



Scale: 5" / 100'
Measured Depth Log

Well Name North Platte 11-41-33HC

Location NWNW SECTION 33, T5N, R63W

State COLORADO

County WELD

Country USA

Rig Number CADE 25

API Number 05-123-39906

AFE # 14241

Region DJ BASIN

Field WATTENBERG

Spud Date 9/28/2014

Drilling Completed 10/5/2014

Surface Coordinates 382' FNL x 458' FWL (LAT: 40.362217, -104.448806)

Bottom Hole Coordinates 710' FNL x 470' FEL (LAT: 40.361282, -104.433081) PROJECTED

Ground Elevation 4569'

K.B. Elevation 4586'

Logged Interval 6000' To 11110'

Total Depth 11110'

Formation CODELL SANDSTONE

Type of Drilling Fluid FW LSND

Operator

Company Bonanza Creek Energy Inc.

Address 410 17th STREET, SUITE 1500
DENVER, CO 80202

Geologist

Name BRANT LOGAN

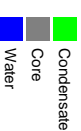
Company BONANZA CREEK ENERGY INC.

Address 410 17th STREET, SUITE 1500
DENVER, CO 80202



































Other

COLUMBINE LOGGING, INC. 2385 S. LIPAN
DENVER, CO
WELL SITE GEOLOGISTS MARK NORR
JEFF LACY

























































Zone Color Cod



Rock Types

 UNKNOWN	 COAL	 MARLSTONE	 SHALY SANDSTONE
 ANHYDRITE	 CONGLOMERATE	 METAMORPHIC	 SHALY SILTSTONE
 BENTONITE	 DOLOMITE	 NO SAMPLE	 SILTY SHALE
 BRECCIA	 DOLOMITIC LIMESTONE	 SALT	 SILTSTONE
 CHALK	 GRANITE	 SANDSTONE	 TILL
 CEMENT	 GYPSUM	 SALT-PEPPER SANC	 TUFF
 CHERT	 IGNEOUS	 SHALE	 WELDED TUFF
 CLAY CHOKE SANC	 SIDERITE or LIMONITE	 SHALE COLORED	
 CLAYSTONE	 LIMESTONE	 SHALE GRAY	

Accessories

 GASTROPOD	 ARGILLITE GRAN	 HEAVY MINERAL	 ANHYDRITE STRINGER
 INOCERAMUS	 B BENTONITE	 K KAOLIN	 BENTONITE STRINGER
 ALGAE	 BITUMENOUS SUBSTANCE	 M MARLSTONE	 COAL STRINGER
 AMPHIPORA	 BRECCIA FRAGMENTS	 M MICACEOUS	 DOLOMITE STRINGER
 BELEMNITE	 CALCAREOUS	 M MINERAL CRYSTALS	 GYPSUM STRINGER
 BIOCLASTIC	 CARBONACEOUS FLAKES	 N NODULES	 LIMESTONE STRINGER
 BRACHIOPOD	 P PISOLITE	 P PHOSPHATE PELLETS	 MARLSTONE (CALC) STRG
 BRYOZOA	 C CHERT	 P PYRITE	 MARLSTONE (DOL) STRG
 CEPHALOPOD	 COAL - THIN BEDS	 S SALT CAST	 SANDSTONE STRINGER
 CORAL	 DOLOMITIC	 S SANDY	 SHALE STRINGER
 CRINOID	 F FELDSPAR	 S SILTACEOUS	 SILTSTONE STRINGER
 ECHINOID	 F FERRUGINOUS PELLET	 S SILTY	
 FISH	 F FERRUGINOUS	 T TUFFACEOUS	
 FORAMINIFERA	 A ANHYDRITIC	 G GLAUCONITIC	
 F FOSSIL	 A ARGILLACEOUS	 G GYPSIFEROUS	

Stringer

Oil Show

P PIN
VU VU

D DEAD

E EVEN

Q QUESTIONABLE

B BL

S SPOTTED STAINING

CO CO

Porosity

CO CO

CC CC

E EARTHY

CC CC

F FENESTRAL

TR TR

F FRACTURE

1 1

X INTERCRYSTALLINE

DO DO

I INTEROOLITIC

CO CO

M MOLDIC

CO CO

O ORGANIC

CO CO






Other Symbols








POINT		DST INTERVAL		WIRELINE TESTED - LEFT		E EARTHY
GGY		FAULT		WIRELINE TESTED - RT		FX FINELYXLN

Engineering

		FORMATION TOP		DRILL STEM TEST		GS GRAINSTONE
		GAS SHOW		MINDEPTH MN DEPTH		L LITHOGRAPHIC
T		OIL SHOW				MX MICROXLN

Rounding








CONNECTION (UP)		MIN DEPTH UP				MS MUDSTONE
CONNECTION (DOWN)		MIN DEPTH (DOWN)		ANGULAR		PS PACKSTONE

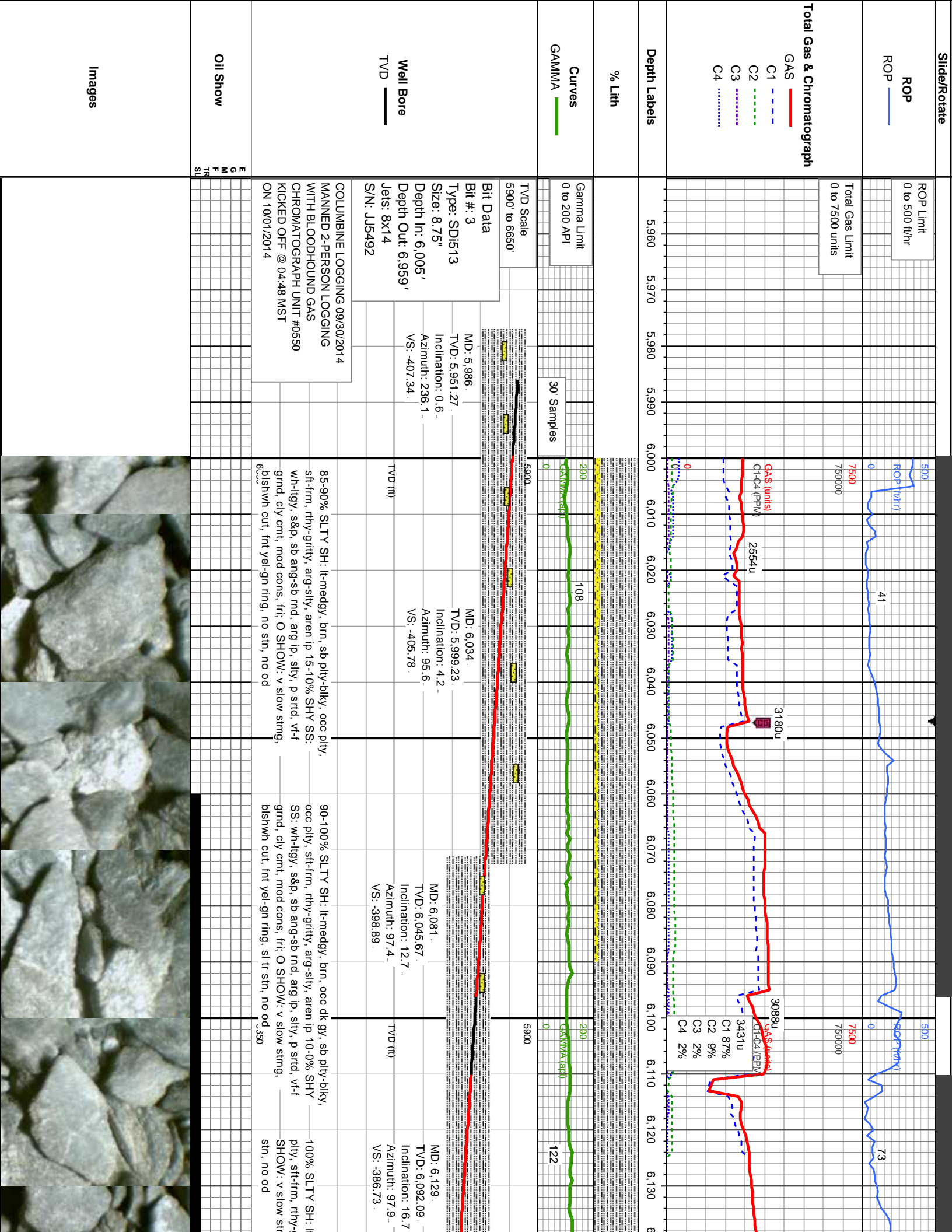
CONNECTION GAS		NORMAL FAULT		ROUNDED		WS WACKESTONE
CONNECTION GAS (LEFT)		OVERTURNED STRATA		SUBANG		
IP GAS		REVERSE FAULT		SUBRND		

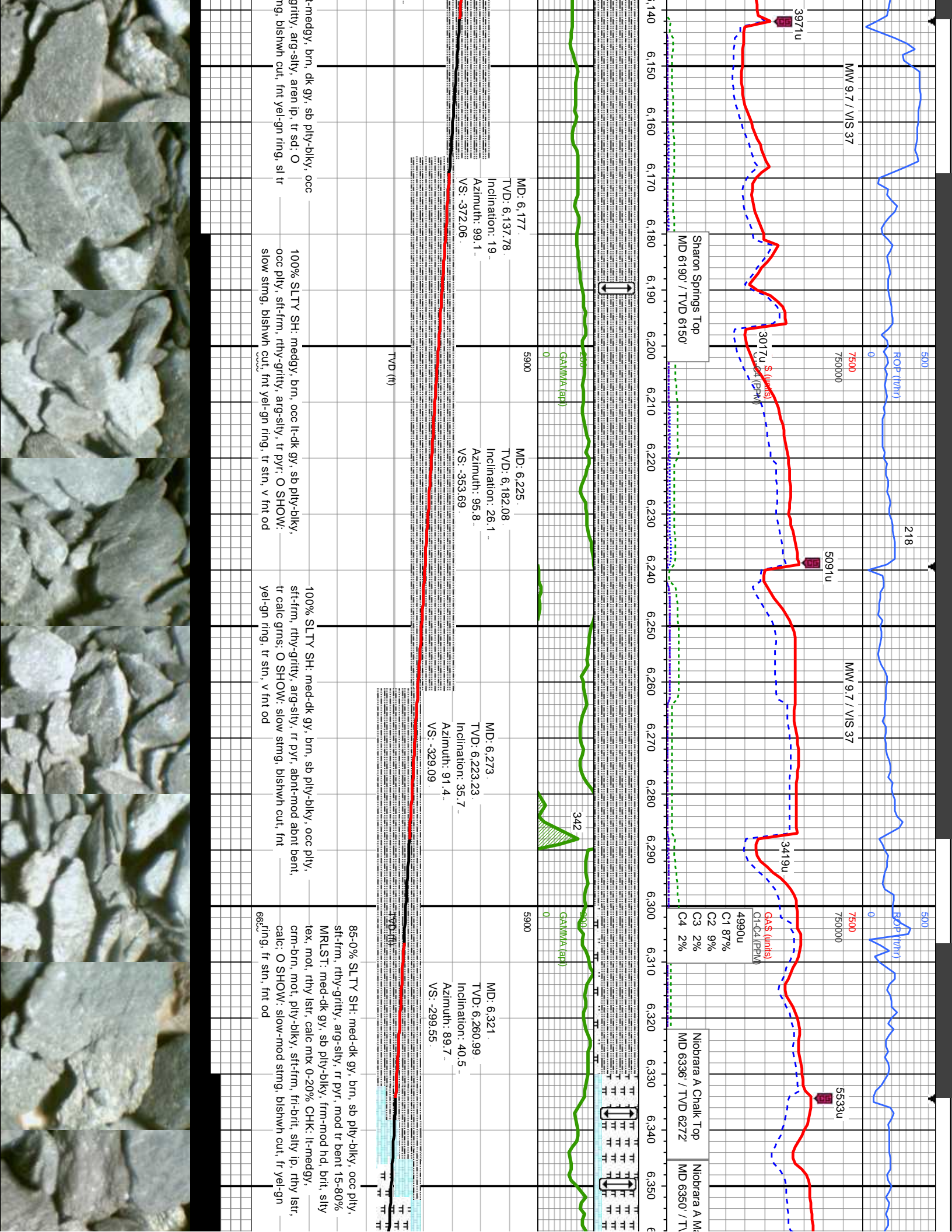
Sorting

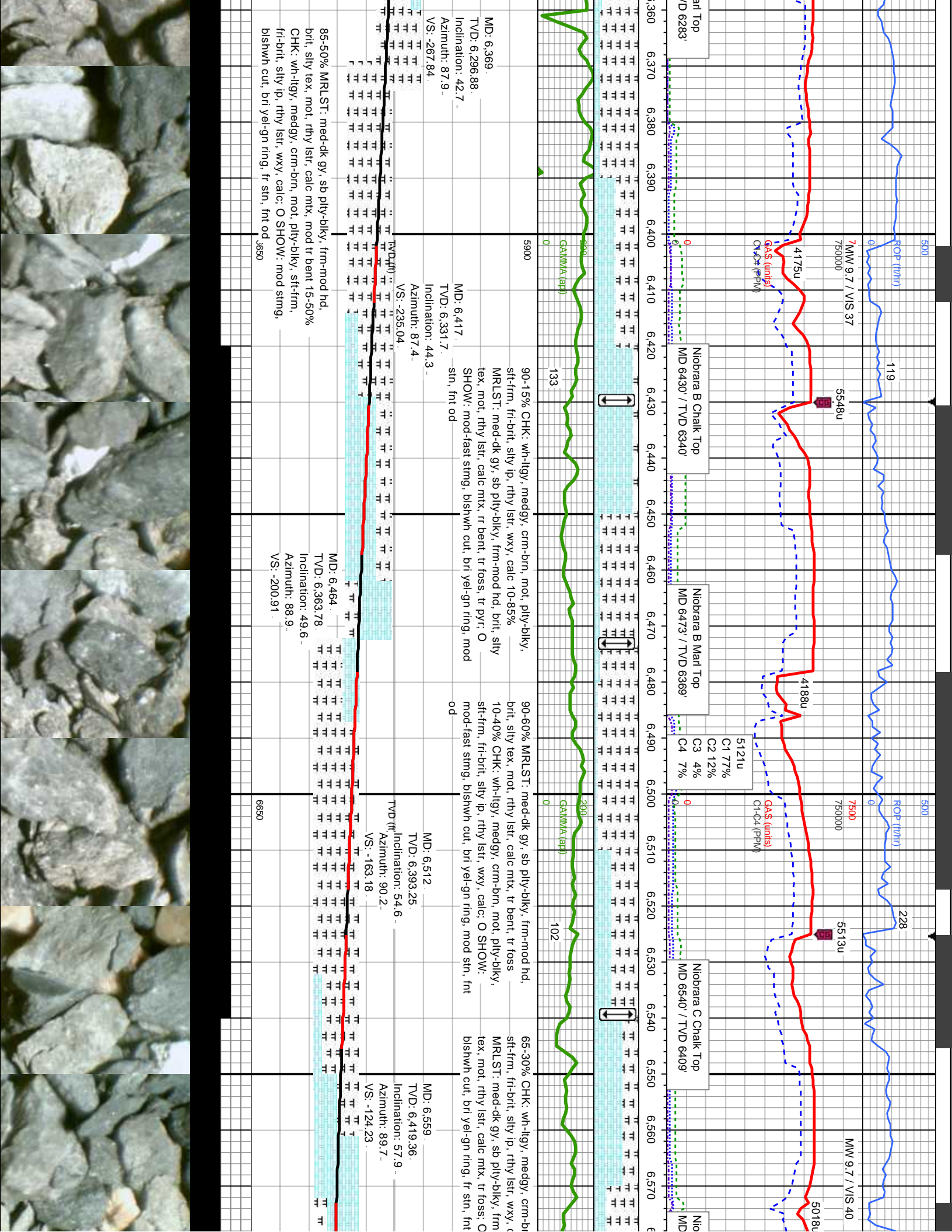
TRIP GAS (LEFT)		CASING				M MODERATE
OWN TIME GAS		SIDEWALL CORE (LEFT)				P POOR

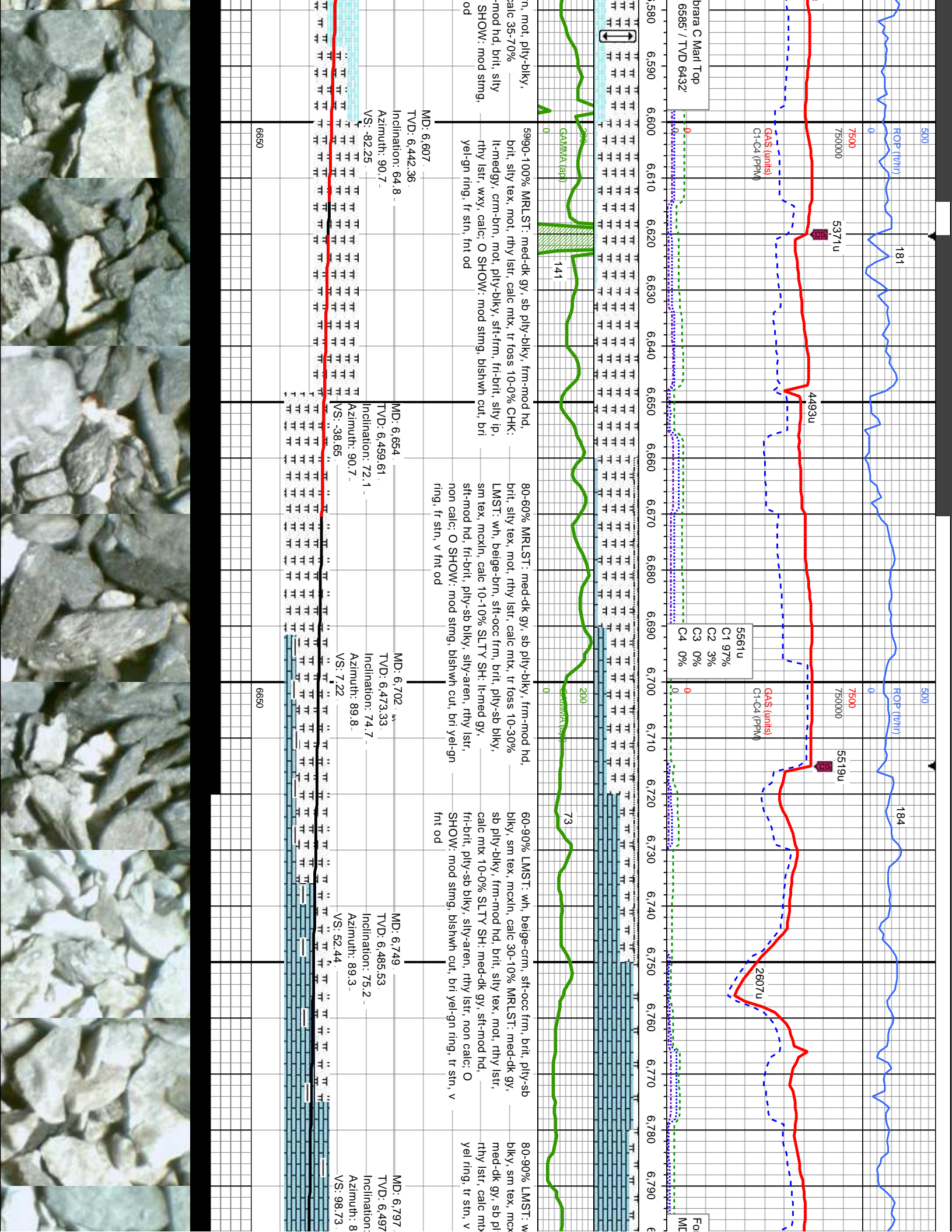
Textures

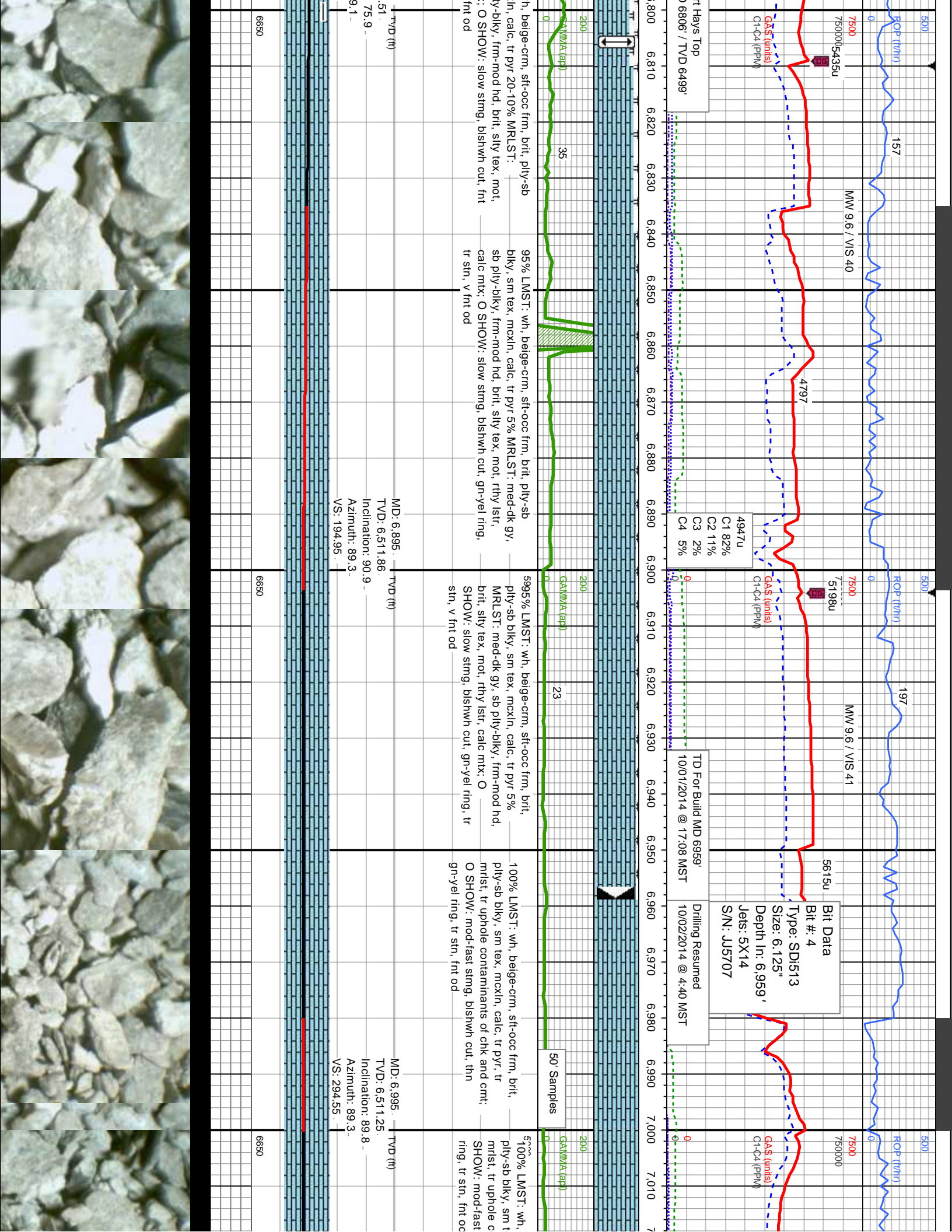
DOWN TIME GAS (LEFT)		SIDEWALL CORE (RIGHT)		BOUNDSTONE		W WELL
RE - LOST		SLIDE		CHALKY		
RE - RECOVERED		SURVEY		CRYPTOXLN		

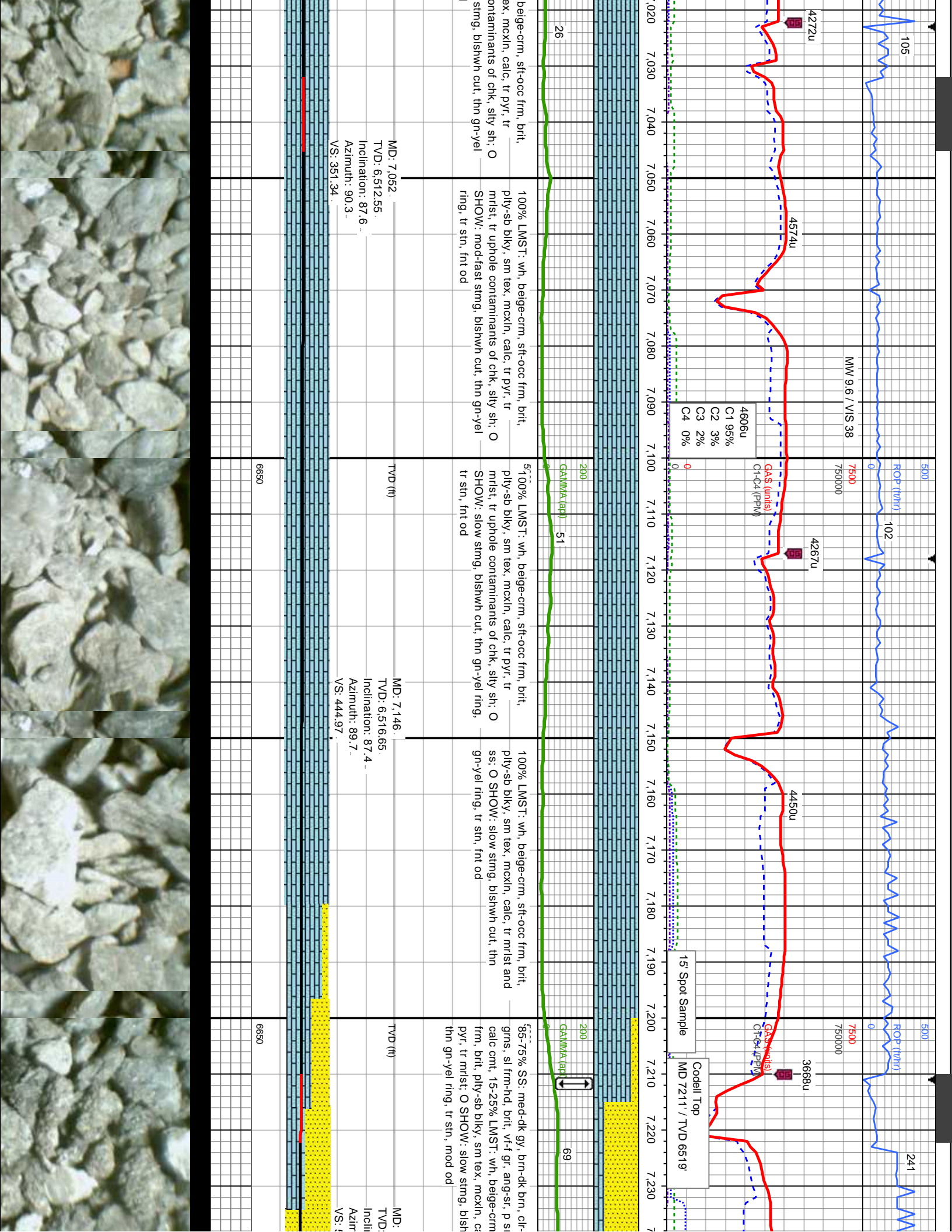


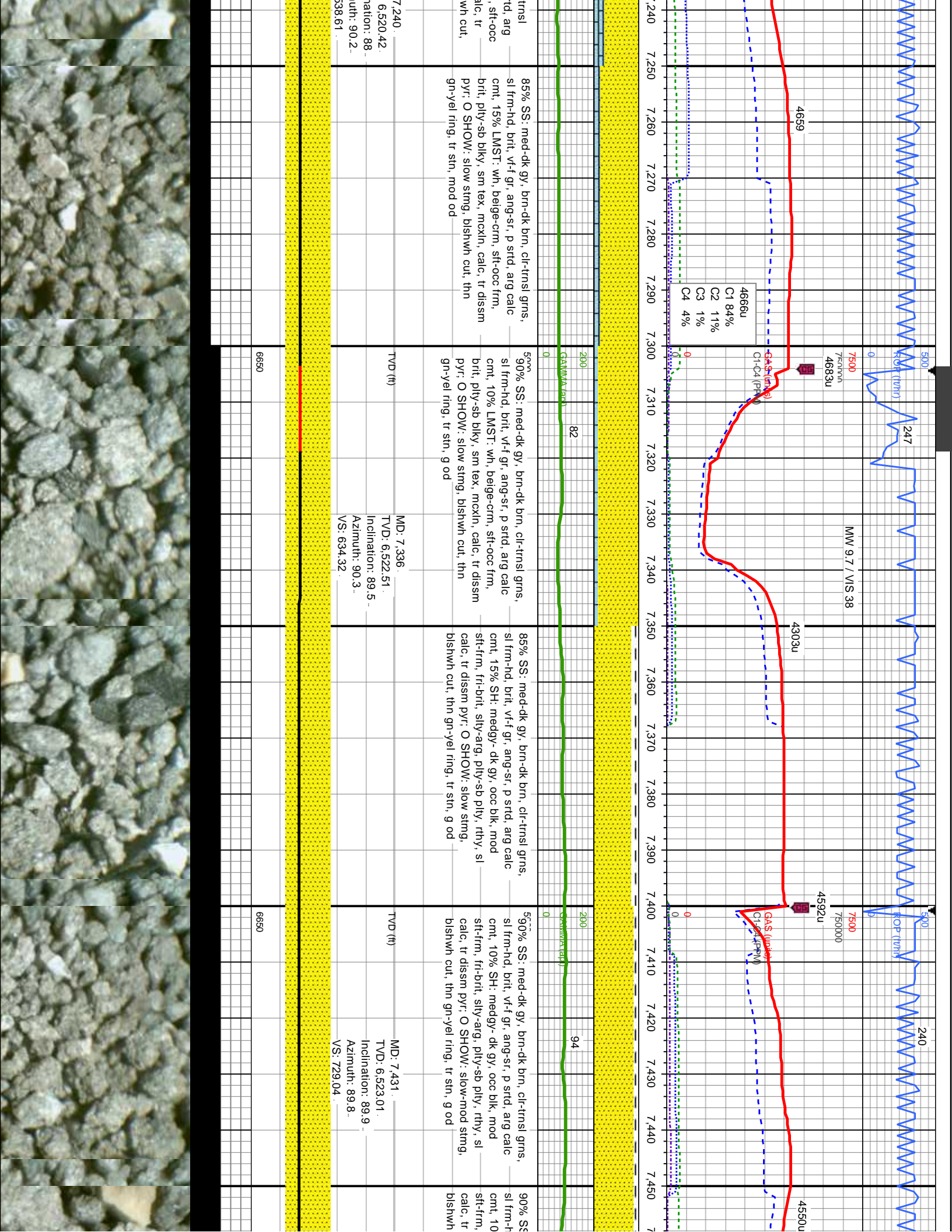


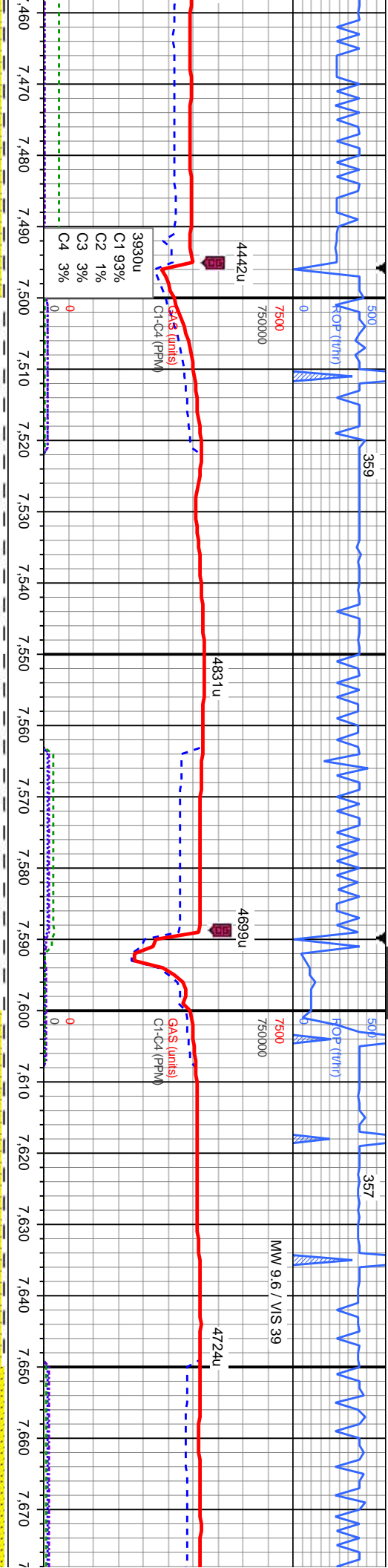












5900 SS: med-dk gy, brn-dk brn, clr-trnsl gms, sl frm-hd, brit, vt-f gr, ang-sr, p strd, arg calc cnt, 15% SH: medgy, occ dk gy, mod sft-frm, fri-brt, silty-arg, pily-sb pily, rthy, sl calc, tr dissn pyr, O SHOW: mod stmg, blshwh cut, mod thk gn-yel ring, tr stn, g od

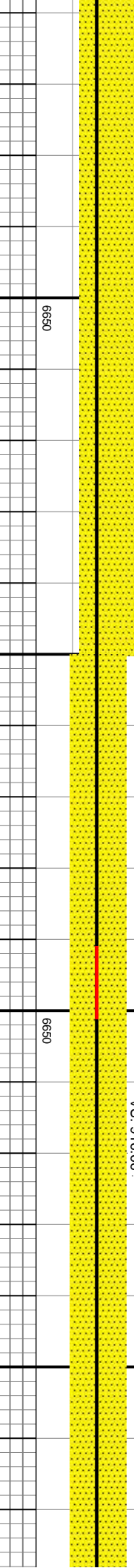
5900 SS: med-dk gy, brn-dk brn, clr-trnsl gms, sl frm-hd, brit, vt-f gr, ang-sr, p strd, arg calc cnt, 15% SH: medgy, occ dk gy, mod sft-frm, fri-brt, silty-arg, pily-sb pily, rthy, sl calc, tr dissn pyr, O SHOW: mod stmg, blshwh cut, mod thk gn-yel ring, tr stn, g od

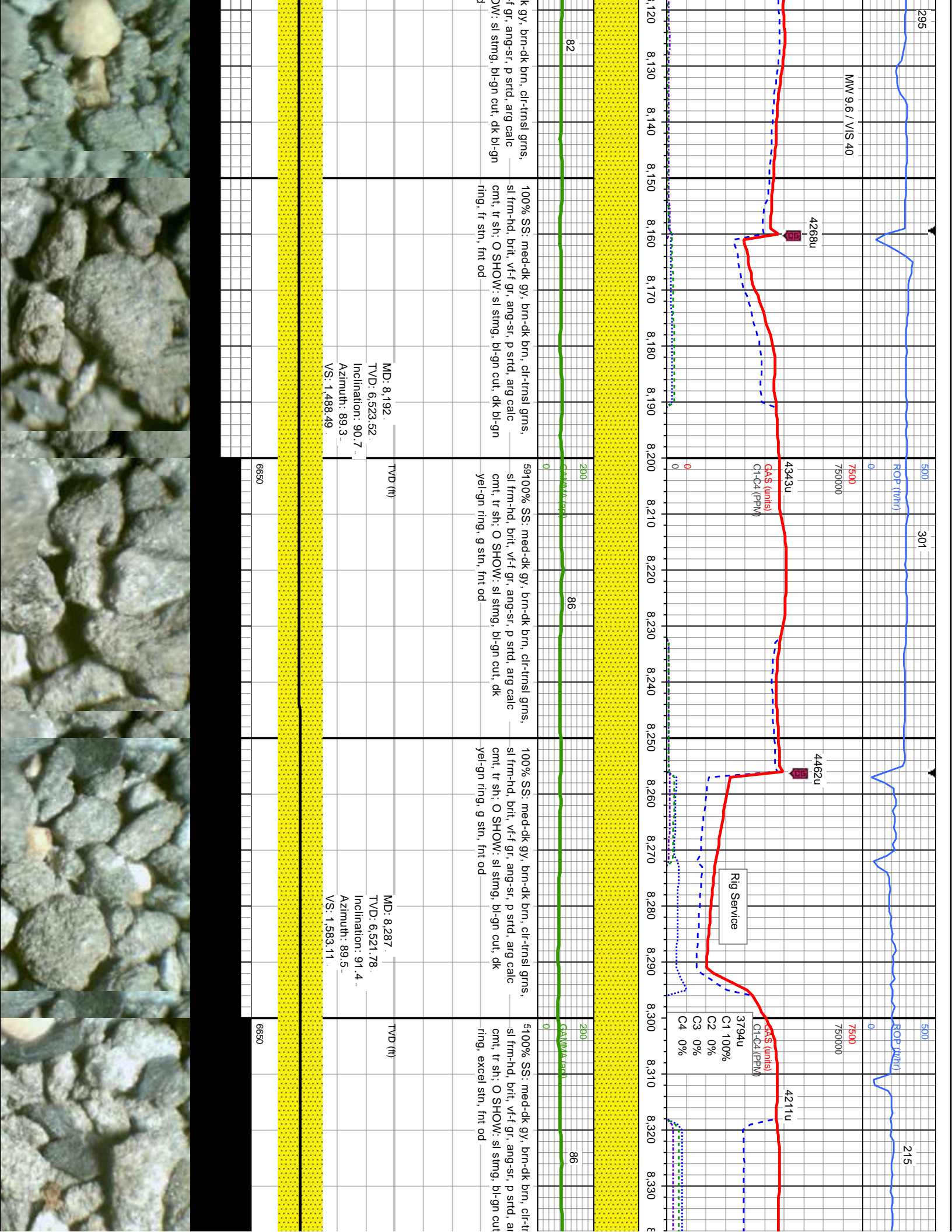
590% SS: med-dk gy, brn-dk brn, clr-trnsl gms, sl frm-hd, brit, vt-f gr, ang-sr, p strd, arg calc cnt, 10% SH: medgy, occ dk gy, mod sft-frm, fri-brt, silty-arg, pily-sb pily, rthy, sl calc, O SHOW: mod stmg, blshwh cut, mod thk gn-yel ring, thn stn, g od

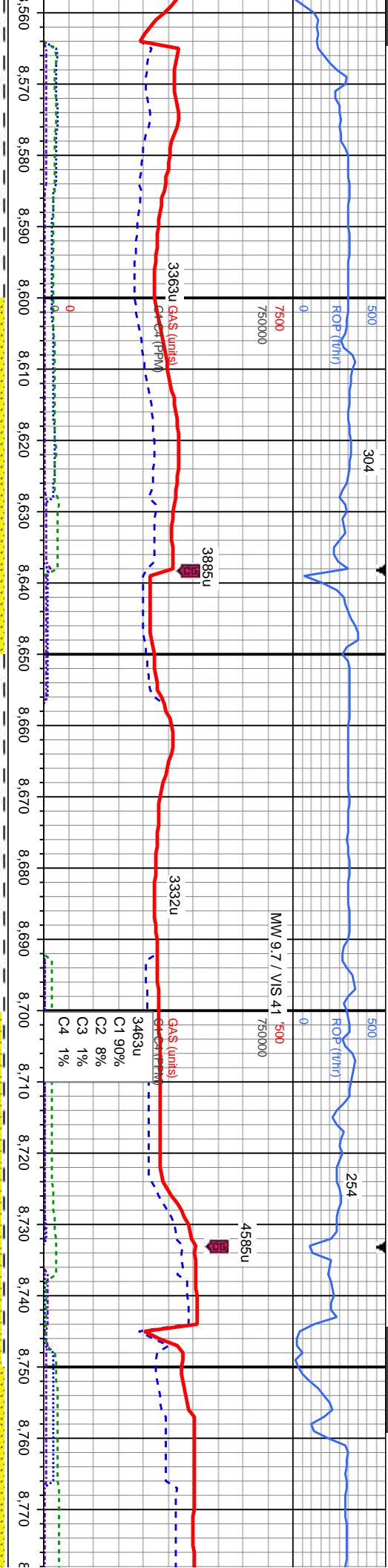
95% SS: med-dk gy, brn-dk brn, clr-trnsl gms, sl frm-hd, brit, vt-f gr, ang-sr, p strd, arg calc cnt, 5% SH: medgy, occ dk gy, mod sft-frm, fri-brt, silty-arg, pily-sb pily, rthy, sl calc, O SHOW: mod stmg, blshwh cut, mod thk gn-yel ring, thn stn, g od

TVD (ft) MD: 7,525. TVD: 6,522.68 Inclination: 90.5 Azimuth: 90.9 VS: 822.8

TVD (ft) MD: 7,619. TVD: 6,522.85 Inclination: 89.3 Azimuth: 91.8 VS: 916.66

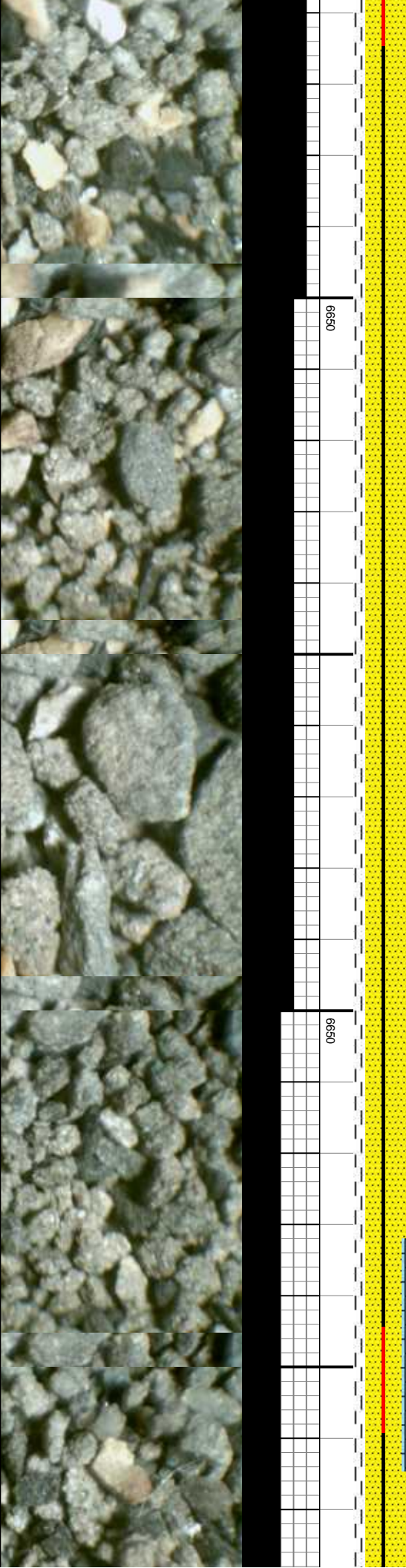


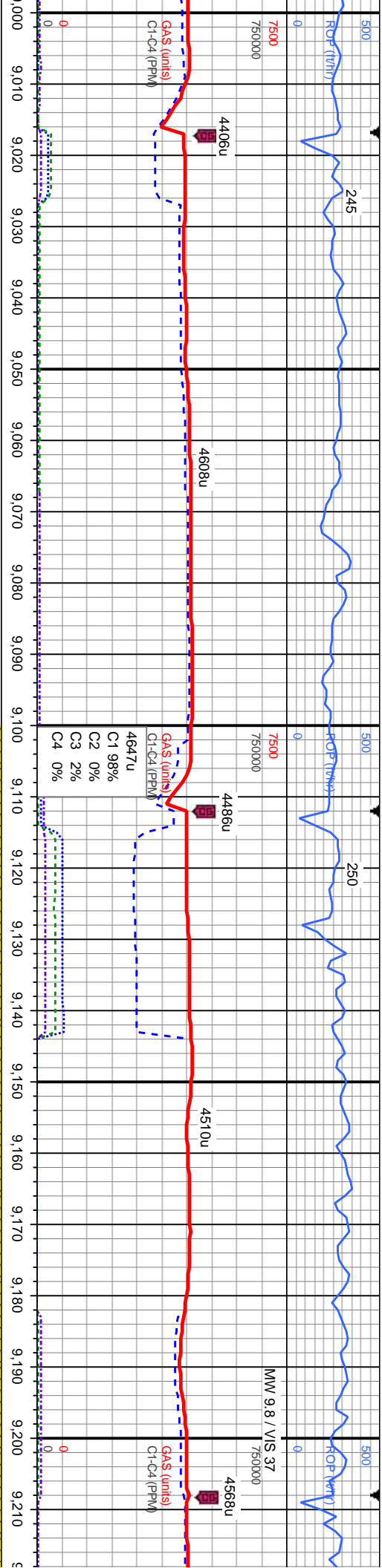




frn-hd, brlt, vl-f gr, ang-sr, p srt, arg	95% SS: med-dk gy, brn-dk brn, ooc lly, clr-trnsl grns, sl frm-hd, brlt, vl-f gr, ang-sr, p srt, arg calc cmt, 5% SH: lt-medgy, ooc dk gy, mod sft-frm, frt-brlt, slty-arg, pily-sb pily, rthy, sl calc; O SHOW: sl stmg, bishwh cut, dk gn-wh ring, g mod stn, frt od	95% SS: med-dk gy, brn-dk brn, ooc lly, clr-trnsl grns, sl frm-hd, brlt, vl-f gr, ang-sr, p srt, arg calc cmt, 5% SH: lt-medgy, ooc dk gy, mod sft-frm, frt-brlt, slty-arg, pily-sb pily, rthy, sl calc; O SHOW: sl stmg, bishwh cut, dk gn-wh ring, g mod stn, frt od	85% SS: med-dk gy, brn-dk brn, ooc lly, clr-trnsl grns, sl frm-hd, brlt, vl-f gr, ang-sr, p srt, arg calc cmt, 15% SH: lt-medgy, ooc dk gy, mod sft-frm, frt-brlt, slty-arg, pily-sb pily, rthy, sl calc; O SHOW: sl stmg, bishwh cut, dk gn-wh ring, g mod stn, frt od	85% SS: med-dk gy, brn-dk brn, ooc lly, clr-trnsl grns, sl frm-hd, brlt, vl-f gr, s&p, ang-sr, p srt, arg calc cmt 10% SH: lt-medgy, mod sft-frm, frt-brlt, slty-arg, pily-sb pily, rthy, sl calc, 5% LMST: wh, crn-beige, sft-frm, brlt, pily-sb blkly, sm tex, mclin, calc; O SHOW: sl stmg, bishwh cut, gn-wh ring, fr stn, frt od	95% SS: med-dk gy, brn-dk k frn-hd, brlt, vl-f gr, s&p, ang cmt 5% SH: lt-medgy, mod s slty-arg, pily-sb pily, rthy, sl stmg, bishwh cut, gn-wh ring
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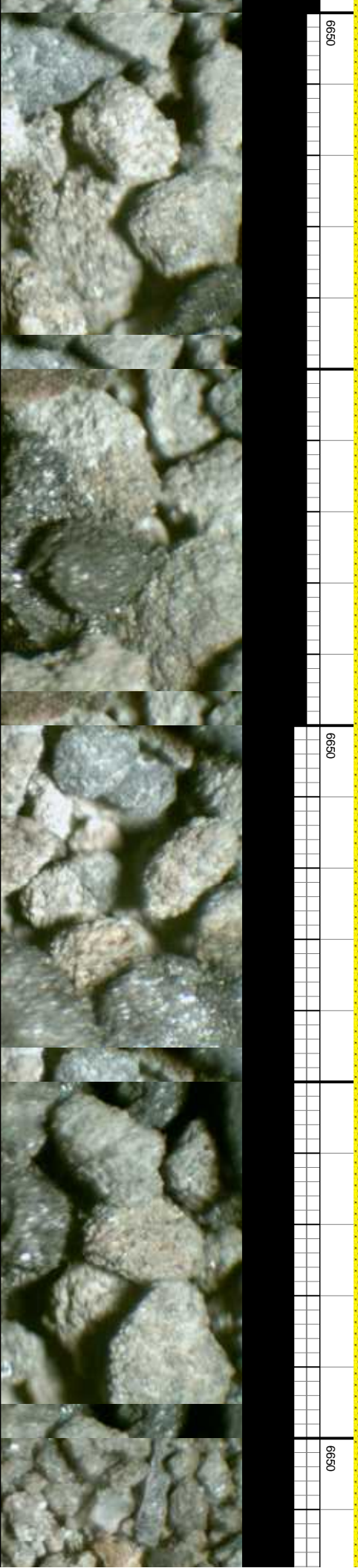
MD: 8,572. TVD: 6,518.88. Inclination: 89.5. Azimuth: 90.3. VS: 1,867.46.	TVD (ft)	MD: 8,668. TVD: 6,519.13. Inclination: 90.2. Azimuth: 90.9. VS: 1,963.24.	TVD (ft)	MD: 8,763. TVD: 6,518.22. Inclination: 90.9. Azimuth: 89.7. VS: 2,057.99.
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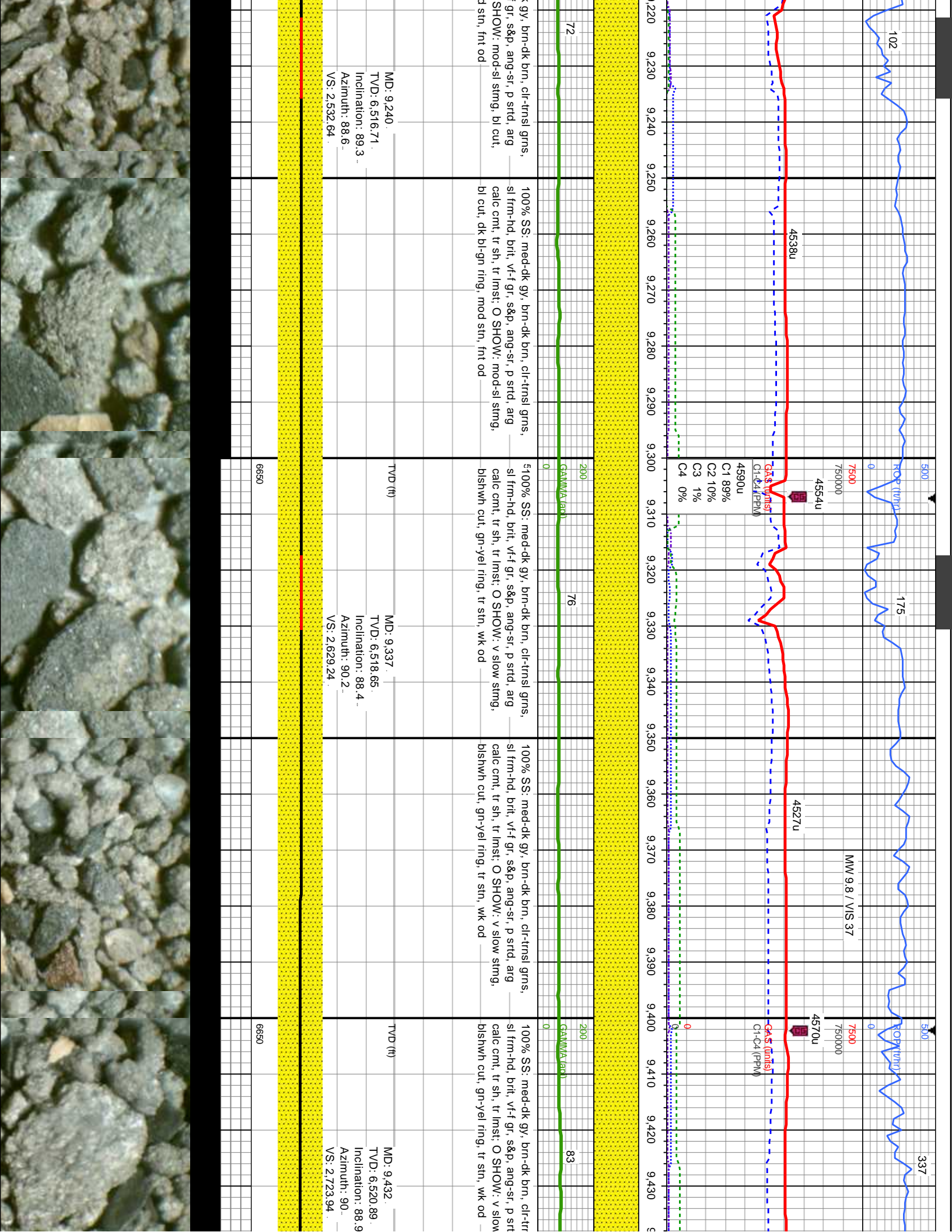


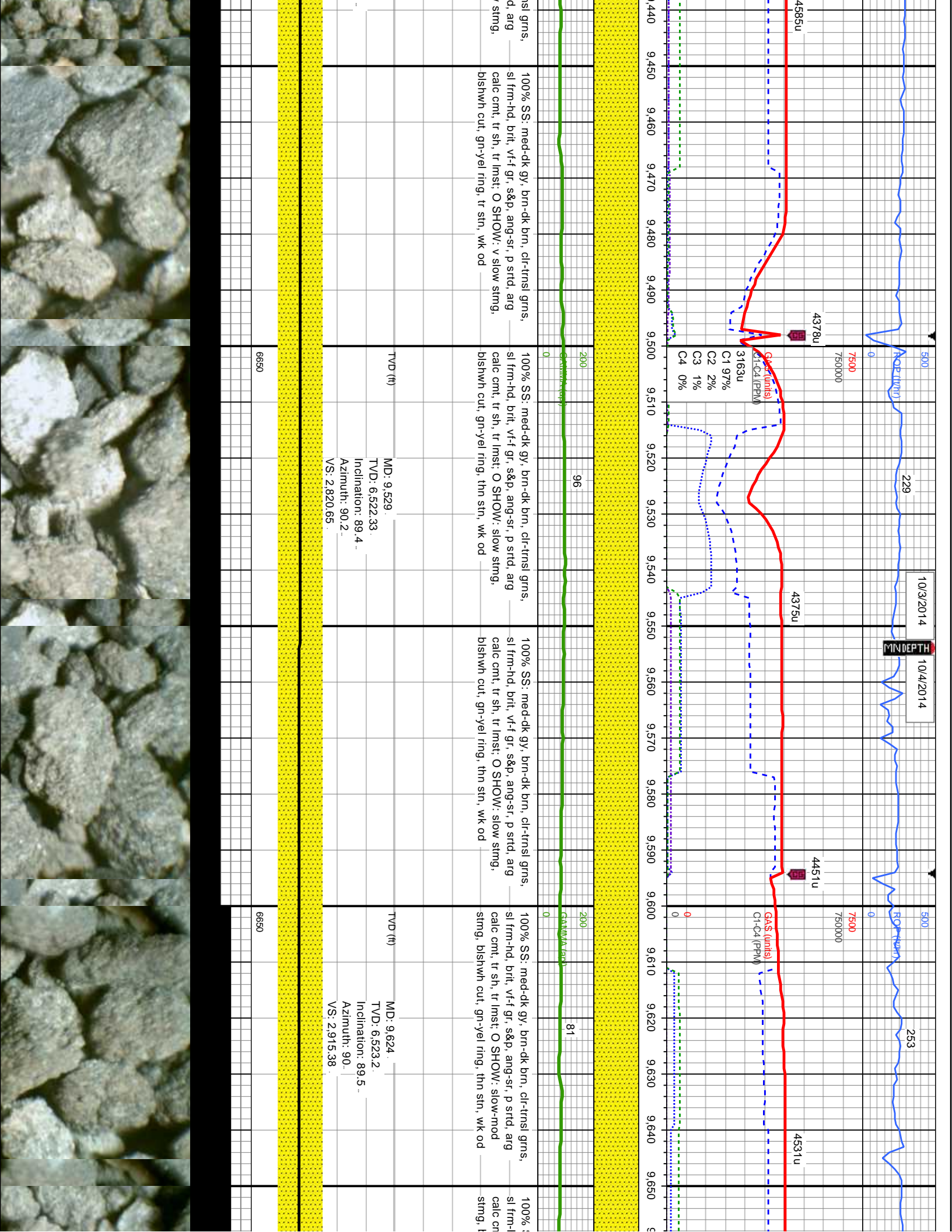


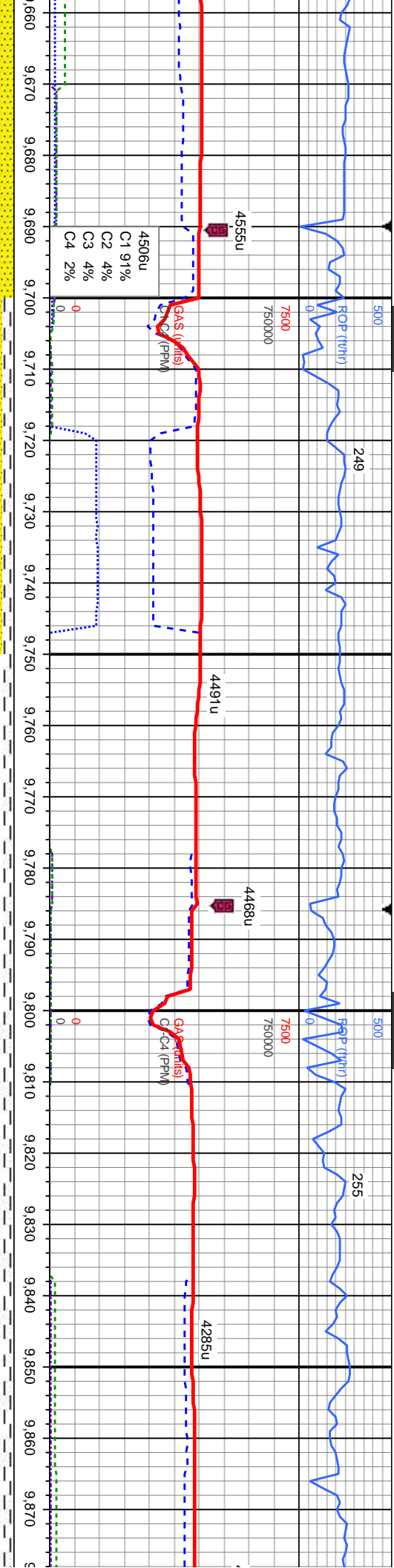
595% SS, med-dk gy, brn-dk brn, clt-trnsl grns, sl frm-hd, brlt, v-l gr, s&p, ang-sr, p strd, arg calc cnt 5% SH; lt-medgy, mod sft-frm, fr-brit, slty-arg, pily-sb pily, rthy, sl calc; O SHOW: mod-si string, bishwh cut, dk gn ring, g str, fnt od	95% SS: med-dk gy, brn-dk brn, clt-trnsl grns, sl frm-hd, brlt, v-l gr, s&p, ang-sr, p strd, arg calc cnt 5% SH; lt-medgy, mod sft-frm, fr-brit, slty-arg, pily-sb pily, rthy, sl calc; O SHOW: mod-si string, bishwh cut, dk gn ring, g str, fnt od	5100% SS: med-dk gy, brn-dk brn, clt-trnsl grns, sl frm-hd, brlt, v-l gr, s&p, ang-sr, p strd, arg calc cnt, tr sh; O SHOW: mod-si string, bishwh cut, dk gn ring, mod str, fnt od	100% SS: med-dk gy, brn-dk brn, clt-trnsl grns, sl frm-hd, brlt, v-l gr, s&p, ang-sr, p strd, arg calc cnt, tr sh; O SHOW: mod-si string, bishwh cut, dk gn ring, mod str, fnt od	1000% SS: med-dk gy, brn-dk brn, clt-trnsl grns, sl frm-hd, brlt, v-l gr, s&p, ang-sr, p strd, arg calc cnt, tr sh; O SHOW: mod-si string, bishwh cut, dk gn ring, mod str, fnt od
200	200	200	200	200
GAMMA (api)	GAMMA (api)	GAMMA (api)	GAMMA (api)	GAMMA (api)
79	70			
0	0	0	0	0

TVD (ft)	MD: 9.048. TVD: 6,518.47. Inclination: 90.4. Azimuth: 88.6. VS: 2,341.69.	TVD (ft)	MD: 9.144. TVD: 6,517.13. Inclination: 91.2. Azimuth: 88.4. VS: 2,437.16.	TVD (ft)
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SS: med-dk gy, brn-dk brn, clr-trnsl grns, nd, brit, v-f gr, s&p, ang-sr, p srd, arg tr sh, tr inst; O SHOW: slow-mod bishwh cut, gn-yel ring, thin str, wk od

80% SS: med-dk gy, brn-dk brn, occ lly, clr-trnsl grns, sl frm-hd, brit, v-f gr, ang-sr, p srd, arg calc cnt, 20% SH: medgy-dk gy, occ blk, mod sft-frm, fri-brit, silty-arg, pily-sb pily, rthy, sl calc; O SHOW: slow strng, bishwh cut, gn-yel ring, thin str, wk od

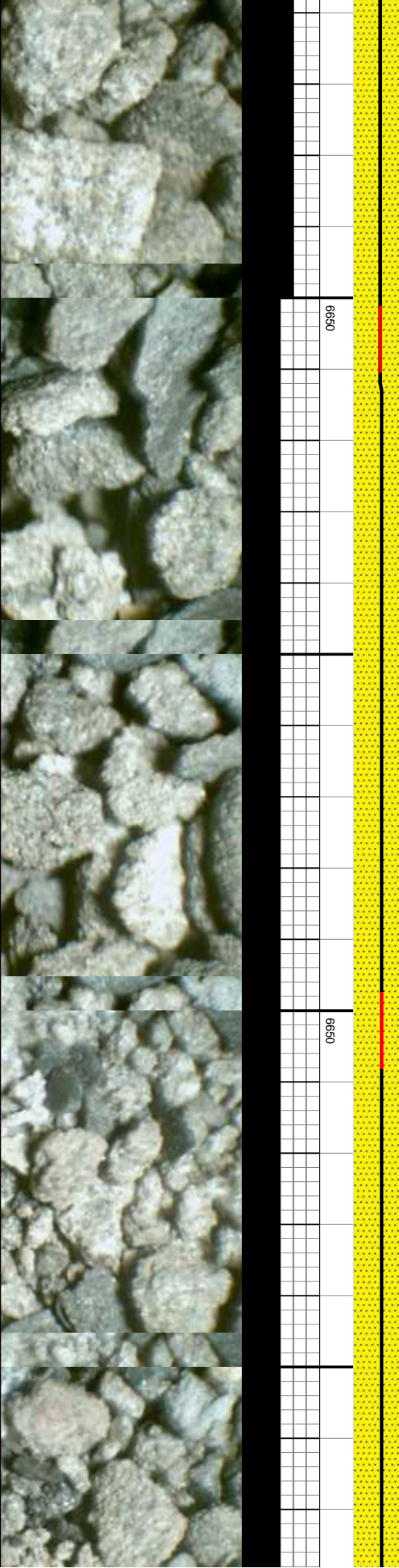
75% SS: med-dk gy, brn-dk brn, occ lly, clr-trnsl grns, sl frm-hd, brit, v-f gr, ang-sr, p srd, arg calc cnt, 25% SH: medgy-dk gy, occ blk, mod sft-frm, fri-brit, silty-arg, pily-sb pily, rthy, sl calc; O SHOW: slow strng, bishwh cut, gn-yel ring, thin str, wk od

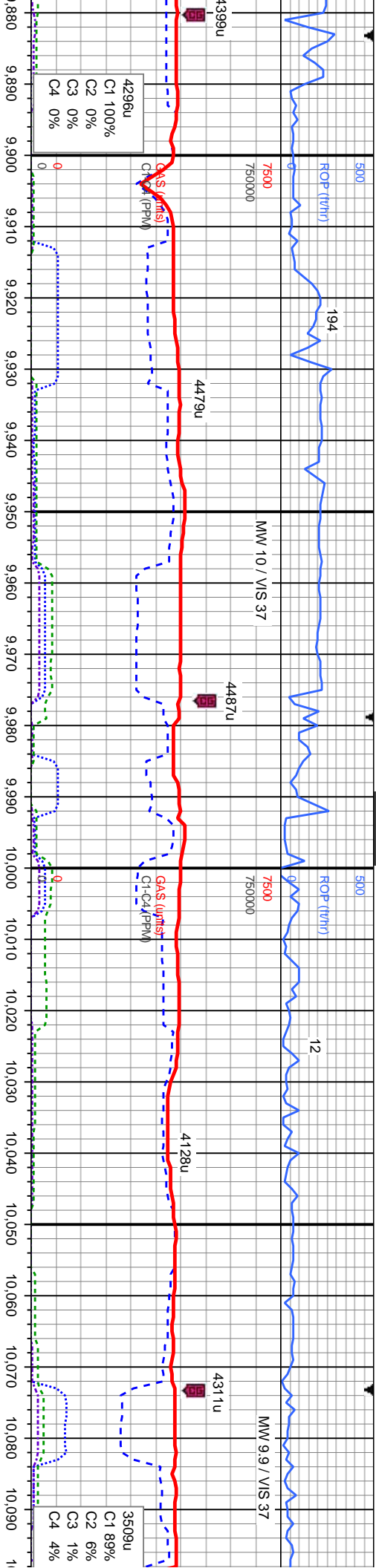
70% SS: med-dk gy, brn-dk brn, occ lly, clr-trnsl grns, sl frm-hd, brit, v-f gr, ang-sr, p srd, arg calc cnt, 30% SH: medgy-dk gy, occ blk, mod sft-frm, fri-brit, silty-arg, pily-sb pily, rthy, sl calc, tr pyr; O SHOW: slow strng, bishwh cut, gn-yel ring, thin str, wk od

70% SS: med-dk gy, brn-dk brn, occ lly, clr-trnsl grns, sl frm-hd, brit, v-f gr, ang-sr, p srd, arg calc cnt, 30% SH: medgy-dk gy, occ blk, mod sft-frm, fri-brit, silty-arg, pily-sb pily, rthy, tr pyr; O SHOW: slow strng, bishwh cut, gn-yel ring, thin str, wk od

TVD (ft) MD: 9.721
TVD: 6.522.5
Inclination: 91.4
Azimuth: 90
VS: 3.012.08

TVD (ft) MD: 9.817
TVD: 6.520.97
Inclination: 90.4
Azimuth: 89.3
VS: 3.107.73





80% SS: med-dk gy, brn-dk brn, occ lly, clr-trnsi grns, sl frm-hd, brit, vt-f gr, ang-sr, p srd, arg calc cmt, 20% SH: medgy-dk gy, occ blk, mod sft-frm, frt-brit, silty-arg, pily-sb pily, rthy, sl calc, tr pyr; O SHOW: slow stmg, blshwh cut, gn-yel ring, thn stn, wk od	80% SS: med-dk gy, brn-dk brn, occ lly, clr-trnsi grns, sl frm-hd, brit, vt-f gr, ang-sr, p srd, arg calc cmt, 20% SH: medgy-dk gy, occ blk, mod sft-frm, frt-brit, silty-arg, pily-sb pily, rthy, sl calc, tr pyr; O SHOW: slow stmg, blshwh cut, gn-yel ring, thn stn, wk od	57% LMST: wh, beige-crm, sft-occ frm, brit, pily-sb blk, sm tex, mxln, calc, tr pyr, 20% SS: med-dk gy, brn-dk brn, clr-trnsi grns, sl frm-hd, brit, vt-f gr, ang-sr, p srd, arg calc cmt, 10% SH: medgy-dk gy, occ blk, mod sft-frm, frt-brit, silty-arg, pily-sb pily, rthy, sl calc; O SHOW: slow stmg, blshwh cut, gn-yel ring, sl tr stn, fnt od	60% LMST: wh, beige-crm, sft-occ frm, brit, pily-sb blk, sm tex, mxln, calc, 20% SS: med-dk gy, brn-dk brn, clr-trnsi grns, sl frm-hd, brit, vt-f gr, ang-sr, p srd, arg calc cmt, 20% SH: medgy-dk gy, occ blk, mod sft-frm, frt-brit, silty-arg, pily-sb pily, rthy, sl calc; O SHOW: slow stmg, blshwh cut, gn-yel ring, sl tr stn, fnt od
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TVI MD: 9.912 TVD: 6,519.56 Inclination: 91.3 Azimuth: 89.7 VS: 3,202.36	MD: 10.007 TVD: 6,518.24 Inclination: 90.3 Azimuth: 89.5 VS: 3,297.01
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