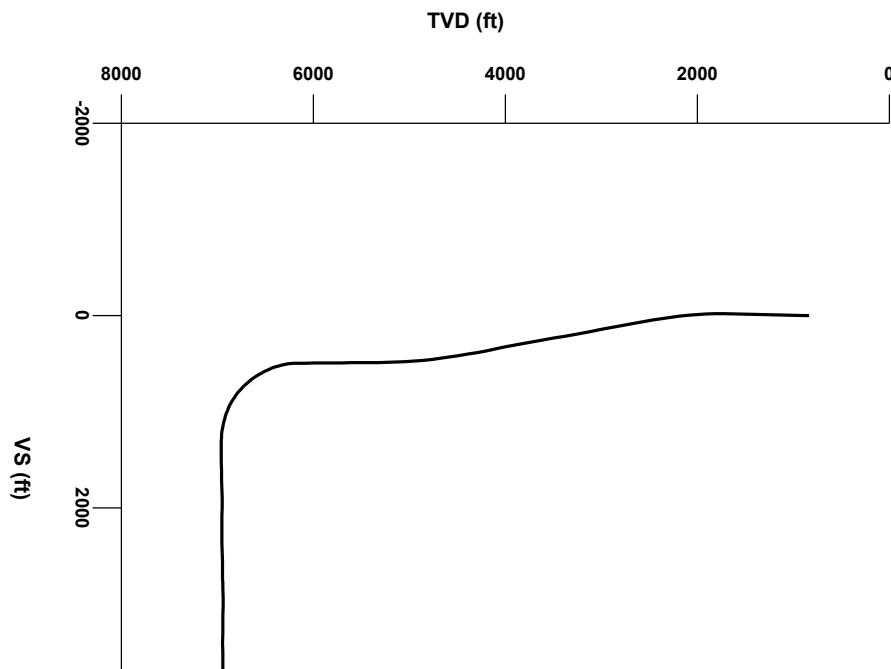


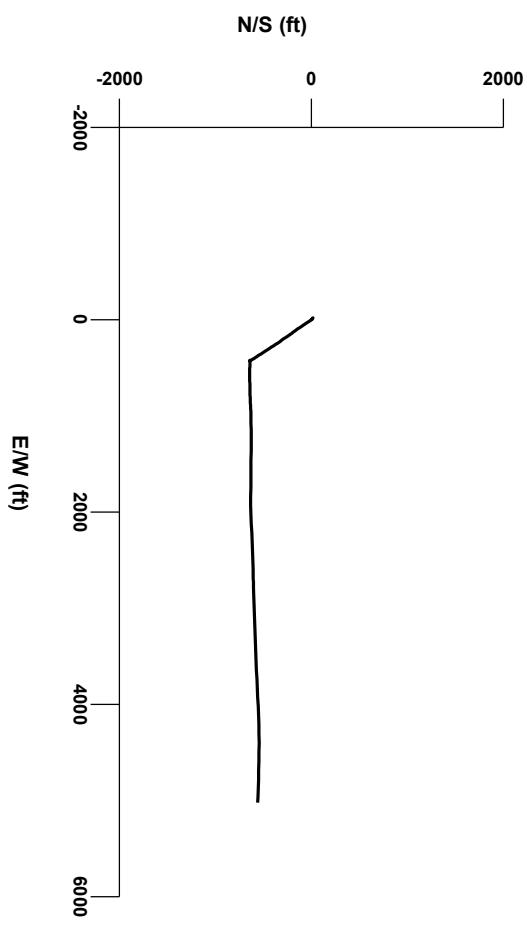
LOG created using LPLOT VH Version 3.0, March 18, 2012, Copyright (C) 1999-2009 Pason Systems Corp.

OPERATOR: NOBLE ENERGY INC
WELL: DYER USX AB35-68-1HN
LOCATION: SEC34 7N 64W
COUNTY: WELD
STATE: COLORADO
SPOT: 352 FNL 296 FEL
ELEVATION: GL 4871'; KB 4895'
FIELD: WATTENBERG
SPUD DATE: 3-9-12
TD DATE: 3-17-10
DATES LOGGED: 3-10-12 3-17-12
DEPTHS LOGGED: 1,000' - 11,361
LOGGERS: BRAD WILSON, JAKOB PAMMER
DRILLING FLUID: WATER, WATER BASED MUD, POLY
DRILLING RIG: HP 323
API: 05-123-34773-00
LOG TYPE: HORIZONTAL
SCALE: 1:240 (5 inches per 100 feet)
REMARKS:



Survey Elevation

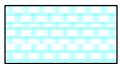
Survey Plan



4000
6000

LITHOLOGIES

Bentonite



Chalk



Marl



Shaly Sandstone



Silty Shale

ENGINEERING SYMBOLS

□ Connection

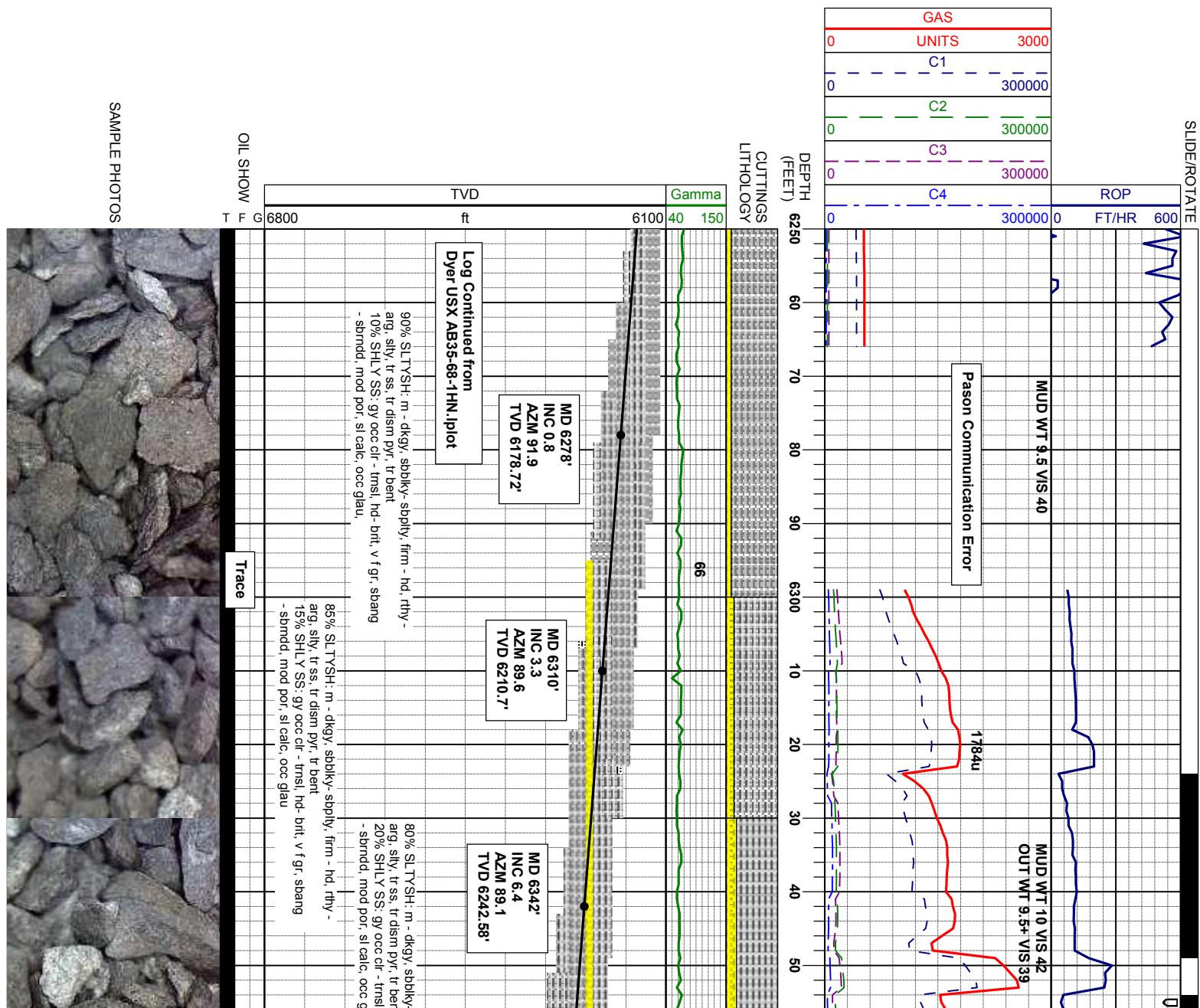
← Arrow

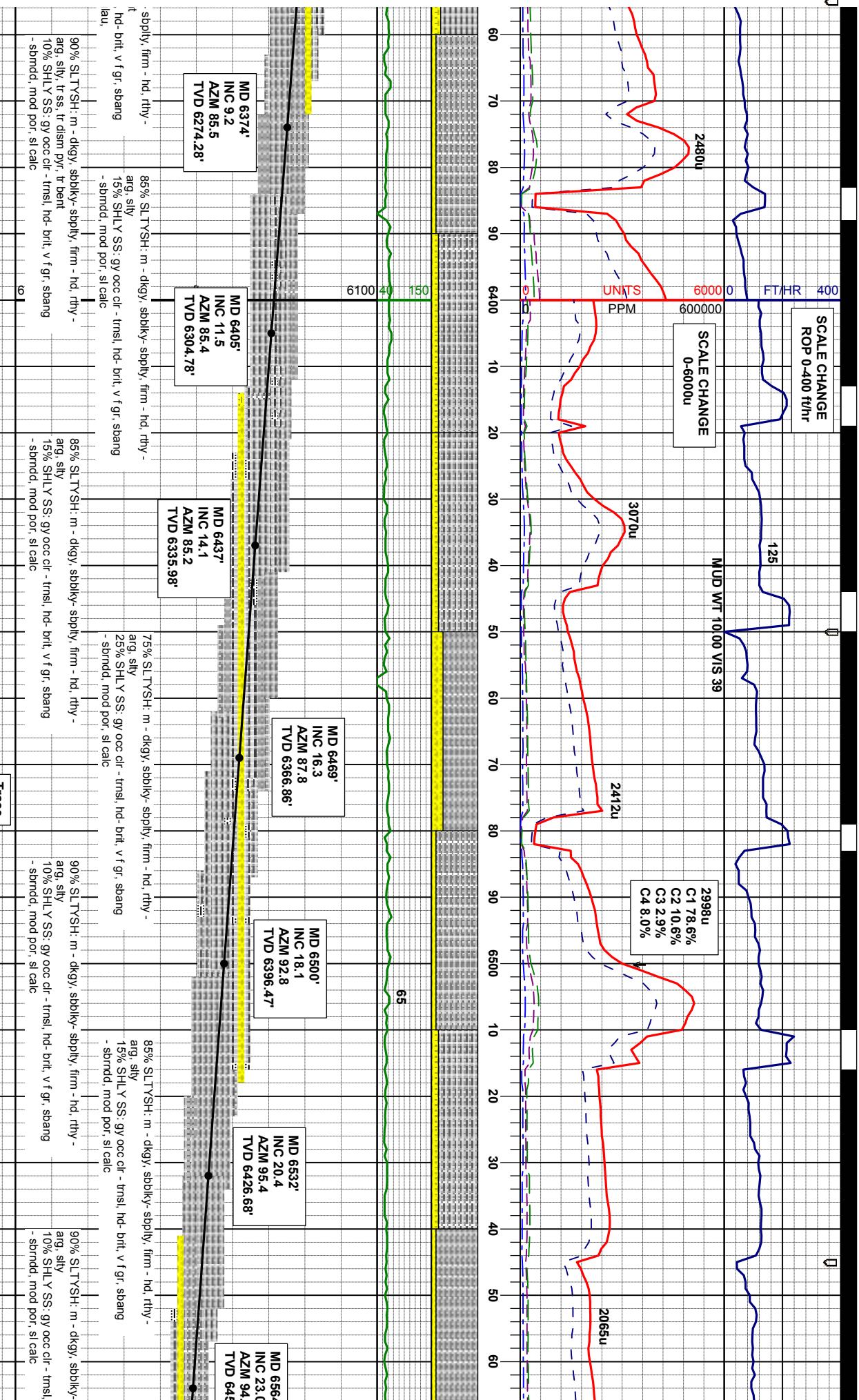
☒ Midnight Depth

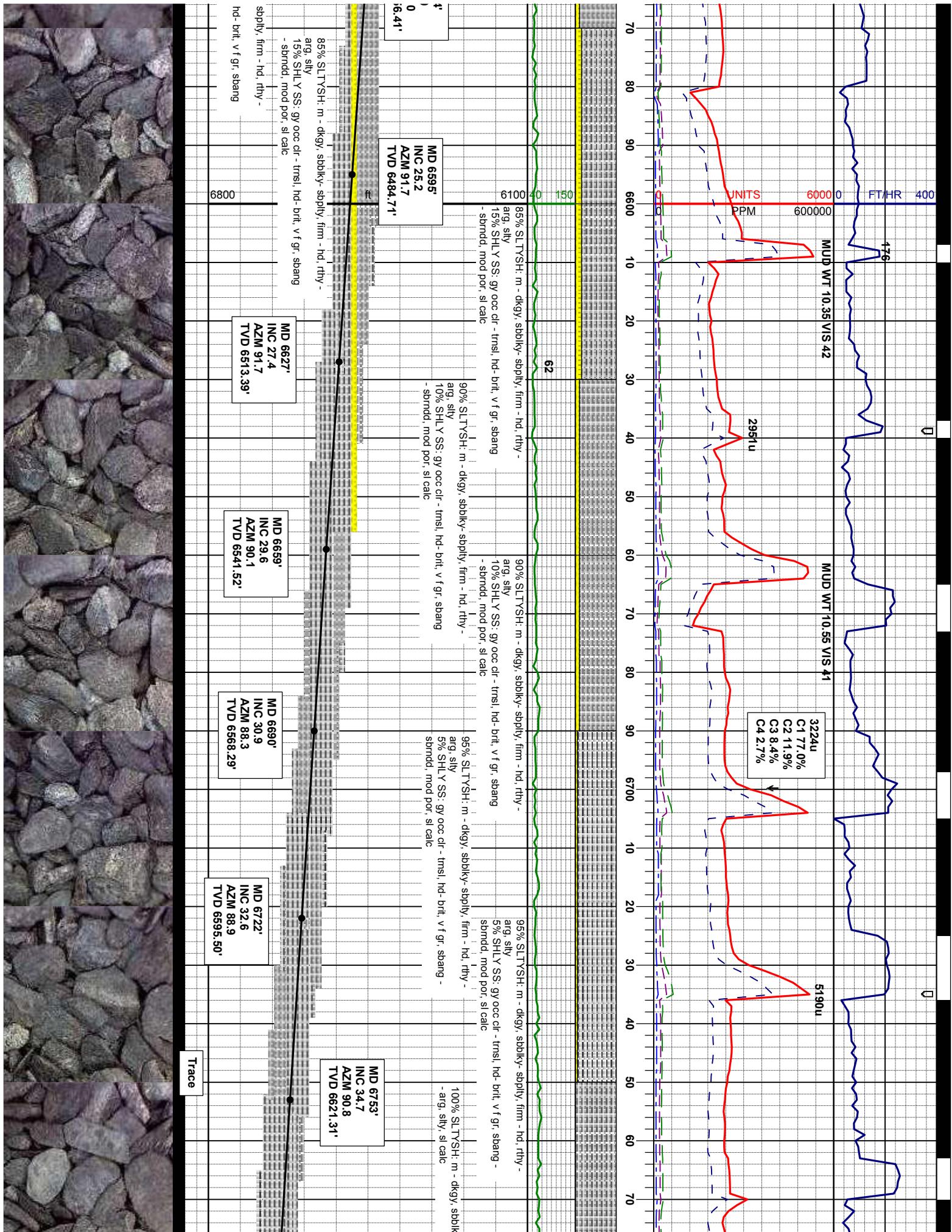
● Oil Show

▼ Oil To Surface

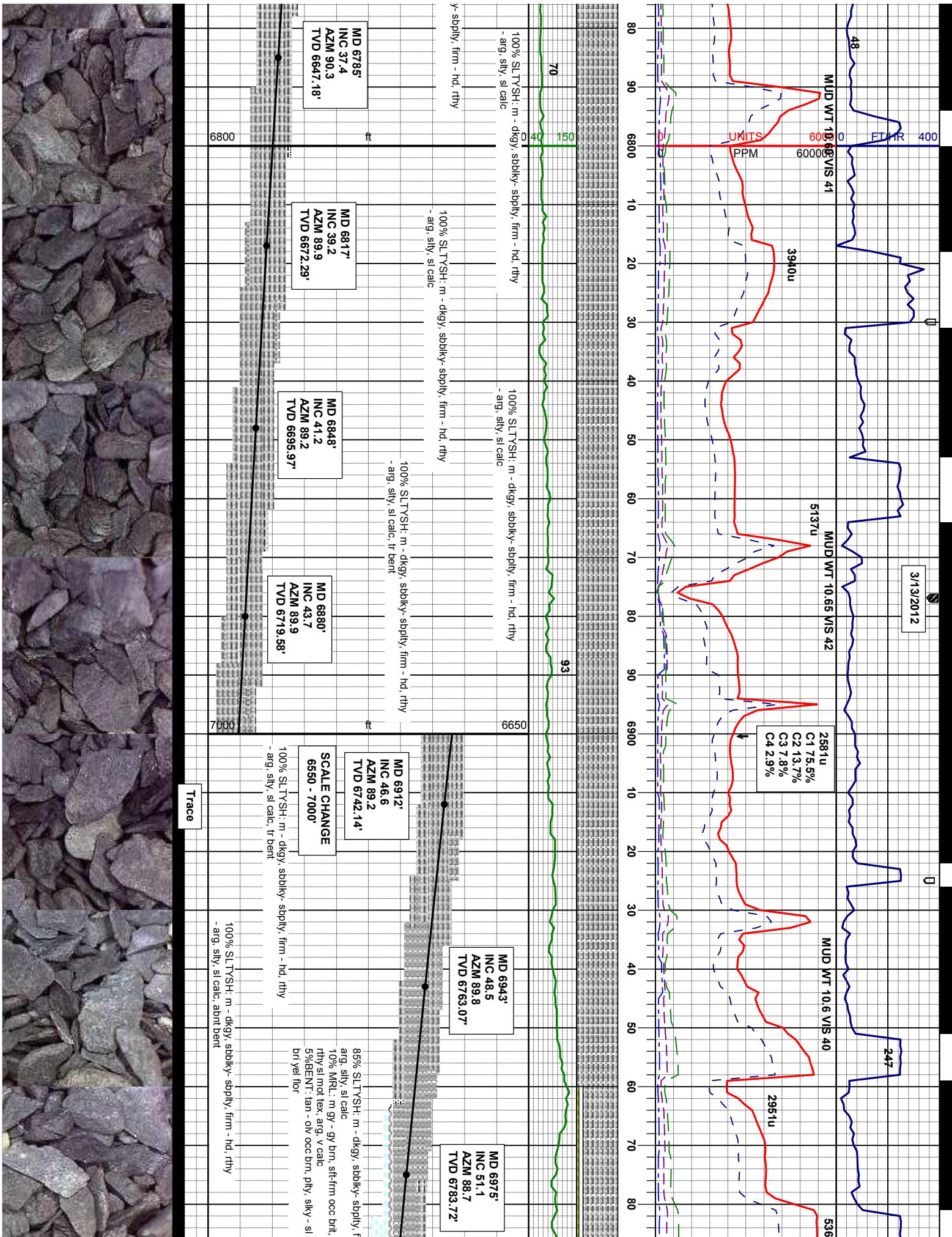
→ Arrow

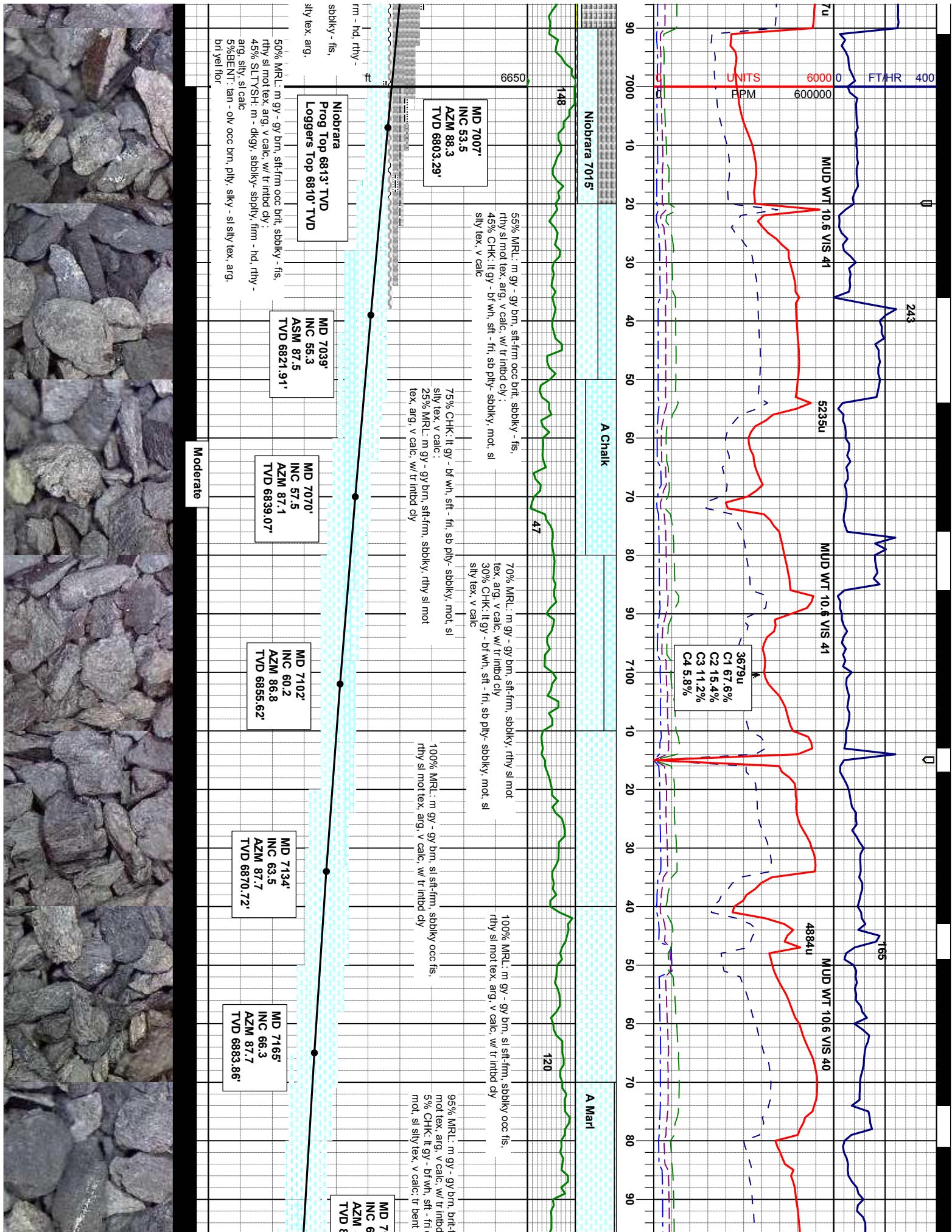


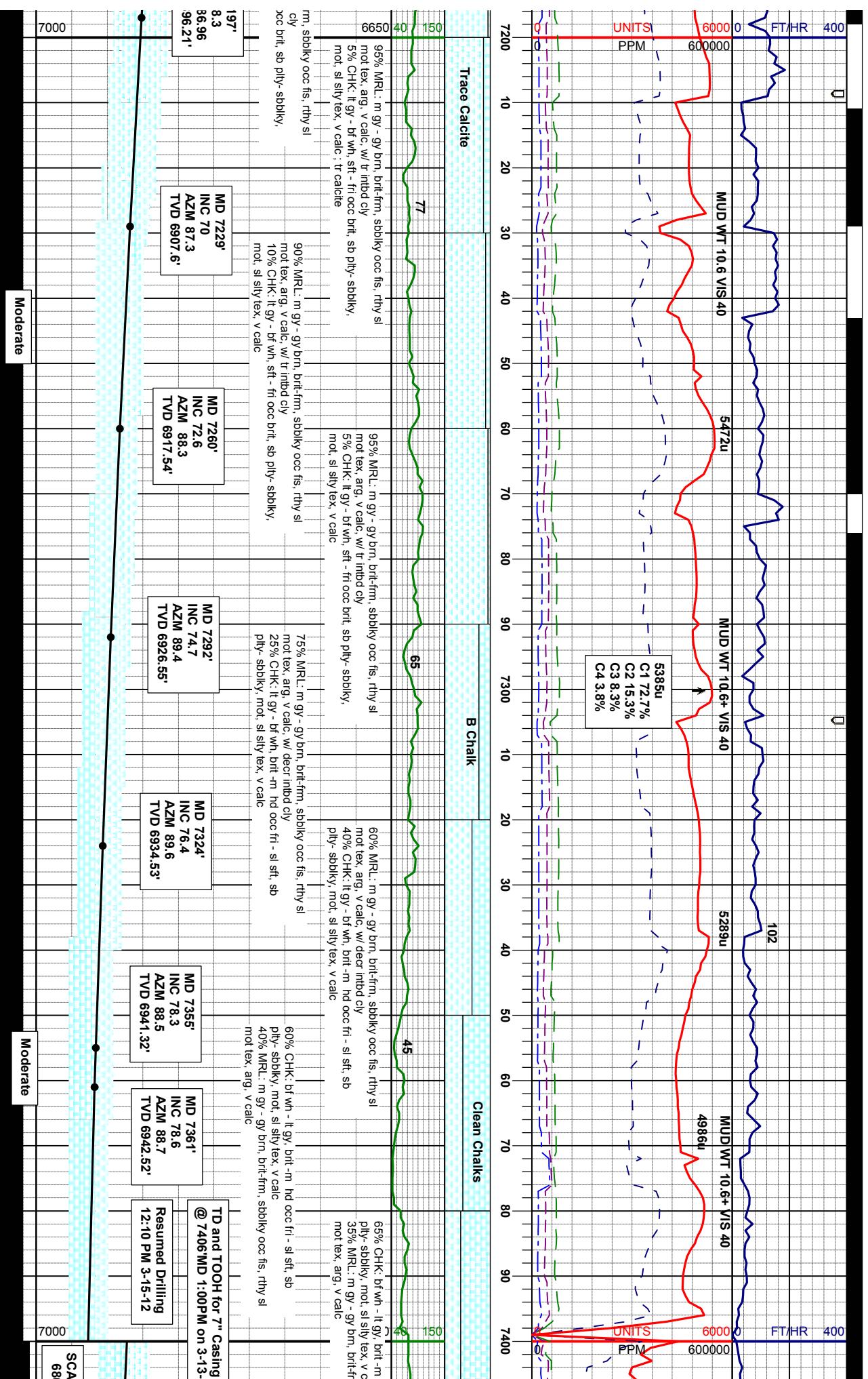


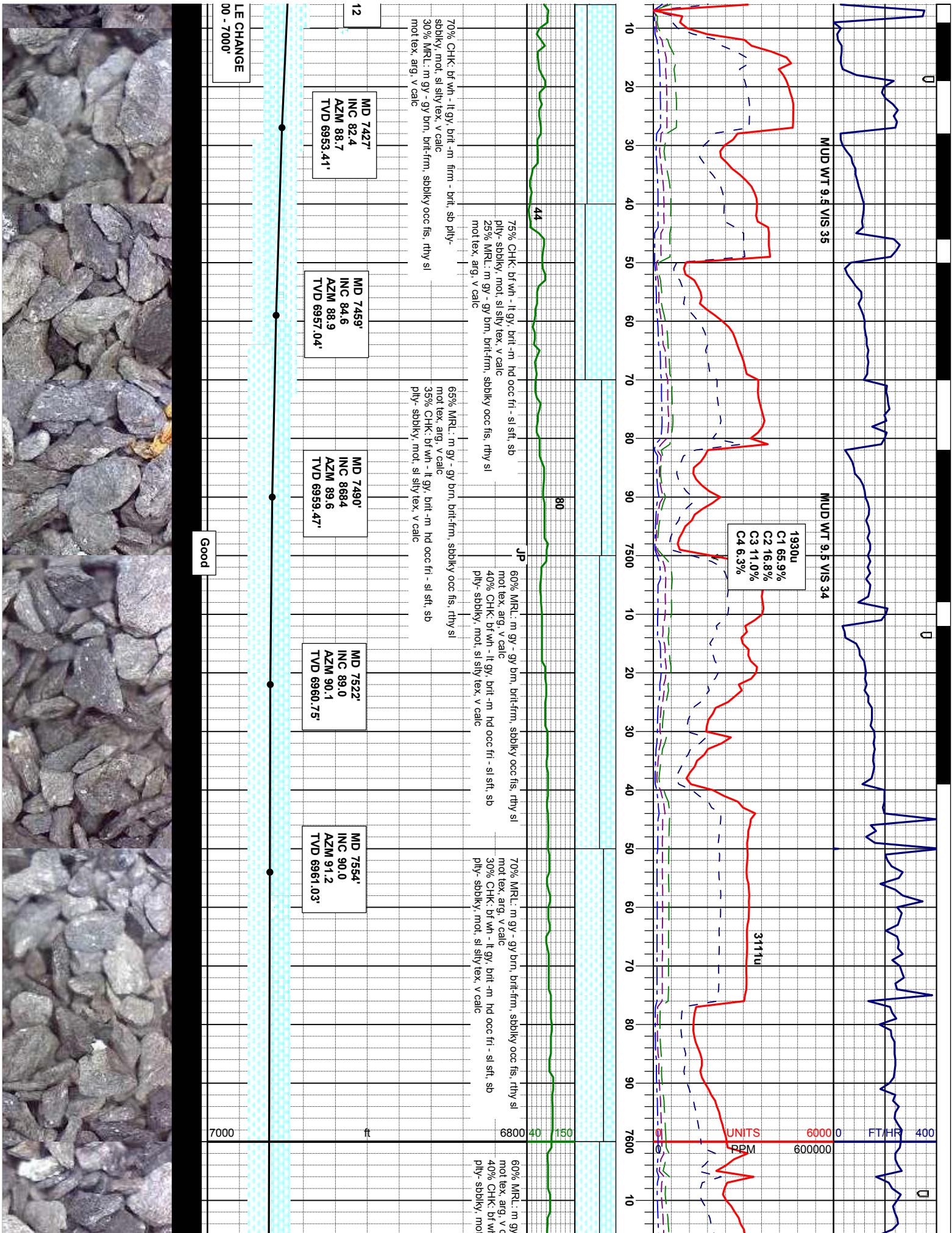


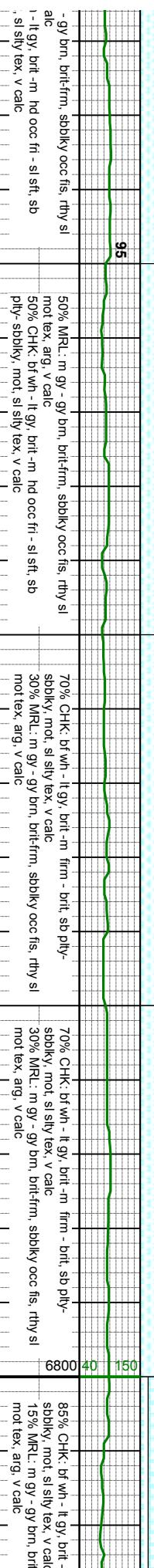
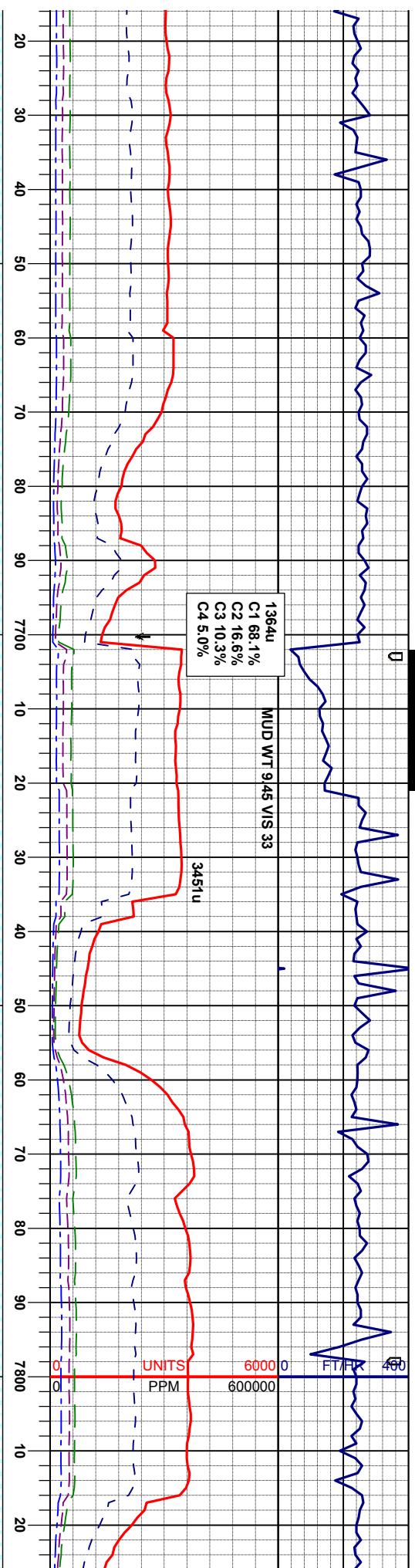
3/13/2012











MD 7649'
INC 88.9
AZM 90.8
TVD 6961.94'

MD 7744'
INC 91.8
AZM 90.5
TVD 6961.36'

7000

ft

6800

150

40

UNITS

PPM

600000

0

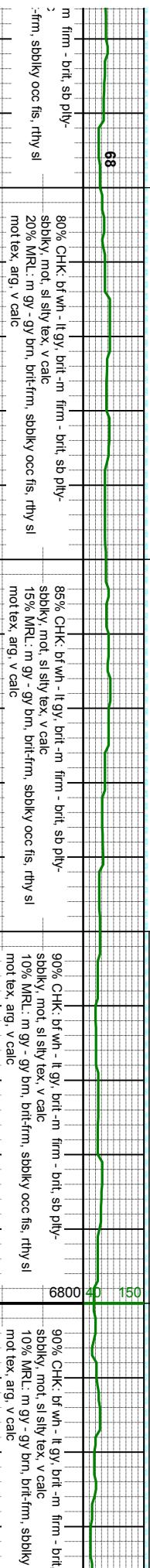
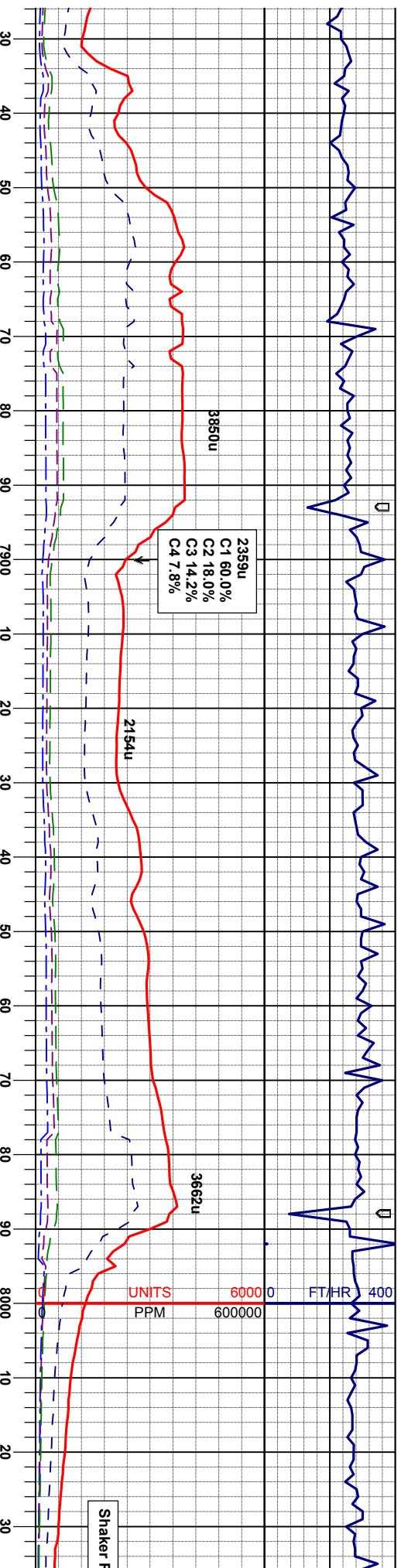
6000

FT/FT

400

Good





MD 7839'
INC 91.3
AZM 90.5
TVD 6958.79'

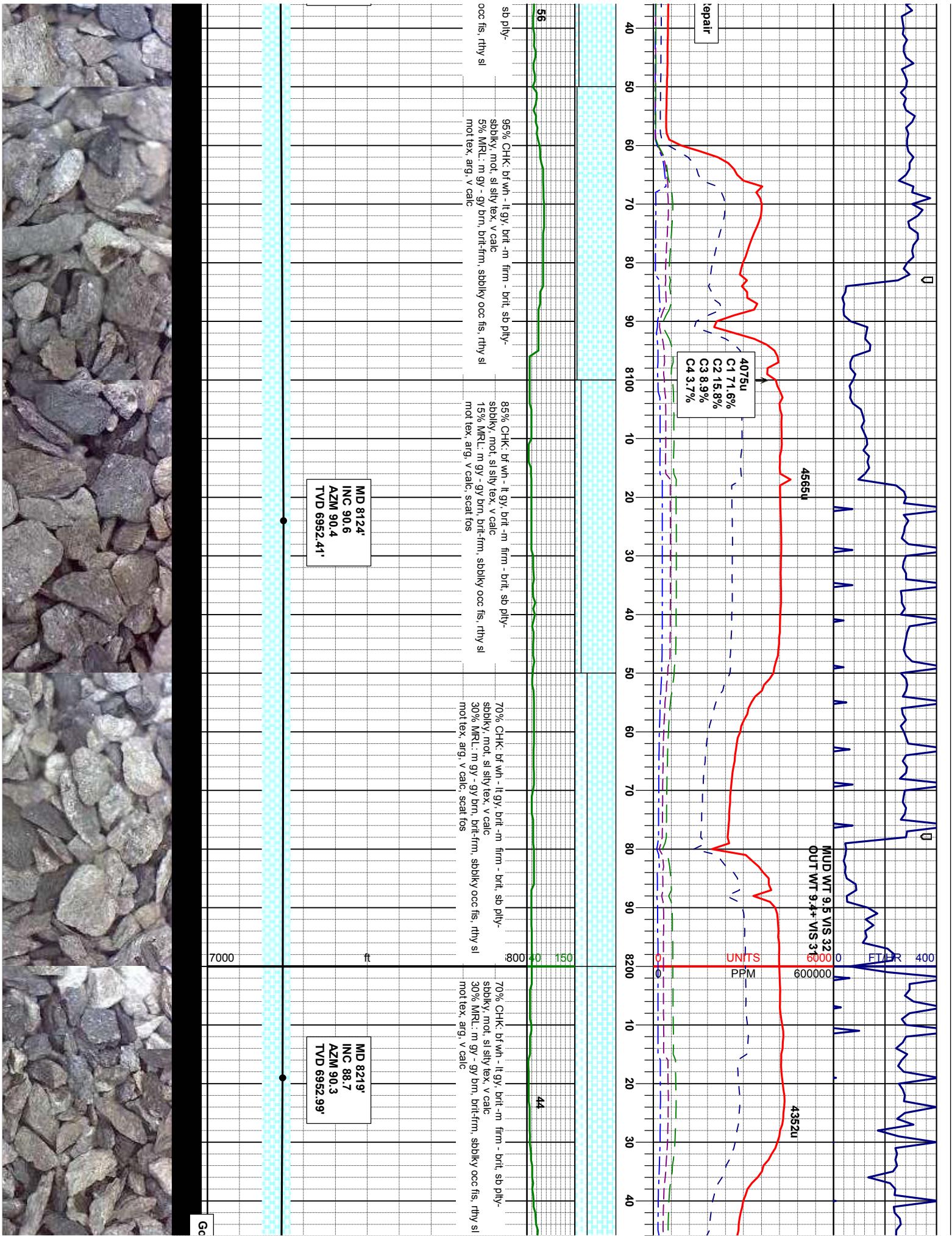
MD 7934'
INC 91.1
AZM 90.5
TVD 6956.80'

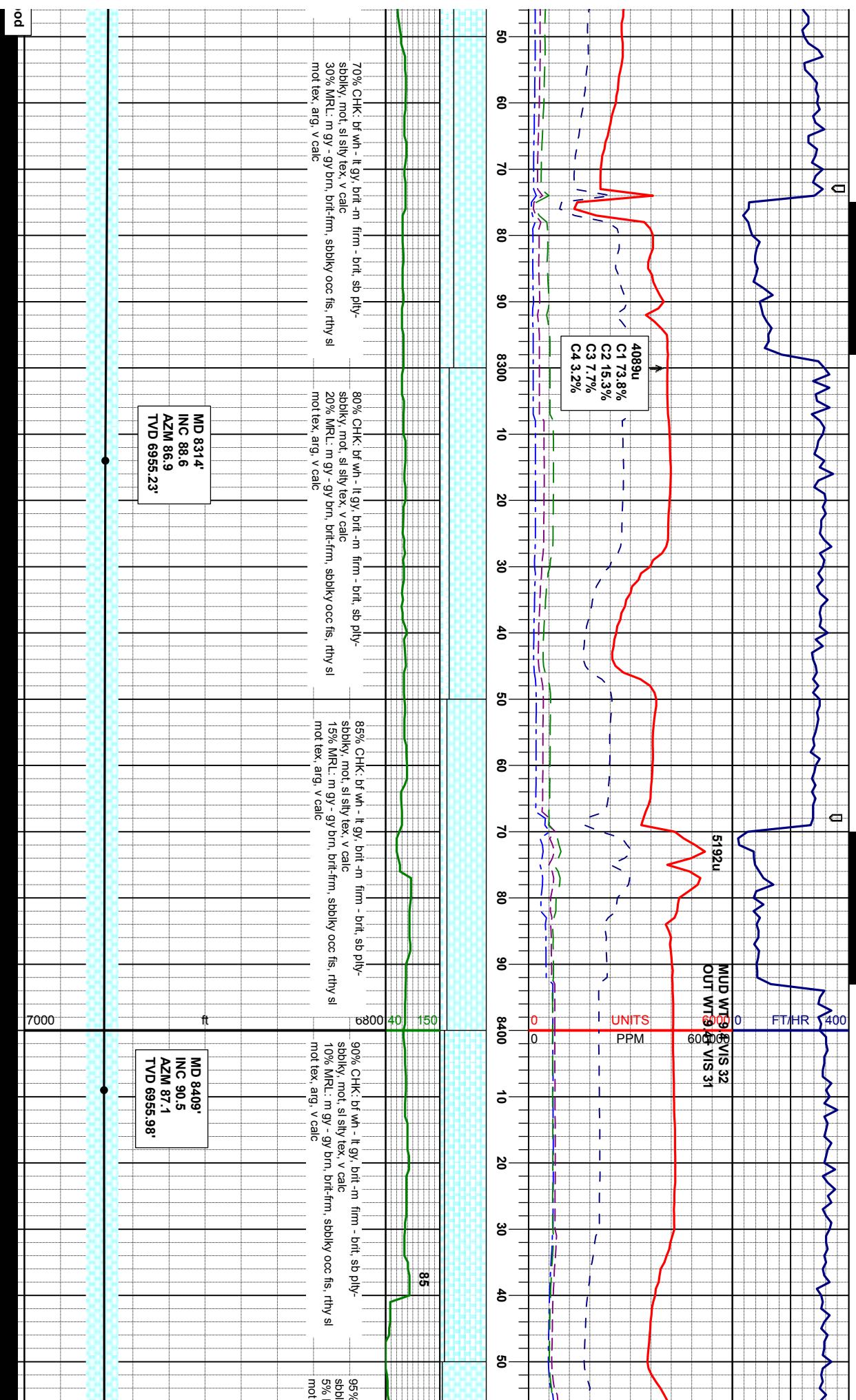
MD 8029'
INC 91.8
AZM 91.8
TVD 6954.40'

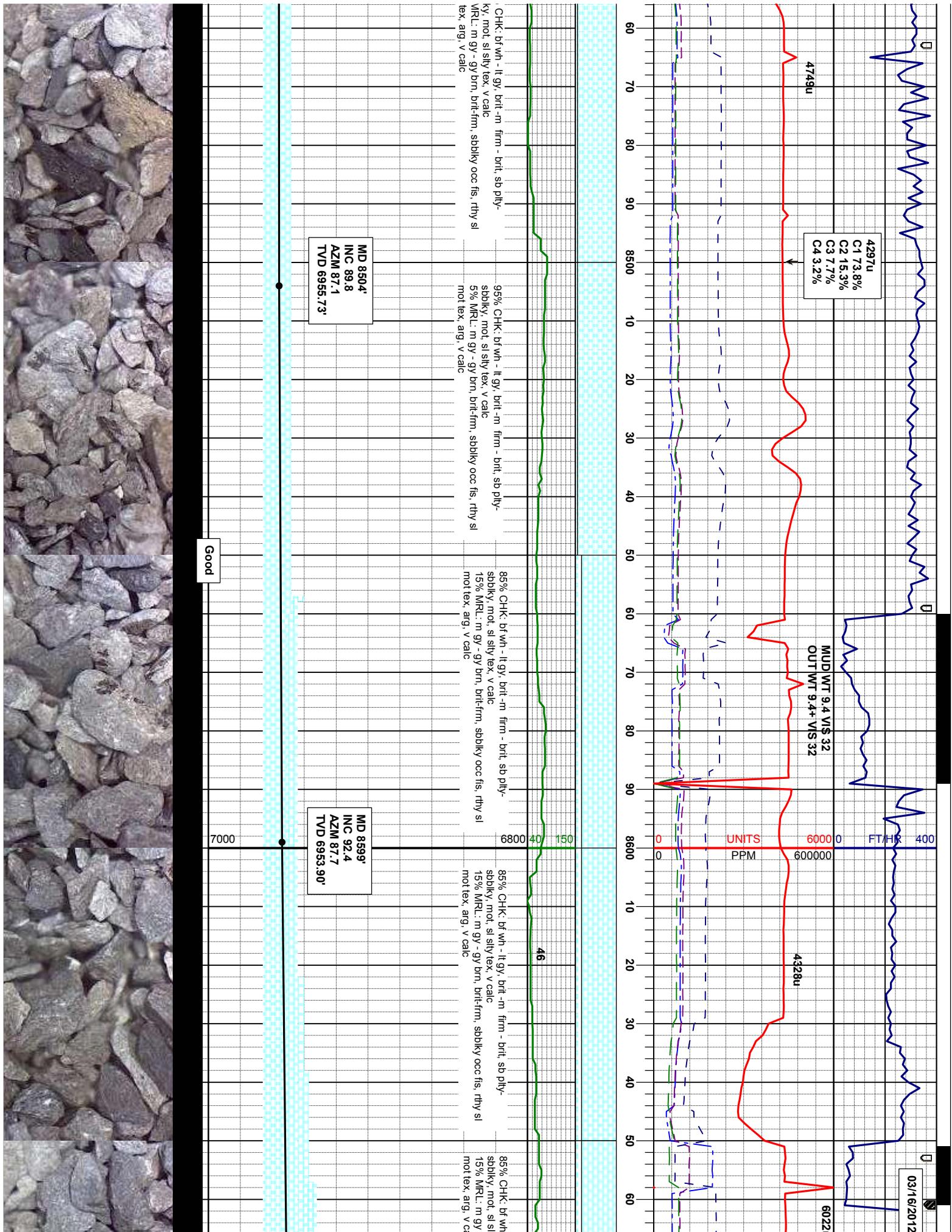
Good

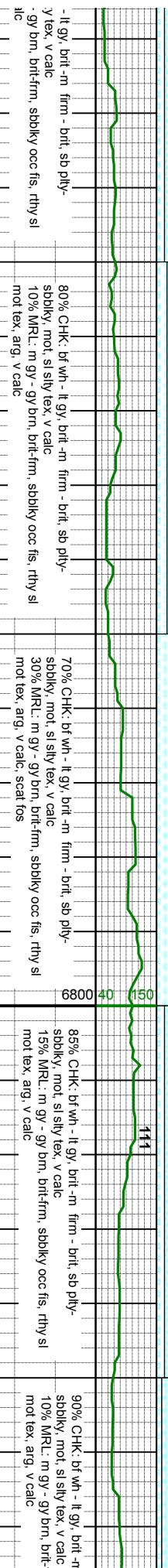
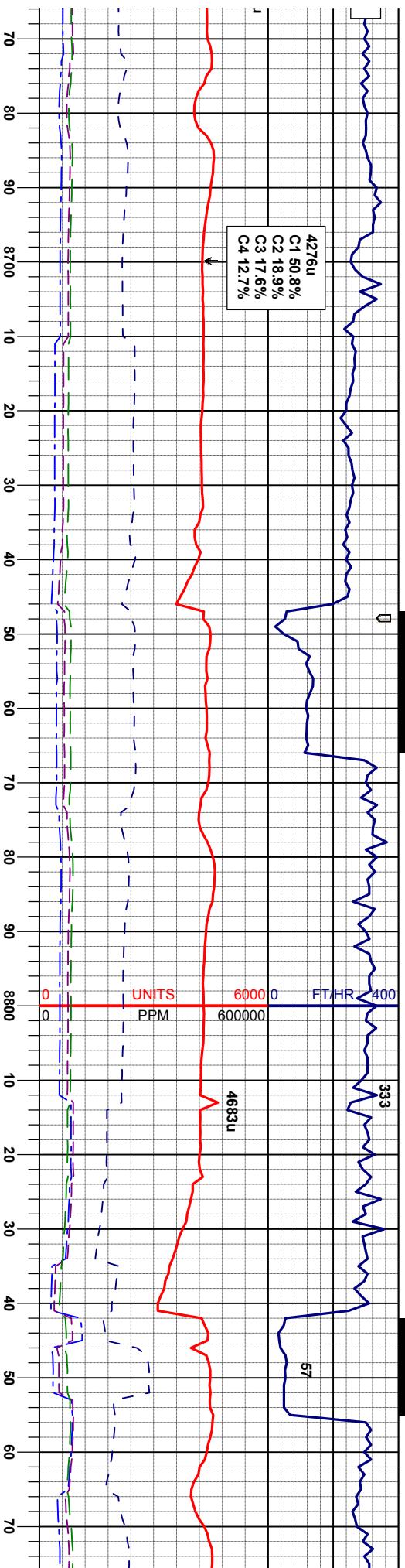
7000 ft











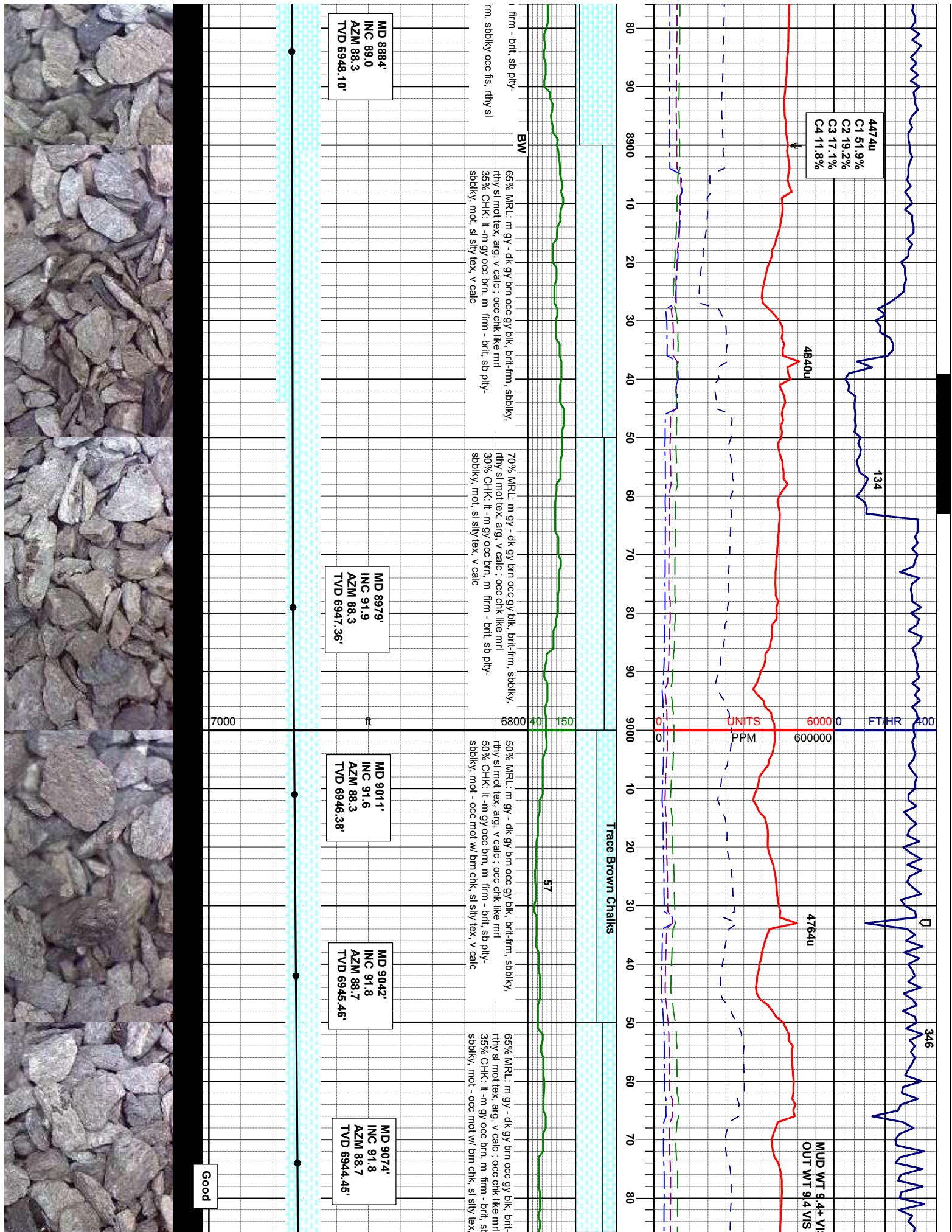
MD 8694'
INC 92.0
AZM 88.3
TVD 6950.26'

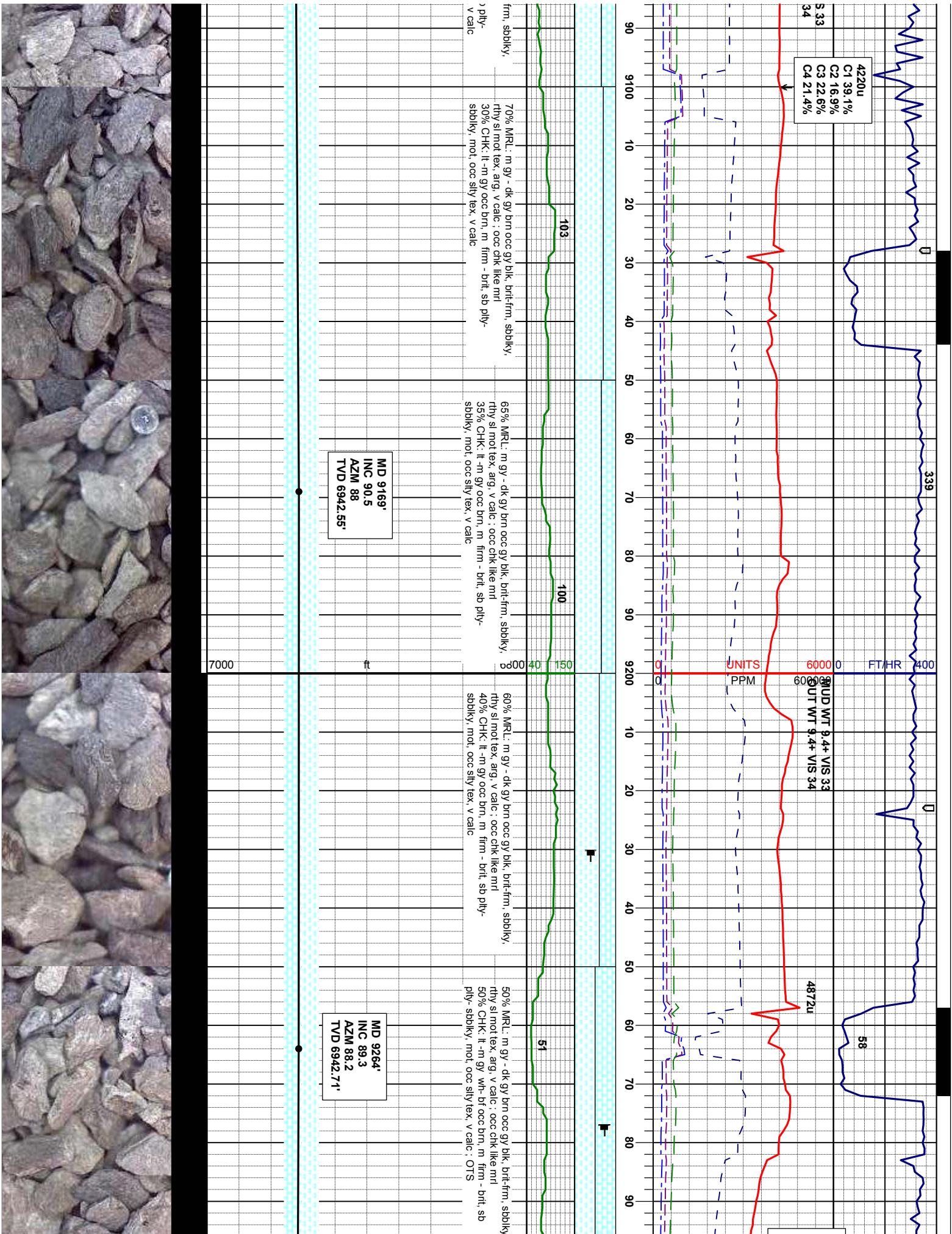
Metal Shavings Collected 2:00AM
1.6 lbs of Very Fines
90% Metal Shaving
10% Trapped Sample

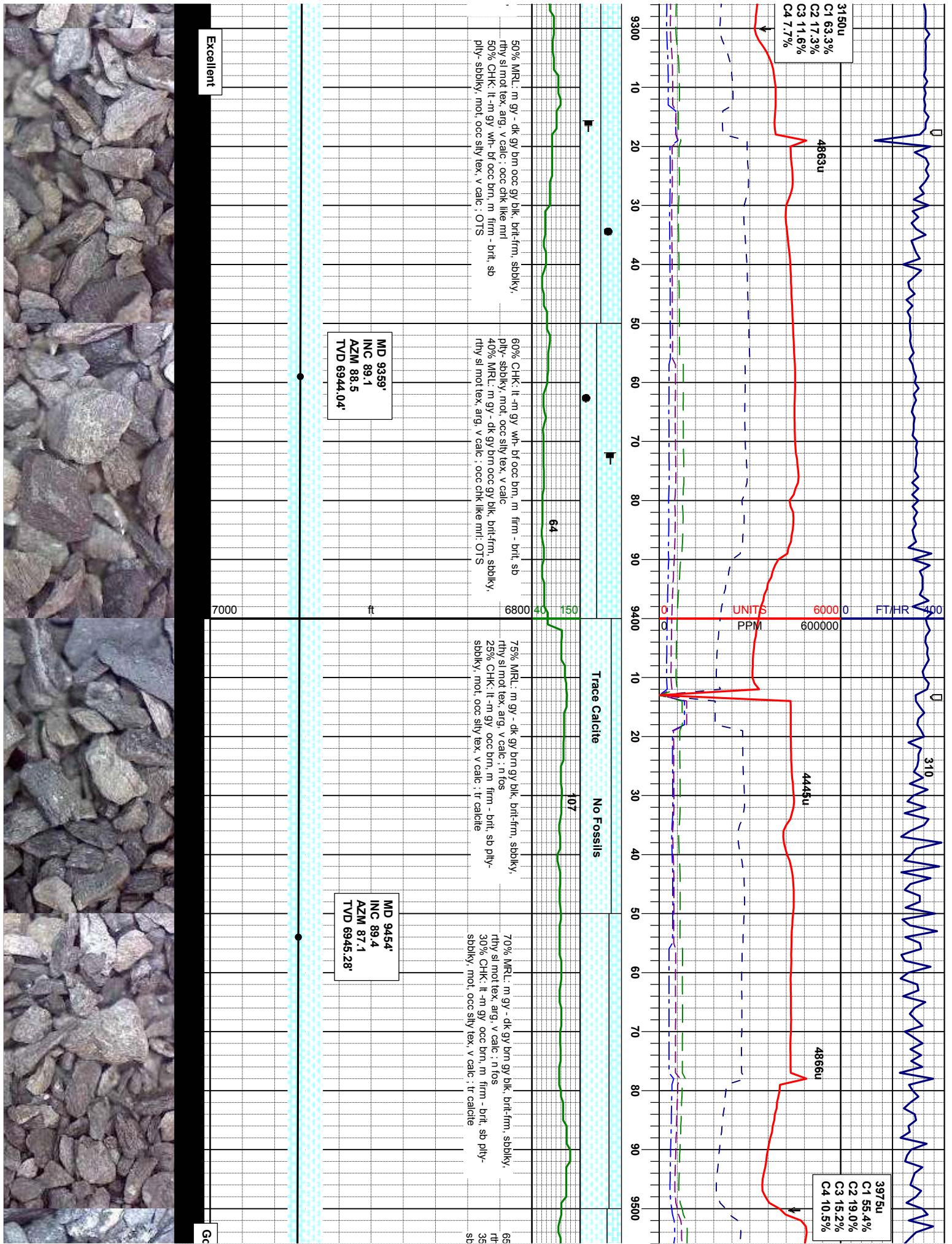
MD 8789'
INC 90.8
AZM 88.7
TVD 6947.94'

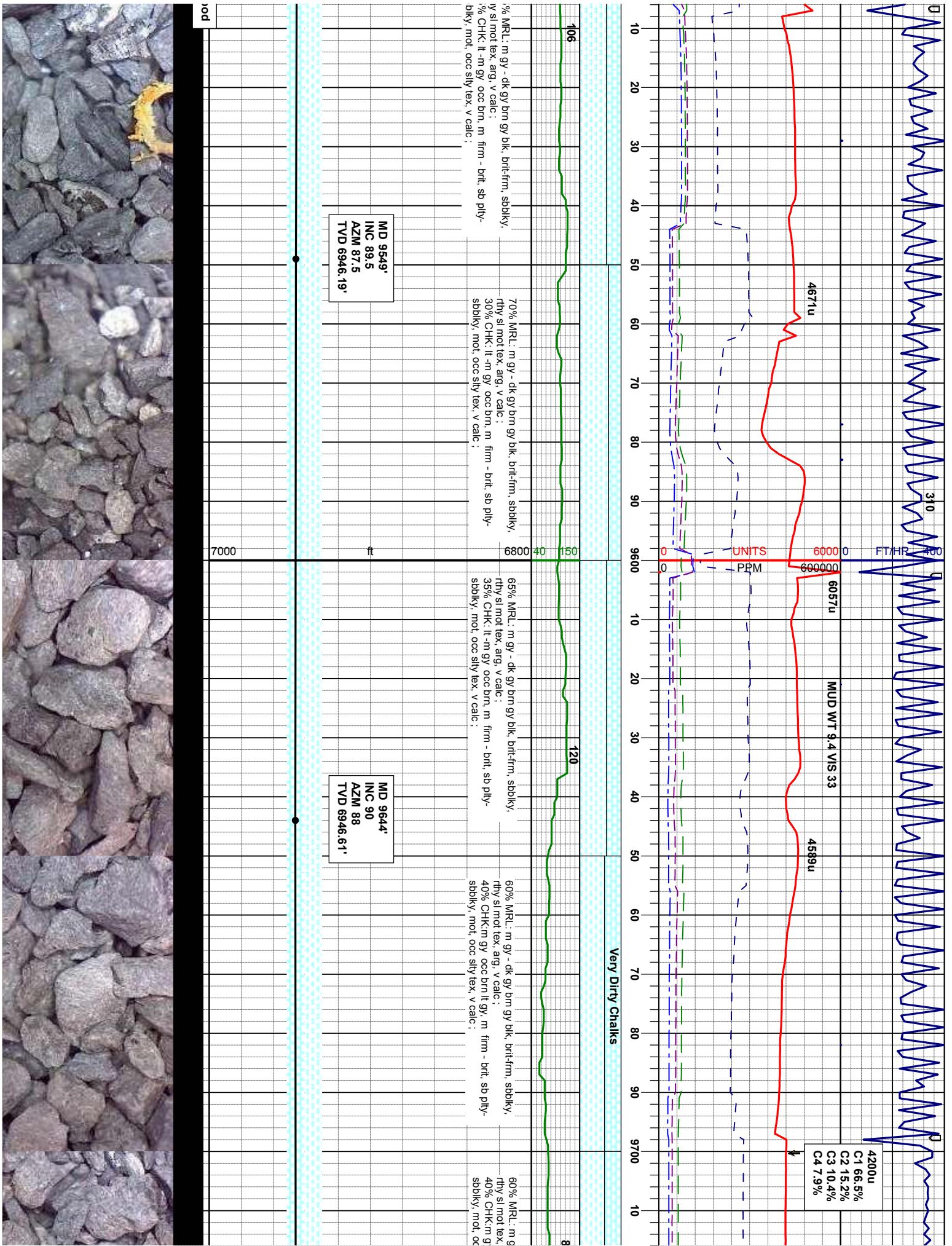
7000

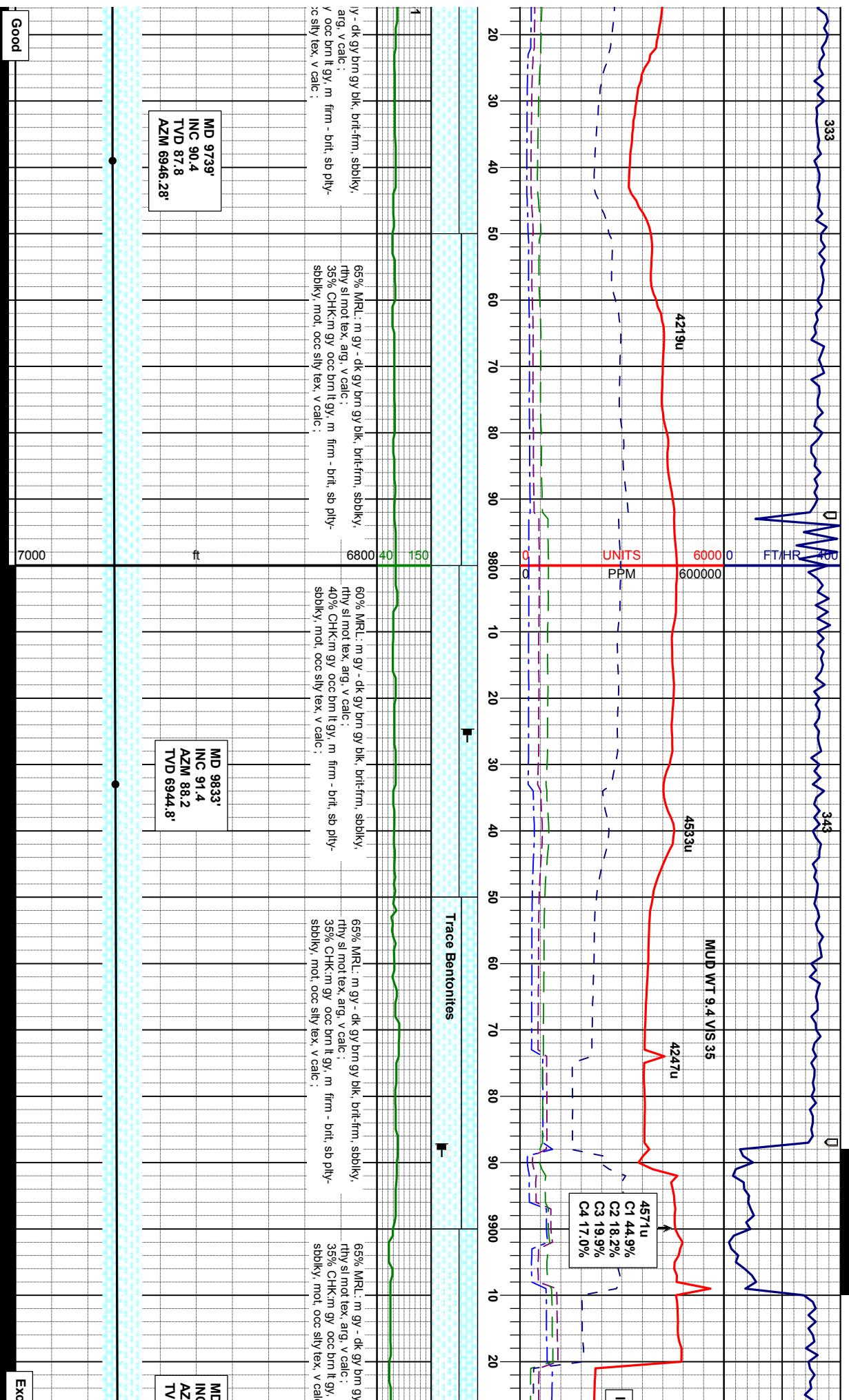
Good

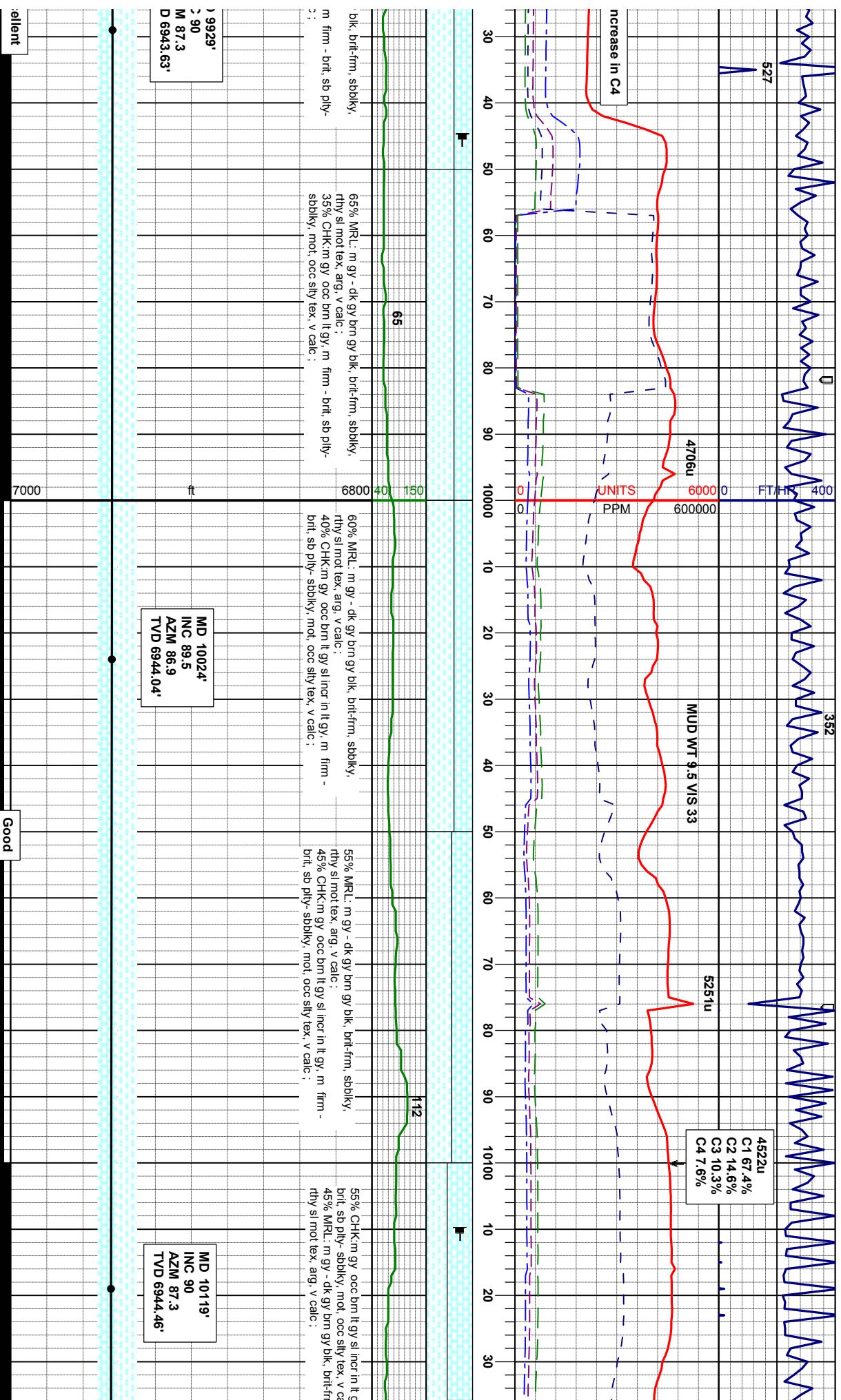


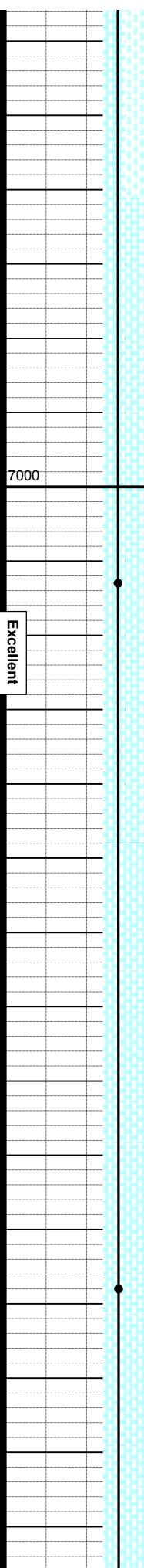
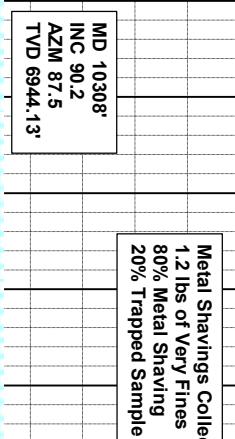
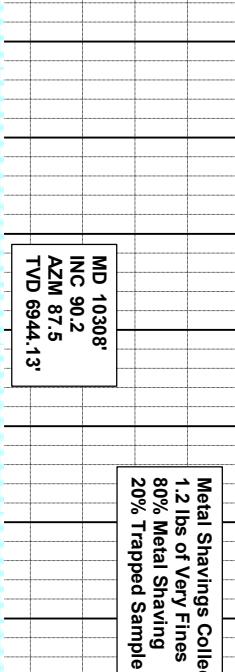
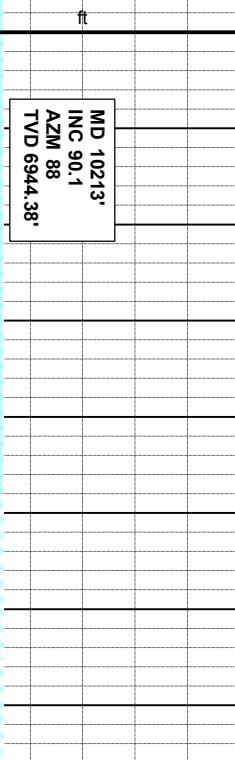
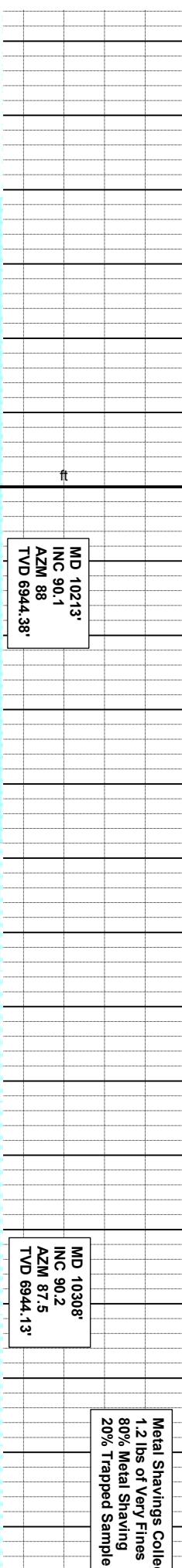
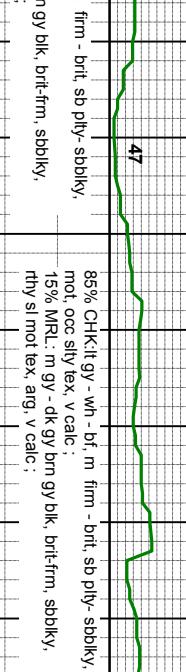
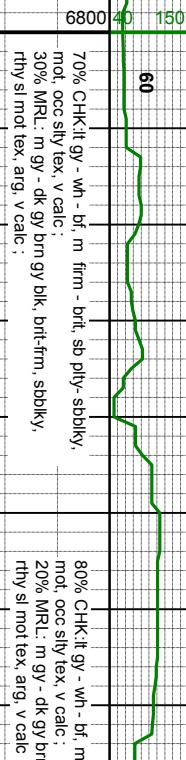
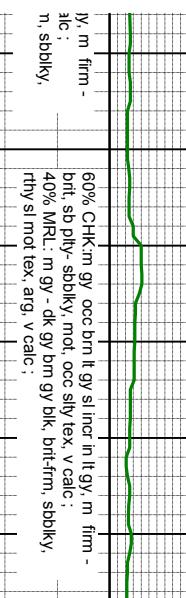
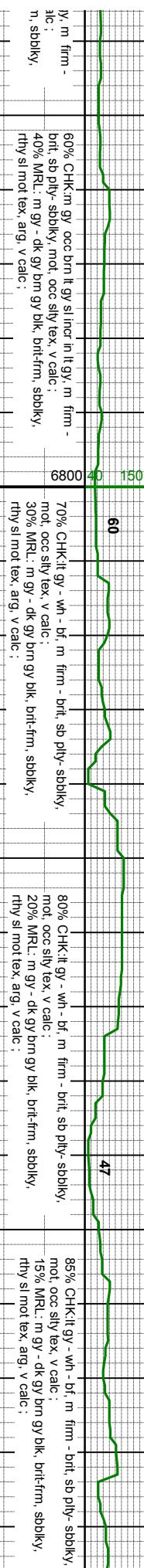
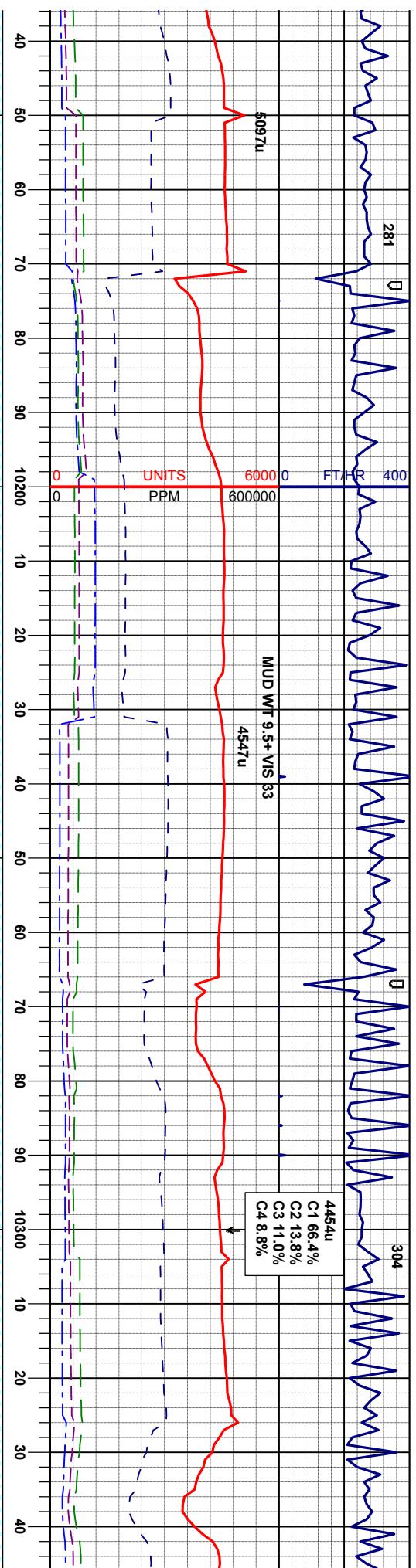












Excellent

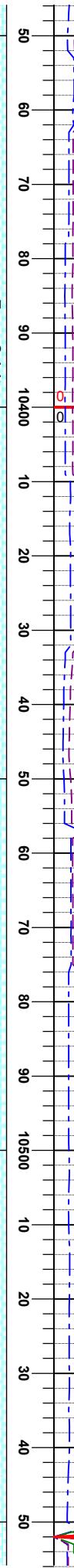


MUD WT 96 VIS 33
4491u

4638u
C1 57.2%
C2 18.7%
C3 15.7%
C4 8.5%

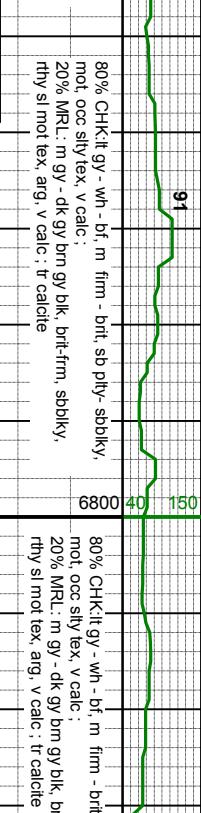
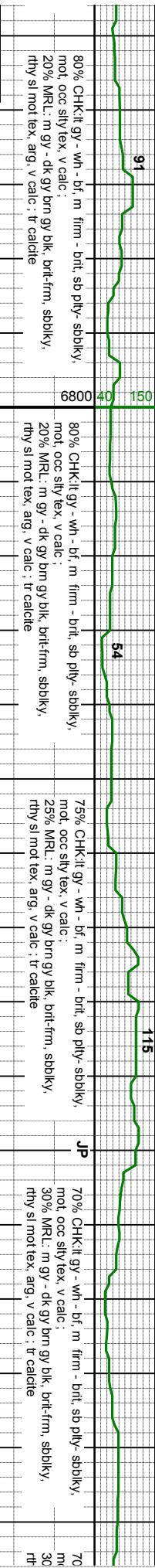
327
m
30
rt

UNITS
PPM



Clean B Chalk
● Trace Calcite

●



75% CHK it gy - wh - bf, m firm - brit, sb pty - sbkky,
mot, occ sly tex, v calc;
25% MRL: m gy - dk gy bry gy blk, brit-fnn, sbkky,

rhy sm mot tex, arg, v calc; tr calcite

70% CHK it gy - wh - bf, m firm - brit, sb pty - sbkky,
mot, occ sly tex, v calc;
30% MRL: m gy - dk gy bry gy blk, brit-fnn, sbkky,

rhy sm mot tex, arg, v calc; tr calcite

Excellent

7000

MD 10403'
INC 89.9
AZM 88.3
TVD 6944.04'

10498'
MD 89.9
INC 88.2
AZM 6944.21'



