

Décollement
Consulting
Inc.



Scale: 5" / 100'
Measured Depth Log

Well Name Pronghorn12-42 28HNB

Location SWNW Sec 28 T5N R61W

State Colorado

Country USA

API Number 05-123-38634-00

County Weld

Rig Number Ensign 136

Field D.J. Basin

Spud Date 1/22/2014

Drilling Completed 1/30/2014

Surface Coordinates 1412 FNL X 350 FWL

Ground Elevation 4616

K.B. Elevation 4633

Logged Interval 5700'

To 10765'

Total Depth 10765'

Formation Niobrara "B"

Type of Drilling Fluid WBM

Company Bonanza Creek Energy

Address 410 17th Street, Suite 100
Denver, CO 80202

Name Leo Carrasco/Chris I

Company Décollement Consulting

Address 13300 Braun Road
Golden, CO 80401



Operator

gy

le 1500

Geologist

twin

ing Inc.

Accessories

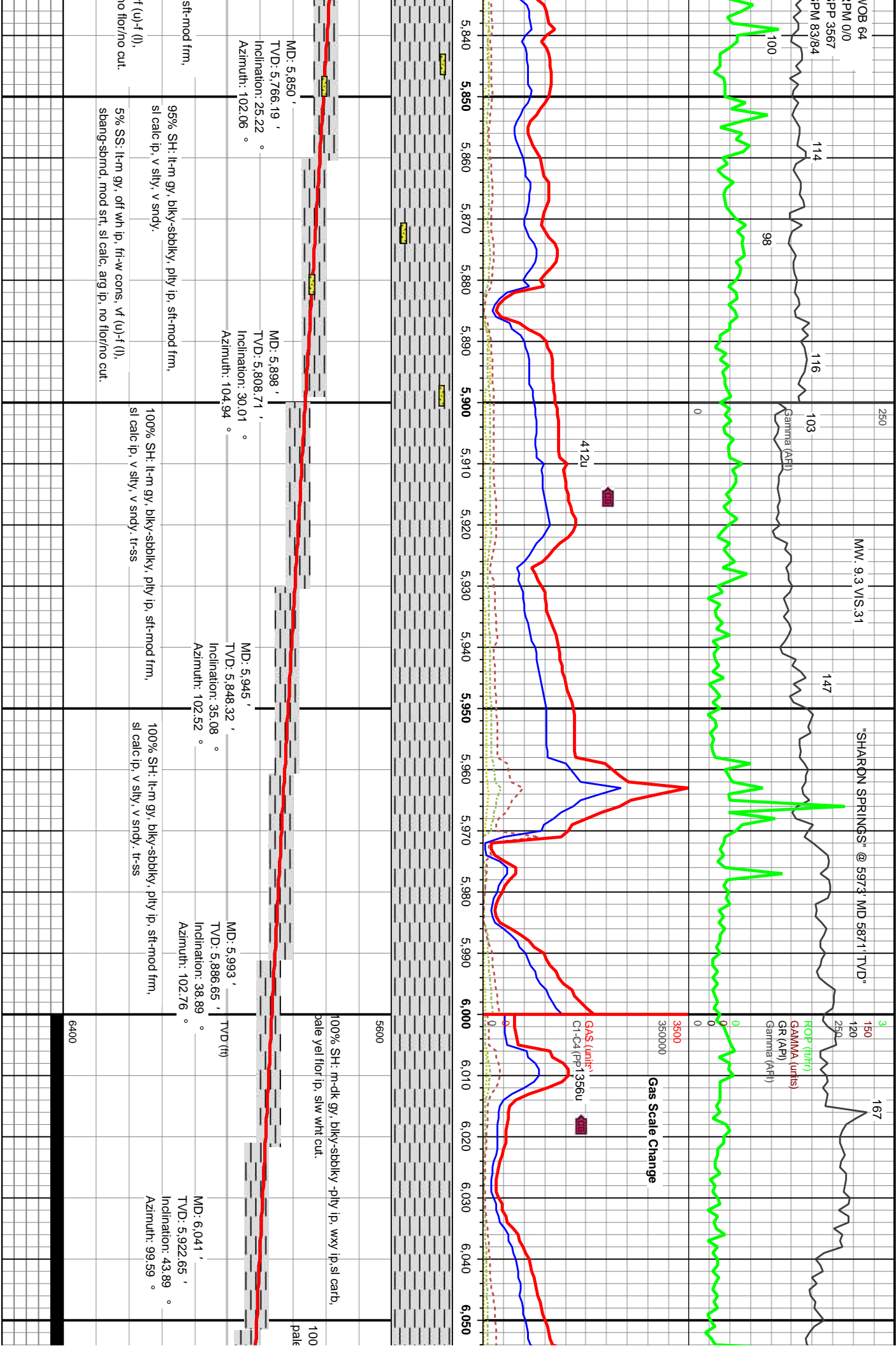
Fossils	F FOSSIL	- ARGILLACEOUS	✓ GLAUCONITE	Stringer
GASTROPOD	ARGILLITE GRAIN		GYPSIFEROUS	ANHYDRITE STRINGER
ALGAE	OOLITE	BENTONITE	HEAVY MINERAL	BENTONITE STRINGER
AMPHIPORA	OSTRACOD	BITUMENOUS SUBSTANCE	KAOLIN	COAL STRINGER
BELEMNITE	PELECYPOD	BRECCIA FRAGMENTS	MARLSTONE	DOLOMITE STRINGER
BIOCLASTIC	PELLET	CALCAREOUS	MINERAL CRYSTALS	GYPSUM STRINGER
BRACHIOPOD	PISOLITE	CARBONACEOUS FLAKES	NODULES	LIMESTONE STRINGER
BRYOZOA	PLANT REMAINS	CHTDK	PHOSPHATE PELLET	MARLSTONE (CALC) STRG
CEPHALOPOD	PLANT SPORES	CHLTY	PYRITE	MARLSTONE (DOL) STRG
CORAL	SCAPHOPOD	COAL - THIN BEDS	SALT CAST	SANDSTONE STRINGER
CRINOID	STROMATOPOROID	DOLOMITIC	SANDY	SHALE STRINGER
ECHINOID	FELDSPAR	FERRUGINOUS PELLET	SILTY	SILTSTONE STRINGER
FISH	Minerals	FERRUGINOUS PELLET	TUFFACEOUS	
FORAMINIFERA	ANHYDRITIC	FERRUGINOUS		

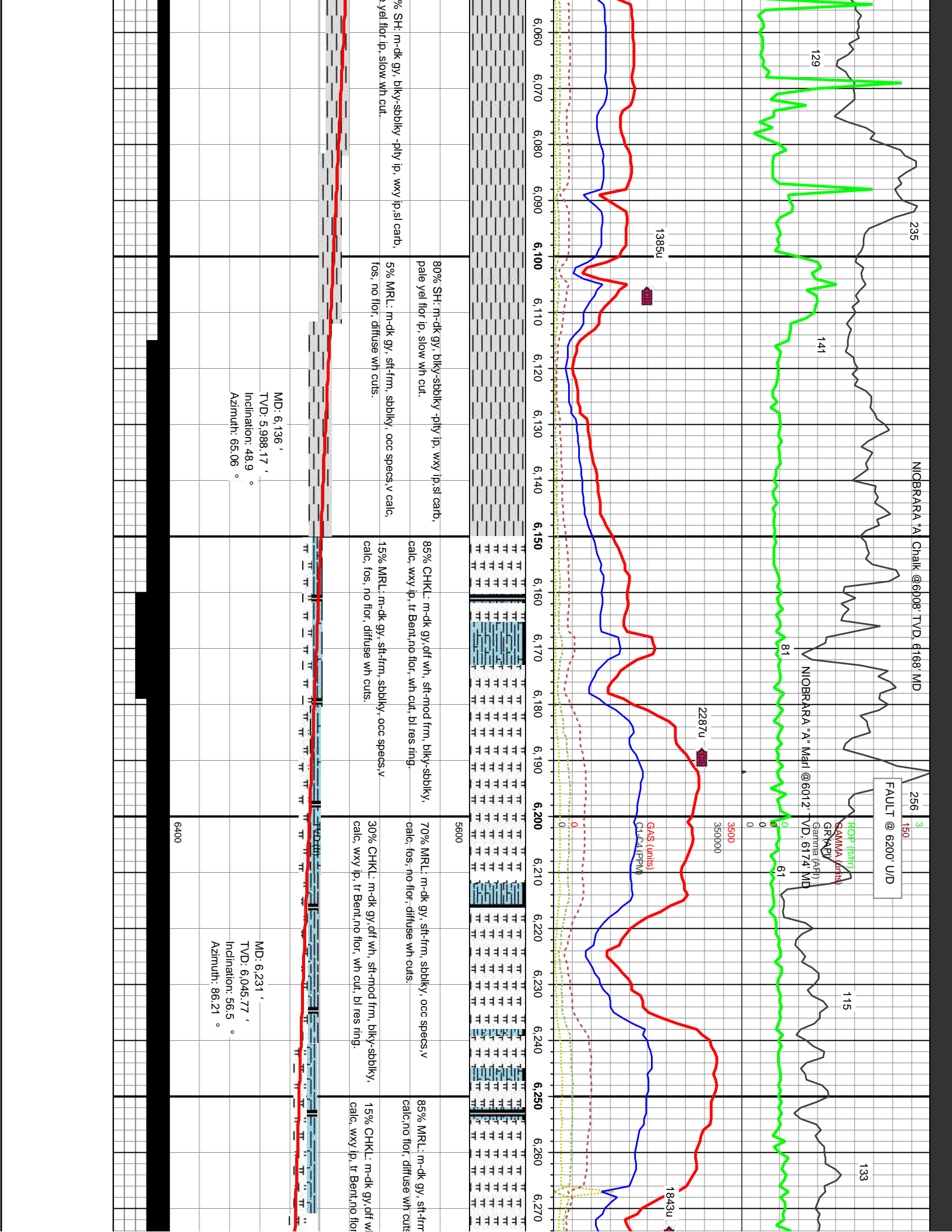
Other Symbols

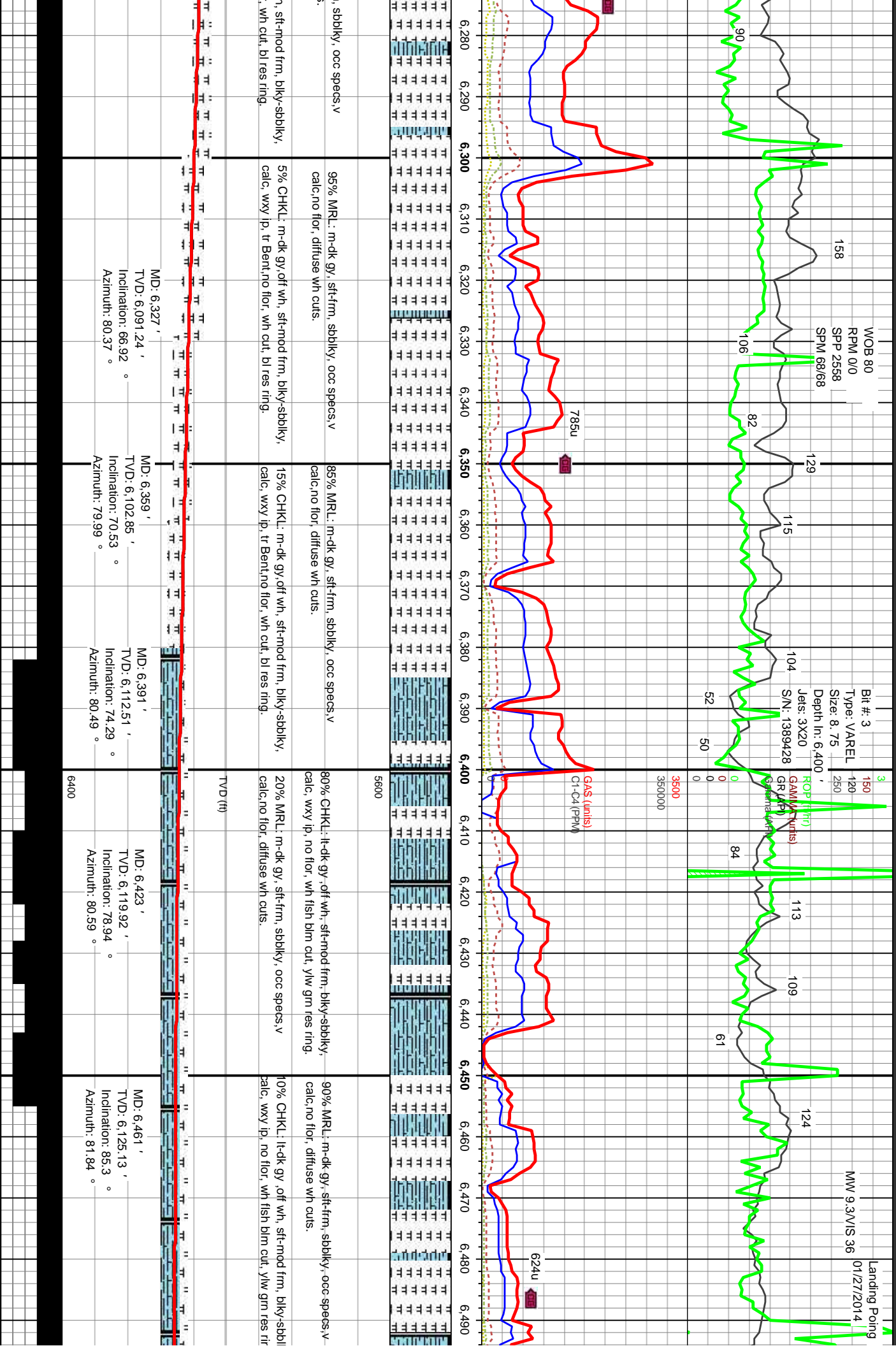
Oil Show	ORGANIC	GAS SHOW	MX MICROXLN
P PINPOINT	MN DEPTH	A ANGULAR	MS MUDSTONE
DEAD	NORMAL FAULT	R ROUNDED	PS PACKSTONE
EVEN	OIL SHOW	B SUBANG	WS WACKESTONE
QUESTIONABLE	OVERTURNED STRATA	R SUBRND	
SPOTTED STAINING	REVERSE FAULT	Textures	Sorting
BIT	SIDEWALL CORE (LEFT)	BS BOUNDSTONE	M MODERATE
Porosity	CONNECTION (LEFT)	SIDEWALL CORE (RIGHT)	P POOR
E EARTHY	CONNECTION (RIGHT)	SLIDE	W WELL
F FENESTRAL	CONNECTION GAS	SURVEY	CX CRYPTOXLN
F FRACTURE	CORE - LOST	TRIP GAS	Chalk
INTERCRYSTALLINE	CORE - RECOVERED	WIRELINE TESTED - LEFT	FX FINELYXLN
INTEROOLITIC	DST INTERVAL	WIRELINE TESTED - RT	GS GRAINSTONE
MOLDIC	FAULT		L LITHOGRAPHIC
	FORMATION TOP	Rounding	

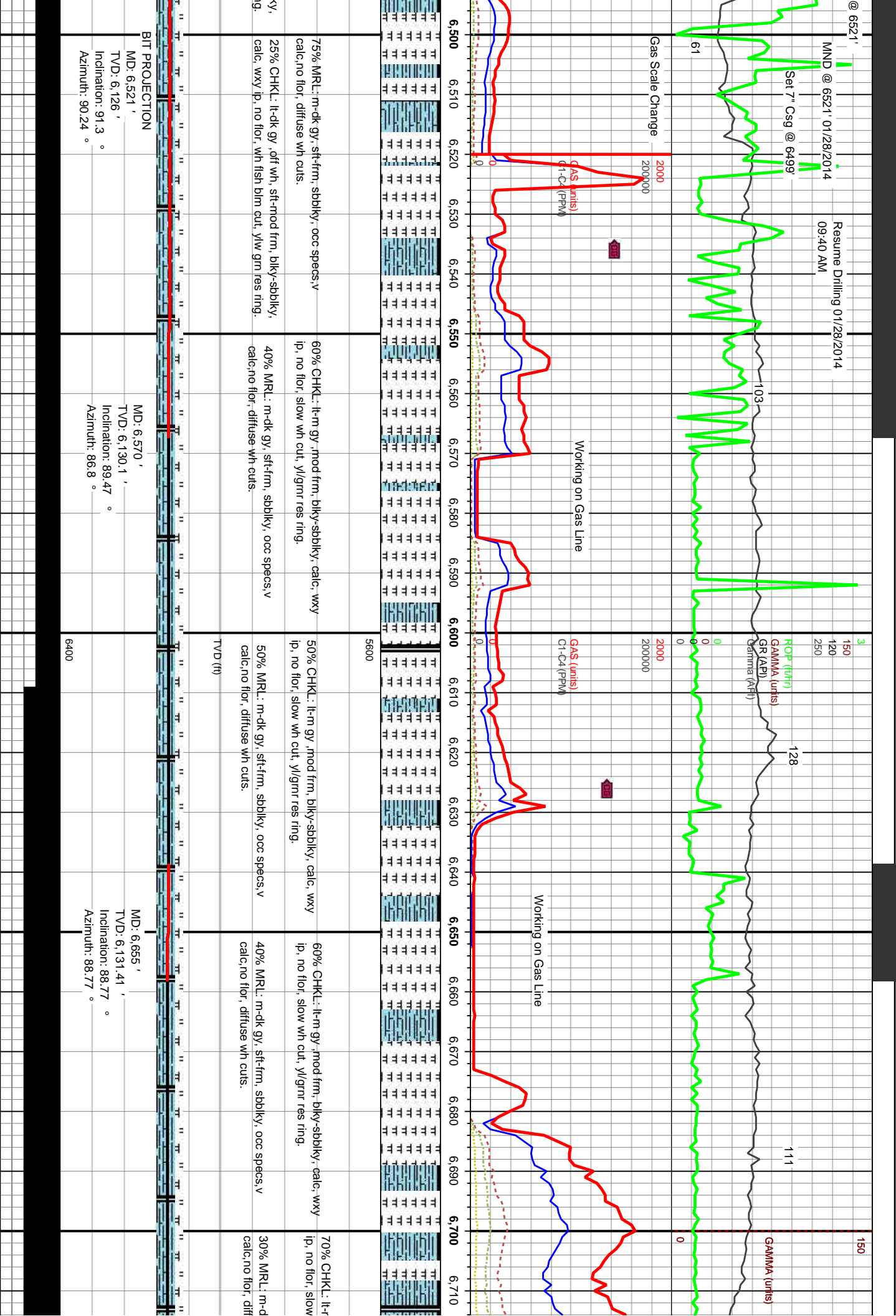
Rock Types

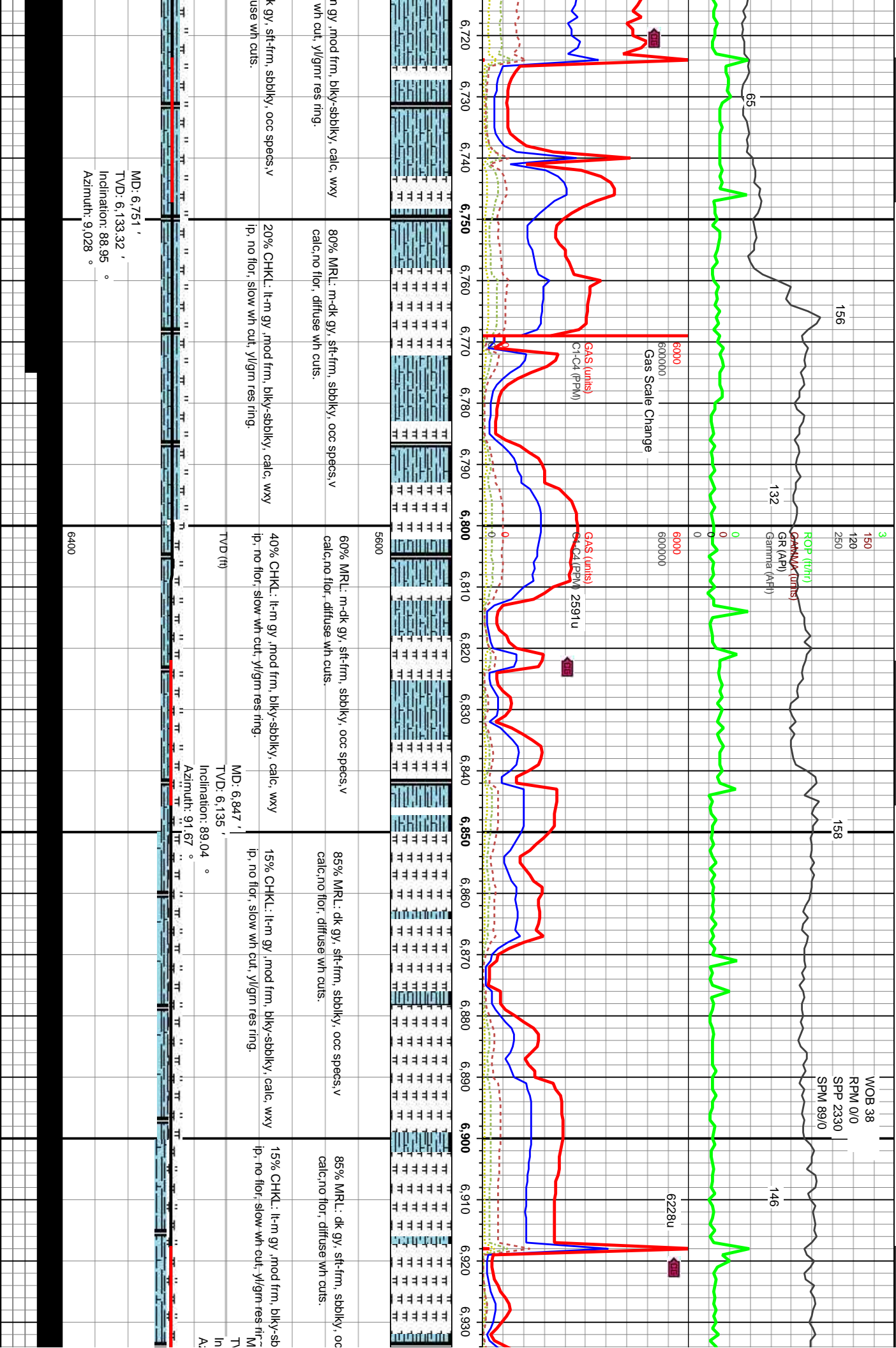
DOLOMITE	SHALE GRAY	TILL
CHERT	SHALE COLORED	BENTONITE
MARLSTONE	SILTSTONE	TUFF
CLAYSTONE	SANDSTONE	IGNEOUS
	CONGLOMERATE	METAMORPHIC
SHALE	BRECCIA	Chalk

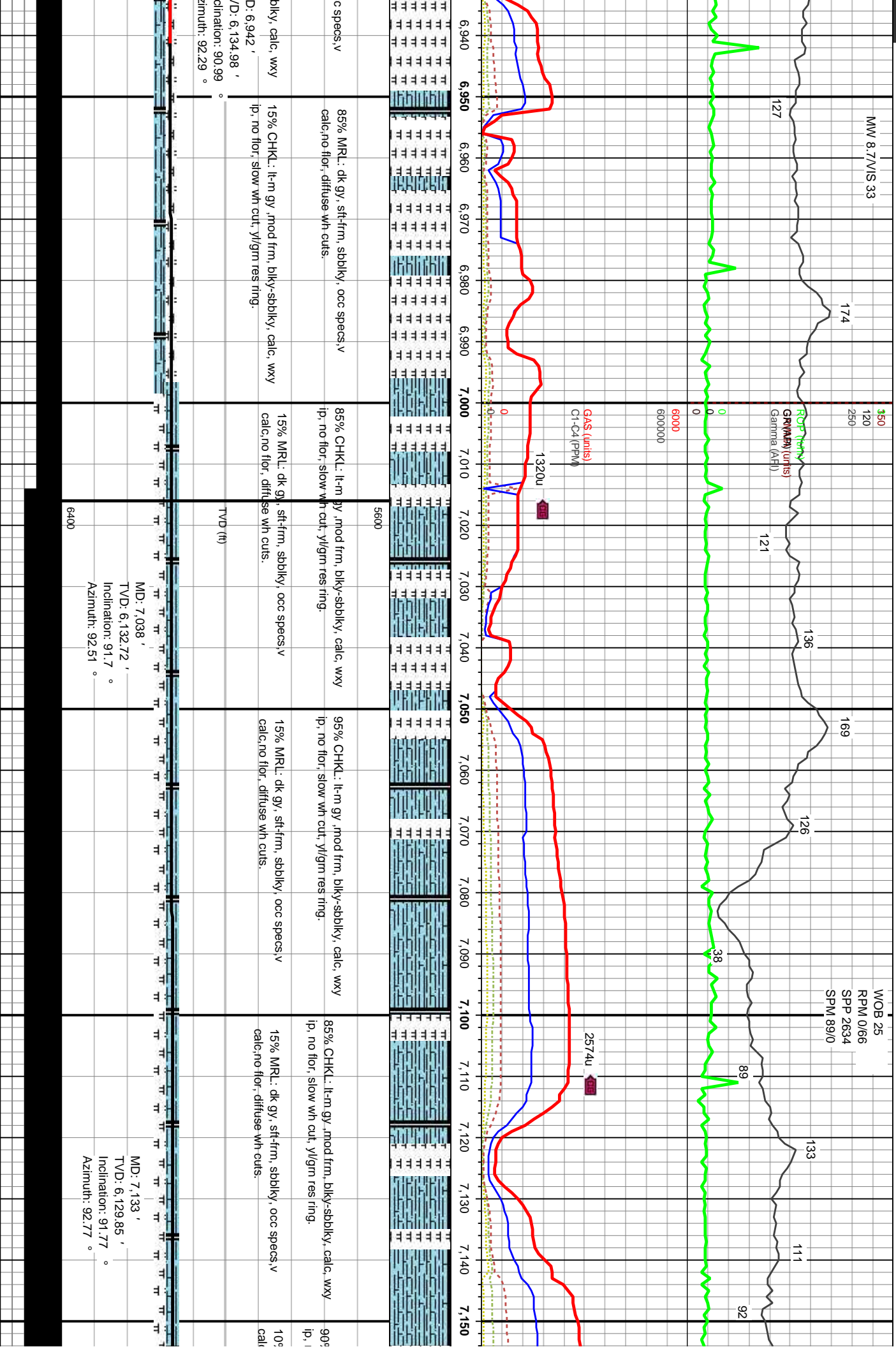


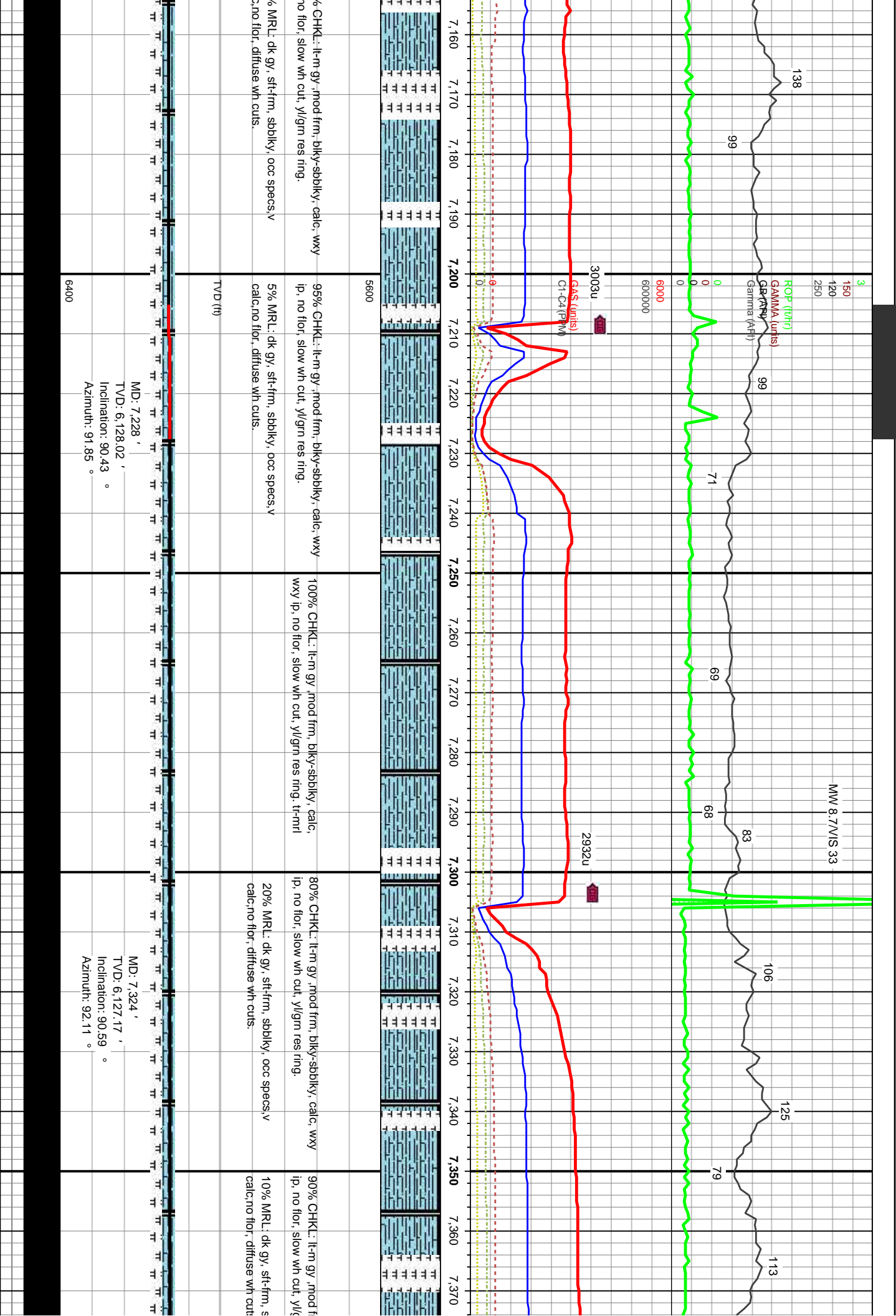


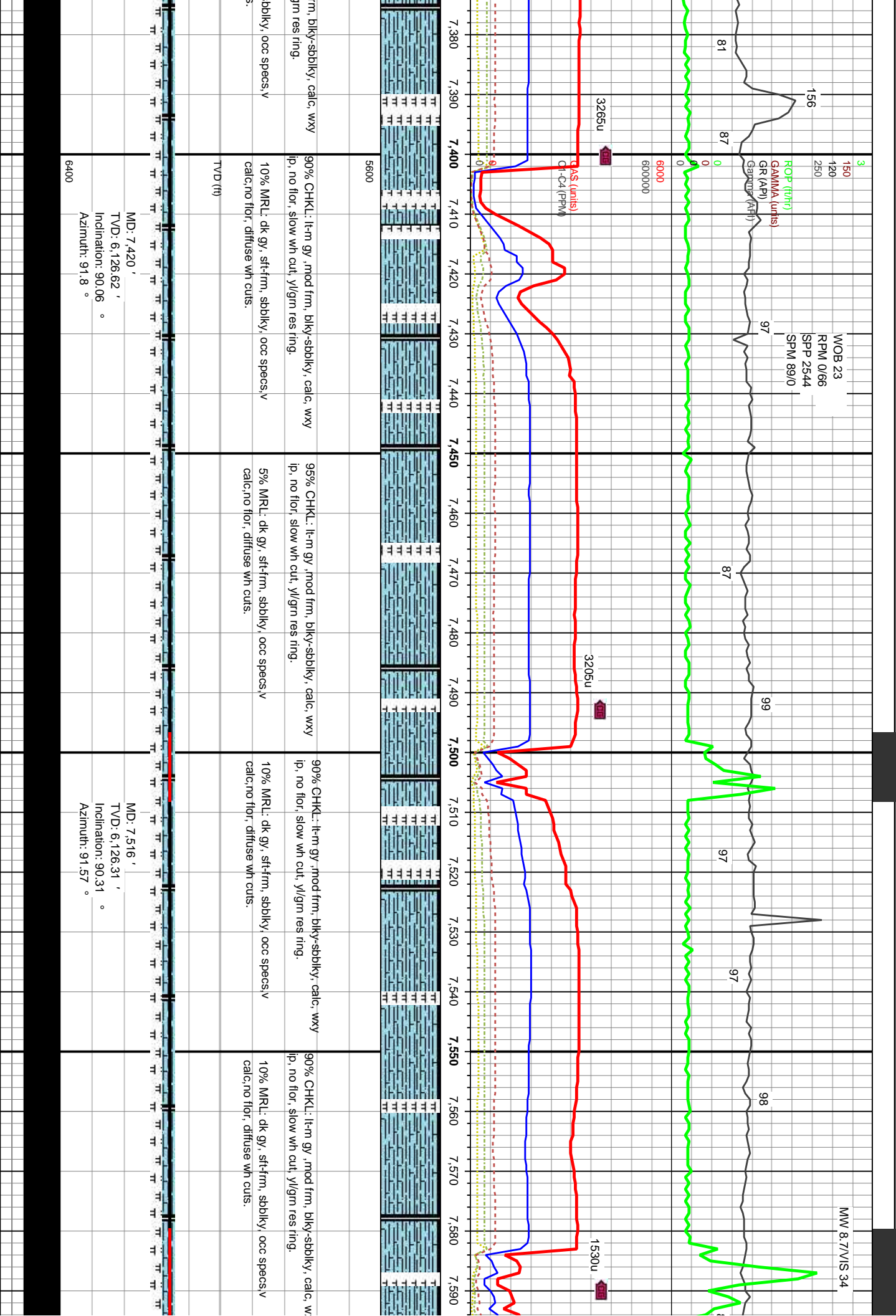


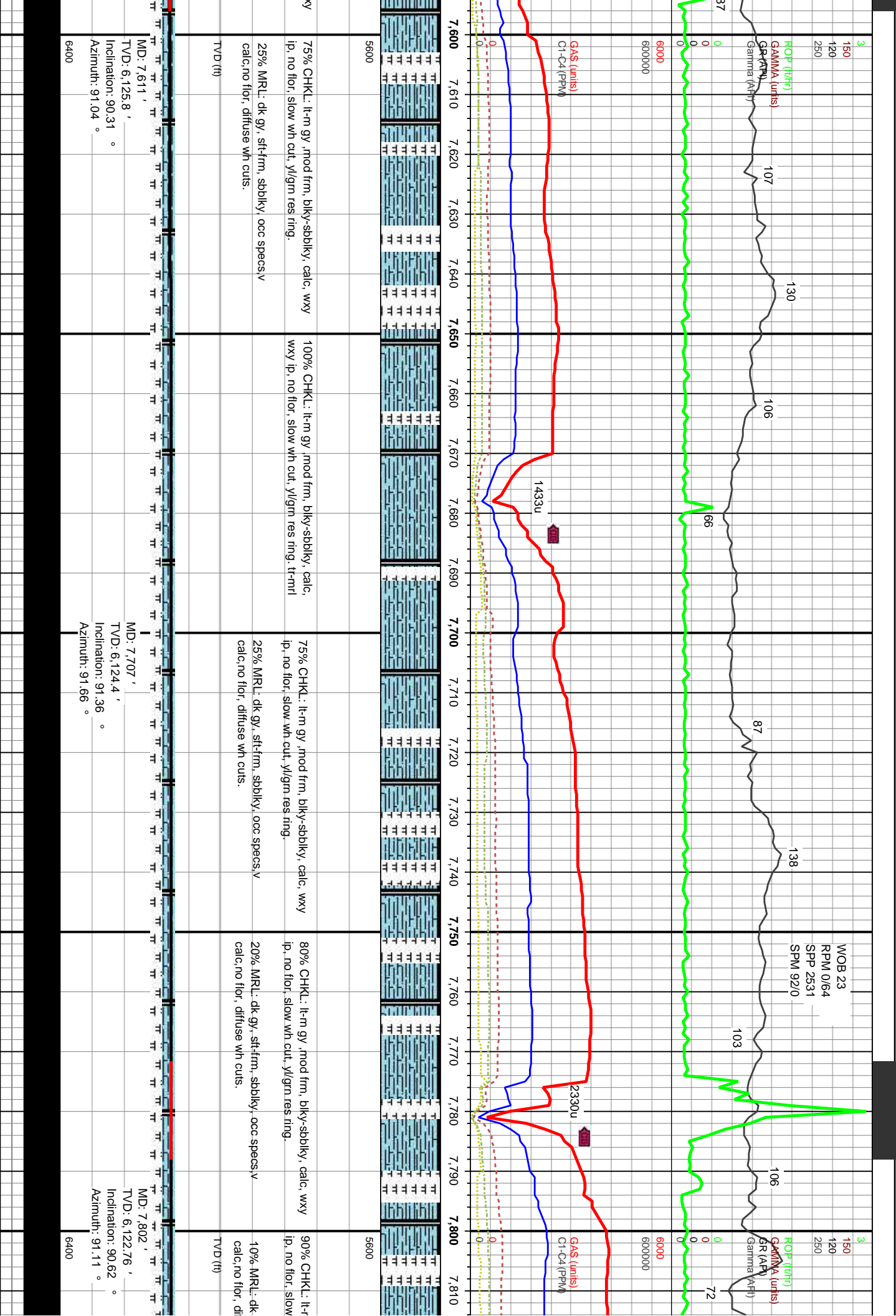


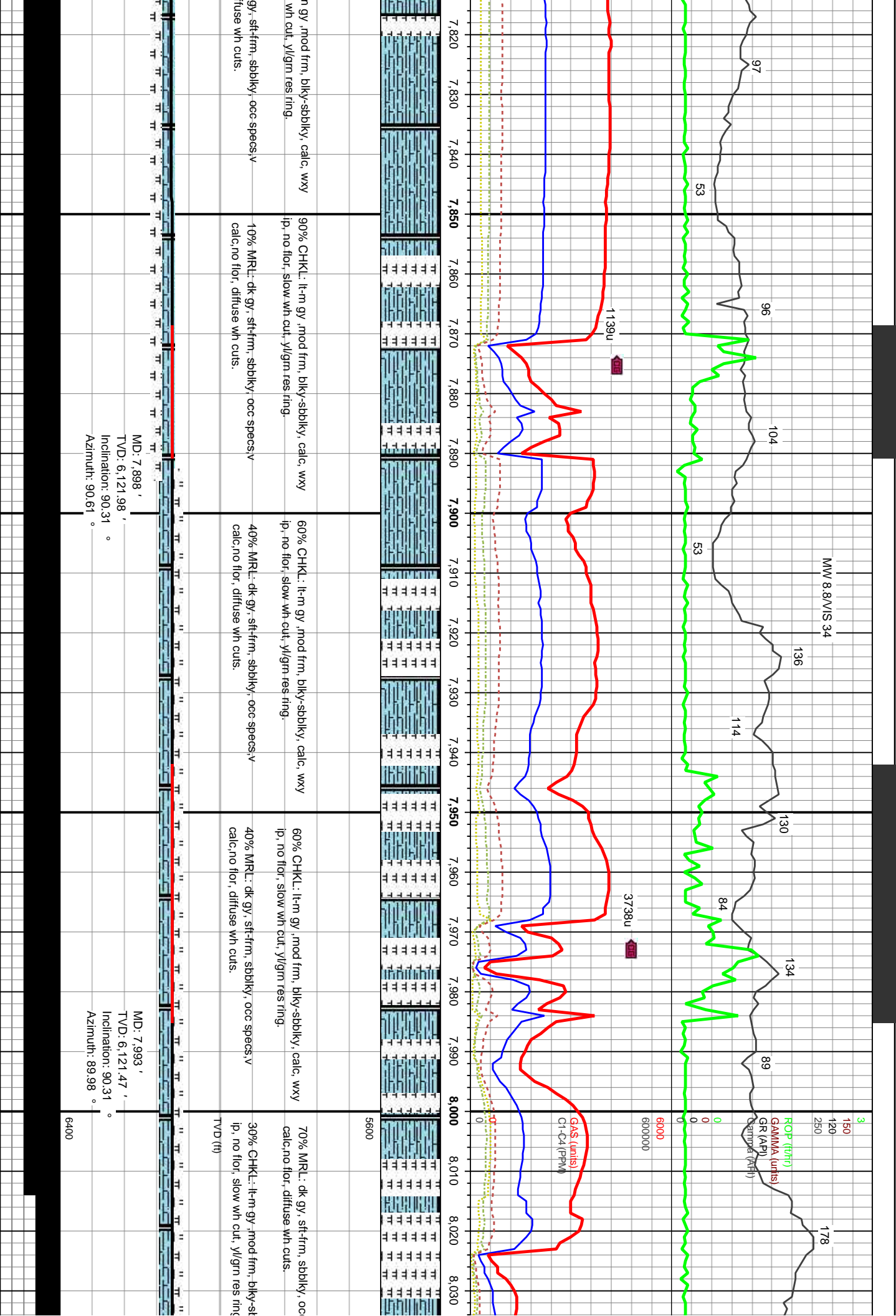


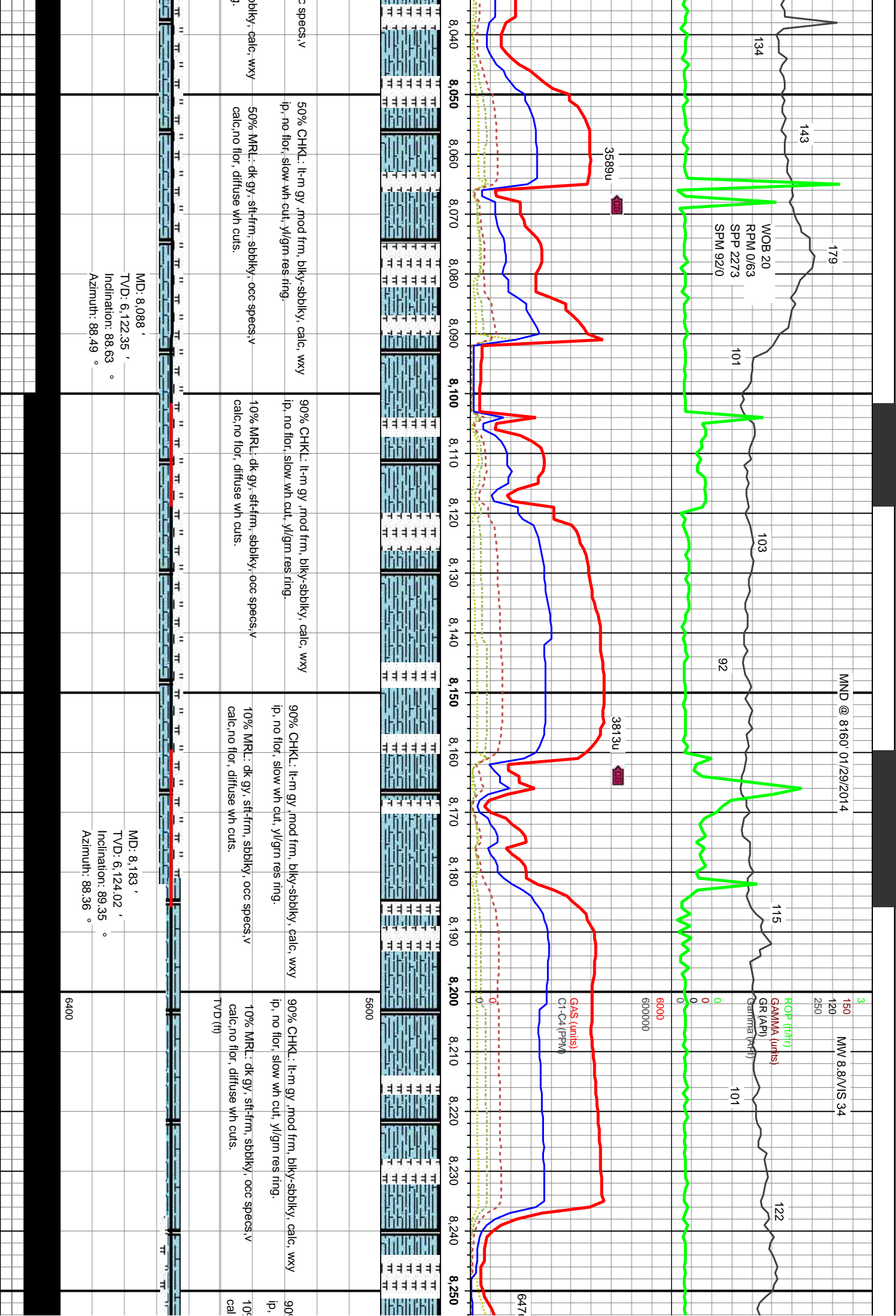


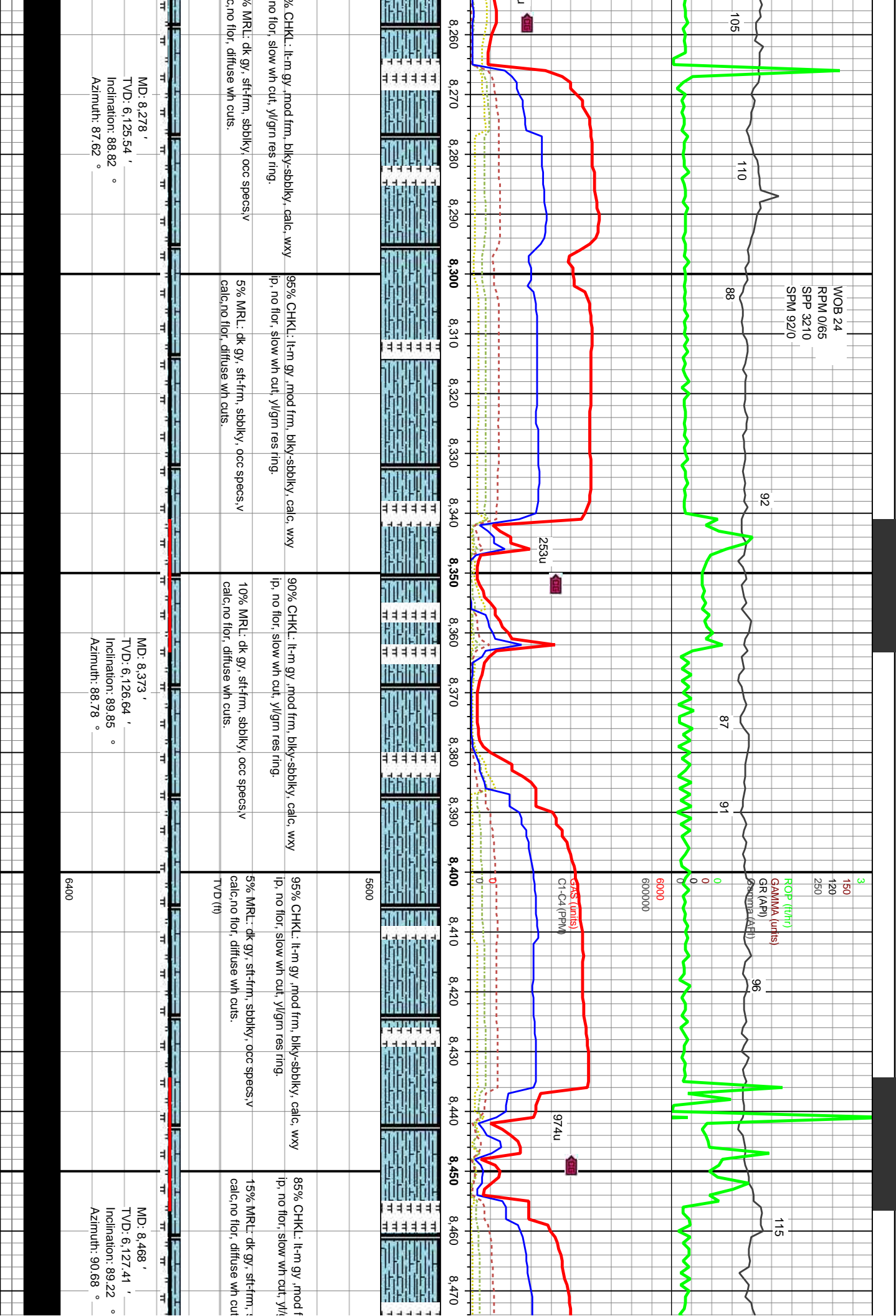












POSSIBLE FAULT @ 8600'

MMW 8.9/VIS 34

WOB 24

RPM 0/65

SPP 3210

SPM 92/0

71

59

171

91

ROP (ft/hr)
GAMMA (units)
GR (API)
Gamma (API)

600000

GA\$ (units)
C1-C4 (PPM)

1219u

1721u



95% CHK: lt-m gy, mod frm, biky-sbiky, calc, wxy
ip, no flor, slow wh cut, y/lgm res ring.
5% MRL: dk gy, sft-frm, sbiky, ooc specs, v
calc, no flor, diffuse wh cuts.

70% CHK: lt-m gy, mod frm, biky-sbiky, calc, wxy
ip, no flor, slow wh cut, y/lgm res ring.
30% MRL: dk gy, sft-frm, sbiky, ooc specs, v
calc, no flor, diffuse wh cuts.

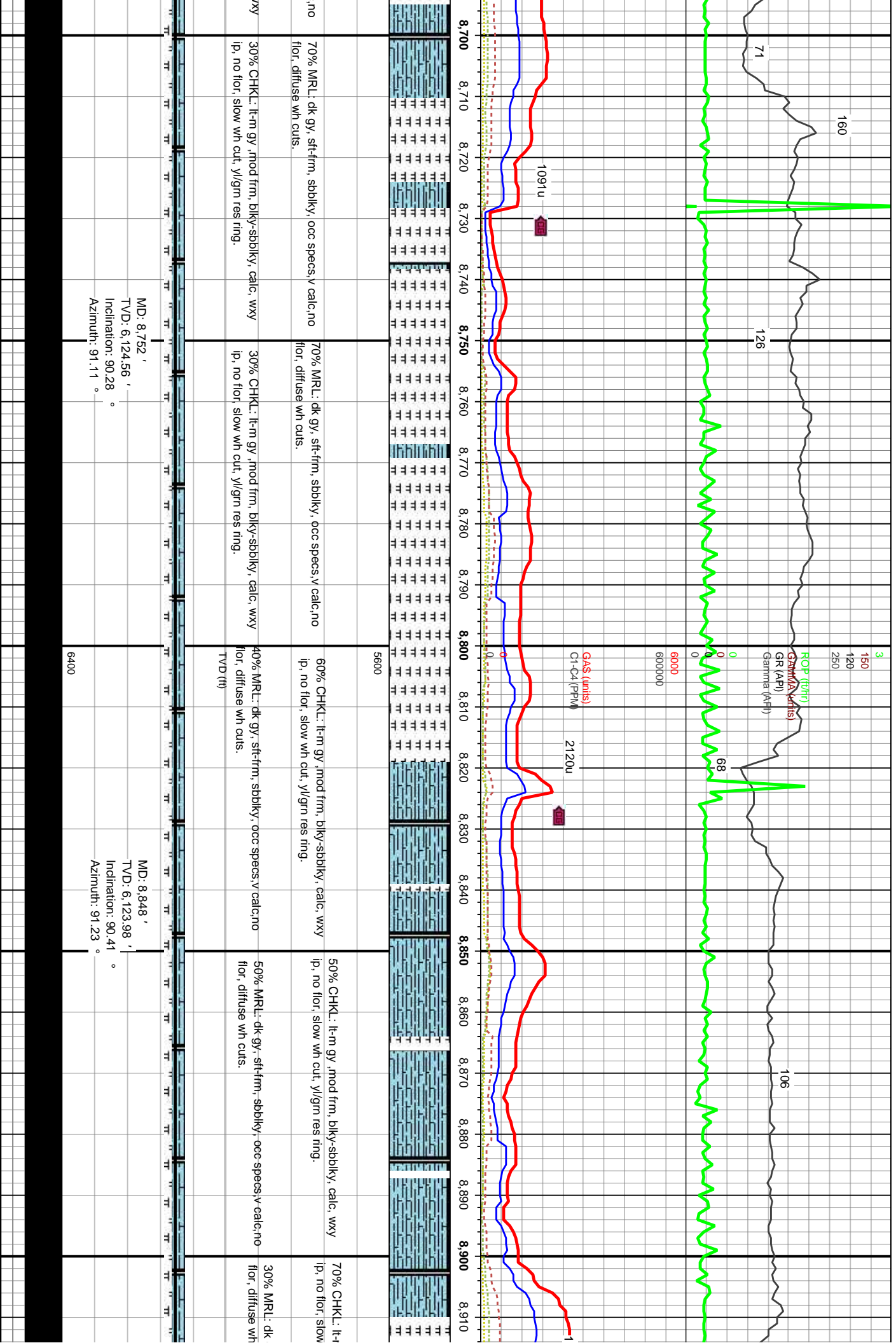
60% CHK: lt-m gy, mod frm, biky-sbiky, calc, wxy
ip, no flor, slow wh cut, y/lgm res ring.
40% MRL: dk gy, sft-frm, sbiky, ooc specs, v
calc, no flor, diffuse wh cuts.

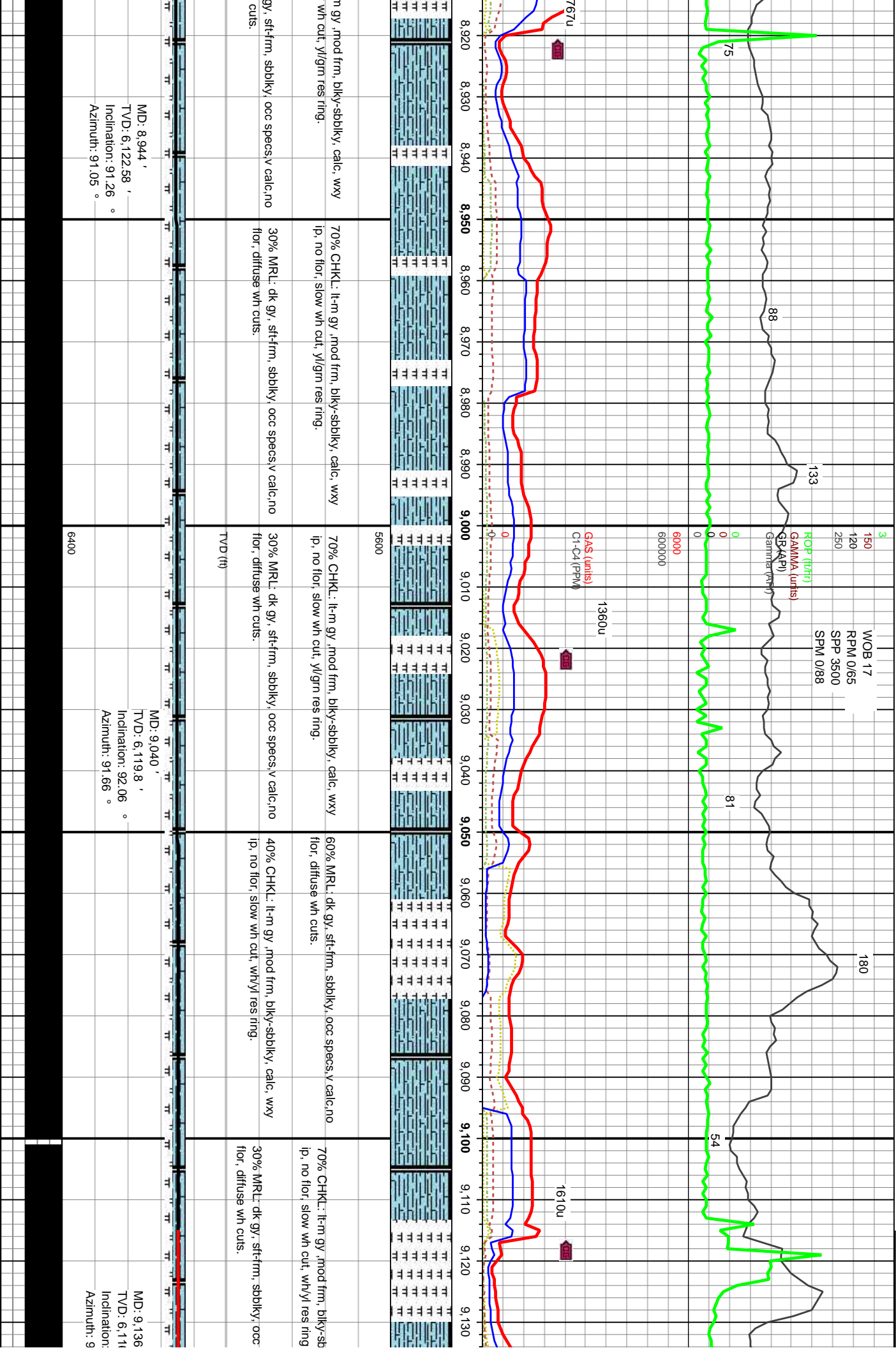
60% MRL: dk gy, sft-frm, sbiky, ooc specs, v
calc, no flor, diffuse wh cuts.
40% CHK: lt-m gy, mod frm, biky-sbiky, calc, v
ip, no flor, slow wh cut, y/lgm res ring.

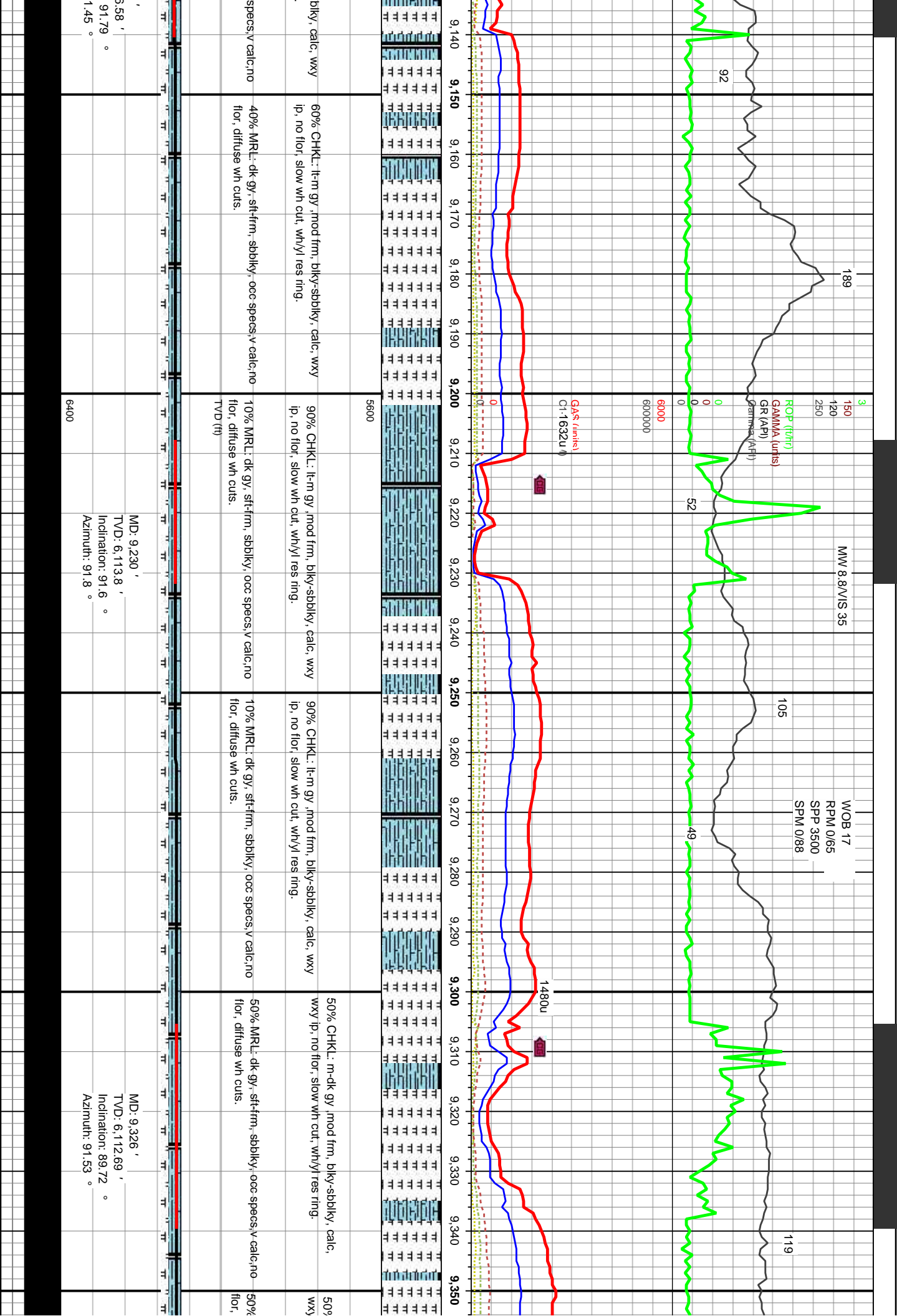
MD: 8,564 '
TVD: 6,126.9 '
Inclination: 91.39 °
Azimuth: 90.86 °

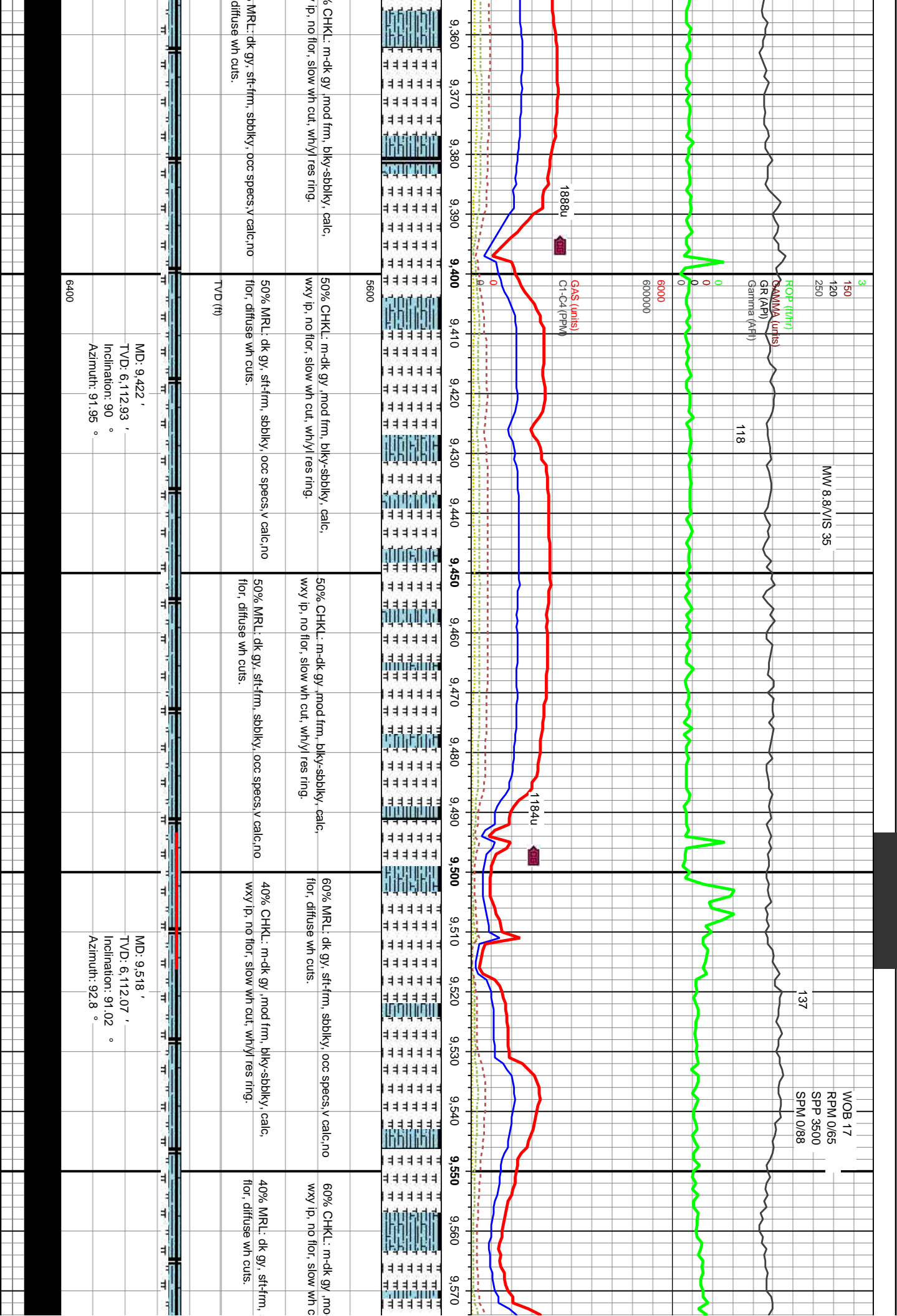
MD: 8,658 '
TVD: 6,125.28 '
Inclination: 90.59 °
Azimuth: 91.3 °

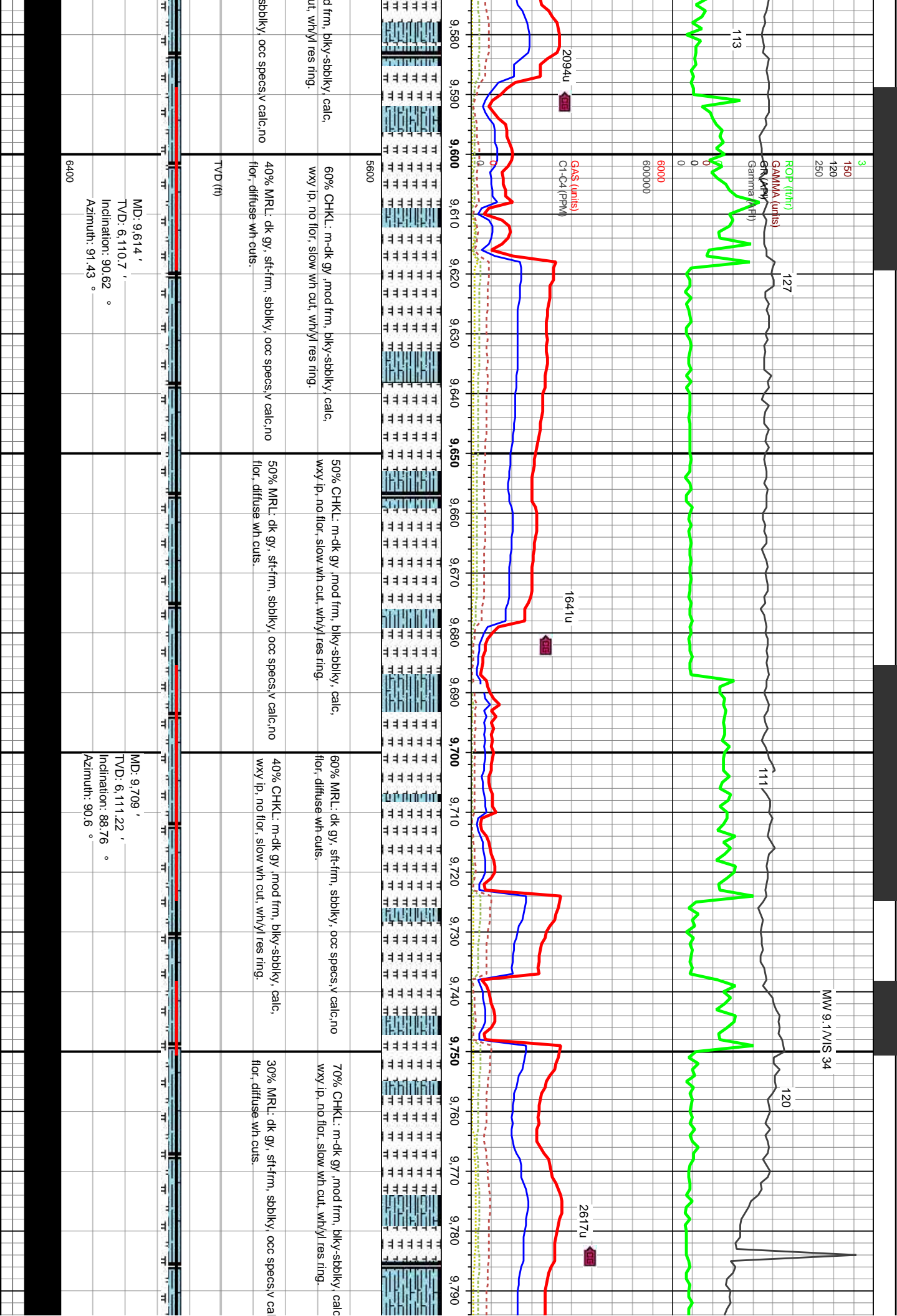
6400

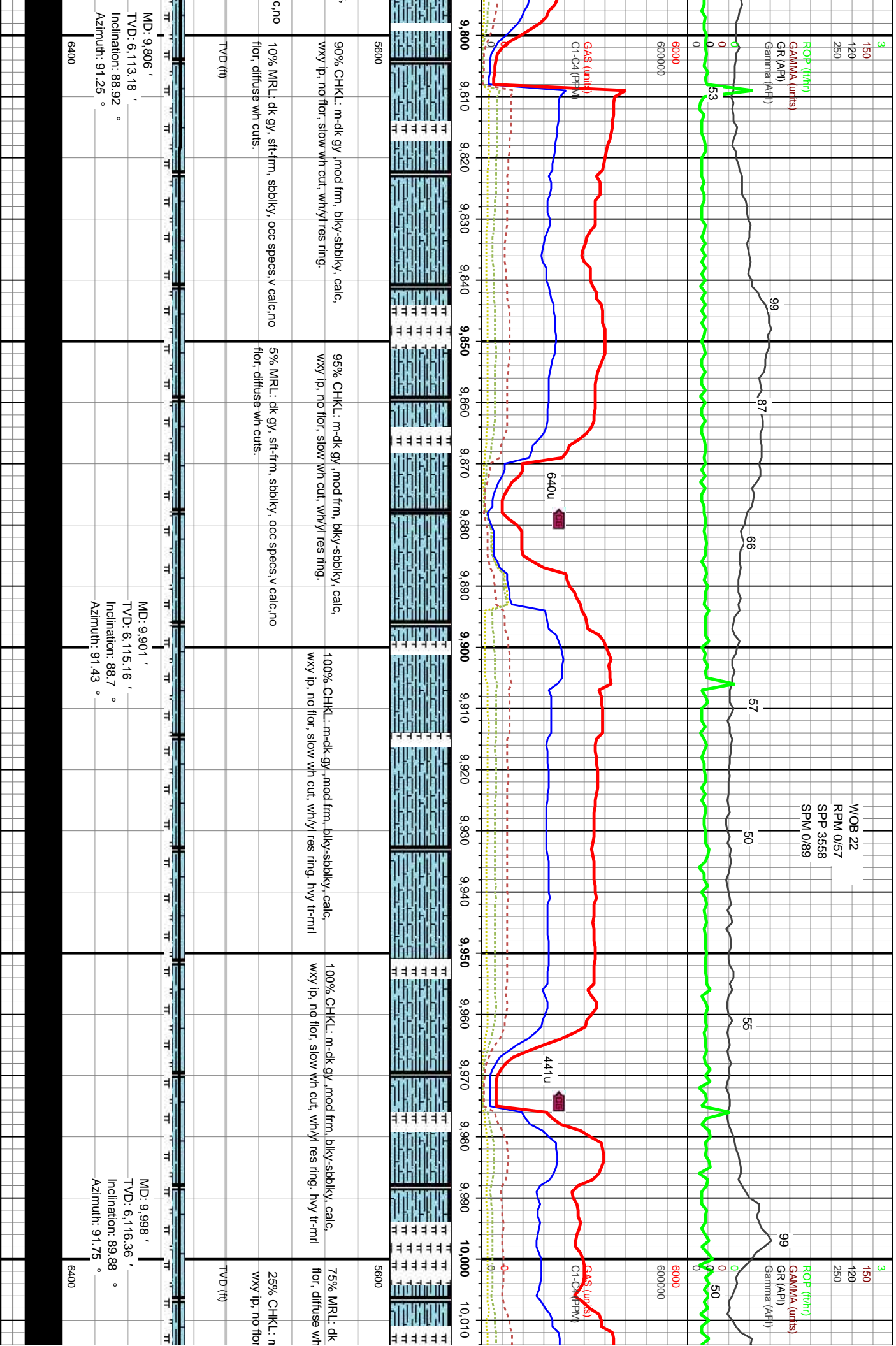


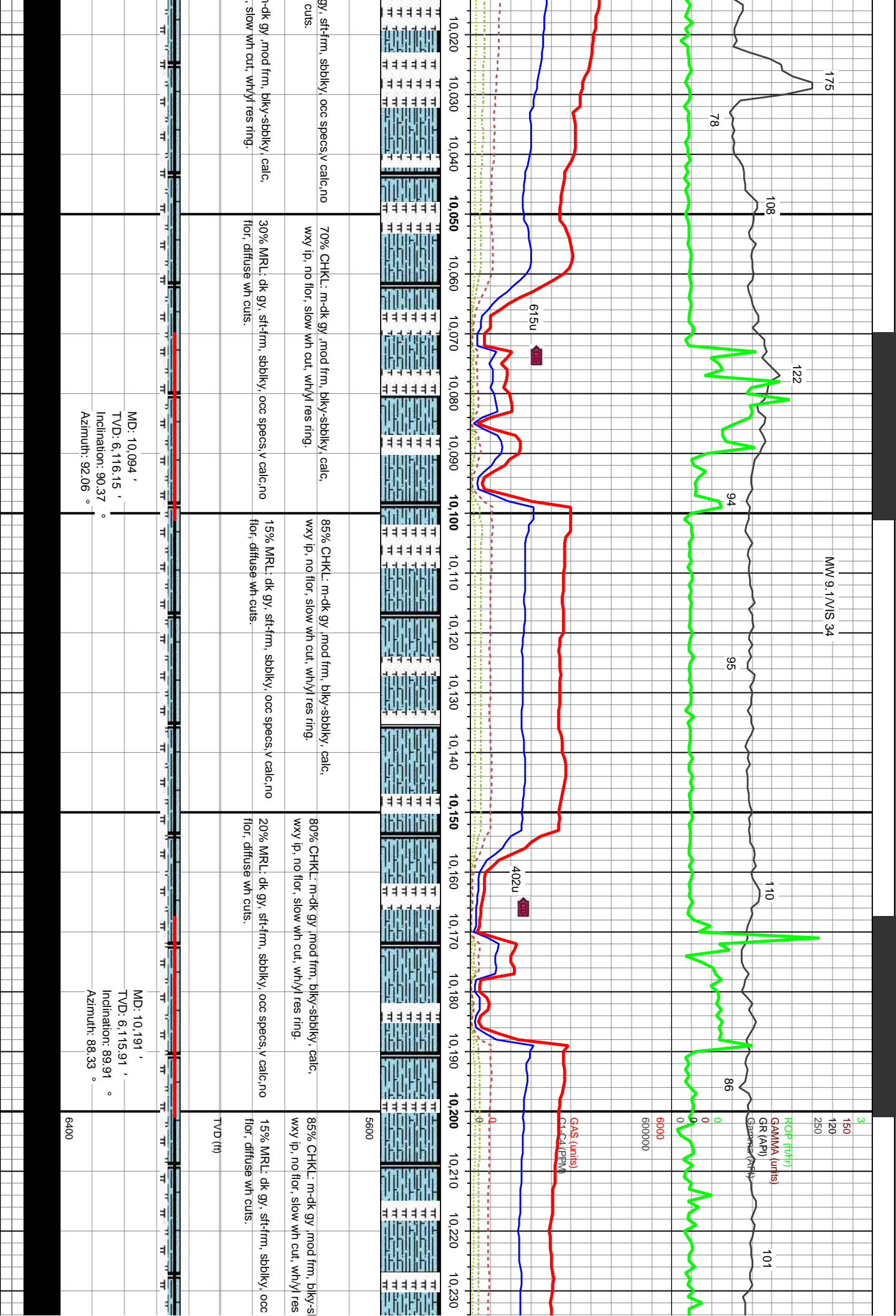


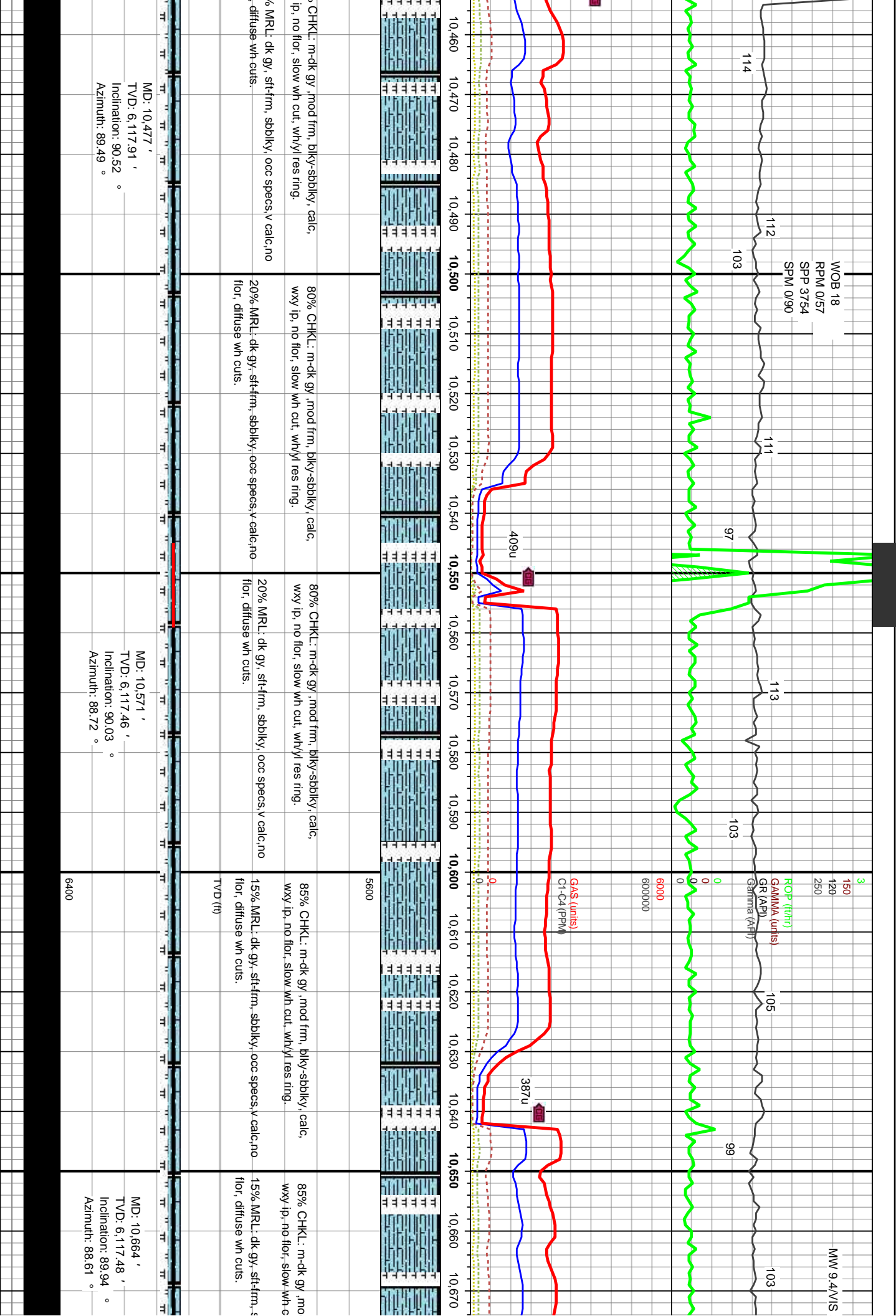






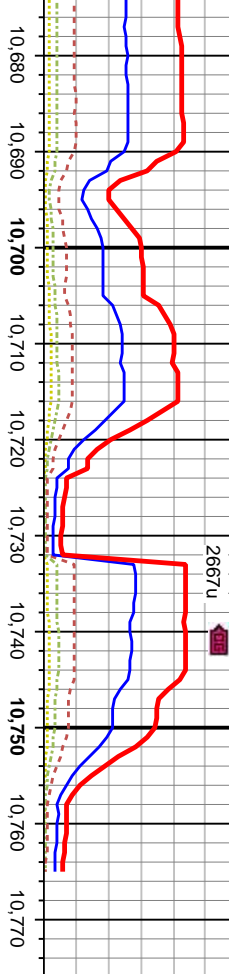






TD 10765' 01/30/2014
00:15 hr.

107
96

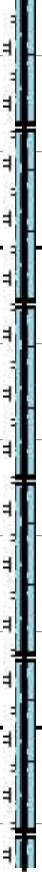


d frm, biky-sbbiky, calc,
ut, whyl res ring.

90% CHKL: m-dk gy, mod frm, biky-sbbiky, calc,
wxy ip, no flor, slow wh cut, whyl res ring.

bbiky, occ specs, v calc, no
flor, diffuse wh cuts.

10% MRL: dk gy, st-frm, sbbiky, occ specs, v calc, no
flor, diffuse wh cuts.



MD: 10,695 '
TVD: 6,117.42 '
Inclination: 90.25 °
Azimuth: 88.42 °

BIT PROJECTION
MD: 10,765 '
TVD: 6,117.11 '
Inclination: 90.25 °
Azimuth: 88.42 °

