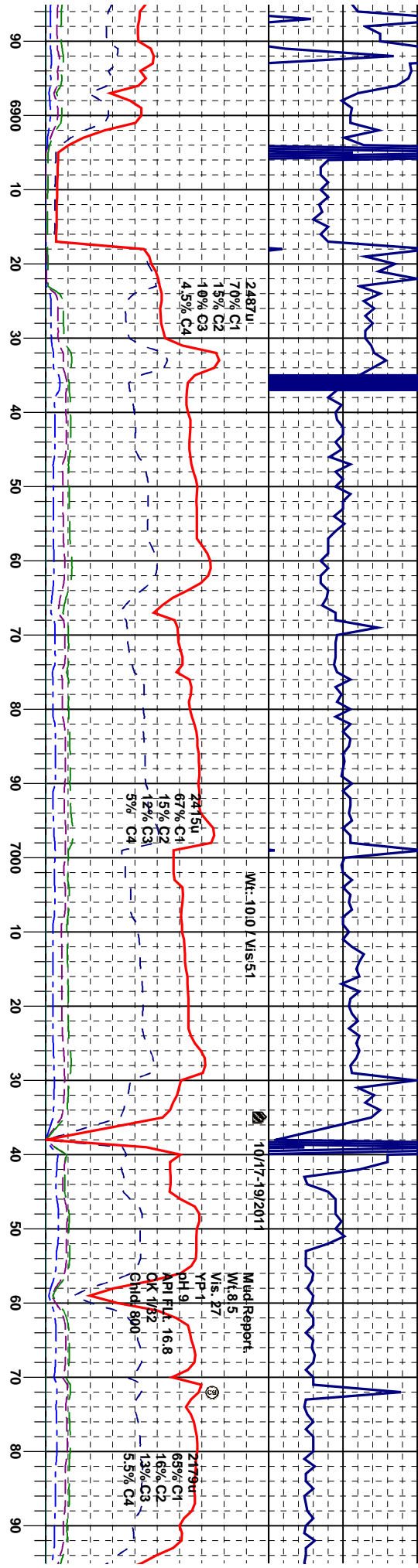
SLTY SH: lt-m
silty tex, vsi c
sft, pily-sbbk
incr bent



MD 6481' Inc 34.07° Azm 218.52° TVD 6446.1'	MD 6511' Inc 37.3° Azm 218.85° TVD 6470.45'	MD 6542' Inc 42.02° Azm 215.20° TVD 6494.31'	MD 6574' Inc 47.40° Azm 213.96° TVD 6517.04'	MD 6505' Inc 53.12° Azm 213.86° TVD 6536.9'	MD 6635' Inc 59.35° Azm 213.86° TVD 6553.5'	MD 6667' Inc 65.51° Azm 211.69° TVD 6568.3'
Niobrara @ MD 6520 / TVD 6476						

m gy, frm, sply-sbply, rthy lstr,
alc; w/ SHLY SLTST: lt-m gy,
y, vif gr, non calc cnt, arg mnx





CHK: It gy, gy brn, crm, sft, sb blkly, brlt, rthy
lsfr, chky tex w/ occ fos, v calc abndt scat It
yel chk flor, faster stimg bt yel cut, bt yel UV
stin, Lt brn WT It sin.

CHK: It gy, crm, off wh, sft, brit-msny, sb blkly
& irreg, m-v calc occ fos, inliam MRL: m-dk gy,
gybrn, sft-firm, sb blkly, rthy lsfr, mot tex, m
calc occ It yel/gn chk flor, faster stimg bt yel
cut, bt yel UV stin, Lt brn WT It sin.

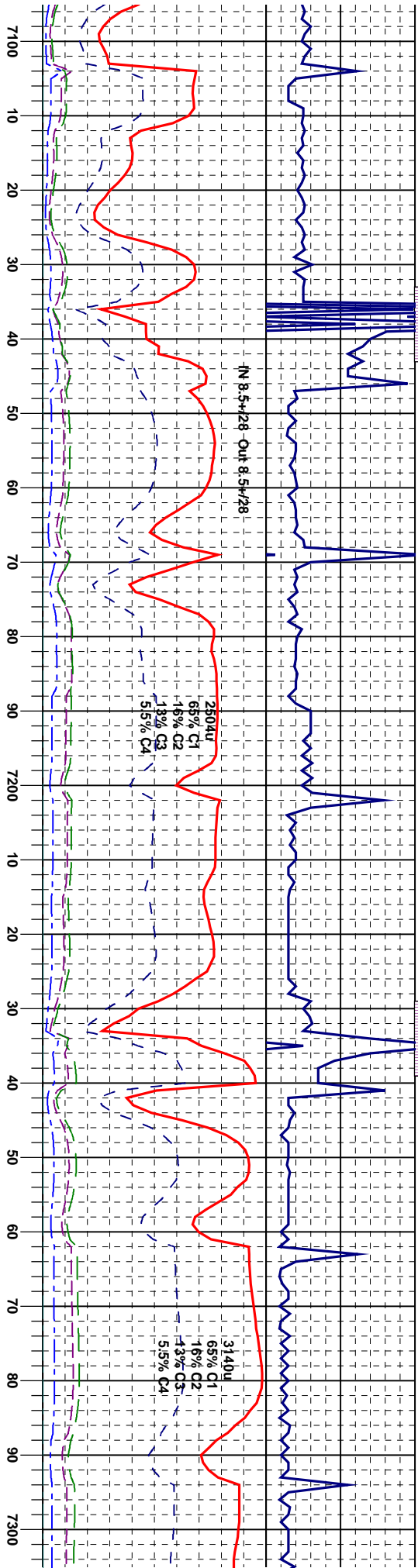
CHK: It gy, gy brn, crm, sft, sb blkly, brlt, rthy
lsfr, chky tex w/ occ fos, v calc abndt scat It
yel chk flor, faster stimg bt yel cut, bt yel UV
stin, Lt brn WT It sin.

CHK: It gy, w/ sply dk gy streaks, sft, brlt, sb
blkly, rthy lsfr, chky & mot tex, fos, v calc, scat
It yel chk flor, fast stimg bt yel cut, bt yel UV
stin It brn WH It sin

Enter Pay-Zone @
MD 6,882' / TVD 6,616'

Representing 15' Target Zone

7" intermediate casing
Set At MD 7,035'



MD 7101'	Inc 89.81°	Azm 195.48°	TVD 6623.8'
MD 7197'	Inc 91.11°	Azm 193.86°	TVD 6623.0'
MD 7291'	Inc 92.41°	Azm 192.20°	TVD 6620.1'

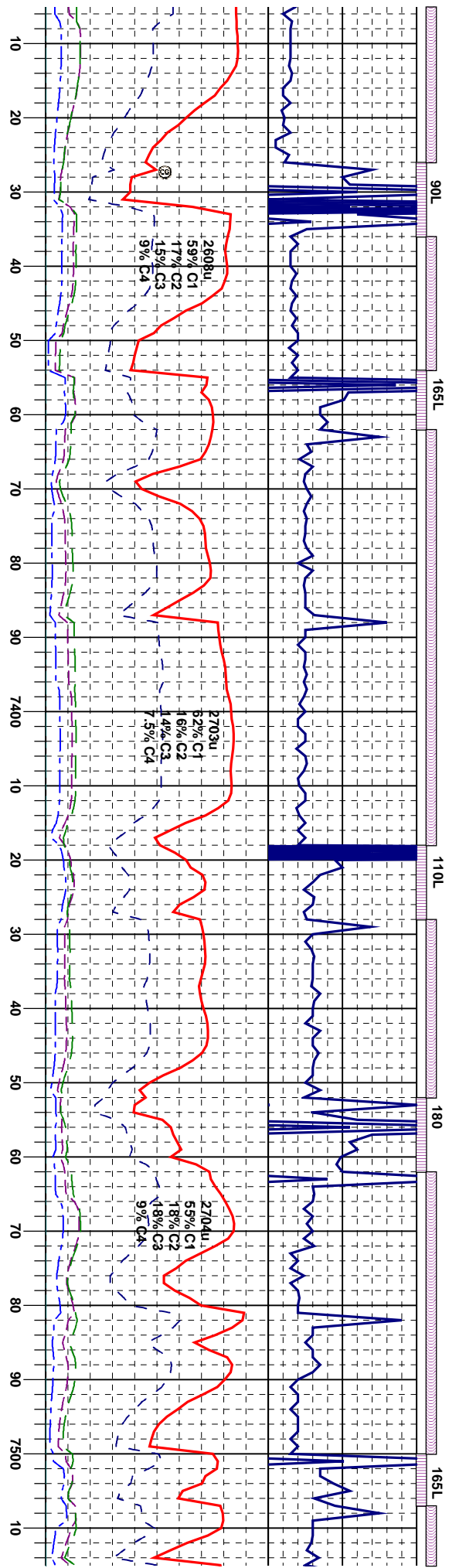
CHK: It gy, w/ spy dk gy streaks, occ wh, sft, brit, sb blk, rthy lstr, chky & mot tex, fos, v calc, scat It yel chk flor, fast sting bt yel cut, bt yel UV sin It brn WH It sin

CHK: It gy & wh, occ m gy, sft, sb blk, rthy lstr, mot & chky tex, v calc w/ dk gy stks, abndt It yel chk flor, fast sting bt yel cut, bt yel UV sin It brn WH It sin

CHK: m-dk gy, crm, wh, sft, brit, pily& blk, rthy lstr, mot & chky tex, m-v calc w/ fos abndt It yel chk flor, fast sting bt yel cut, bt yel UV sin It brn WH It sin

CHK: m-dk gy, crm, wh, sft, brit, pily& blk, rthy lstr, mot & chky tex, m-v calc w/ fos, scat It yel chk flor, fast sting to flashing bt yel cut, bt yel UV sin It brn WH It sin

fa: sin



<<<<<<<Top Of Target>>>>>>>

<<<<<<<Top Of Target>>>>>>>!

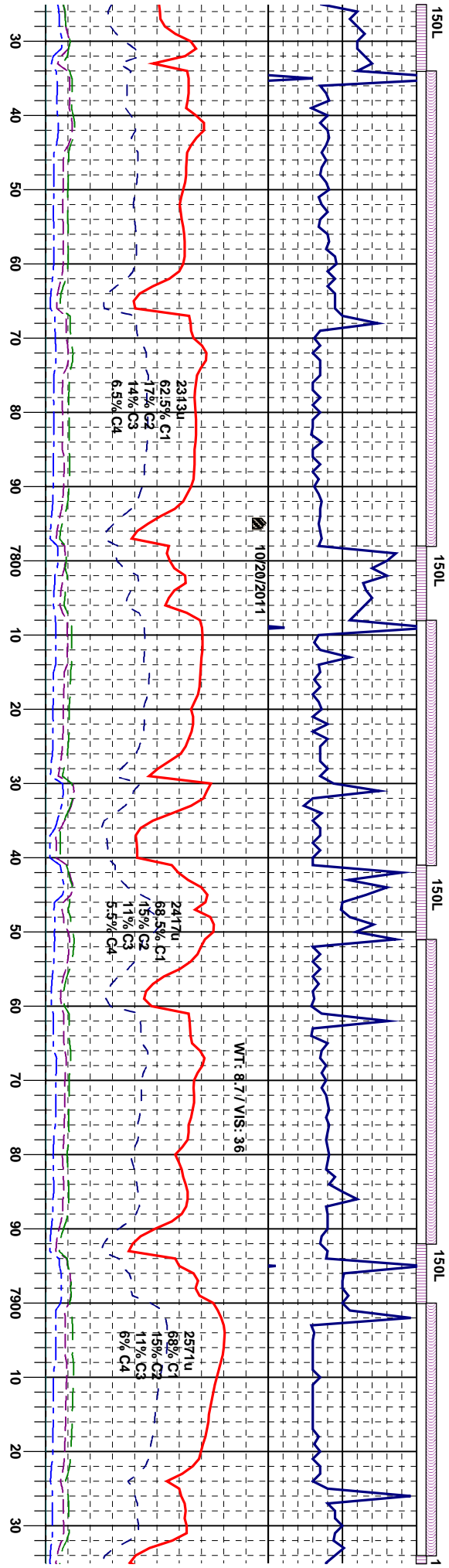
HK: m-dk gy, crm, wh, sft, brit, pty& bky,
y lsir, mot & chky tex, m-v calc w/fo, abnt
yel chk flor, tr bent w/ pyr, br yel bent flor,
st smg bt yel cut, bt yel UV sin lt brn WH lt
n

CHK: m-dk gy, crm, wh, sft, brit, pily& bily,
rthy lstr, mot & chky tex, m-v calc w/fos, scat
It yel chk flor, tr bent, br yel bent flor, fast
simg to flashing bt yel cut, bt yel UV sin it brm
WH It str

CHK: m-dk gy, crm, wh, sft, brit, pfty& biky,
rthy 1st, mot & chky tex, m-v calc w/fos, scat
It yel chk flor, fast sting to flashing bt yel cut,
bt yel UV sin it brn WH it stn

CHK: m-dk gy, crm, wh, sft, brit, ply& biky,
rthy/srt, mot & chky tex, m-v calc w/fos, abnt
lt yel chk flor, fast simg bt yel cut, bt yel UV
stin lt brn WH lt stn

CHK: m-dk
rthy lstr, mo
lt yel chk flo
bt yel UV str



Top of Target

Top of Target

MD 7765'
Inc 89.94°
Az 186.56°
TVD 6608.35'

MD 7809'
Inc 89.32°
Az 186.01°
TVD 6608.64'

MD 7860'
Inc 89.20°
Az 185.15°
TVD 6609.30'

MD 7902'
Inc 88.27°
Az 184.91°
TVD 6610.23'

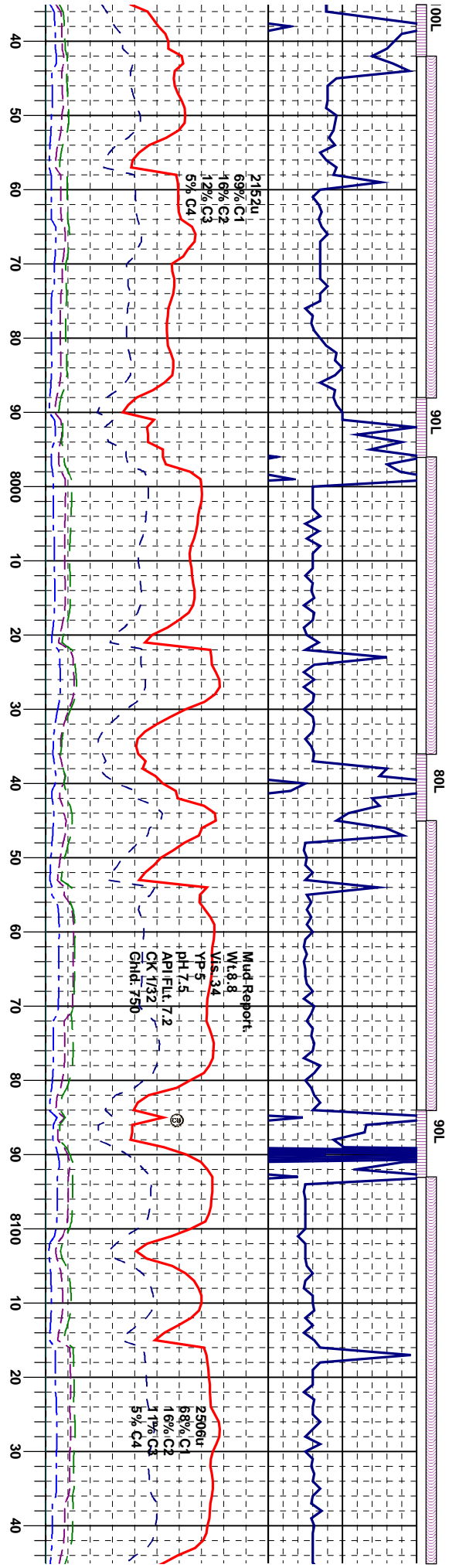
sft, brt, ply& blk,
m-v calc w/los, abnt
st smg bt yel cut, bt
stn

CHK: m-dk gy, crm, wh, sft, brt, ply& blk,
rthy lstr, mot & chky tex, m-v calc w/los, abnt
It yel chk flr, fast smg to flashing bt yel cut,
bt yel UV stn It brn WH It stn

CHK: m-dk gy, crm, wh, sft, brt, ply& blk,
rthy lstr, mot & chky tex, m-v calc w/los, abnt
It yel chk flr, tr ben, fast smg to flashing bt
yel cut, bt yel UV stn It brn WH It stn

CHK: m-dk gy, crm, wh, sft, brt, ply& blk,
rthy lstr, mot & chky tex, m-v calc w/los, abnt
It yel chk flr, fast smg to flashing bt yel cut,
bt yel UV stn It brn WH It stn

MRL: m-dk gy, gy/blk, frm, sb blk &
sb wxy lstr, mot tex, v calc w/ org r
w/ CHK: lty, sft, sb blk, rr It yel cr
smg bt yel cut, It brn wh It stn.



MD 7956'	Inc 88.21°	Azm 184.88°	TVD 6611.89'
MD 8004'	Inc 86.09°	Azm 183.10°	TVD 6613.4'
MD 8051'	Inc 88.52°	Azm 182.08°	TVD 6614.8'
MD 8114'	Inc 88.89°	Azm 180.98°	TVD 6616.3'

Fault

10' Down

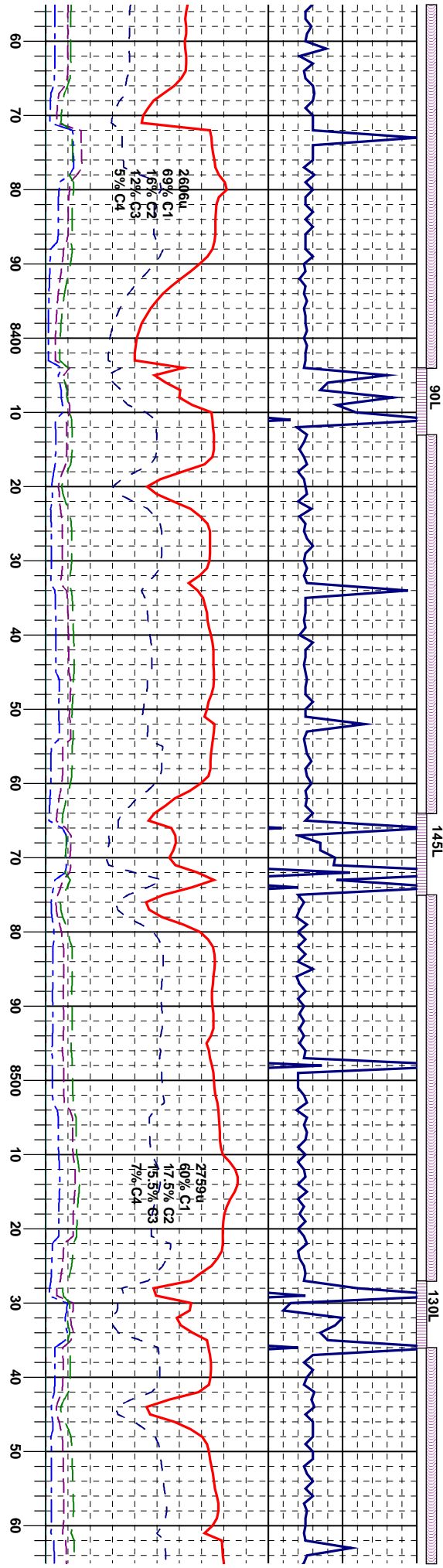
Top Of Target

MRL: m-dk gy, gyblk, frm, sb blk & ply, rthy-sb wxy lstr, mot tex, v calc w/ org mat, inbd w/ CHK: lgy, sft, sb blk, rr lt yel chk flr, fast sting bt yel cut, lt brn wh lt sin.

MRL: m-dk gy, sft-frm, sb blk, rthy-sb gsy lstr, spy & mot tex, org mat, v calc inbd w/ CHK: lt gy, drier, sun blk & irreg, v calc rr lt yel chk flr, tr bt yel bent flr, fast sting bt yel cut, lt brn wh lt sft.

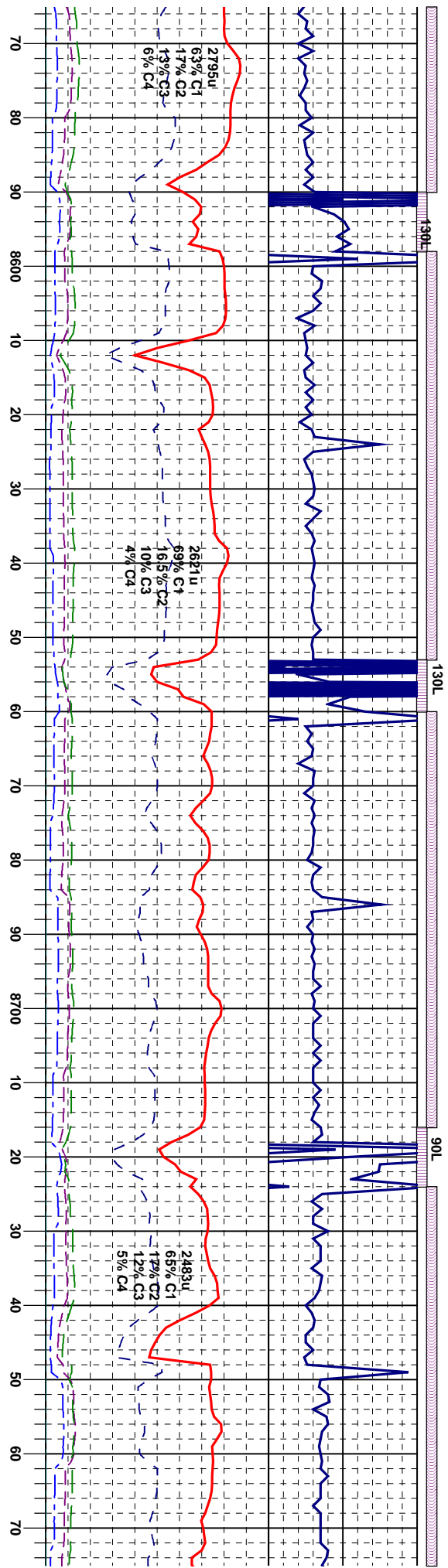
MRL: m-dk gy, gy blk, sft-frm, sb blk, rthy-sb gsy lstr, mot spty tex, v calc w. org mat, inbd CHK: m gy-lt gy, sft, irreg, v calc silty tex, rr fos, rr lt yel chk flr, fast sting bt yel cut, lt brn wh lt sin.

MRL: m-dk gy, gy blk, sft-frm, sb blk, rthy-sb gsy lstr, mot spty tex, v calc w. org mat, inbd CHK: m gy-lt gy, sft, irreg, v calc silty tex, rr fos, rr lt yel chk flr, fast sting bt yel cut, lt brn wh lt sin.

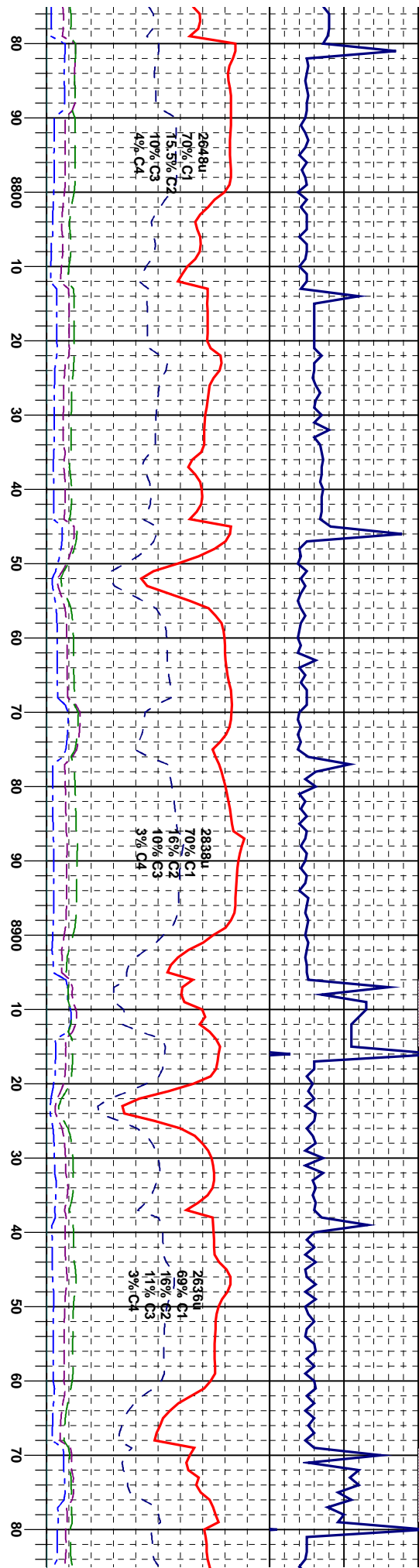


MD 8369 Inc 88.89° Azim 177.5° TVD 6620.1'		MD 8432' Inc 89.57° Azim 176.75° TVD 6620.9'		MD 8495' Inc 89.88° Azim 176.41° TVD 6621.26'		MD 8558' Inc 90.62° Azim 176.03° TVD 6620.9'	
---	--	---	--	--	--	---	--

K: wh, lt gy, crm, sft, sb ply & brit, rthy lstr, /-chky tex, m-v calc, w occ fos, scat lt yel flor, fast stmg bt yel cut, lt brn wh lt stn		MRL: m-dk gy, gy blk, sft-frn, sb blkly, rthy-sb wxy lstr, mot & spity tex, m-v calc, w/org mat, intbd w/ CHK: lt gy, crm, m gy, sft, sb blkly, v calc, occ lt yel chk flor, fast stmg bt yel cut, lt brn wh lt stn		MRL: m-dk gy, gy blk, sft-frn, sb blkly, rthy-sb wxy lstr, mot & spity tex, m-v calc, w/org mat, intbd w/ CHK: lt gy, crm, m gy, sft, sb blkly, v calc, occ lt yel chk flor, stmg bt yel cut, lt brn wh lt stn		MRL: m-dk gy, gy blk, sft-frn, sb blkly, rthy-sb wxy lstr, mot & spity tex, m-v calc, w/org mat, intbd w/ CHK: lt gy, crm, m gy, sft, sb blkly, v calc, occ lt yel chk flor, stmg bt yel cut, lt brn wh lt stn		MRL: m-dk gy, gy blk, sft-frn, sb blkly, rthy-sb wxy lstr, mot mat, intbd w/ blkly, v calc, cut, lt brn wh	
---	--	---	--	--	--	--	--	--	--



																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----



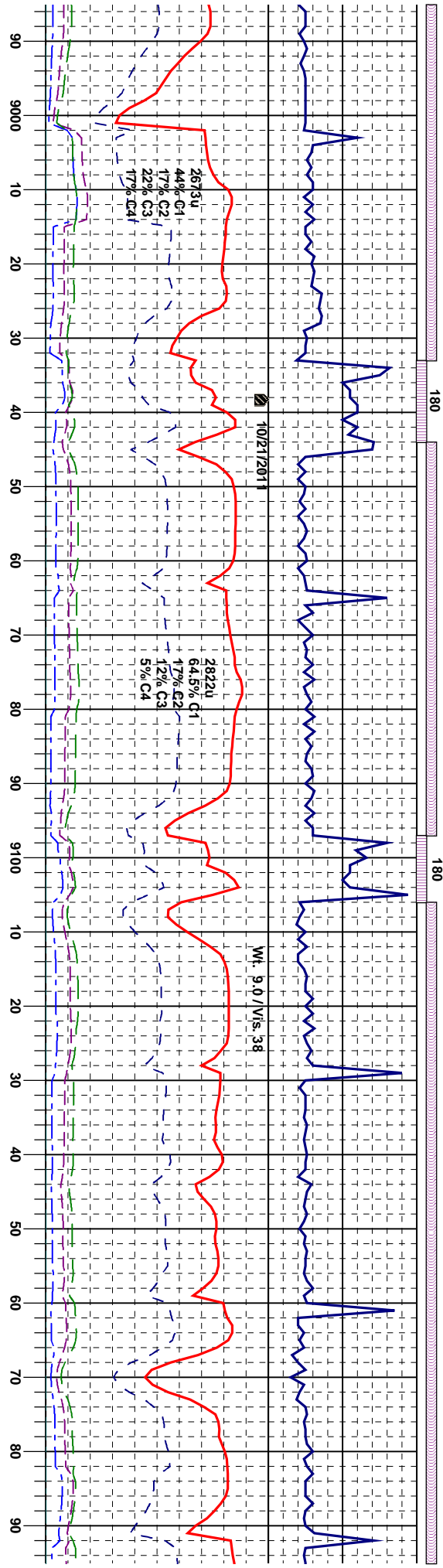
MD 8811'	Inc 89.88°	Azm 173.03°	TVD 6620.38'
MD 8874'	Inc 90.74°	Azm 173.51°	TVD 6620.04'
MD 8937'	Inc 90.87°	Azm 172.32°	TVD 6619.16'

sb blkly, rthy lstr, silty
 1 MRL: dk gy, frm,
 mot tex, v calc, abnt
 flashing bt yel cut, it

CHK: lt gy, crm, wh, sft, sb blkly, rthy lstr, silty
 -chky tex, m-v calc, inbnd MRL: dk gy, frm,
 brlt, sb blkly, rthy-gsy lstr, mot tex, v calc occ lt
 yel chk flr, fast sting bt yel cut, lt brn wh lt

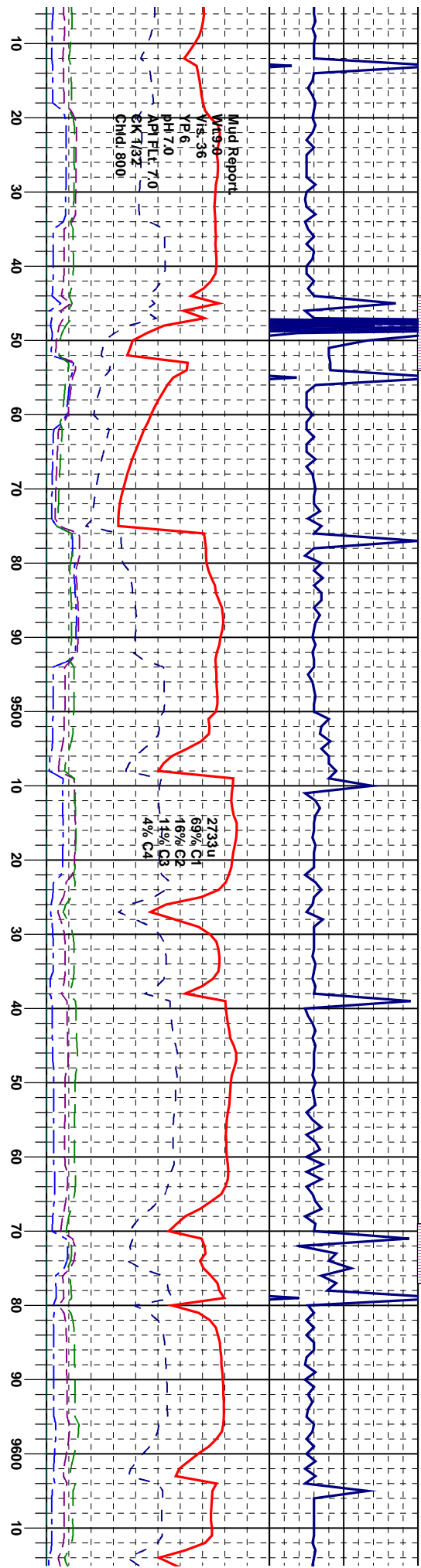
CHK: wh, lt gy, crm, sft, sb ply & brlt, rthy lstr,
 silty -chky tex, m-v calc, w occ fos, occ lt yel
 chk flr, fast sting bt yel cut, lt brn wh lt sin

CHK: wh, lt-occ m gy, crm, sft, sb
 rthy lstr, silty -chky tex, m-v calc, v
 inb w/ MRL: m-dk gy, gy blk, sft-fr
 rthy lstr, mot tex, scat lt yel chk flr
 w/ pyr, fast sting bt yel cut, lt brn v



MD 9000'		MD 9063'		MD 9126'		MD 9190'	
Inc 91.98°		Inc 90.68°		Inc 89.32°		Inc 90.19°	
Azim 171.45°		Azim 171.01°		Azim 170.44°		Azim 170.57°	
TVD 6617.59'		TVD 6616.13'		TVD 6616.13'		TVD 6616.4'	

MRL: m-dk gy, gy blk, sft-frm, sb blk, rthy lstr, mot tex, intb w/CHK: m gy w/ occ lt gy brn streaks, occ crm, sft, sb ply & brt, rthy lstr, silty -chky tex, m-v calc, fast smg bt yel cut, lt brn wh lt sin		MRL: m-dk gy, gy blk, sft-frm, sb blk, rthy lstr, mot tex, intb w/CHK: m gy w/ occ lt gy brn streaks, occ crm, sft, sb ply & brt, rthy lstr, silty -chky tex, m-v calc, fast smg bt yel cut, lt brn wh lt sin		MRL: m-dk gy, gy/blk, sft-frm, sb blk, rthy-sb gsy lstr, mot & spity tex, m-v clac w/ org mat, rr CHK: lt gy, crm, sft, v clac, rr lt yel chk flor, smg bt yel cut, lt brn wh lt sin		CHK: crm, oft wh, lt gy, m gy, sft, sb blk, rth lstr, silty & chky tex, v calc, occ fos, occ MRL m-dk gy, frm, sb blk, mot & calc, abndt bt ye chk flor, fast smg bt yel cut, lt brn wh lt sin	
---	--	---	--	---	--	---	--



MD 9411'	Inc 89.81° Az 170.31° TVD 6617.1'	MD 9474'	Inc 88.76° Az 170.39° TVD 6615.8'	MD 9505'	Inc 88.95° Az 170.76° TVD 6616.5'	MD 9537'	Inc 89.38° Az 170.94° TVD 6616.9'	MD 9600'	Inc 89.81° Az 170.59° TVD 6617.4'
----------	---	----------	---	----------	---	----------	---	----------	---

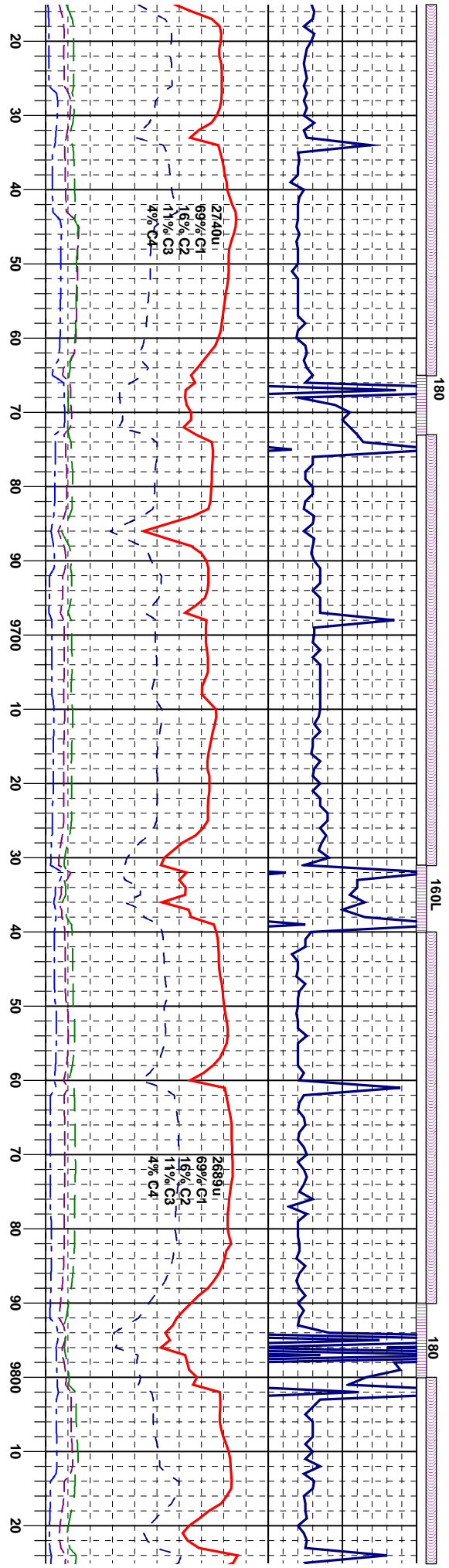
L: m-dk gy, gy/bk, frm & brlt, sb blk, m
-sb gsy lstr, mod & sply tex, m-v calc occ
K: lt gy sft, v calc tr -rr lt yel chk flr, occ
calcite, fast smng br yel cut, lt brn wh lt str

MRL: m-dk gy, gy/bk, frm & brlt, sb blk, m
rthy-sb gsy lstr, mod & sply tex, m-v calc occ
CHK: lt gy sft, v calc tr -rr lt yel chk flr, occ
sec calcite

CHK: lt gy & crm - m gy, sft, brlt, sb blk, rthy-
musy lstr, silty -chky tex, v calc, MRL: m-dk
gy, blk, frm, brlt, v calc w/ sply org mat, occ
sec calcite, scat lt yel chk flr, tr bent flr.

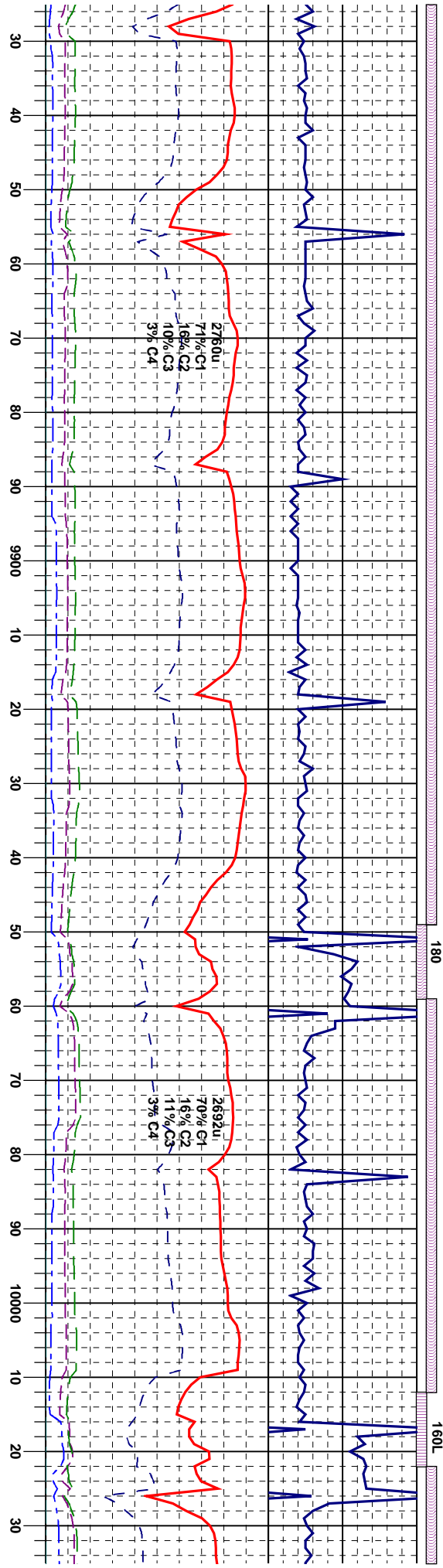
CHK: lt gy & crm - m gy, sft, brlt, sb blk, rthy-
musy lstr, silty -chky tex, v calc, MRL: m-dk
gy, blk, frm, brlt, v calc w/ sply org mat, occ
sec calcite, scat lt yel chk flr, tr bent flr.

CHK: lt gy & crm - m gy, sft, brlt, sb blk, rthy-
musy lstr, silty -chky tex, v calc, MRL: m-dk
gy, blk, frm, brlt, v calc w/ sply org mat, occ
sec calcite, scat lt yel chk flr, tr bent flr.



MD 9632' Inc 90.0° Azim 170.69° TVD 6617.4'	MD 9695' Inc 90.36° Azim 170.82° TVD 6617.1'	MD 9758' Inc 90.12° Azim 170.29° TVD 6616.7'	MD 9822' Inc 89.57° Azim 170° TVD 6616
--	---	---	---

CRM - m gy, sft, brt, sb blk, rthy- chky tex, v calc, MRL: m-dk brt, v calc w/ spy org mat, occ scat lt yel chk flr, tr bent flr.	CHK: lt gy, occ crm & wh, sft, sb ply& blk, rthy lstr, silty -chky tex, m-v calc, intbd w/ MRL: m-dk gy, gy blk, frm-sft, sb blk, rthy lstr, mot tex, v calc w scat lt yel chk flr.	CHK: lt gy, occ crm & wh, sft, sb ply& blk, rthy lstr, silty -chky tex, m-v calc, intbd w/ MRL: m-dk gy, gy blk, frm-sft, sb blk, rthy lstr, mot tex, v calc w scat lt yel chk flr.	CHK: lt gy, occ crm & wh, sft, sb ply& blk, rthy lstr, silty -chky tex, m-v calc, intbd w/ MRL: m-dk gy, gy blk, frm-sft, sb blk, rthy lstr, mot tex, v calc, w scat lt yel chk flr, scat bent flr.	CHK: lt gy, occ crm & w blk, rthy lstr, silty -chky w/ MRL: m-dk gy, gy blk lstr, mot tex, v calc, w/s bent flr fast fast string v yel - gn flr res str.
--	--	--	---	---



MD 9853	Inc 89.75°	Azm 170.42°	TVD 6617.1'
MD 9885	Inc 89.81°	Azm 170.48°	TVD 6617.2'
MD 9917	Inc 90.80°	Azm 170.64°	TVD 6617.0'
MD 9980	Inc 91.61°	Azm 170.48°	TVD 6615.7'

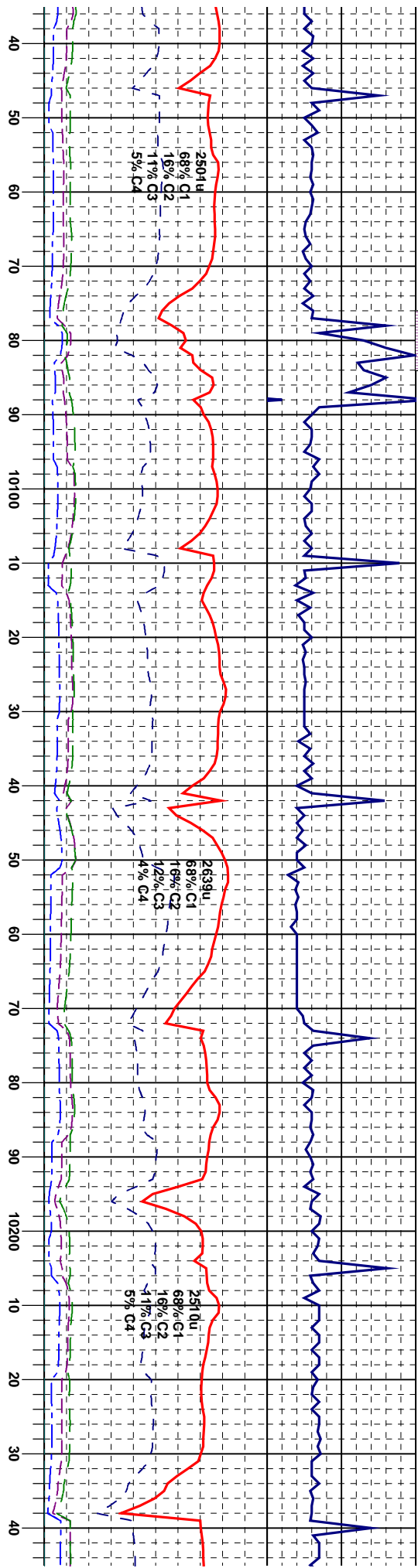
h, sft, fri, sb ply& tex, m-v calc, inbnd, frm-sft, sb blk, rhy, cat, yel chk, ffor, scat, wh cut, brn wh, it sn, gn, ffor res stn.

CHK: It gy, occ crm & wh, sft, fri, sb ply - sb blk, rhy, sily - chky tex, m-v calc, inbnd w/ MRL: m-dk gy, gy blk, frm-sft, sb blk, rhy, mot tex, v calc, w/ scat It yel chk ffor, tr bent ffor, fast stmg wh cut, It brn wh It sn, yel ffor res stn.

CHK: It gy, wh, crm, sft, fri, sb ply - sb blk, rhy, sily - chky tex, m-v calc, inbnd w/ MRL: m-dk gy, gy blk, frm-sft, sb blk, rhy, mot tex, v calc, w/ scat It yel chk ffor, tr bent ffor, fast stmg wh cut, It brn wh It sn, yel ffor res stn.

CHK: It gy, wh, crm, sft, fri, sb ply - sb blk, rhy, sily - chky tex, m-v calc, inbnd w/ MRL: m-dk gy, gy blk, frm-sft, sb blk, rhy, mot tex, v calc, w/ scat It yel chk ffor, tr bent ffor, fast stmg wh cut, It brn wh It sn, yel ffor res stn.

CHK: It gy, wh, crm, sft, fri, sb ply - sb blk, rhy, sily - chky tex, m-v calc, inbnd w/ MRL: m-dk gy, gy blk, frm-sft, sb blk, rhy, mot tex, v calc, w/ scat It yel chk ffor, tr bent ffor, fast stmg wh cut, It brn wh It sn, yel ffor res stn.



MD 10044'

Inc 90.31°

Azim 169.80°

TVD 6614.6'

y - sb blk,

intbd w/

blk rthy lstr,

yel chk flr,

brn wh It

- gn flr res str.

MD 10108'

Inc 89.26°

Azim 170.27°

TVD 6614.9'

y - sb blk,

intbd w/

blk rthy lstr,

yel chk flr,

brn wh It

- gn flr res str.

MD 10171'

Inc 89.57°

Azim 170.66°

TVD 6615.6'

y - sb blk,

intbd w/

blk rthy lstr,

yel chk flr,

brn wh It

- gn flr res str.

MD 10203'

Inc 89.94°

Azim 170.44°

TVD 6615.7'

y - sb blk,

intbd w/

blk rthy lstr,

yel chk flr,

brn wh It

- gn flr res str.

MD 10234'

Inc 90.62°

Azim 171.27°

TVD 6615.5'

y - sb blk,

intbd w/

blk rthy lstr,

yel chk flr,

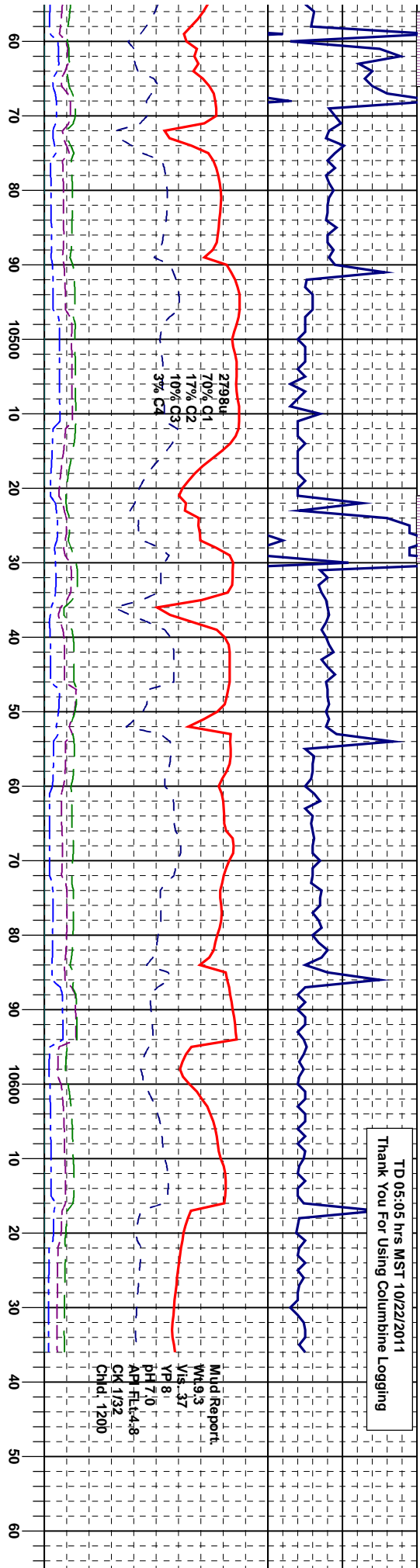
brn wh It

- gn flr res str.

160L

180

TD 05:05 hrs MST 10/22/2011
Thank You For Using Columbine Logging



MD 10488'	Inc 90.56°	Azm 168.56°	TVD 6614.2'
MD 10551'	Inc 89.63°	Azm 168.23°	TVD 6614.2'
MD 10604'	Inc 90.19°	Azm 168.35°	TVD 6614.2'

<<<<<< Top Of Zone>>>>>>

<<<<<< Top Of Zone>>>>>>

SLP To Bit
MD 10636'
Inc 90.19°
Azm 168.35°
TVD 6613.9'

HK: lt gy, wh, crm, sft, brit - fri, sb ply - sb
gy, rthy lstr, silty -chky tex, v calc, inbd w/
RL: m-dk gy, gy blk, frm-hd, ply - sb blk,
ly lstr, mot tex, v calc, occ fos frag, w/ scat
yel chk flor, fast strng wh cut, lt brn wh lt stn,
lt gn flor res stn.

CHK: m-lt gy, occ wh& crm, sft, sb blk, rthy
lstr, silty & chky tex, v calc scat lt yel chk flor,
fst strng to flash cut, bt yel, bt el resd UV stn,
lt brn wh lt stn.

MRL: m-dk gy, sft-frm, sb blk & ply, rthy -
wxy lstr, mot& smth tex, m calc w org mat, rr
lt yel chk flor, slower streaming bt yel cut, bt
yel UV stn, lt brn WH lt stn.

MRL: m-dk gy, sft-frm, sb blk & ply, rthy -
wxy lstr, mot& smth tex, m calc w org mat, rr
lt yel chk flor, slower streaming bt yel cut, bt
yel UV stn, lt brn WH lt stn.

