

COLUMBINE LOGGING

Scale: 5" / 100'
Measured Depth Log

Well Name Sherley I-4-9HN

Location NWNW 4 5N 65W 6 PM

State COLORADO

County WELD

Country UNITED STATES

Rig Number Frontier 10

API Number 05-123-40932

Field GREELEY - #32760

Region DJ BASIN

Drilling Completed 6/6/2015

Spud Date 3/20/2015

Surface Coordinates NWNW 4 5N 65W 6 PM

576 FNL 710 FWL

Lat/Long: 40.434203,-104.675178

Bottom Hole Coordinates Planned Location

Sec: 9 Twp: 5N 65W

Footages: 470 FSL 2300 FFWL

Ground Elevation 4641'

K.B. Elevation 4665'

Logged Interval 6000' To 16915'

Total Depth 16915'

Formation Niobrara: B Chalk/B Marl

Type of Drilling Fluid LSND, WATER BASED MUD

Operator

Company Bayswater Exploration and Production LLC.

Address 730 17th Street, Suite 610
Denver, CO 80202

Geologist

Name Brad Wilson, John Sabroske, Charles Trodick, Tracy Lav

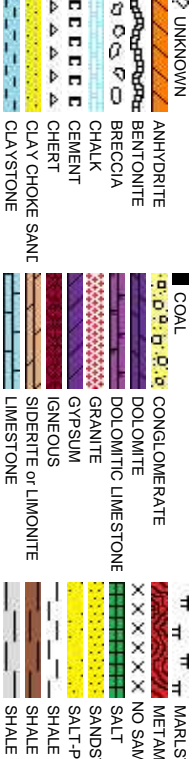
Company COLUMBINE LOGGING, INC.

Address 602 S. LIPAN ST.
DENVER, CO 80223

Zone Color Coding



Rock Types



Accessories

Fossils

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

Minerals

Stringer

Other Symbols

Oil Show

Engineering

	P PINPOINT		DST INTERVAL		WIRELINE TESTED - LEFT		E EARTHY
	V VUGGY		FAULT		WIRELINE TESTED - RT		FX FINELYXLN
	D DEAD		FORMATION TOP		DRILL STEM TEST		GS GRAINSTONE
	EVEN		GAS SHOW		MN DEPTH		L LITHOGRAPHIC
	QUESTIONABLE		OIL SHOW		MN DEPTH		MX MICROXLN
	BIT						
	SPOTTED STAINING		CONNECTION (UP)				MS MUDSTONE

Rounding

Porosity

	E EARTHY		CONNECTION GAS (LEFT)		OVERTURNED STRATA		SUBANG
	F FENESTRAL		TRIP GAS		REVERSE FAULT		SUBRAND

Sorting

Textures

	INTERCRYSTALLINE		DOWN TIME GAS		SIDEWALL CORE (LEFT)		M MODERATE
	INTERCOLITIC		DOWN TIME GAS (LEFT)		SIDEWALL CORE (RIGHT)		P POOR
	MOLDIC		CORE - LOST		SLIDE		W WELL
	ORGANIC		CORE - RECOVERED		SURVEY		CX CRYPTOXLN

	SHALY SANDSTONE
	SHALY SILTSTONE
	SILTY SHALE
	SILTSTONE
	TILL
	TUFF
	WELDED TUFF

	STONE
	ORPHIC
	PLE
	PPER SAN
	COLOR
	GRAY

	Gas
	Pressure
	Seal

VISION

Slide/Rotate

ROP

ROP

Total Gas & Chromatograph

GAS

C1

C2

C3

C4

COLUMBINE LOGGING RIGGED UP
ON 3/21/2015 MANNED 2-PERSON
LOGGING WITH BLOODHOUND
GAS CHROMATOGRAPH #0315

Depth Labels

Curves

GAMMA

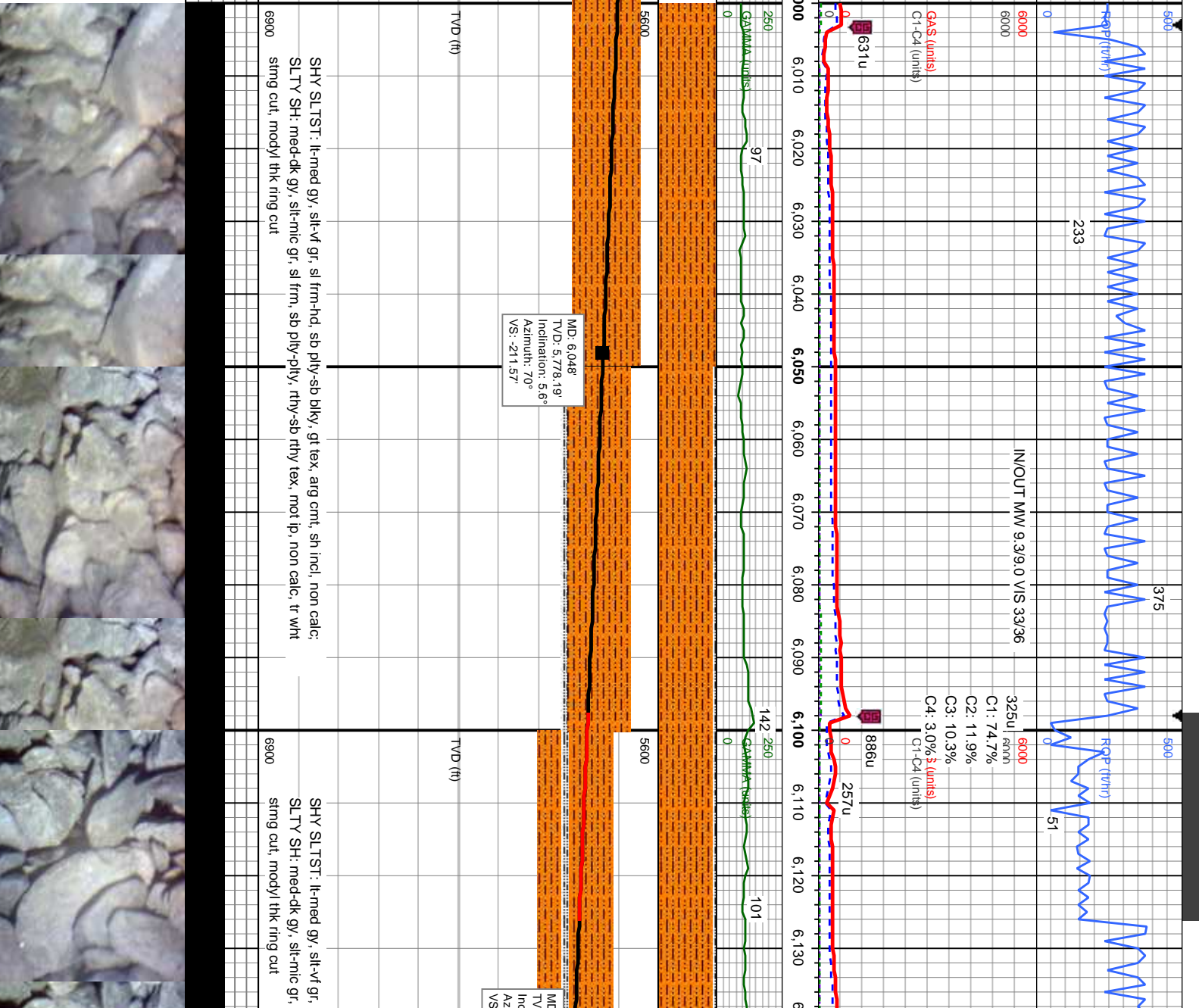
% Lith

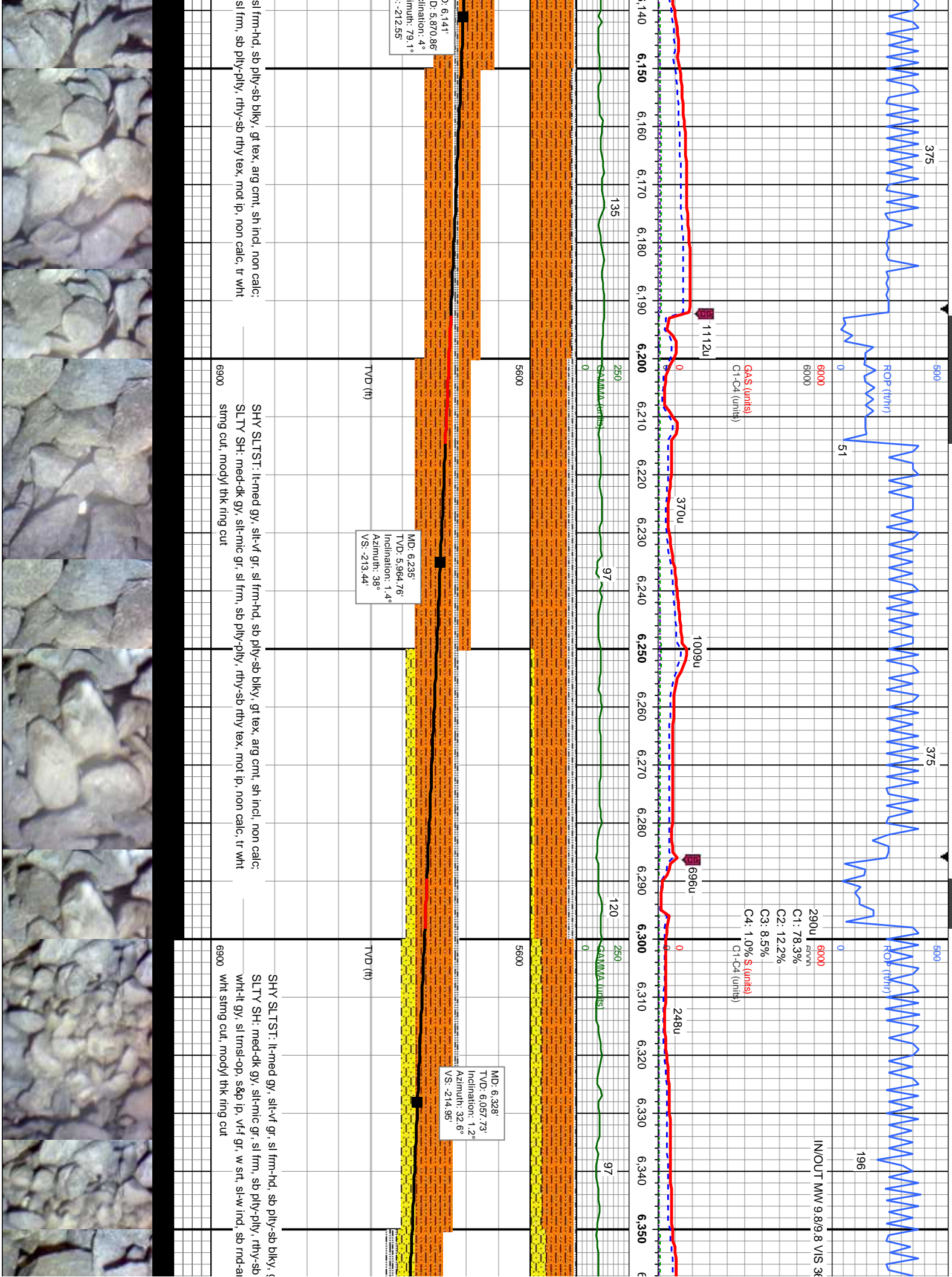
Well Bore
TVD

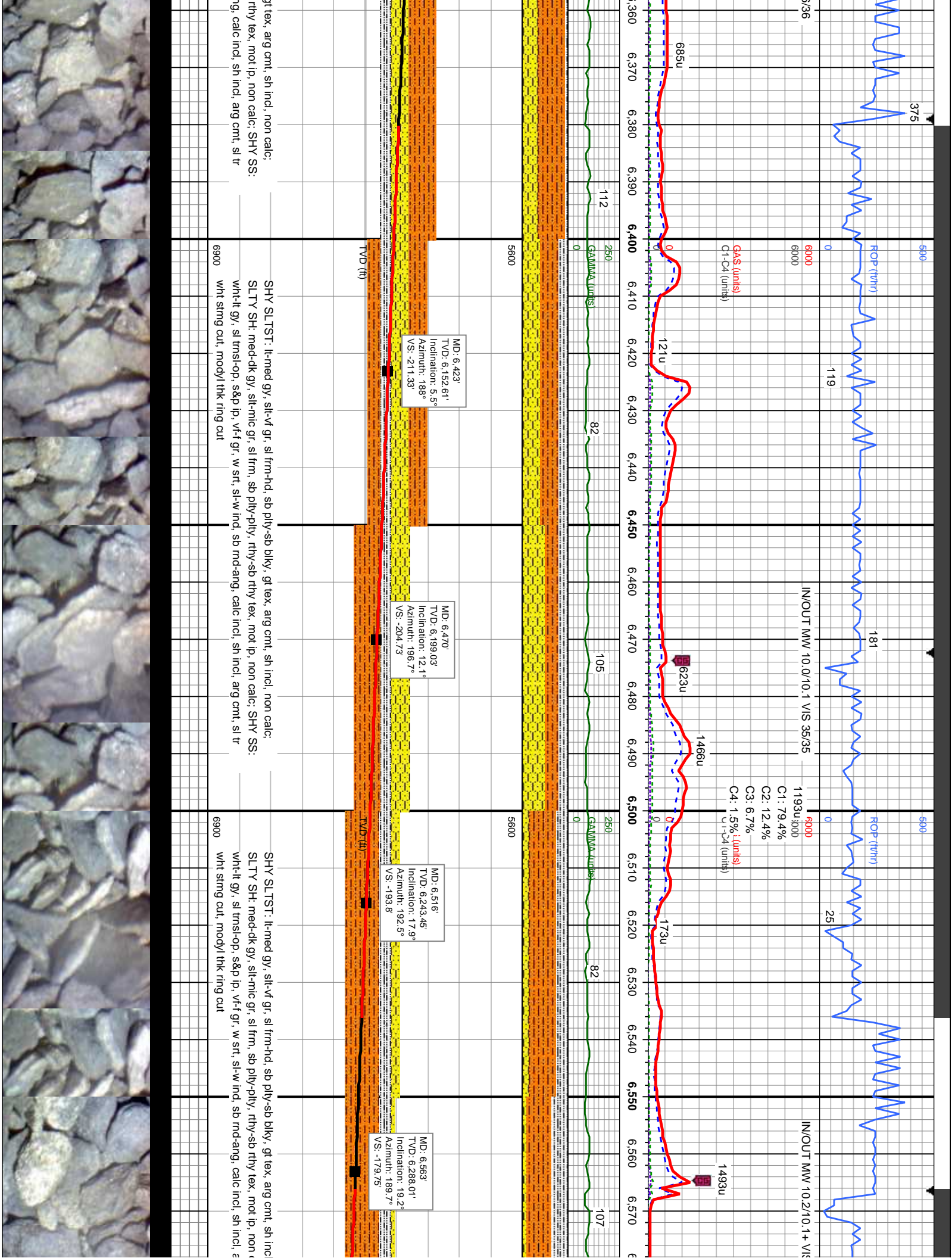
Oil Show

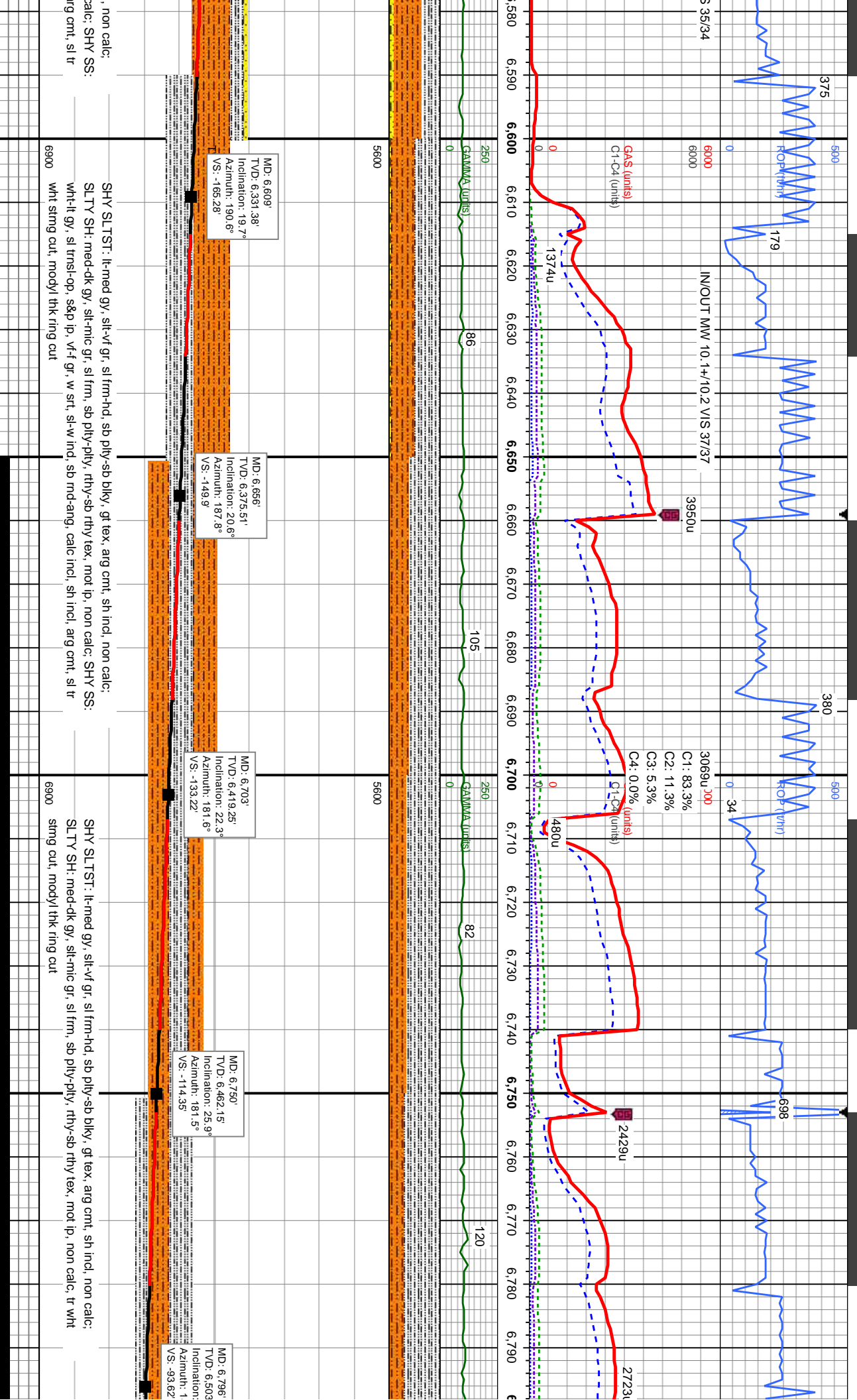
Images

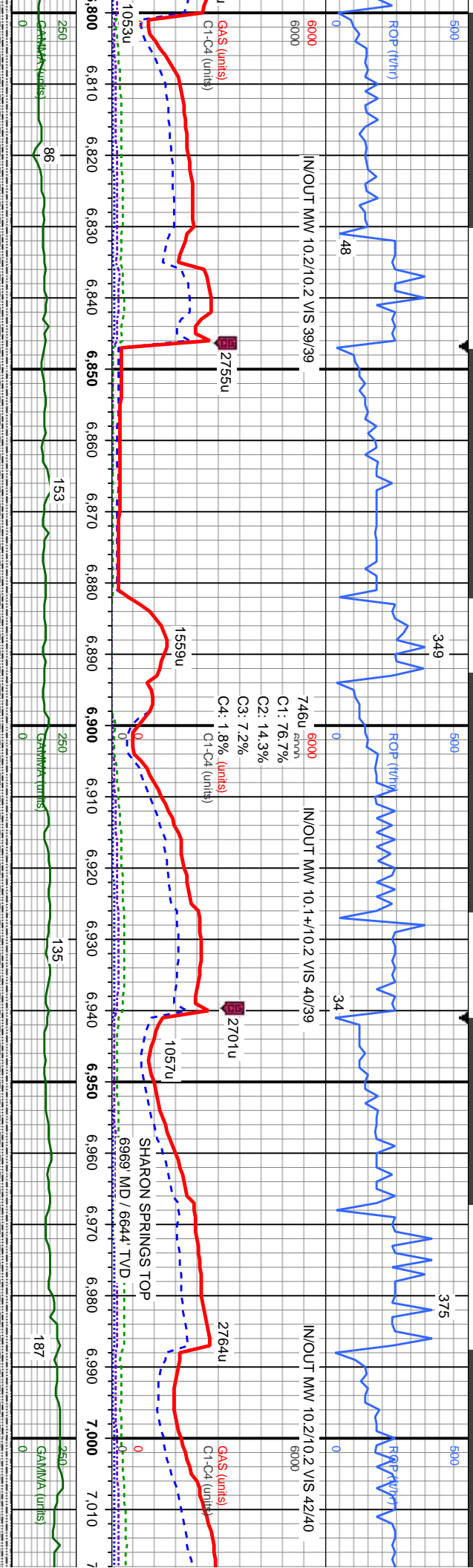
E
G
M
F
T
ST





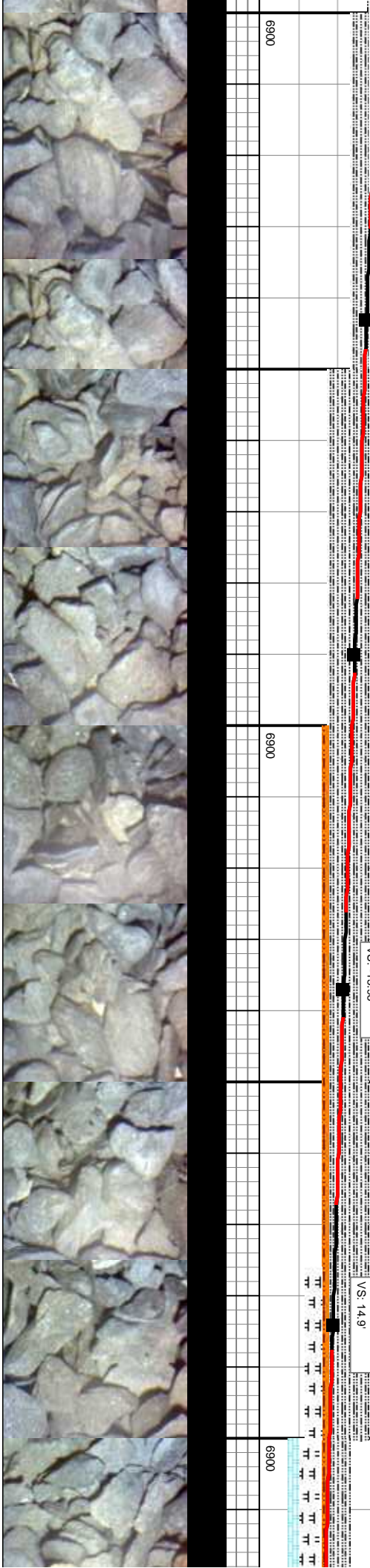
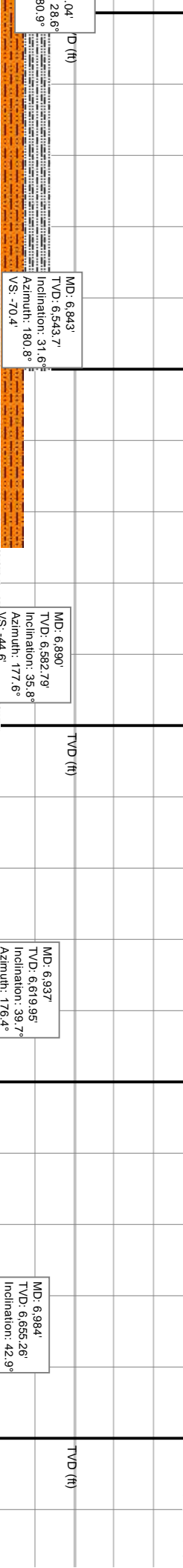


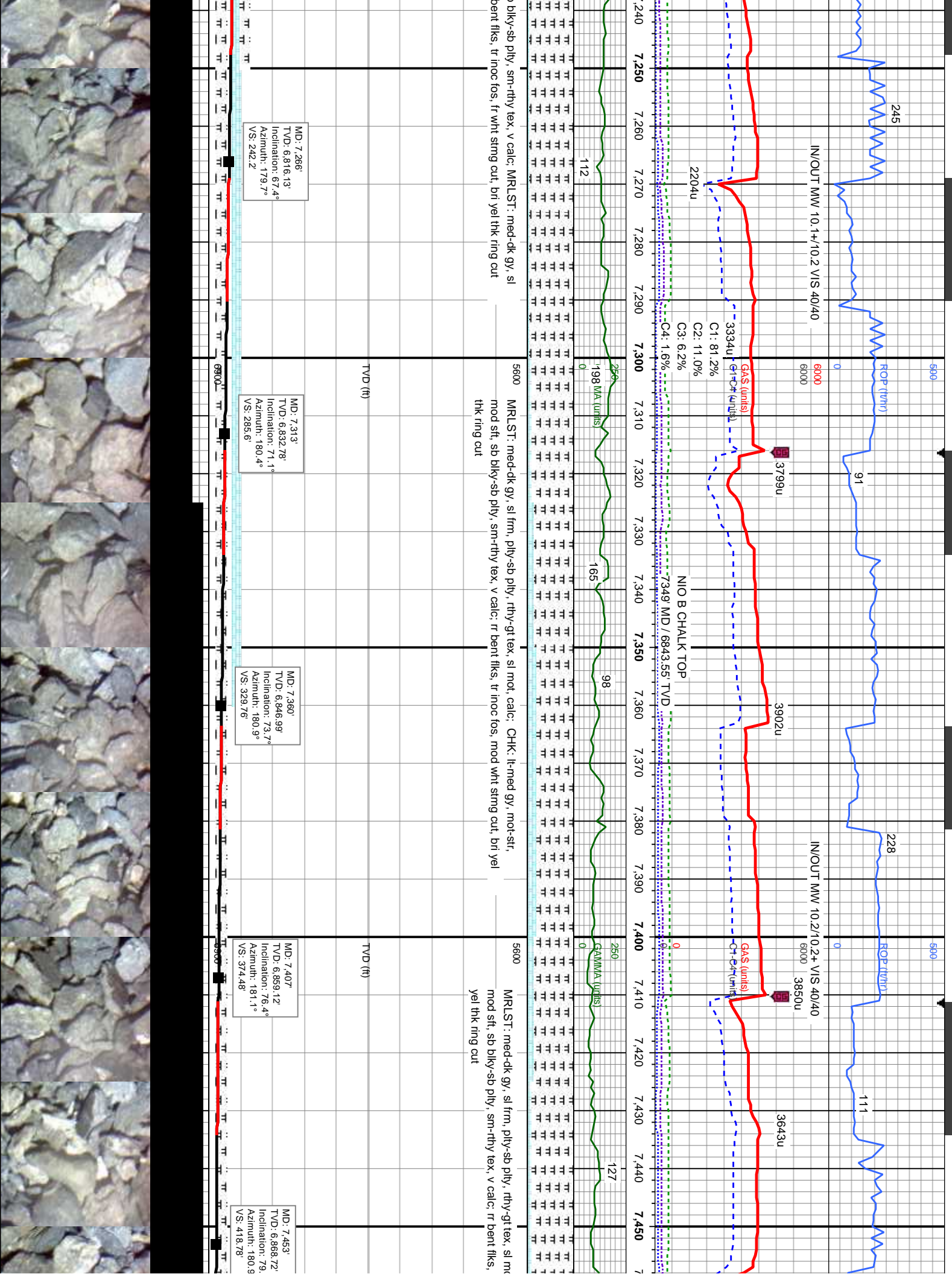




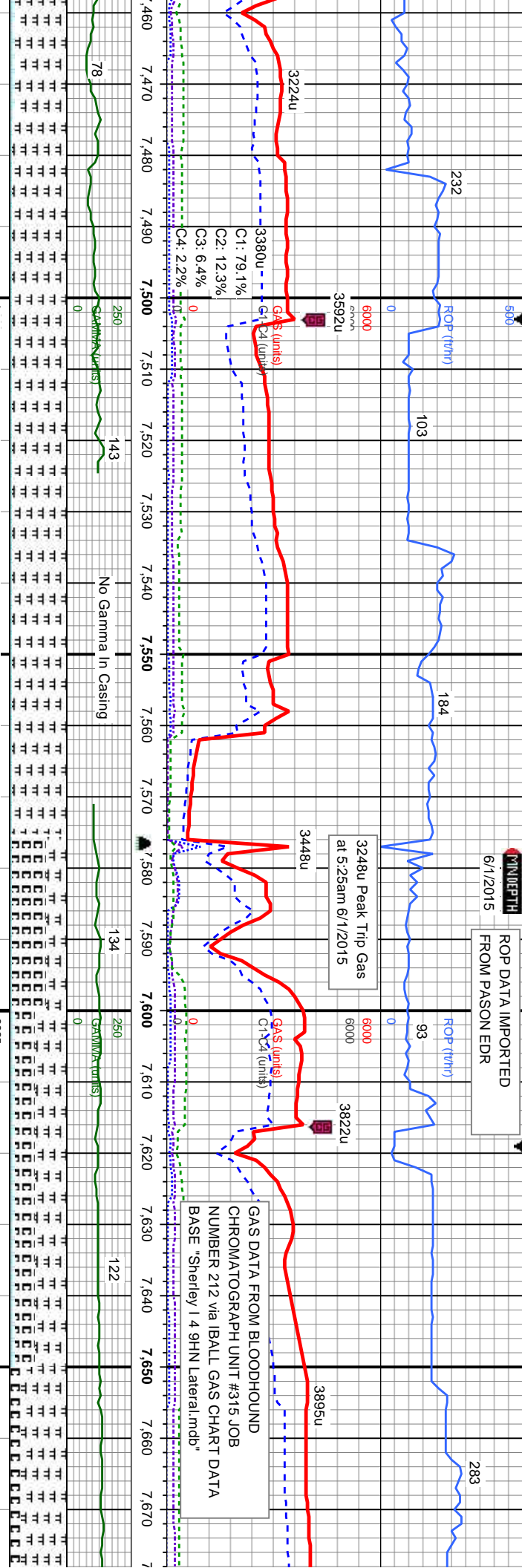
5600 SHY SLTST: lt-med gy, sil-vl gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cnt, sh incl, non calc;
SLTY SH: med-dk gy, sil-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot lp, non calc, tr wht
stmg cut, modl thk ring cut

5600 SHY SLTST: lt-med gy, sil-vl gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cnt, sh incl, non calc;
SLTY SH: med-dk gy, sil-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot lp, non calc, tr wht
stmg cut, modl thk ring cut





MINDEPTH
6/1/2015
ROP DATA IMPORTED
FROM PASON EDR



calc: CHK: lt-med gy, mod-str,
tr inoc fos, mod wht string cut, bri

MR.LST: med-dk gy, sl frm, ply-sb ply, rthy-gt tex, sl mot, calc: CHK: lt-med
gy, mod-str, mod sft, sb blk-y-sb ply, sm-rthy tex, v calc: rr bent flks, tr inoc fos,
mod wht string cut, bri yel thk ring cut

6825 MR.LST: med-dk gy - blk, sb blk-y-blky, frm, rthy
-sl sly, arg, v calc: 5% CHK: med gy-gy/sbhn occ lt
gy-lt-bm, sb blk-y-blky, sl sft-frm, sl mot, sl wxy, v
calc: abmt cmt, occ bent

100% MR.LST: med-dk gy - bl
rthy -sl sly, arg, v calc: occ cr
blshw slow string cut with mo
even resd

TVD (ft)

Continued Drilling Lateral @ 4:56HRS MDT from 7577'
on 6/01/2015 After Batch Drilling Curve Sections

Mud Report 3AM	SOLIDS 5.2%
WT 9.3	VIS 37
TEMP 77	OIL 1.7%
YP 8	WATER 93.2%
GEL 3/3	SAND .1%
API 6.6/1	pH 7.8
	Ca 120

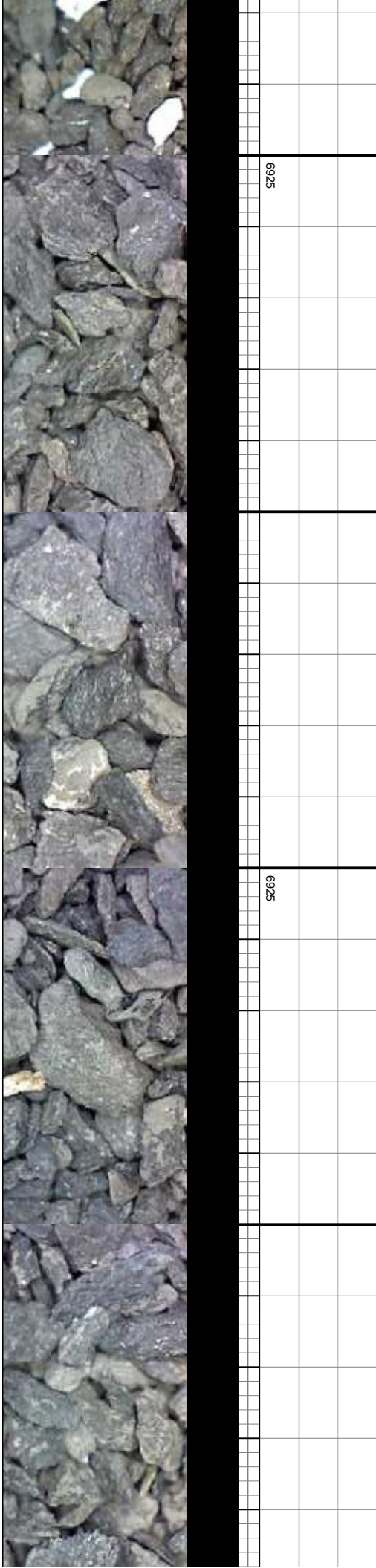
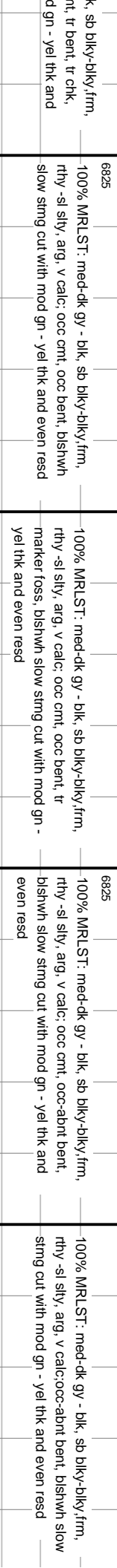
MD: 7.656'	VS: 617.97'
TVD: 6.883.53'	
Inclination: 89.6°	
Azinuth: 180.4°	

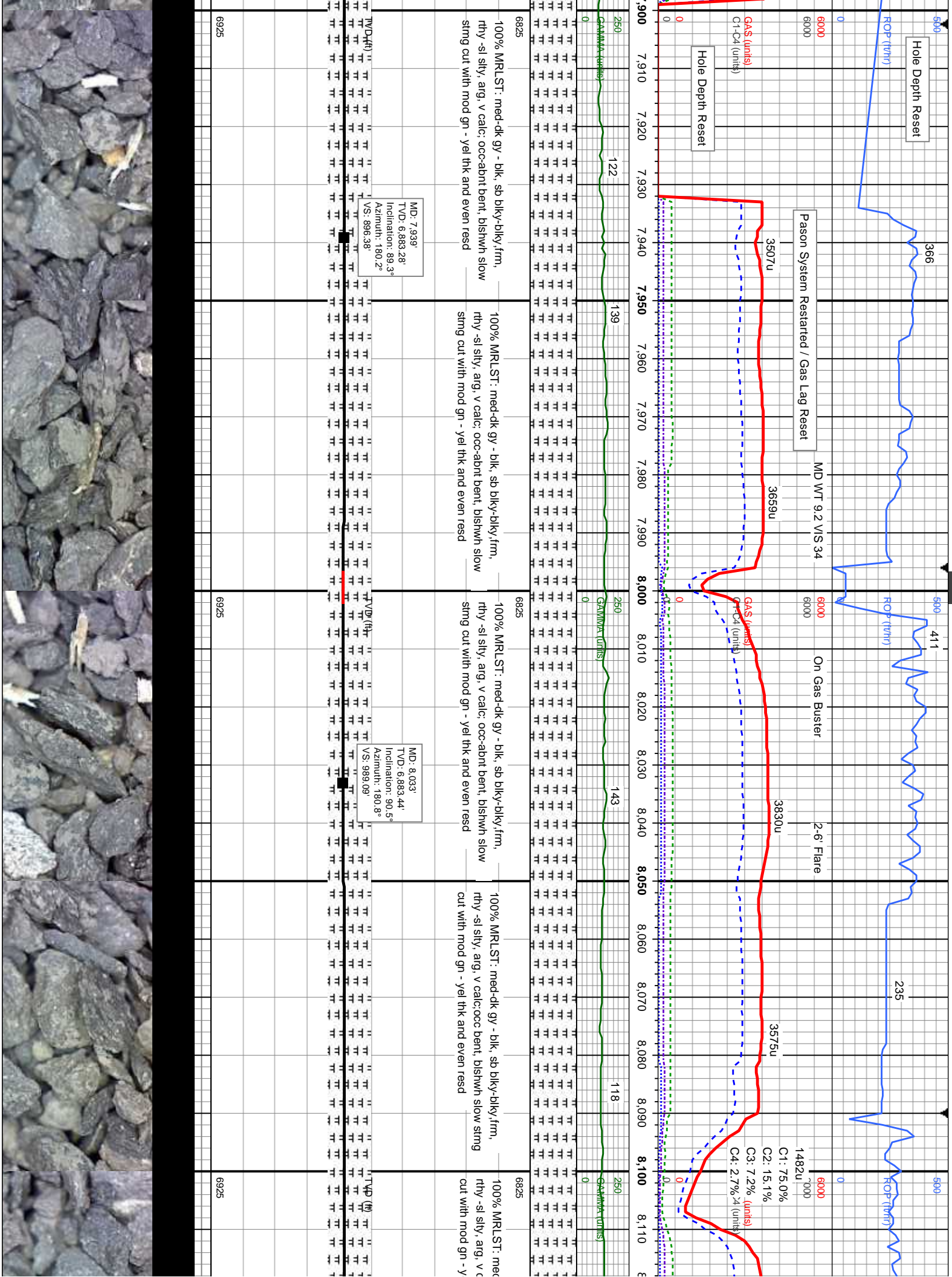
Bit Data
Bit #: 3
Type: REED/KH1516M-C
Size: 6 1/8
Jets: 5x16
S/N: A192372

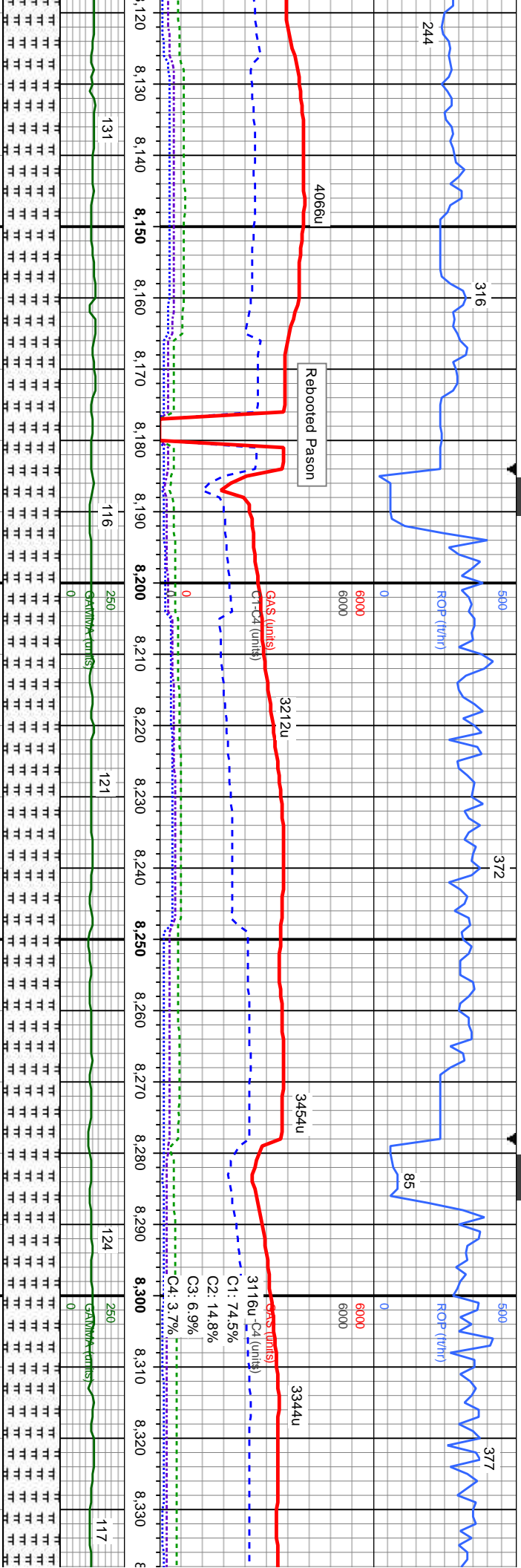
SCALE CHANGE
TVD 6850'-6950'
Survey and Gamma Data Provided by
Ensign Directional Services

MD: 7.527'
TVD: 6.878.24'
Inclination: 85.7°
Azimuth: 181.3°
VS: 491'

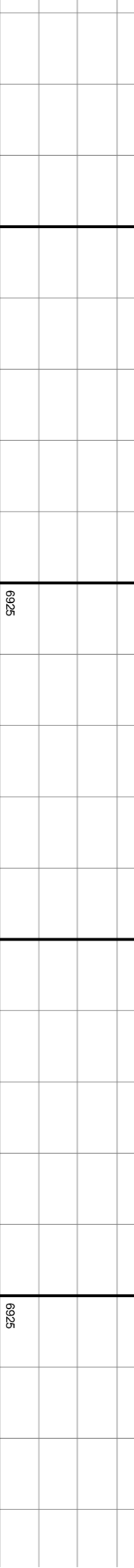
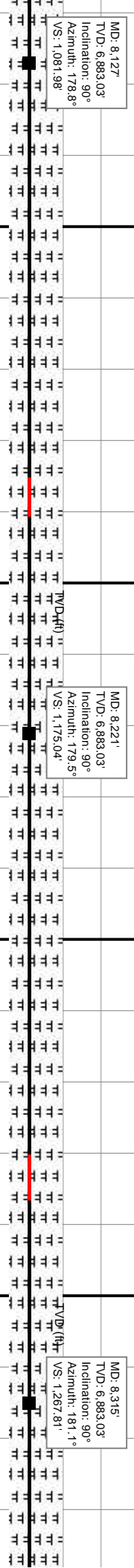


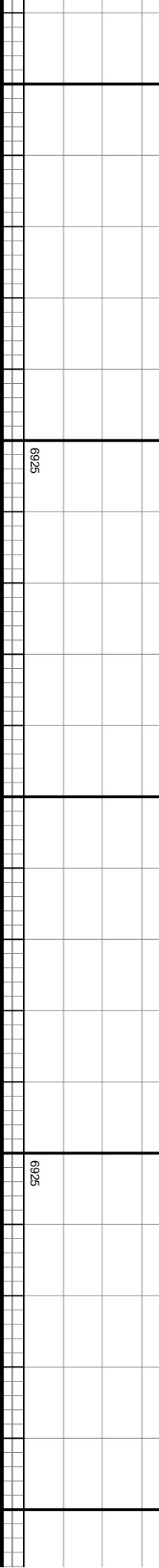
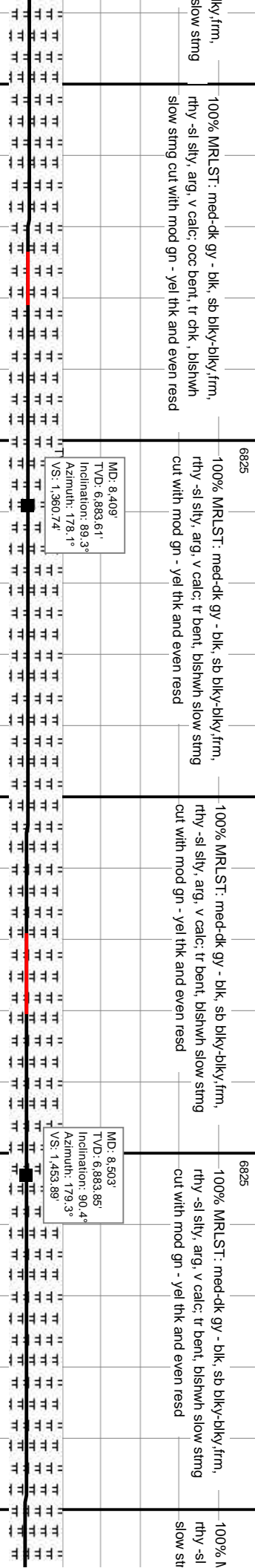
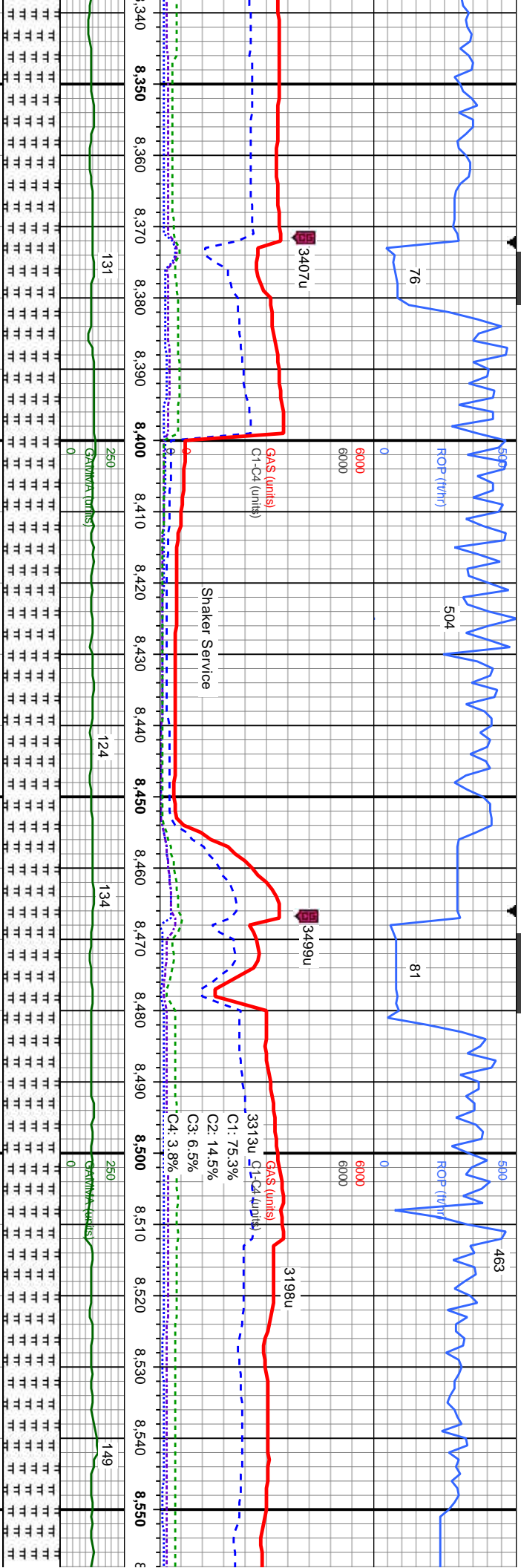


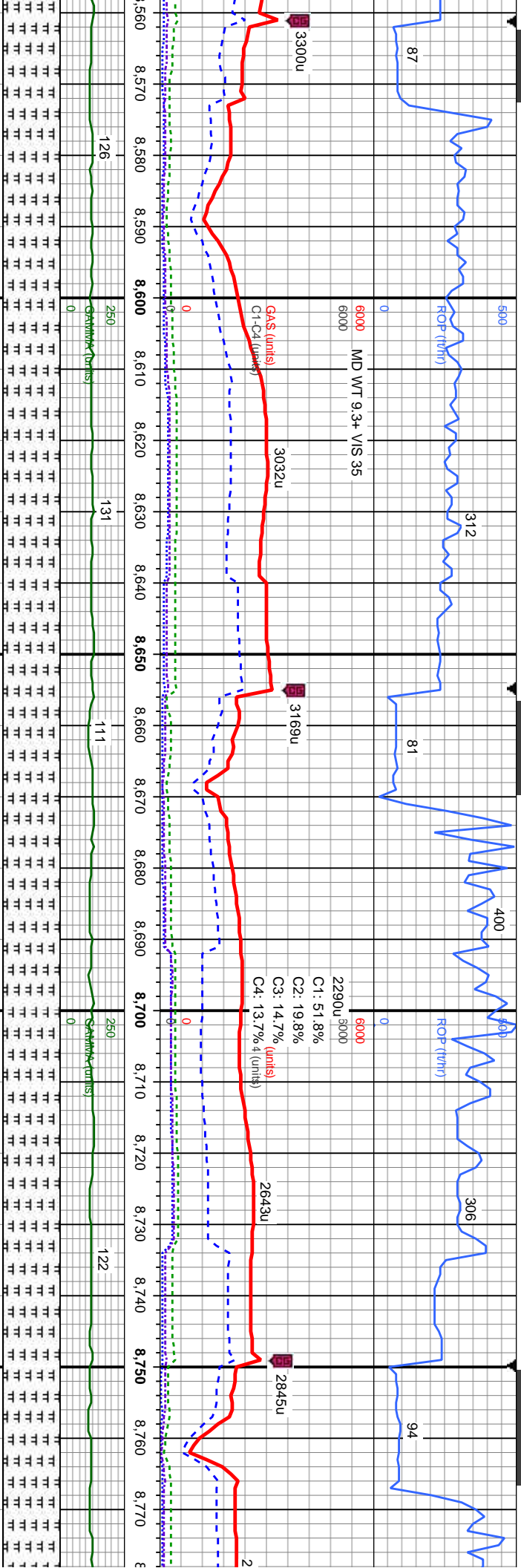




med-dk gy - blk, sb blk-y-biky frm, calc:occ bent, bishwh slow sting
100% MRLST: med-dk gy - blk, sb blk-y-biky frm, rthy -sl silty, arg, v calc:occ bent, bishwh slow sting cut with mod gn - yel thk and even resd
100% MRLST: med-dk gy - blk, sb blk-y-biky frm, rthy -sl silty, arg, v calc:occ bent, tr chk, bishwh slow sting cut with mod gn - yel thk and even resd
100% MRLST: med-dk gy - blk, sb blk-y-biky frm, rthy -sl silty, arg, v calc:occ bent, tr chk, bishwh slow sting cut with mod gn - yel thk and even resd







MRLST: med-dk gy - blk, sb biky-biky frm, rthy -sl sily, arg, v calc; occ cnt; tr cal, bishwh
ing cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb biky-sb pily,frm, rthy -sl sily, arg, v calc; occ bent; tr chk, bishwh
slow sting cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb biky-sb pily,frm, rthy -sl sily, arg, v calc; occ bent; tr chk, bishwh
sting cut with mod gn - yel thk and even resd

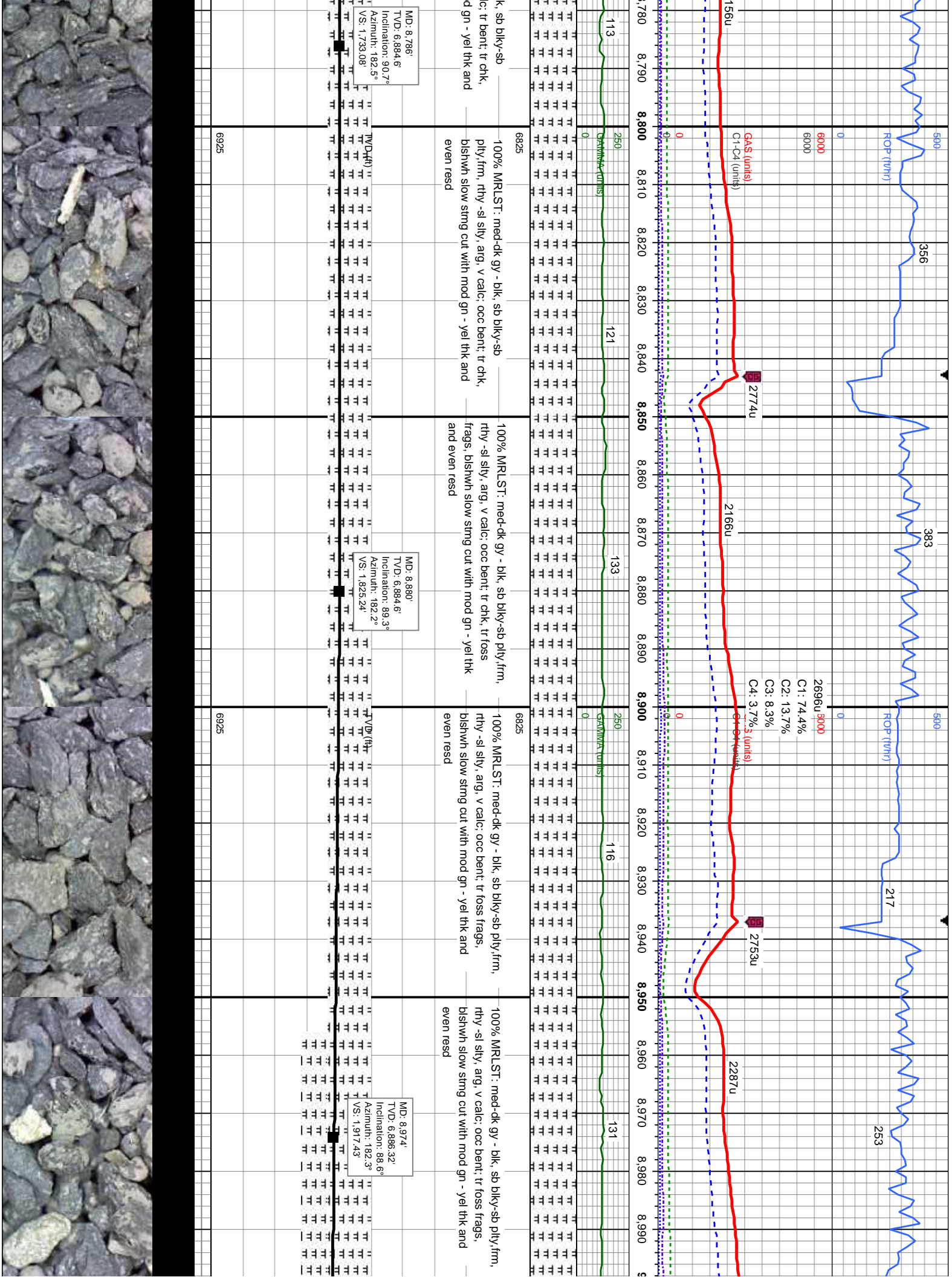
100% MRLST: med-dk gy - blk, sb biky-sb pily,frm, pily,frm, rthy -sl sily, arg, v ca
bishwh slow sting cut with mc
even resd

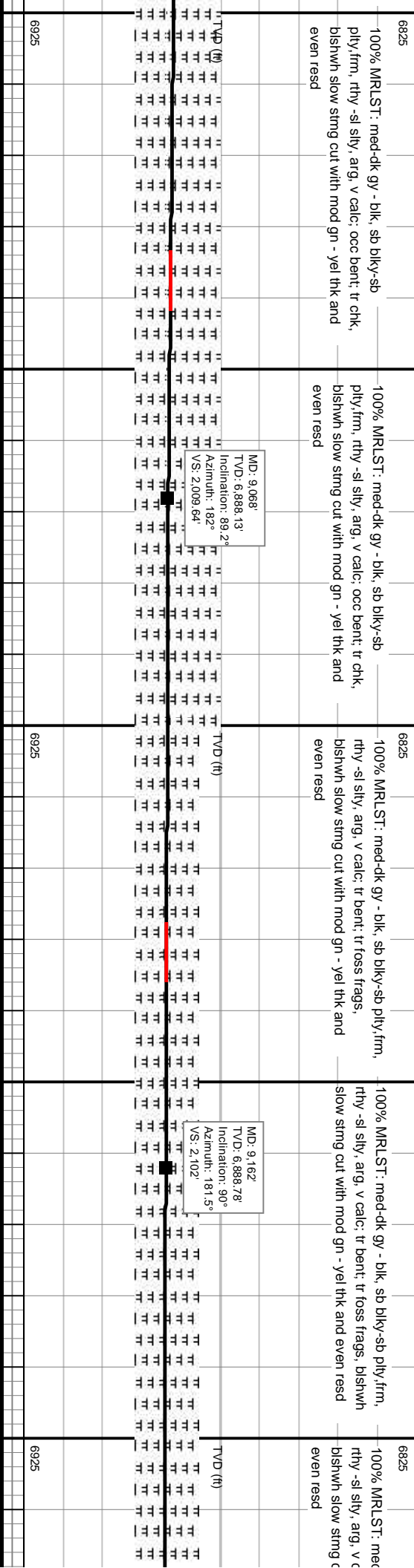
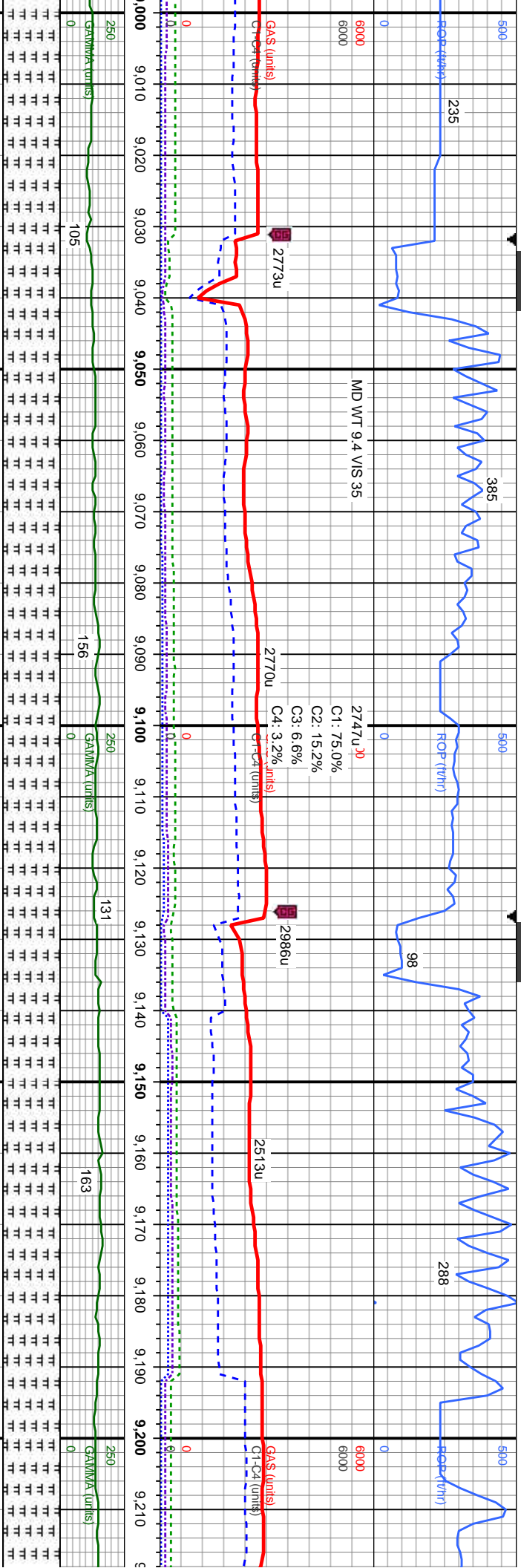
MD: 8.597
TVD: 6.884.35
Inclination: 89°
Azimuth: 179.3°
VS: 1.546.91

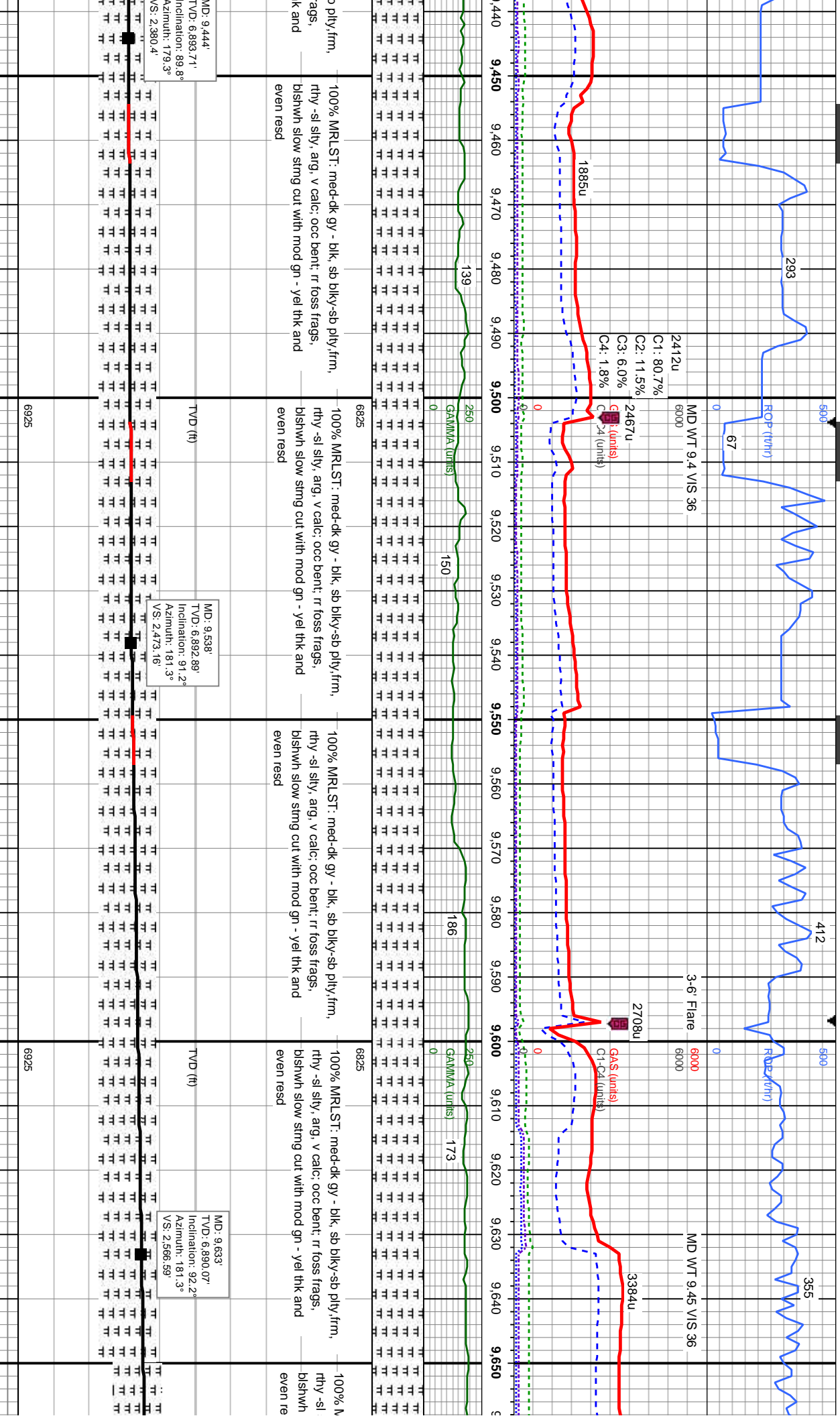
MD: 8.692
TVD: 6.885.18
Inclination: 90°
Azimuth: 180.9°
VS: 1.640.71

Mud Report 3PM
WT 9.3
VIS 36
TEMP 97
YP 8
GEL 3/3
API 5.9/1
SOLIDS 5.4%
OIL 1.7%
WATER 92.9%
SAND .9%
pH 9.4
Ca 80









6/2/2015

ROP (ft/hr)

249

393

ROP (ft/hr)

341

MID

6000

1981u

C1: 83.3%

C2: 12.8%

C3: 3.4%

C4: 0.4% (th)

3147u

2474u

2333u

GA5 (units)

C1-C4 (units)

6000

6000

537

250

152

130

178

189

GA5 (units)

C1-C4 (units)

6000

6000

537

250

152

130

178

189

GA5 (units)

C1-C4 (units)

6000

6000

537

250

152

130

178

189

GA5 (units)

C1-C4 (units)

6000

6000

537

250

152

130

178

189

GA5 (units)

C1-C4 (units)

6000

6000

537

250

152

130

178

189

GA5 (units)

C1-C4 (units)

6000

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537

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152

130

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GA5 (units)

C1-C4 (units)

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GA5 (units)

C1-C4 (units)

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189

GA5 (units)

C1-C4 (units)

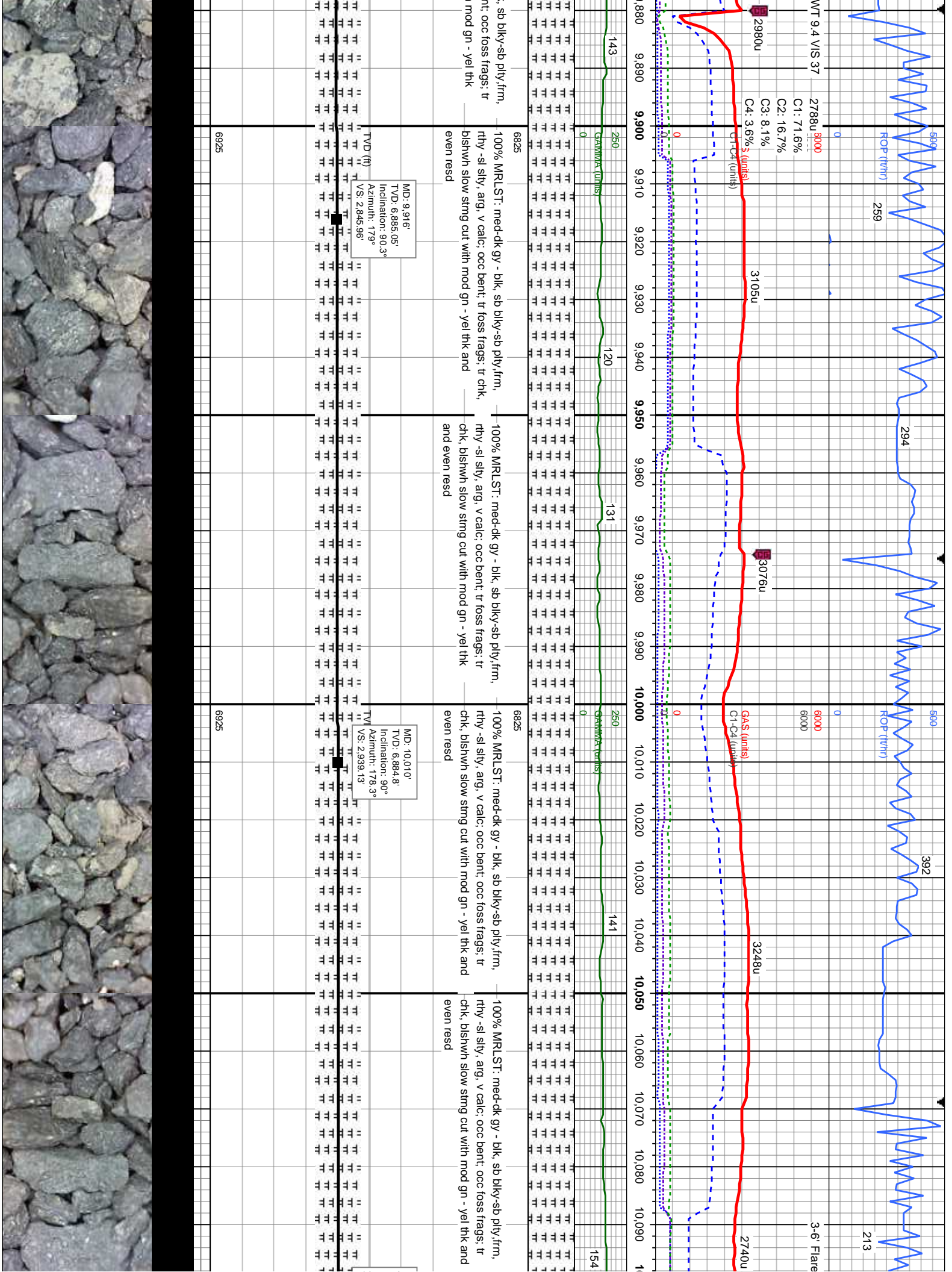
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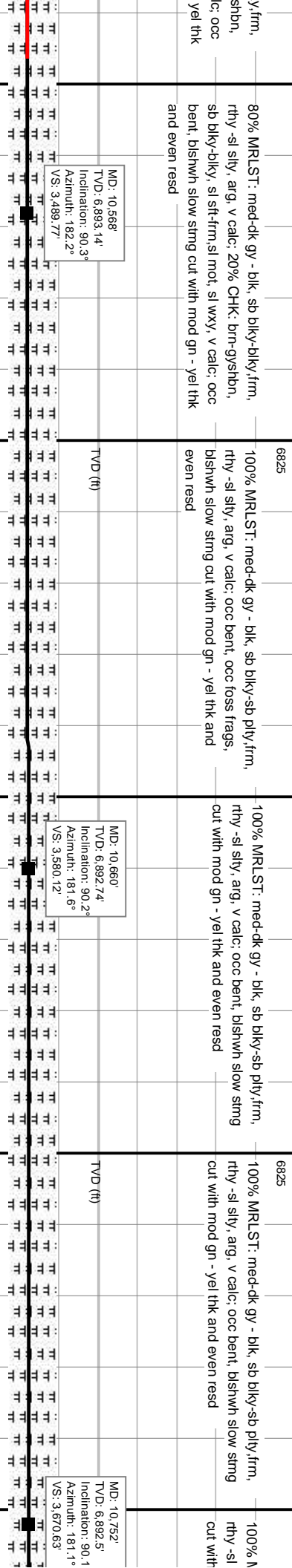
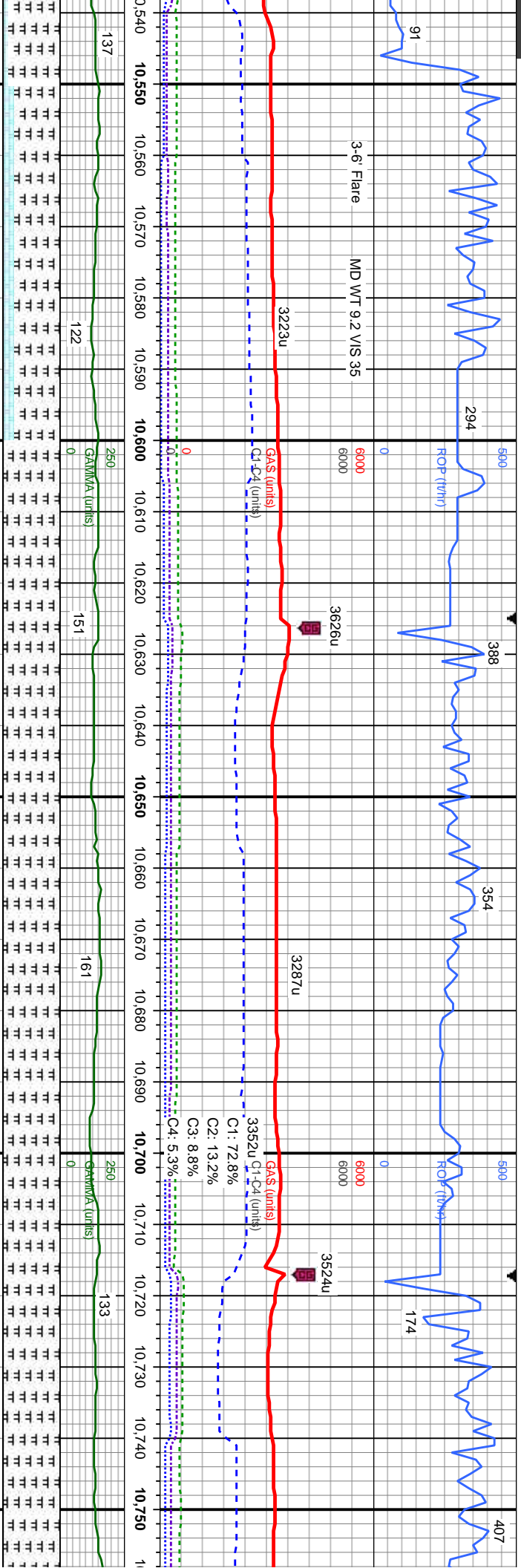
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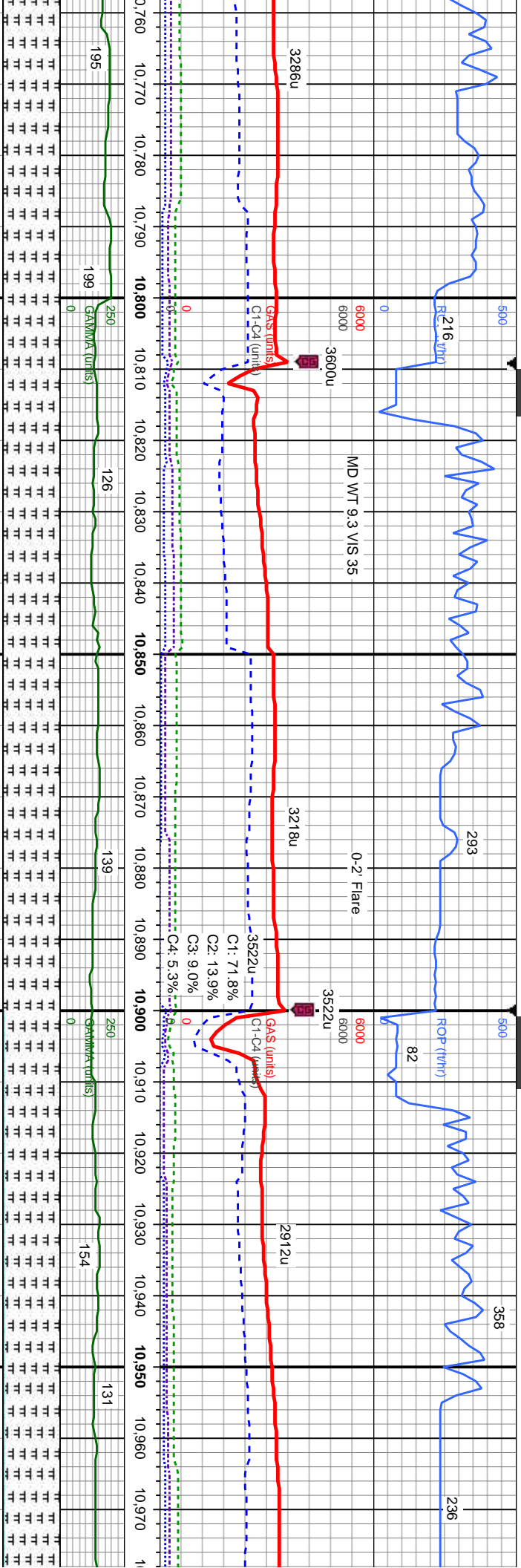
537

250

152





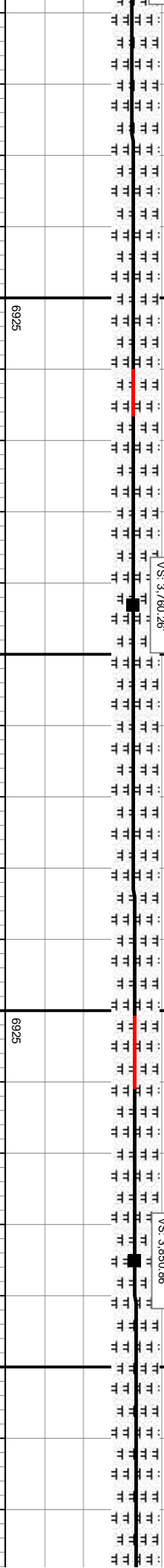


100% MRLST: med-dk gy - blk, sb blk-y-sb ply,frm,
rthy - sl sily, arg, v calc: occ bent, bishwh slow sting
cut with mod gn - yel thk and even resd

95% MRLST: med-dk gy - blk, sb blk-y-biky,frm, rthy
-sl sily, arg, v calc: 5% CHK: brn-gy-shbn, sb
biky-biky, sl st-frm,sl mot, sl wxy, v calc:occ bent,
bishwh slow sting cut with mod gn - yel thk and
even resd

MD: 10.843'
TVD: 6.892.34'
Inclination: 90.1°
Azimuth: 180.8°
VS: 3.760.26'

MD: 10.935'
TVD: 6.891.78'
Inclination: 90.6°
Azimuth: 181.3°
VS: 3.850.86'



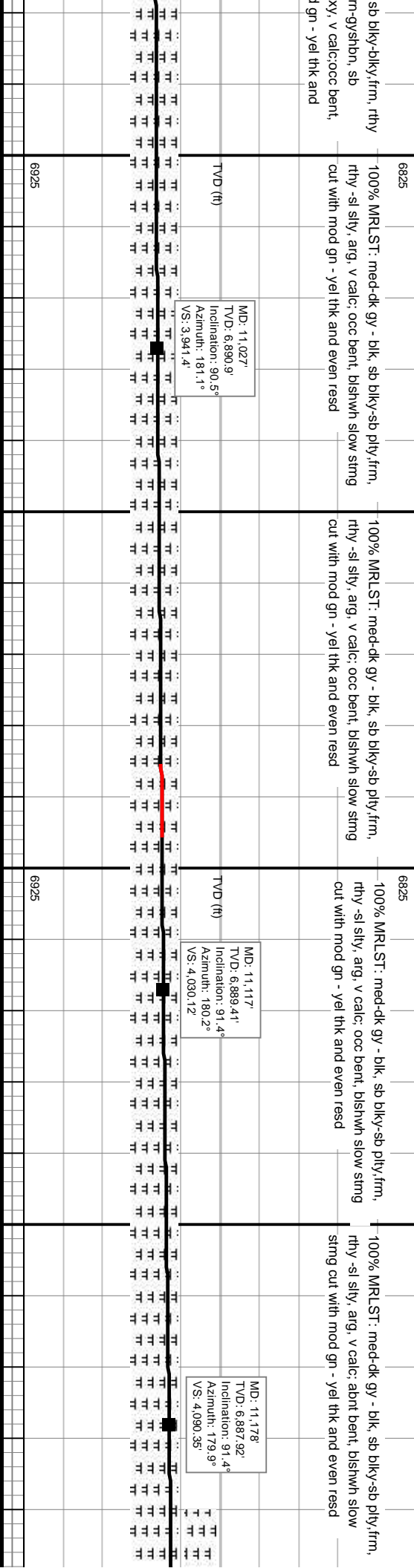
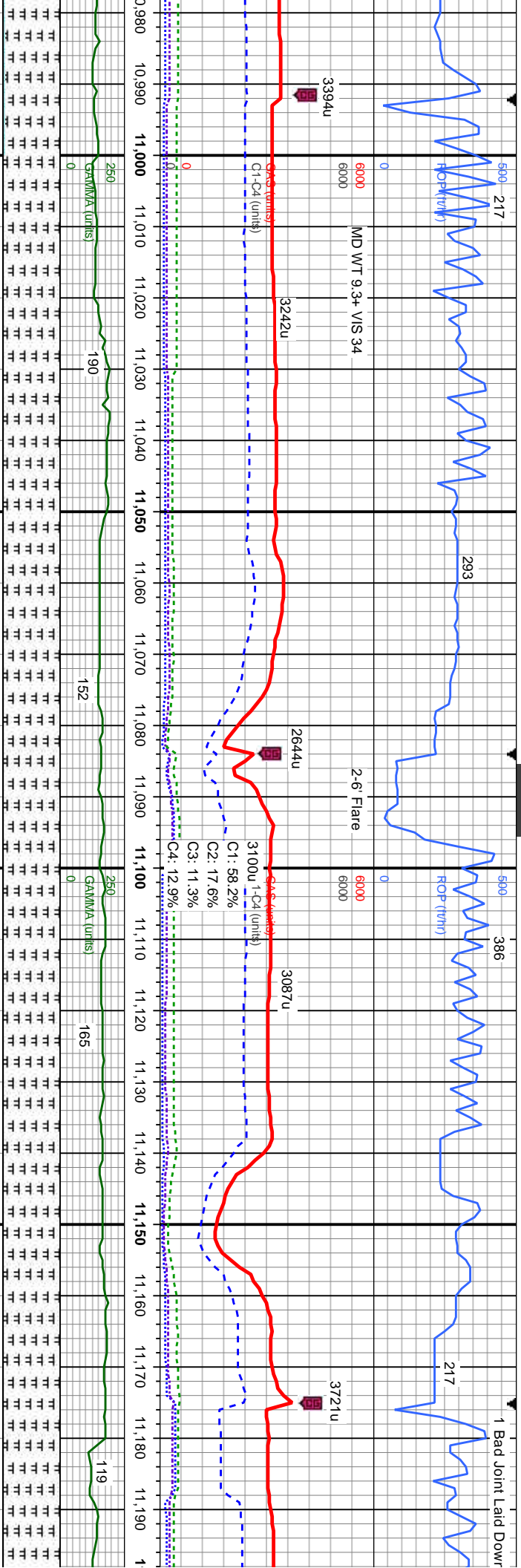
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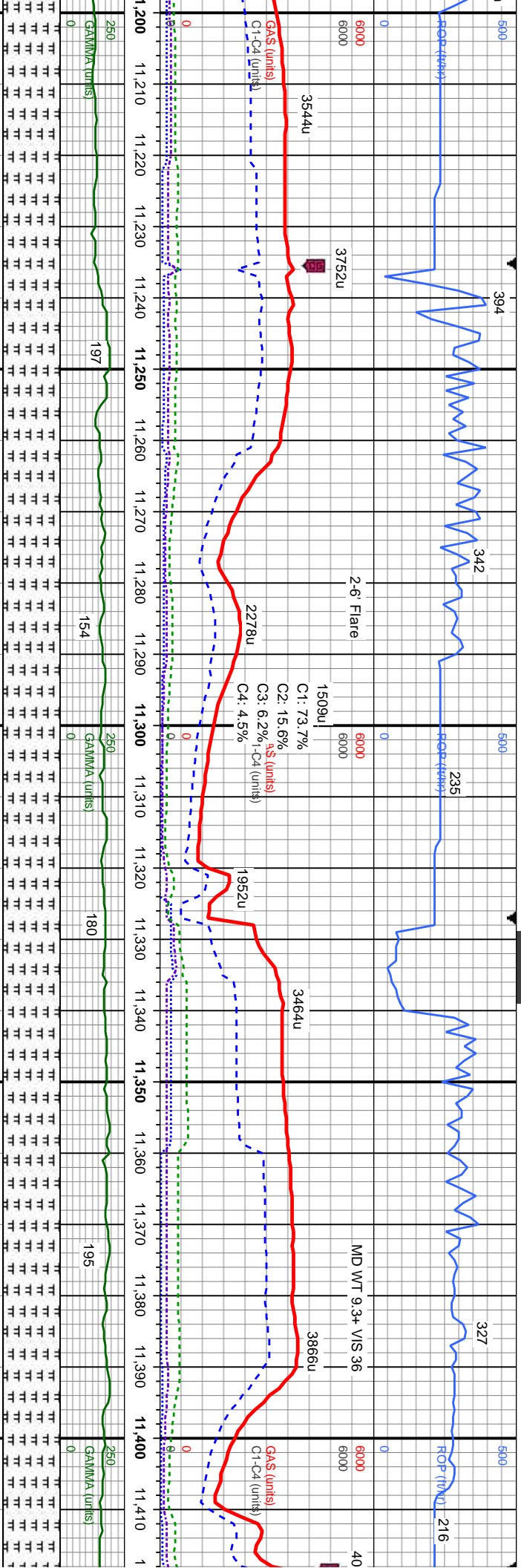
95% MRLST: med-dk gy - blk, sb blk-y-biky,frm, rthy
-sl sily, arg, v calc: 5% CHK: brn-gy-shbn, sb
biky-biky, sl st-frm,sl mot, sl wxy, v calc:occ bent,
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MD: 10.843'
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TVD: 6.891.78'
Inclination: 90.6°
Azimuth: 181.3°
VS: 3.850.86'







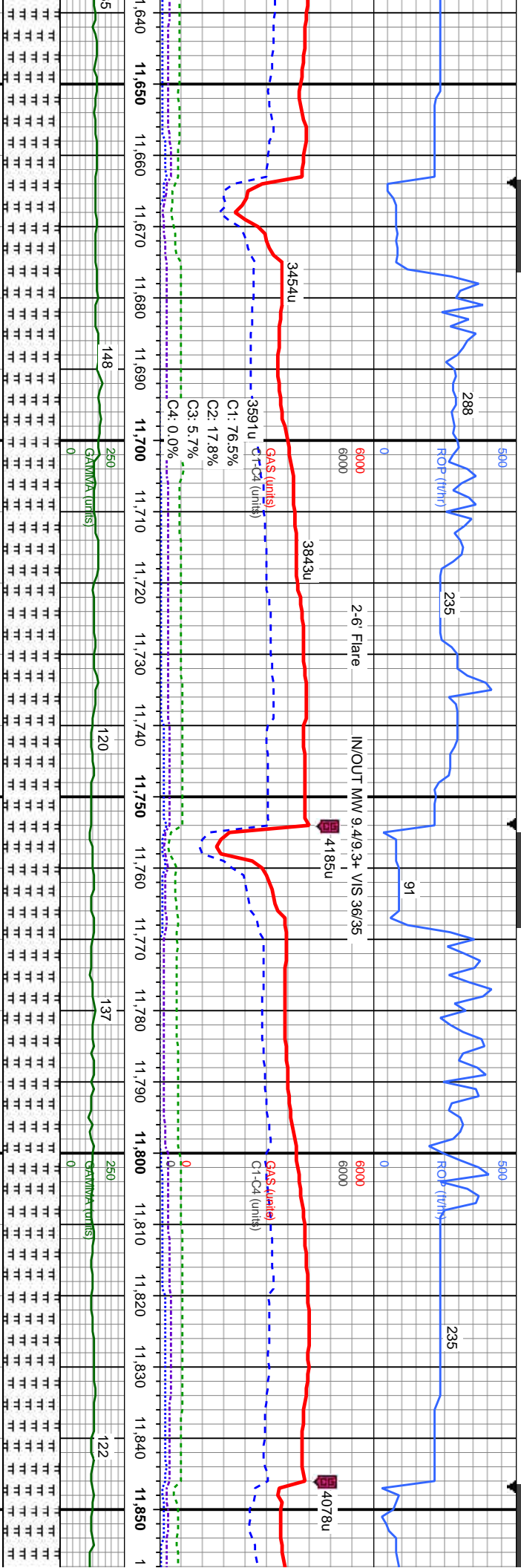
100% MRLST: med-dk gy - blk, sb blk-y-sb pty, frm, rthy -sl sily, arg, v calc; abnt bent, bishwh slow sting cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb pty, frm, rthy -sl sily, arg, v calc; abnt bent, bishwh slow sting cut with mod gn - yel thk and even resd

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100% MRLST: med-dk gy - blk, sb blk-y-sb pty, frm, rthy -sl sily, arg, v calc; abnt bent, bishwh slow sting cut with mod





100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl sily, arg, v calc; occ bent; tr cal incl; tr fos frags, blshwn slow sting cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl sily, arg, v calc; occ bent; tr cal incl; tr fos frags, blshwn slow sting cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl sily, arg, v calc; occ bent; tr cal incl; tr fos frags, tr chk, blshwn slow sting cut with mod gn - yel thk and even resd

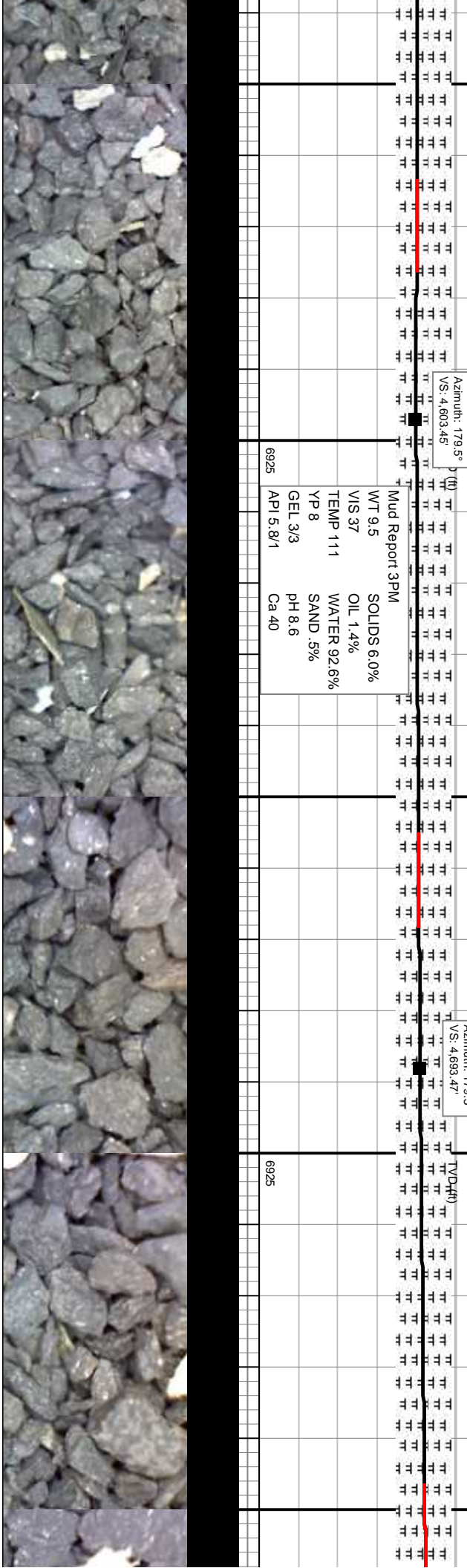
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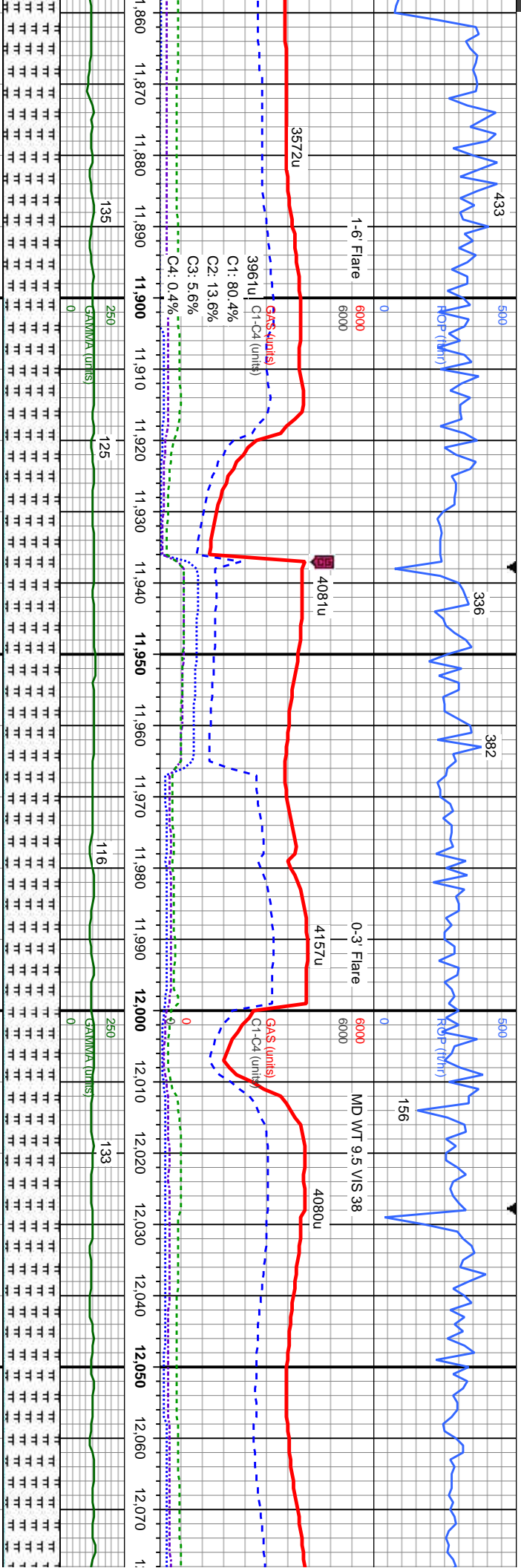
MD: 11,697'
TVD: 6,884.88'
Inclination: 90.3°
Azimuth: 179.5°
VS: 4.603.45'

MD: 11,788'
TVD: 6,883.92'
Inclination: 90.9°
Azimuth: 179.3°
VS: 4.693.47'

Mud Report 3PM

WT 9.5	SOLIDS 6.0%
VIS 37	OIL 1.4%
TEMP 111	WATER 92.6%
YP 8	SAND .5%
GEL 3/3	pH 8.6
API 5.8/1	Ca 40





95% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, -sl stly, arg, v calc; 5% CHK: brn-gyshn, sb blk-y-bkly, sl st-frm, sl mot, sl wxy, v calc; occ bent, occ foss frags, blshwn slow string cut with mod gn - yel thk and even resd

MD: 11,880'
TVD: 6,882.08'
Inclination: 91.4°
Azimuth: 181.1°
VS: 4,784.27'

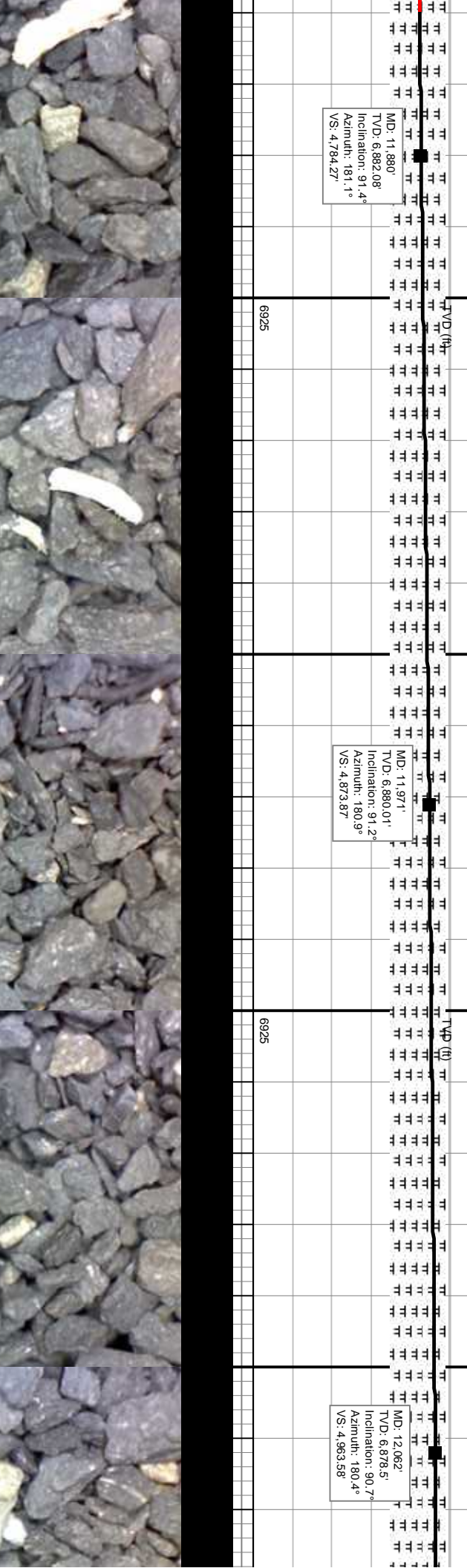
6925

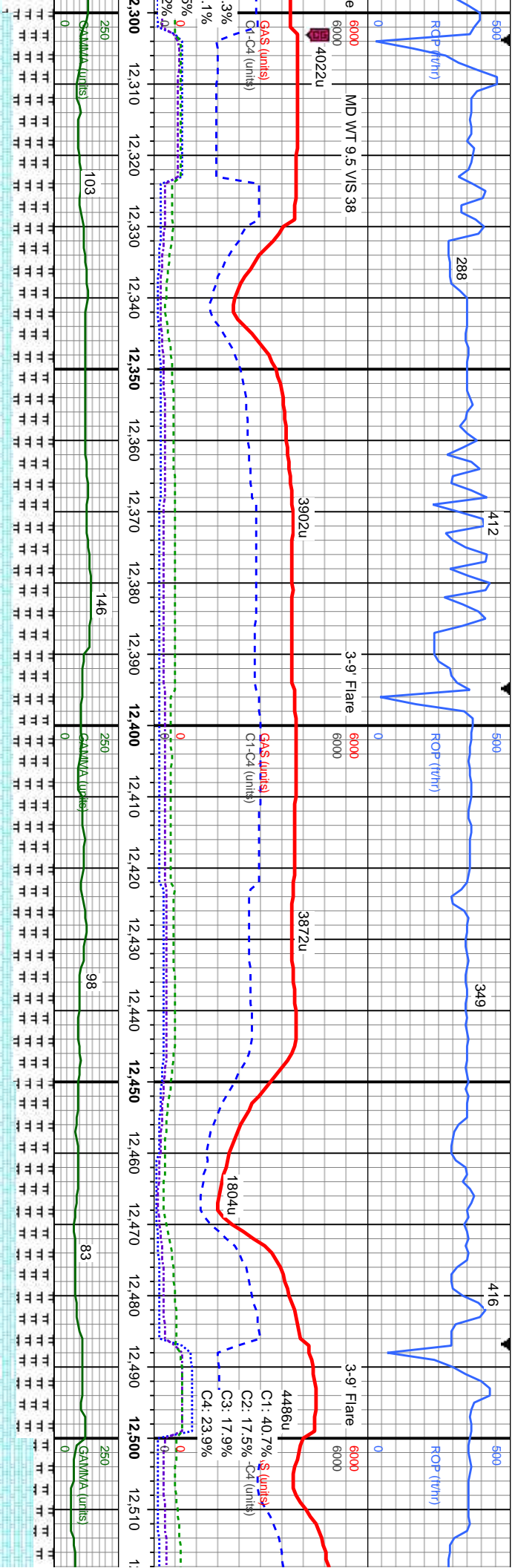
MD: 11,971'
TVD: 6,880.01'
Inclination: 91.2°
Azimuth: 180.9°
VS: 4,873.87'

6925

MD: 12,062'
TVD: 6,878.5'
Inclination: 90.7°
Azimuth: 180.4°
VS: 4,963.58'

6925





70% MRLST: med-dk gy - blk, sb blk-y-bkly, frm, rthy -sl silty, arg, v calc, sl fss ip: 30% CHK: brn-gyshbn, sb blk-y-bkly, sl sft-frm, sl mot, sl wxy, v calc; occ bent, blshwh slow string cut with mod gn -yel thk and even resd

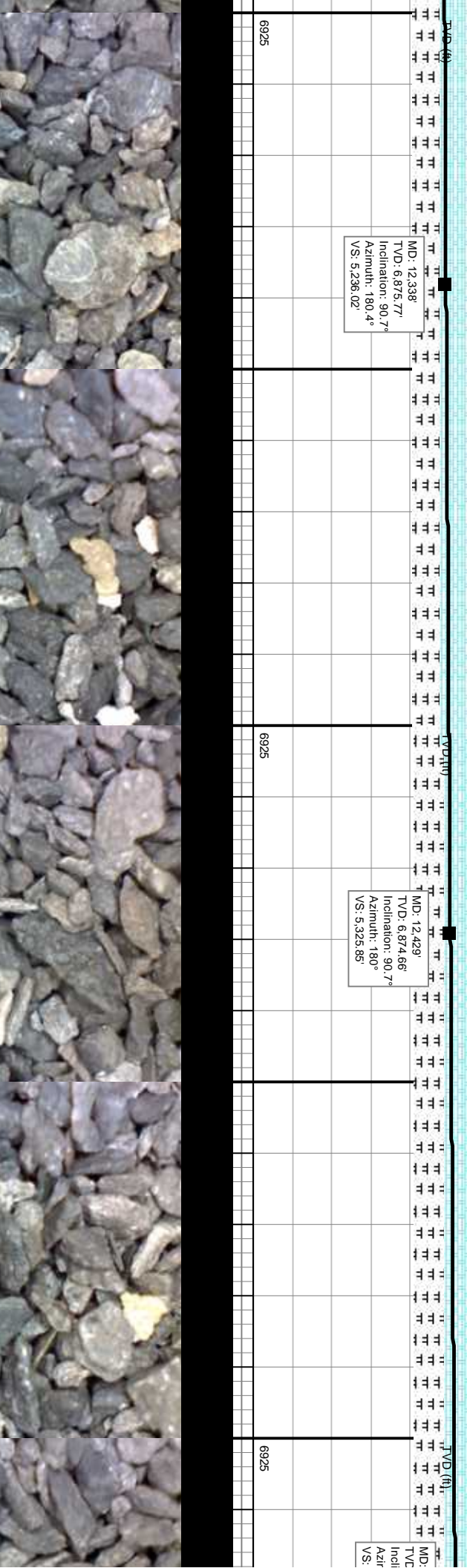
70% MRLST: med-dk gy - blk, sb blk-y-bkly, frm, rthy -sl silty, arg, v calc, sl fss ip: 30% CHK: brn-gyshbn, sb blk-y-bkly, sl sft-frm, sl mot, sl wxy, v calc; occ bent, blshwh slow string cut with mod gn -yel thk and even resd

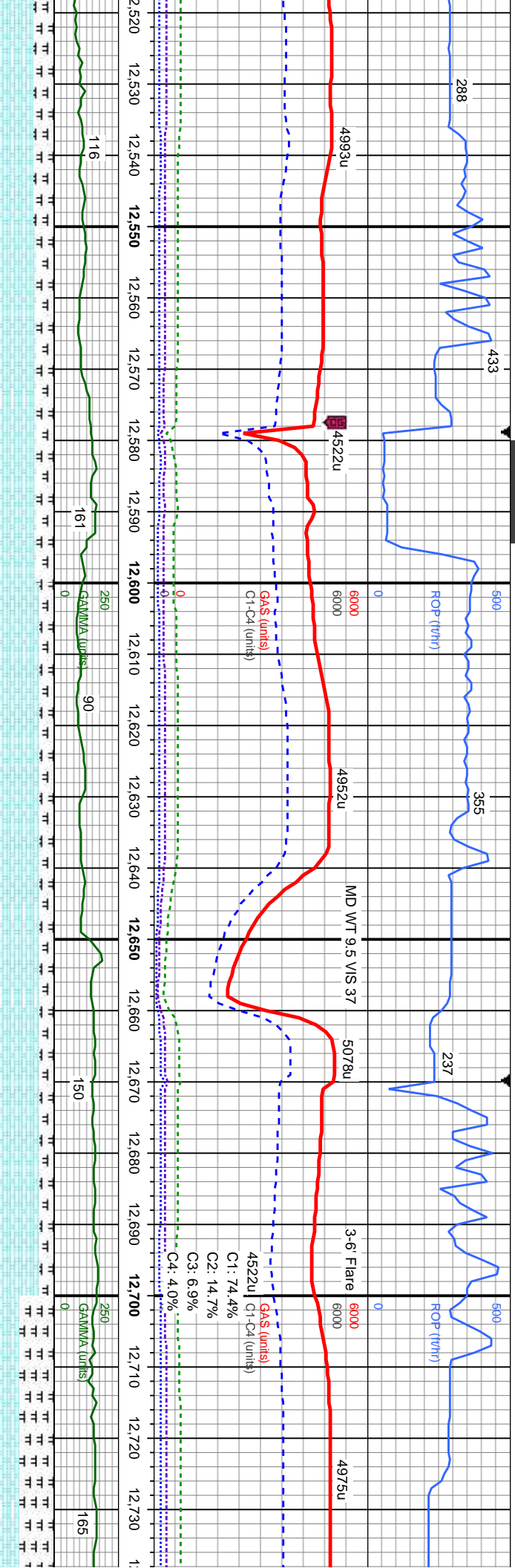
70% MRLST: med-dk gy - blk, sb blk-y-bkly, frm, rthy -sl silty, arg, v calc, sl fss ip: 30% CHK: brn-gyshbn, sb blk-y-bkly, sl sft-frm, sl mot, sl wxy, v calc; occ bent, blshwh slow string cut with mod gn -yel thk and even resd

MD: 12.338
TVD: 6.875.77
Inclination: 90.7°
Azimuth: 180.4°
VS: 5.236 02°

MD: 12.429
TVD: 6.874.66
Inclination: 90.7°
Azimuth: 180°
VS: 5.325 85°

MD: 12.429
TVD: 6.874.66
Inclination: 90.7°
Azimuth: 180°
VS: 5.325 85°





gy/shbn, sb blk-y-bkly, sl sft-firm, sl alc: 35% MRLST: med-dk gy - l, rthy -sl sily, arg, v calc, sl fss low sting cut with mod gn - yel	70% CHK: lt gy/bm-gy/shbn, sb blk-y-bkly, sl sft-firm, sl mod/mot, sl wxy, v calc; 30% MRLST: med-dk gy - blk, sb blk-y-bkly, frm, rthy -sl sily, arg, v calc, sl fss ip; tr bent, blshwn slow sting cut with mod gn - yel thk and even resd	6825	75% CHK: lt gy/bm-gy/shbn, sb blk-y-bkly, sl sft-firm, sl mod/mot, sl wxy, v calc; 25% MRLST: med-dk gy - blk, sb blk-y-bkly, frm, rthy -sl sily, arg, v calc, sl fss ip; tr bent, blshwn slow sting cut with mod gn - yel thk and even resd	80% CHK: lt gy/bm-gy/shbn, sb blk-y-bkly, sl sft-firm, sl mod/mot, sl wxy, v calc; 20% MRLST: med-dk gy - blk, sb blk-y-bkly, frm, rthy -sl sily, arg, v calc, sl fss ip; tr bent, blshwn slow sting cut with mod gn - yel thk and even resd	6825	60% MRLST: med-dk gy - blk, sb blk-y-bkly rthy -sl sily, arg, v calc, sl fss ip; 40% CH brn-gy/shbn, sb blk-y-bkly, sl sft-firm, sl mod calc; tr bent, blshwn slow sting cut with m yel thk and even resd
--	--	------	--	--	------	---

12,521'

6,873.45'

naicon: 90.8°
muth: 179.9°
5,416.73'

TVD (ft)

MD: 12.612
TVD: 6,873.37
Inclination: 89.3°
Azimuth: 181.5°
VS: 5,506.43'

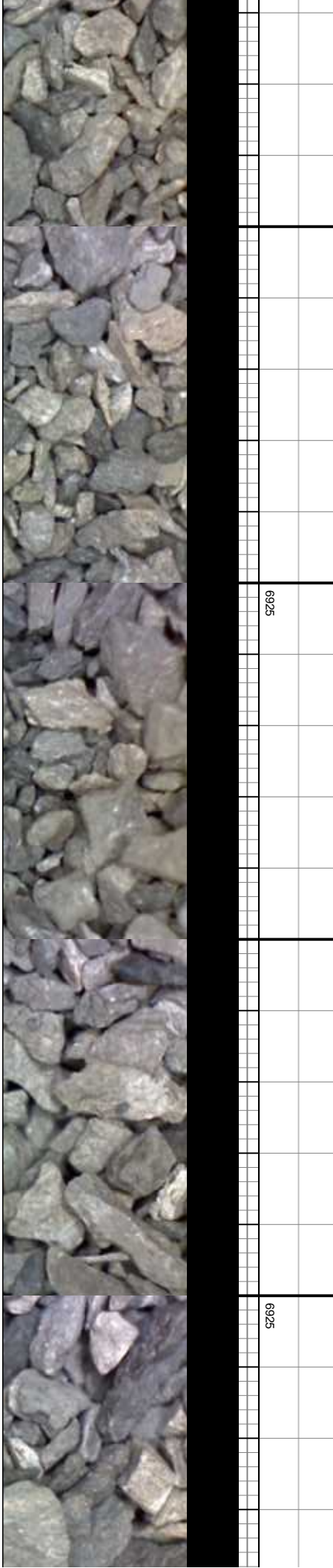
12,704'

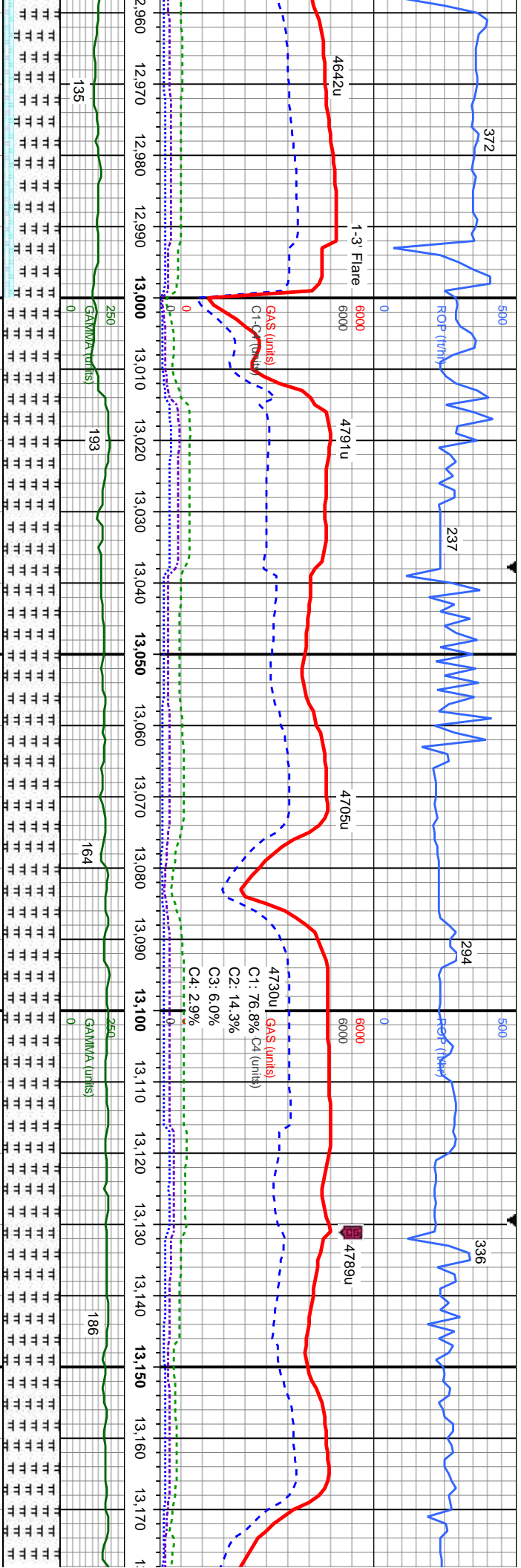
6,875.14'

naicon: 90.8°
muth: 179.9°
5,416.73'

TVD (ft)

MD: 12.704
TVD: 6,875.14
Inclination: 88.5°
Azimuth: 180.6°
VS: 5,597'





LST: med-dk gy - blk, sb blk-y-bkly, frm, rthy
arg, v calc, sl fiss ip, 20% CHK, brn-gyshbn,
blk-y, sl sft-frm, sl mod, sl wxy, v calc, occ
hwh slow string cut with mod gn - yel thk

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm,
rthy -sl sily, arg, v calc; abnt bent, tr chk, bishwh
slow string cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm,
rthy -sl sily, arg, v calc; abnt bent, tr chk, bishwh
slow string cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm,
rthy -sl sily, arg, v calc; abnt bent, tr chk, bishwh
cut with mod gn - yel thk and e

MD: 12,980'
TVD: 6,877.22'
Inclination: 91.5°
Azimuth: 181.1°
VS: 5,868.41'

MD: 13,072'
TVD: 6,874.97'
Inclination: 91.3°
Azimuth: 180.2°
VS: 5,959.08'

MD: 13,135'
TVD: 6,873.93'
Inclination: 90.6°
Azimuth: 180.4°
VS: 6,021.25'

Mud Report 3AM

WT 9.3 SOLIDS 5.3%

VIS 39 OIL 1.3%

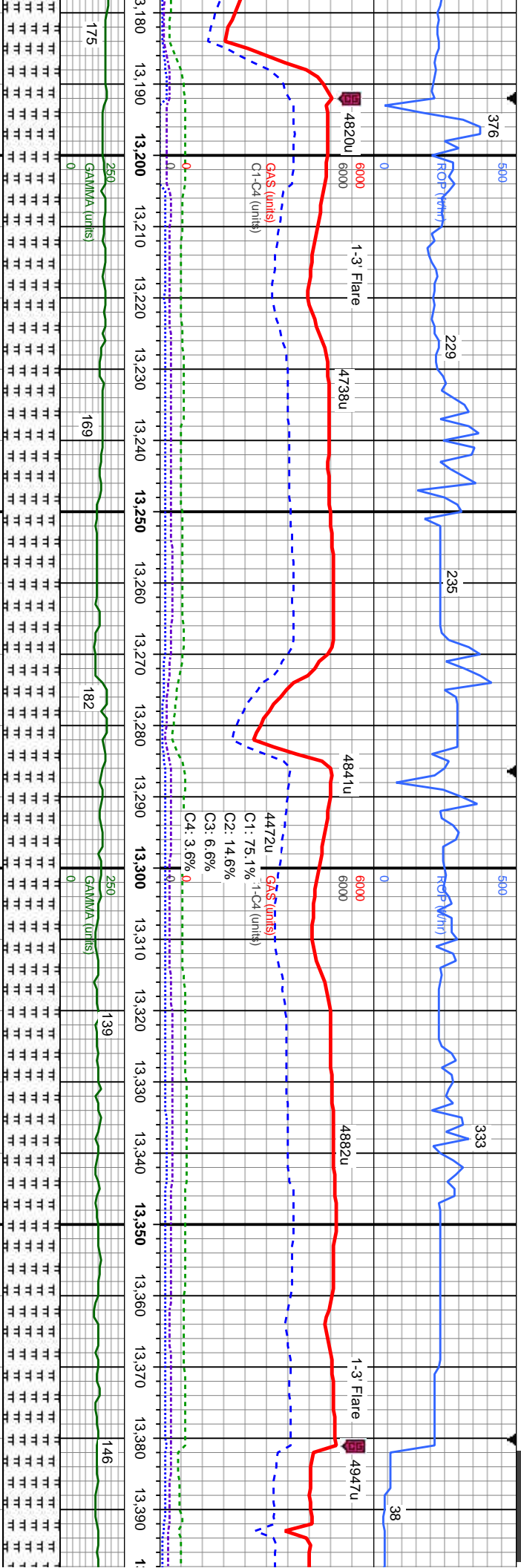
TEMP 104 WATER 93.4%

YP 8 SAND .6%

GEL 4/5 pH 8.6

API 5.7/1 Ca 120





sb blk-y-sb ply, firm,
ant, bishwn slow stmg
even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, firm,
rthy -sl sily, arg, v calc; abnt bent, bishwn slow stmg
cut with mod gn - yel thk and even resd

MD: 13.229
TVD: 6,873.11'
Inclination: 90.4°
Azimuth: 179°
VS: 6.114, 16'

sb blk-y-sb ply, firm,
ant, bishwn slow stmg
even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, firm,
rthy -sl sily, arg, v calc; abnt bent, bishwn slow stmg
cut with mod gn - yel thk and even resd

MD: 13.323
TVD: 6,872.62'
Inclination: 90.2°
Azimuth: 177.9°
VS: 6.207, 37'

sb blk-y-sb ply, firm,
ant, bishwn slow stmg
even resd

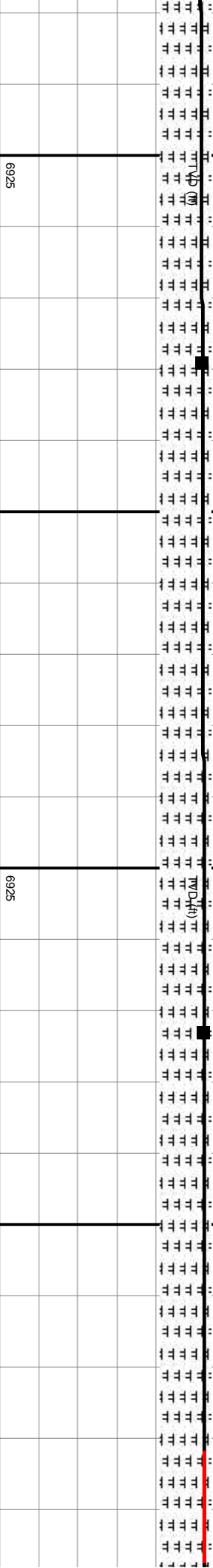
100% MRLST: med-dk gy - blk, sb blk-y-sb ply, firm,
rthy -sl sily, arg, v calc; abnt bent, bishwn slow stmg
cut with mod gn - yel thk and even resd

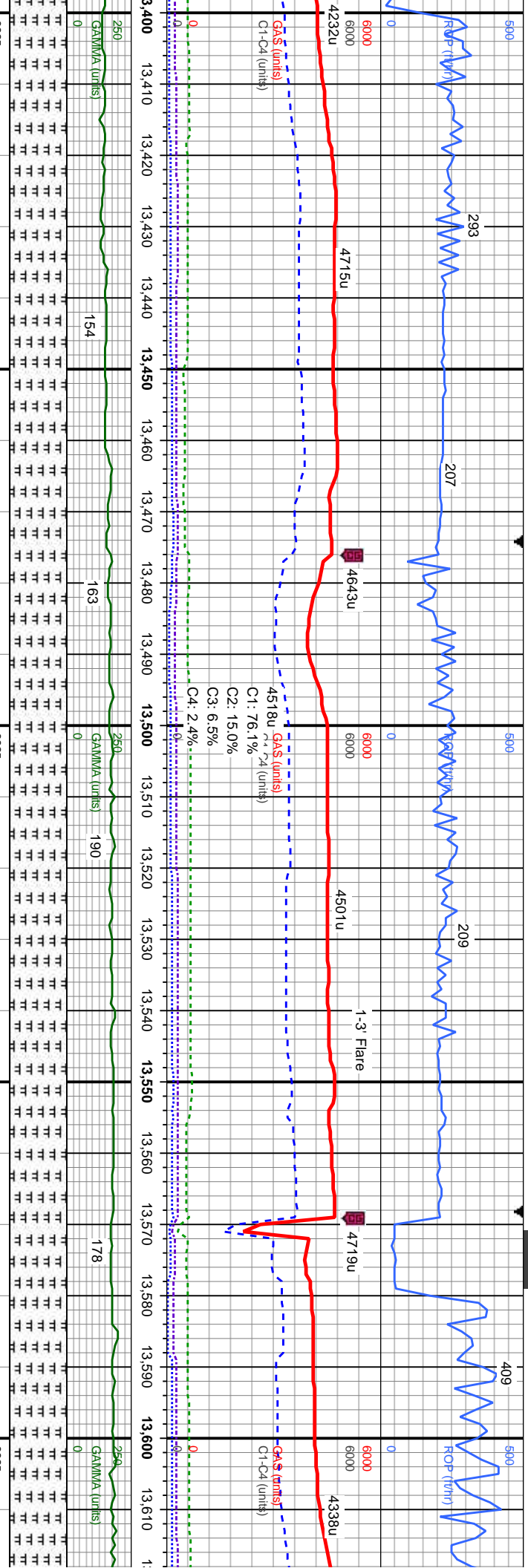
MD: 13.323
TVD: 6,872.62'
Inclination: 90.2°
Azimuth: 177.9°
VS: 6.207, 37'

sb blk-y-sb ply, firm,
ant, bishwn slow stmg
even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, firm,
rthy -sl sily, arg, v calc; abnt bent, bishwn slow stmg
cut with mod gn - yel thk and even resd

MD: 13.323
TVD: 6,872.62'
Inclination: 90.2°
Azimuth: 177.9°
VS: 6.207, 37'





100% MRLST: med-dk gy - blk, sb blk-y-sb pty firm, rthy -sl stly, arg, v calc; occ bent, bishwn slow stmg cut with mod gn - yel thk and even resd

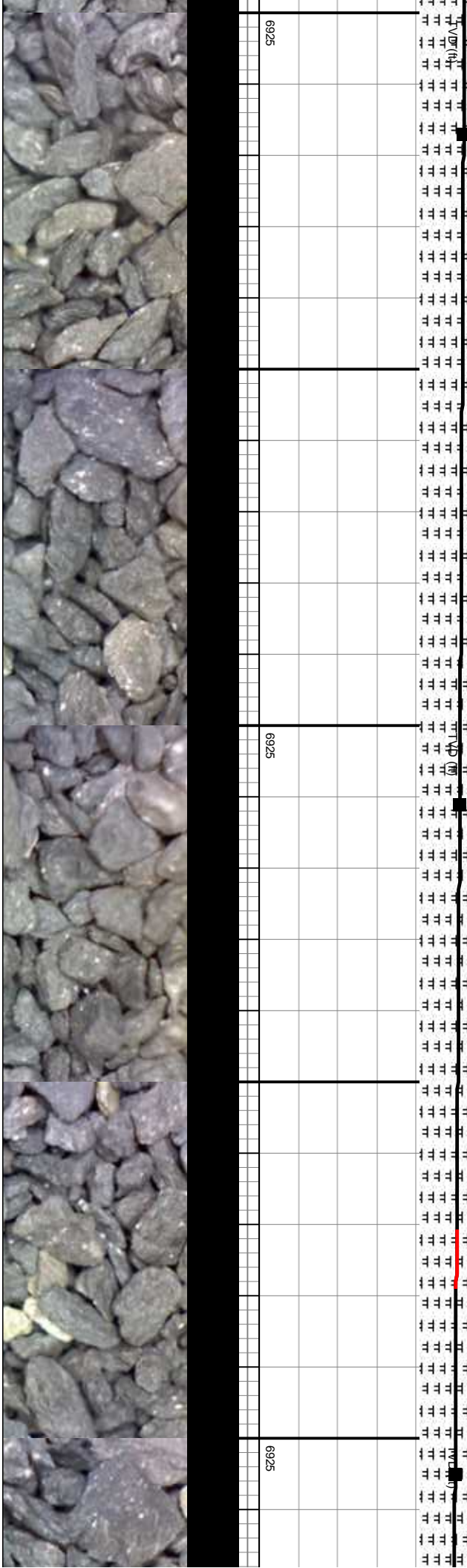
MD: 13.417'
TVD: 6,872.78'
Inclination: 89.6°
Azimuth: 180.4°
VS: 6.300.42

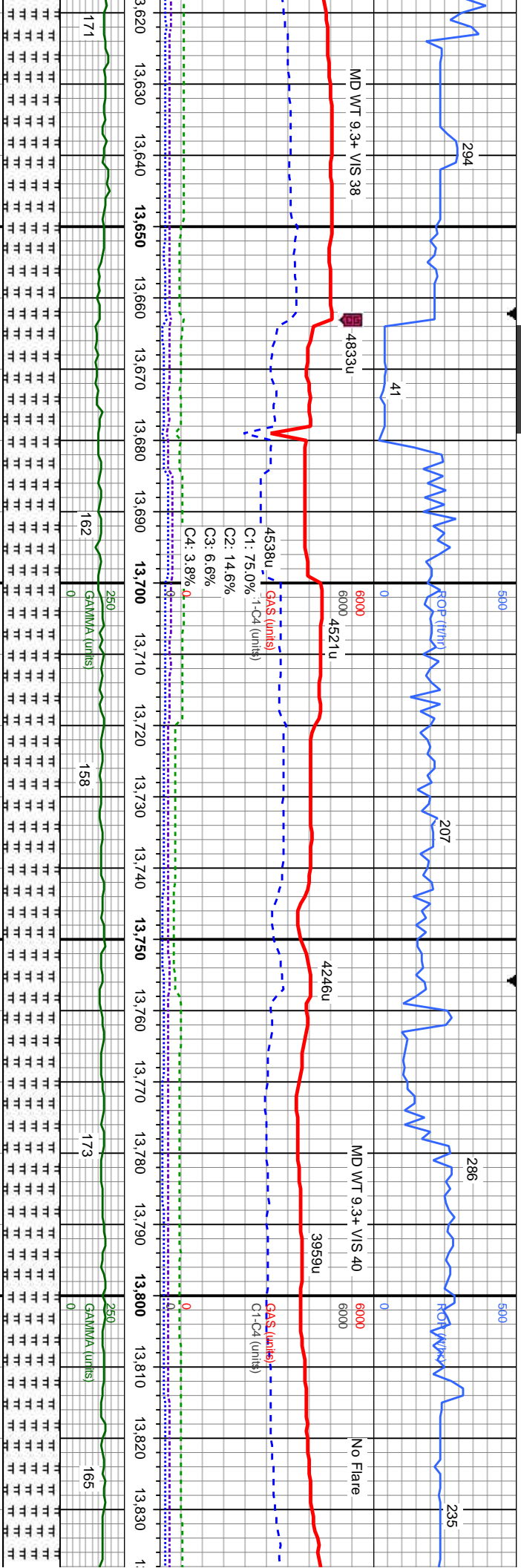
100% MRLST: med-dk gy - blk, sb blk-y-sb pty firm, rthy -sl stly, arg, v calc; occ bent, bishwn slow stmg cut with mod gn - yel thk and even resd

MD: 13.511'
TVD: 6,873.76'
Inclination: 89.2°
Azimuth: 179.7°
VS: 6.393.25

100% MRLST: med-dk gy - blk, sb blk-y-sb pty firm, rthy -sl stly, arg, v calc; occ bent, bishwn slow stmg cut with mod gn - yel thk and even resd

MD: 13.605'
TVD: 6,874.99'
Inclination: 89.3°
Azimuth: 180.2°
VS: 6.486.1





100% MRLST: med-dk gy - blk, sb blk-ly-sb ply, firm, rthy - sl sily, arg, v calc; occ bent, blshwh slow string cut with mod gn - yel thk and even resd

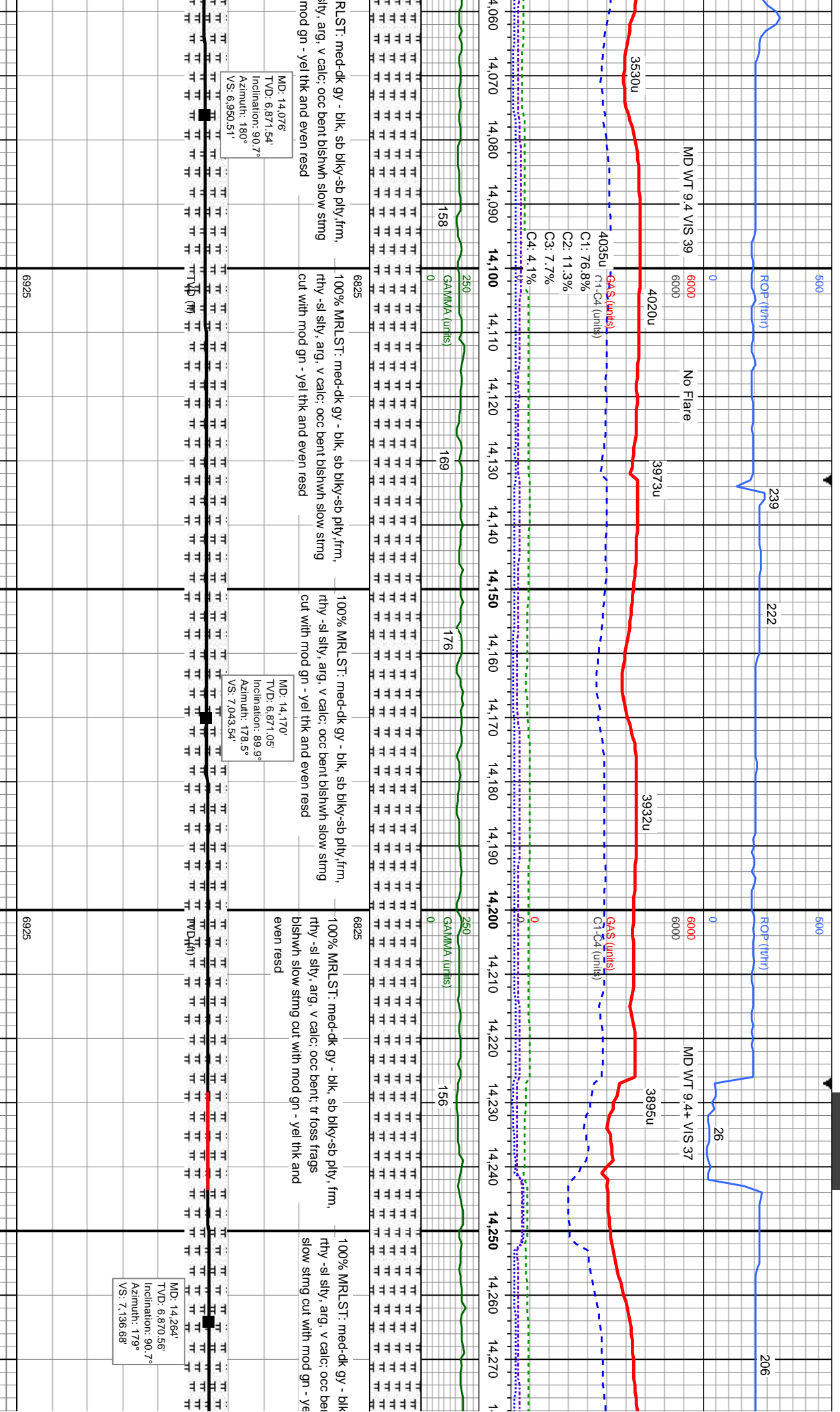
MD: 13.699'
TVD: 6.875.4'
Inclination: 90.2°
Azimuth: 181.1°
VS: 6.578.77

100% MRLST: med-dk gy - blk, sb blk-ly-sb ply, firm, rthy - sl sily, arg, occ sl mot, v calc; occ bent, blshwh slow string cut with mod gn - yel thk and even resd

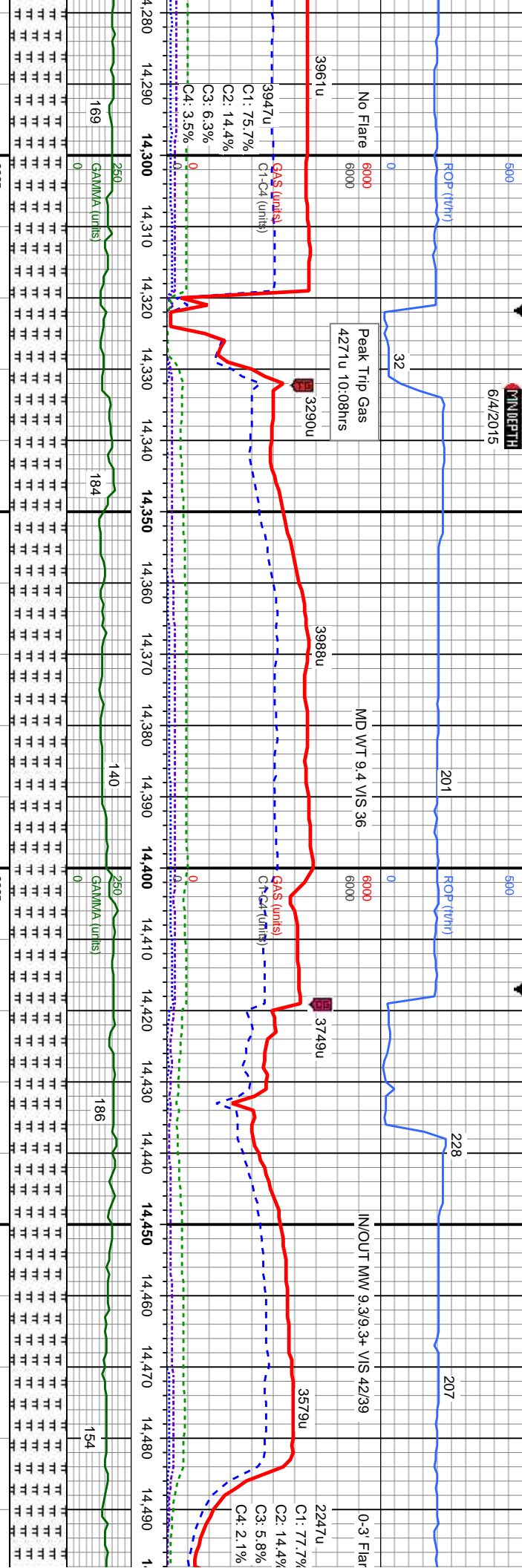
MD: 13.793'
TVD: 6.875.49'
Inclination: 89.7°
Azimuth: 180.8°
VS: 6.671.37

100% MRLST: med-dk gy - blk, sb blk-ly-sb ply, firm, rthy - sl sily, arg, occ sl mot, v calc; occ bent, blshwh slow string cut with mod gn - yel thk and even resd





DEPTH
6/4/2015



sb biky-sb ply, frm, it, tr fos frags bishwh thk and even resd	100% MRLST: med-ck gy - blk, sb biky-sb ply, frm, rthy - sl sily, arg, rr mot tex, v calc, abnd bent, abnt fos frags, tr pry, tr cal, bishwh slow sting cut with mod gn - yel thk and even resd	100% MRLST: med-ck gy - blk, sb biky-sb ply, frm, rthy - sl sily, arg, rr mot tex, v calc, abnd bent, abnt fos frags, tr pry, tr cal, bishwh slow sting cut with mod gn - yel thk and even resd	100% MRLST: med-ck gy - blk, sb biky-sb ply, frm, rthy - sl sily, arg, rr mot tex, v calc, com bent, tr fos frags, tr pry, tr chk, bishwh slow sting cut with mod gn - yel thk and even resd
6825	6825	6825	6825
169	184	140	186
250	250	250	250
GAMMA (units)	GAMMA (units)	GAMMA (units)	GAMMA (units)
0	0	0	0
14,280	14,290	14,300	14,310
14,320	14,330	14,340	14,350
14,360	14,370	14,380	14,390
14,400	14,410	14,420	14,430
14,440	14,450	14,460	14,470
14,480	14,490	14,500	14,510

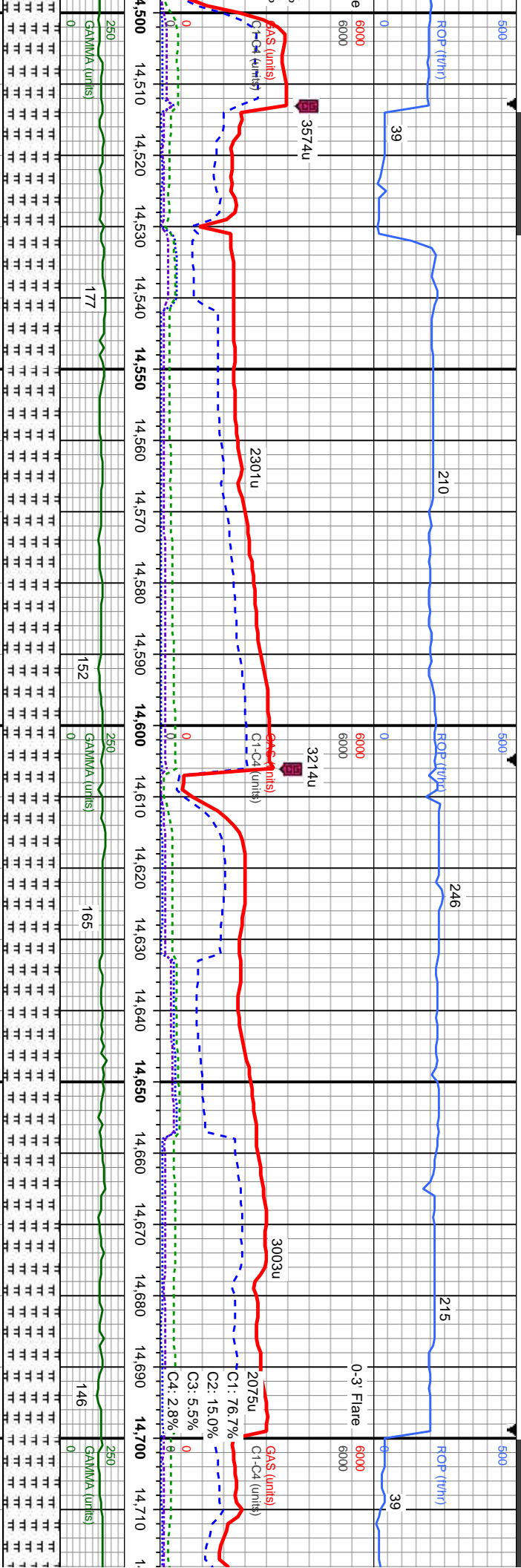
Short Trip 44 Stands: 14332 MD
on 6/3/2015 @ 17:53 HRS MDT
Resumed Drilling @ 12:40 HRS MDT 6/4/2015

MD: 14,360'
TVD: 6,869.38'
Inclination: 90.7°
Azimuth: 178.8°
VS: 7.231, 7.7

Mud Report 3PM
WT 9.3 SOLIDS 5.3%
VIS 39 OIL 1.4%
TEMP 98 WATER 93.4%
YP 9 SAND .3%
GEL 3/4 pH 8.8
API 5.8/1 Ca 60

MD: 14,454'
TVD: 6,868.24'
Inclination: 90.7°
Azimuth: 179.9°
VS: 7.324, 7.7





100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl silty, arg, rr mot tex, v calc; occ bent, tr fos frags, tr pyr, tr chk, blshwn slow string cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl silty, arg, v rr mot tex, v calc; occ bent, tr fos frags, tr pyr, tr cal incl, blshwn slow string cut with mod gn - yel thk and even resd

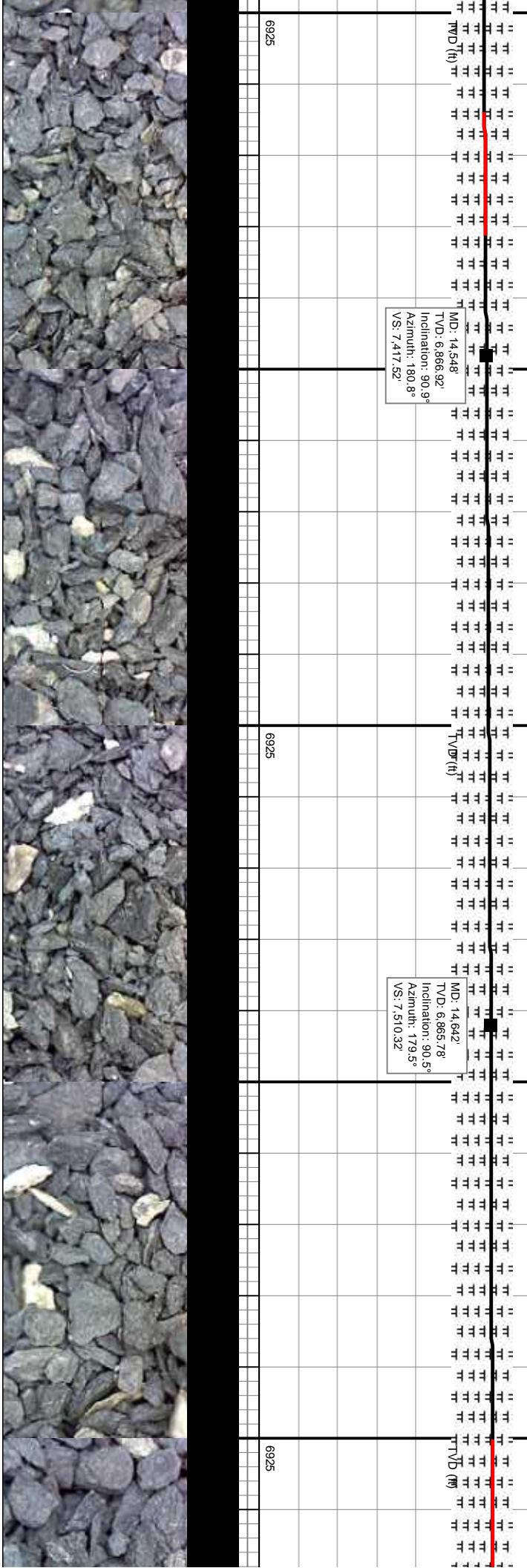
100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl silty, arg, v rr mot tex, v calc; occ bent, tr fos frags, tr pyr, blshwn slow string cut with mod gn - yel thk and even resd

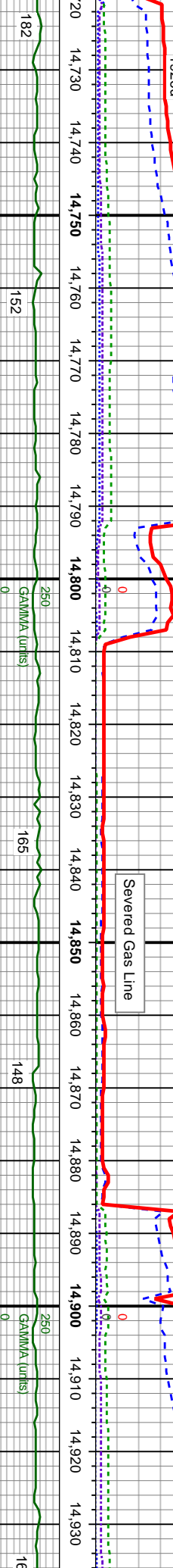
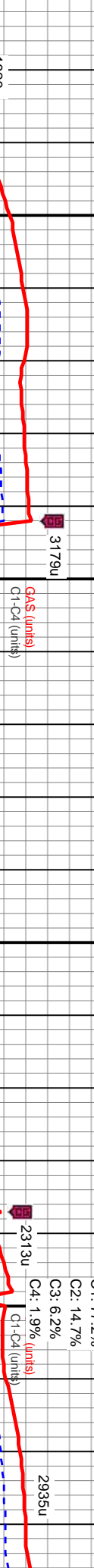
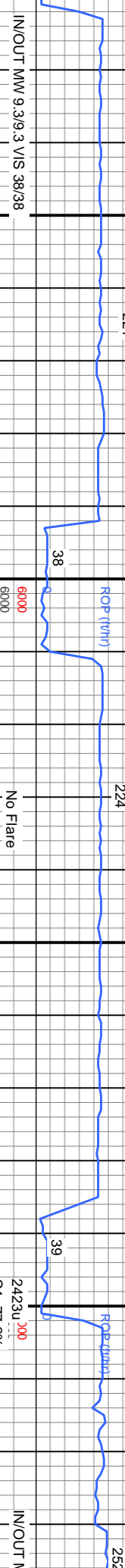
100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl silty, arg, rr mot tex, v calc; occ bent, tr fos frags, tr pyr, blshwn slow string cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm, rthy -sl silty, arg, rr mot tex, v calc; occ bent, tr fos frags, tr pyr, blshwn slow string cut with mod gn - yel thk and even resd

MD: 14.548
TVD: 6.866.92
Inclination: 90.9°
Azimuth: 180.8°
VS: 7.417.52

MD: 14.642
TVD: 6.865.78
Inclination: 90.5°
Azimuth: 179.5°
VS: 7.510.32





100% MRLST: med-dk gy - blk, sb blk-y-sb pily, frm, rthy -sl sily, arg, v calc; occ bent, tr cal incl, rr chk, bishwh slow sting cut with mod gn - gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb pily, frm, rthy -sl sily, arg, v calc; occ bent, occ fos frags, bishwh slow sting cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb pily, frm, rthy -sl sily, arg, v calc; occ bent, occ fos frags, bishwh slow sting cut with mod gn - yel thk and even resd

100% MRLST: med-dk gy - blk, sb blk-y-sb pily, frm, rthy -sl sily, arg, v calc; occ bent, rr cal incl, rr chk, bishwh slow sting cut with mod gn - yel thk and even resd

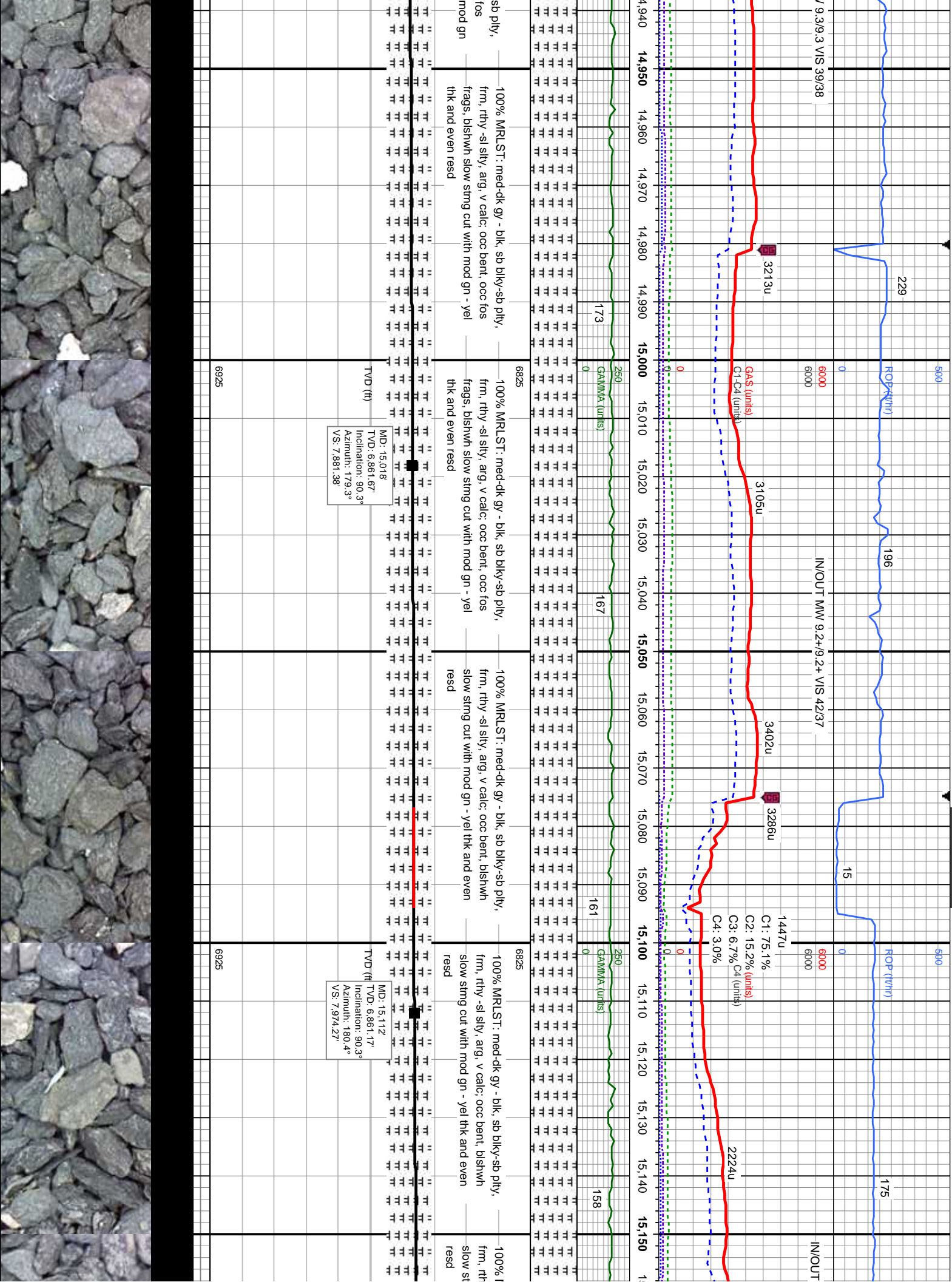
MD: 14.735'
TVD: 6.866.29'
Inclination: 90.1°
Azimuth: 180.2°
VS: 7.602.21'

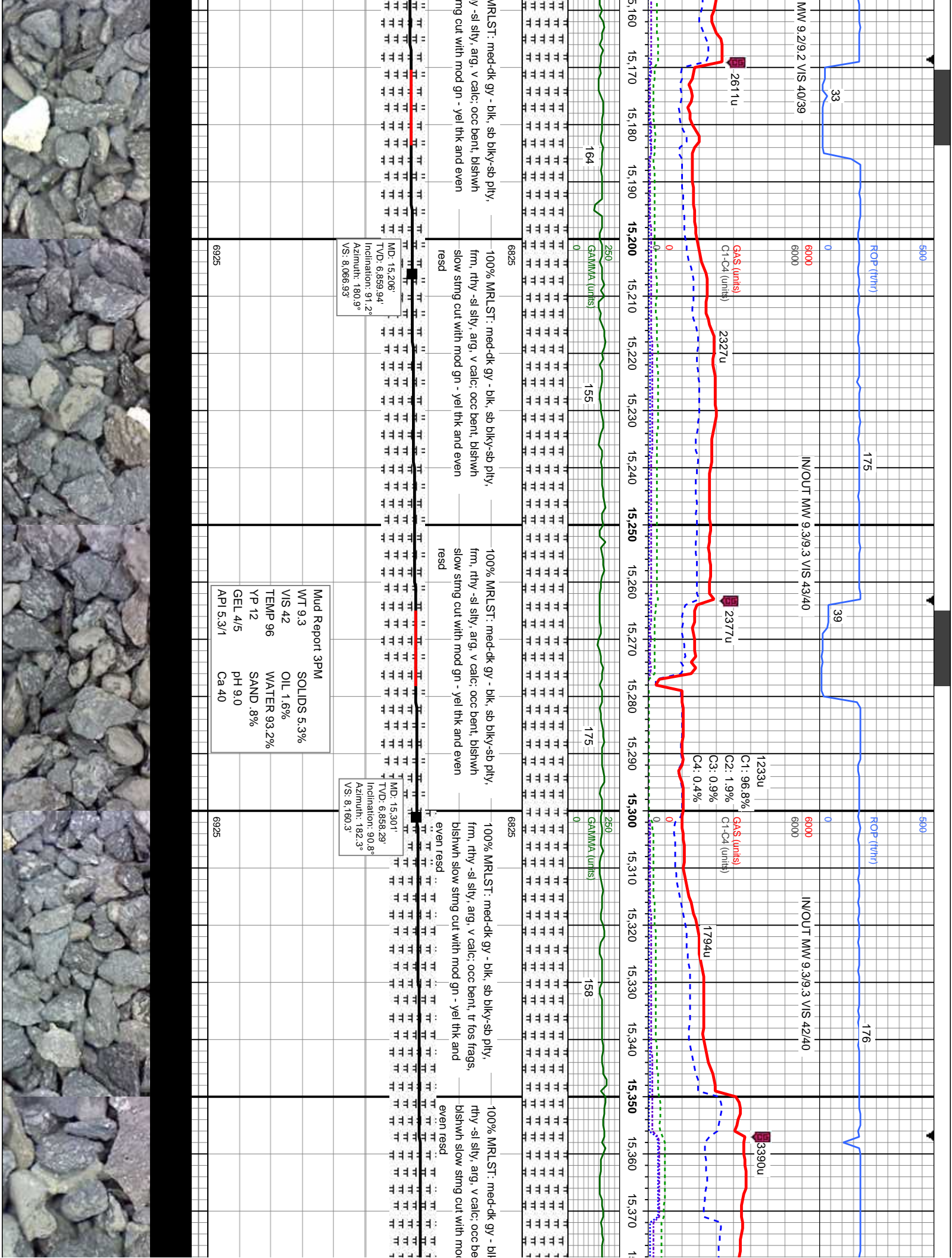
MD: 14.830'
TVD: 6.864.13'
Inclination: 91.3°
Azimuth: 180.6°
VS: 7.695.93'

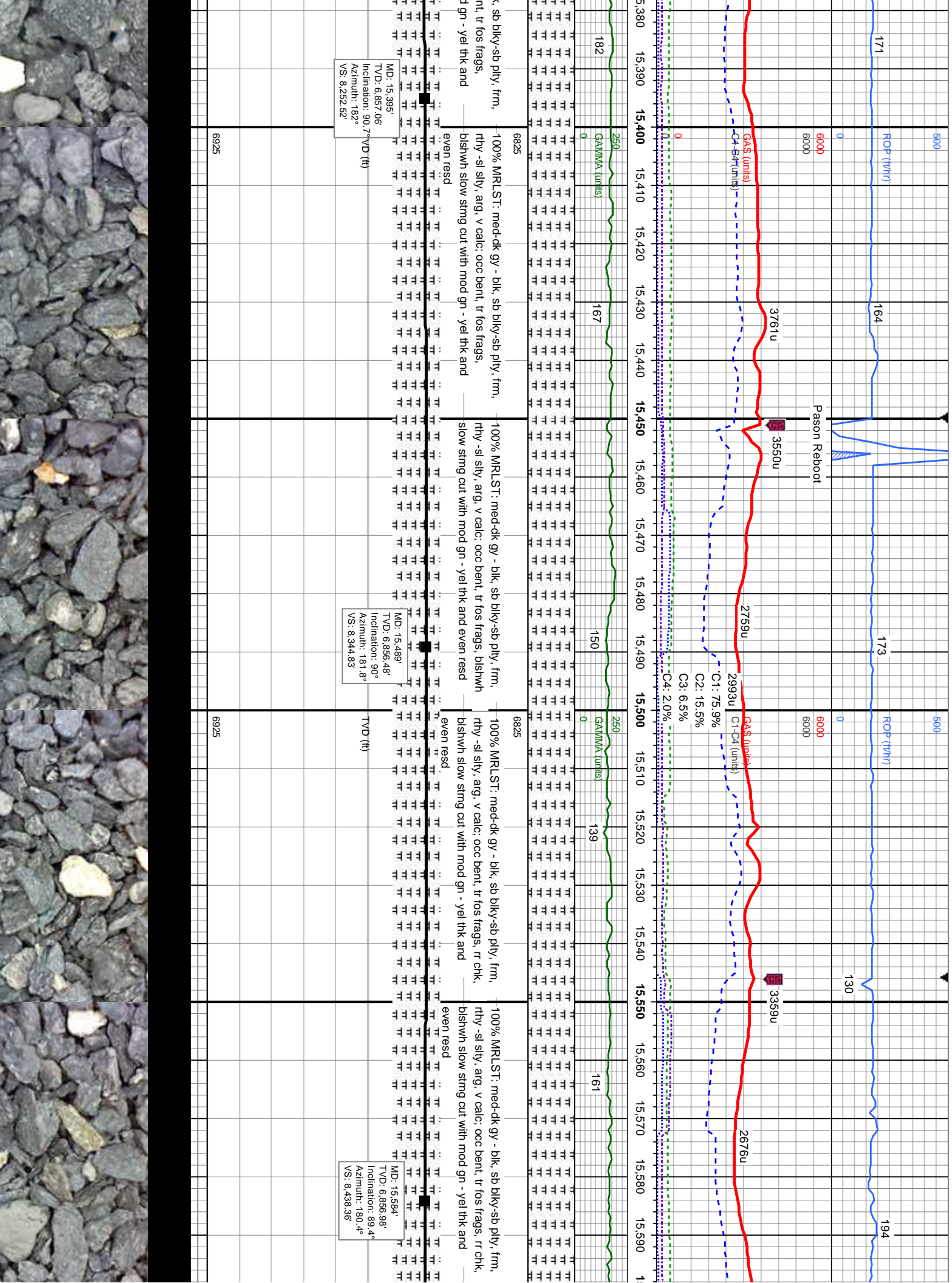
Mud Report 3AM
WT 9.3 SOLIDS 5.2%
VIS 37 OIL 1.5%
TEMP 103 WATER 93.4%
YP 8 SAND .2%
GEL 3/4 pH 9.1
API 5.8/1 Ca 40

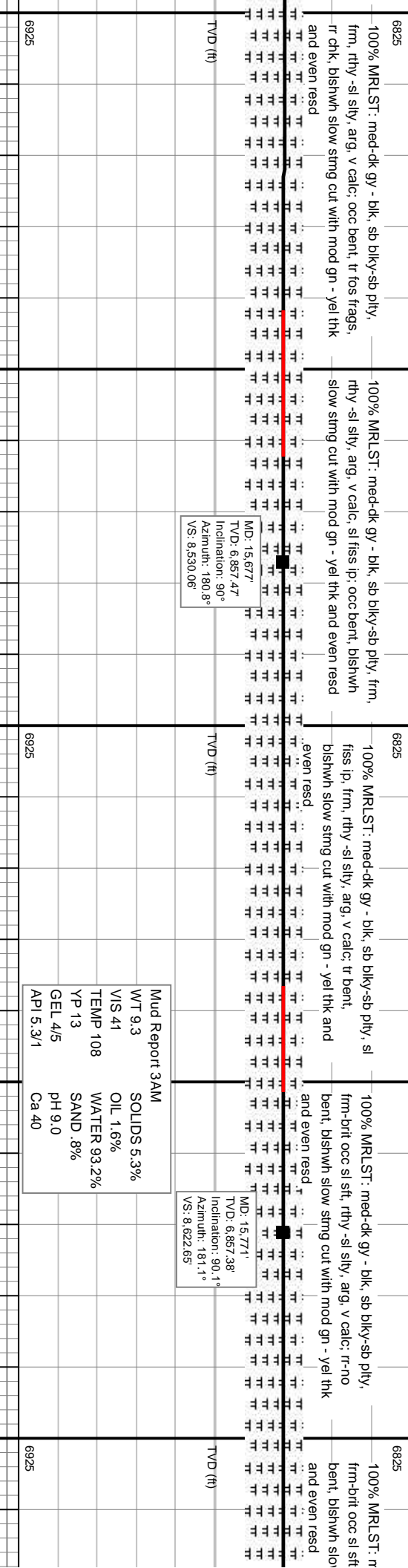
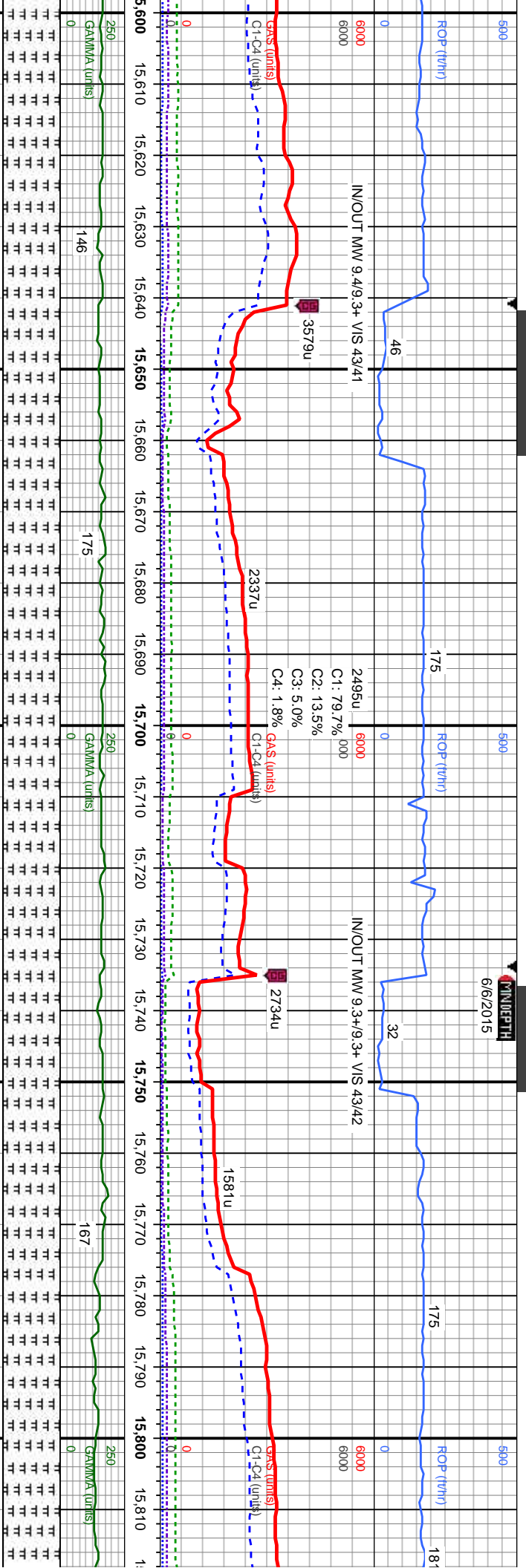
MD: 14.924'
TVD: 6.862.49'
Inclination: 90.7°
Azimuth: 180.9°
VS: 7.788.57'

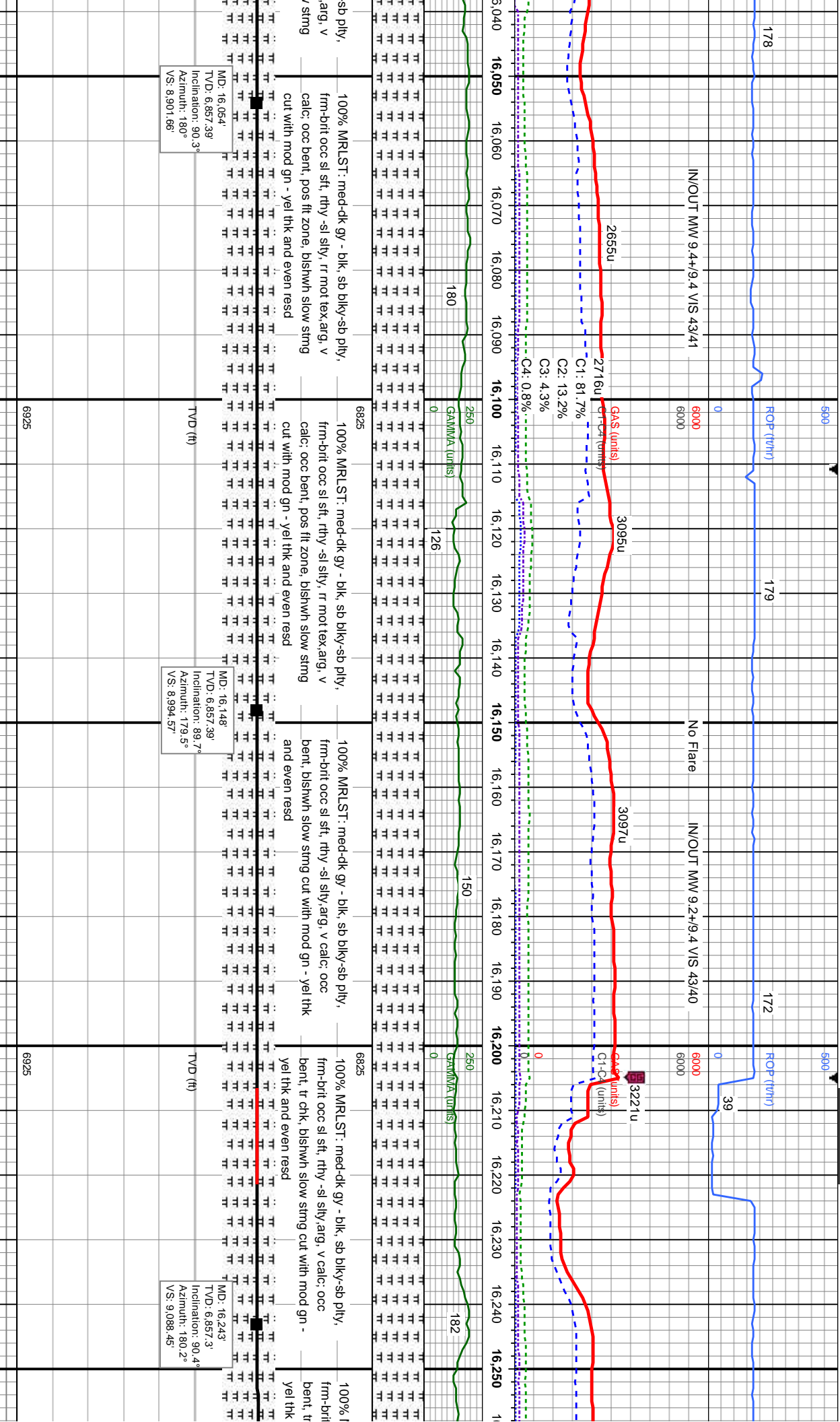




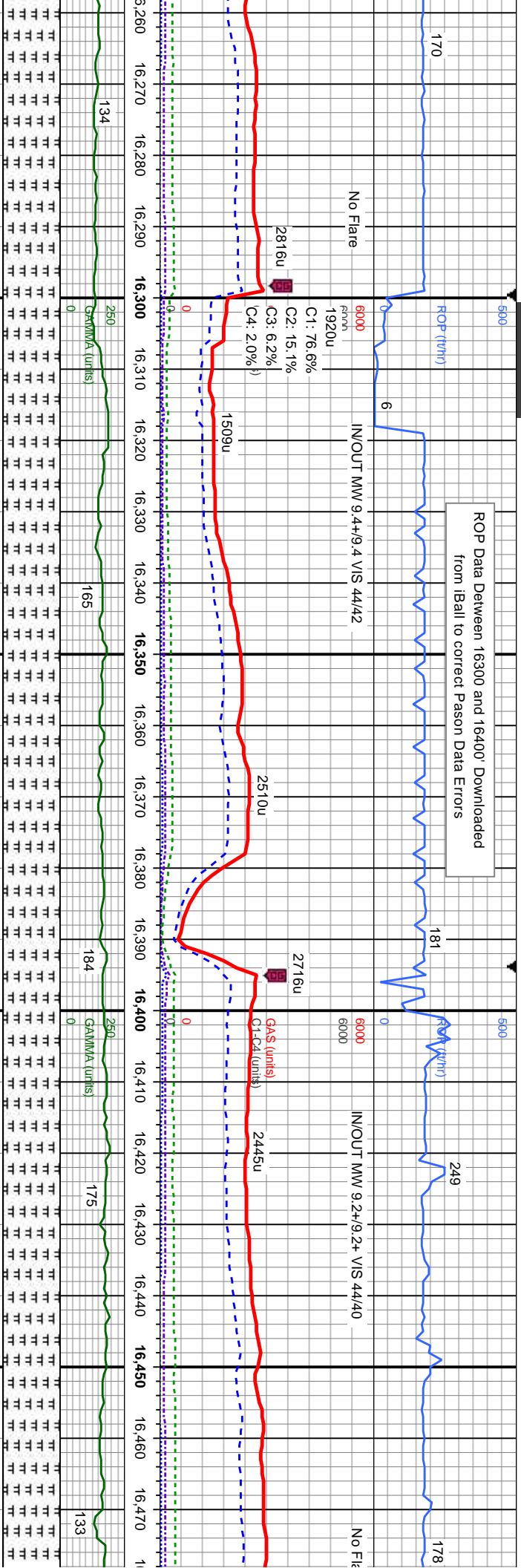








ROP Data Between 16300 and 16400' Downloaded
from iBall to correct Pason Data Errors



6825 100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm-brit occ sl sft, rthy -sl sily,arg, v calc; occ bent, tr chk, bishwh slow sting cut with mod gn - yel thk and even resd

6825 100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm-brit occ sl sft, rthy -sl sily,arg, v calc; occ bent, tr chk, bishwh slow sting cut with mod gn - yel thk and even resd

6825 100% MRLST: med-dk gy - blk, sb blk-y-sb ply, frm-brit occ sl sft, rthy -sl sily,arg, v calc; occ bent, tr chk, bishwh slow sting cut with mod gn - yel thk and even resd

TVD (ft)

MD: 16.337'
Inclination: 90.9°
Azimuth: 181.1°
VS: 9.181.11'

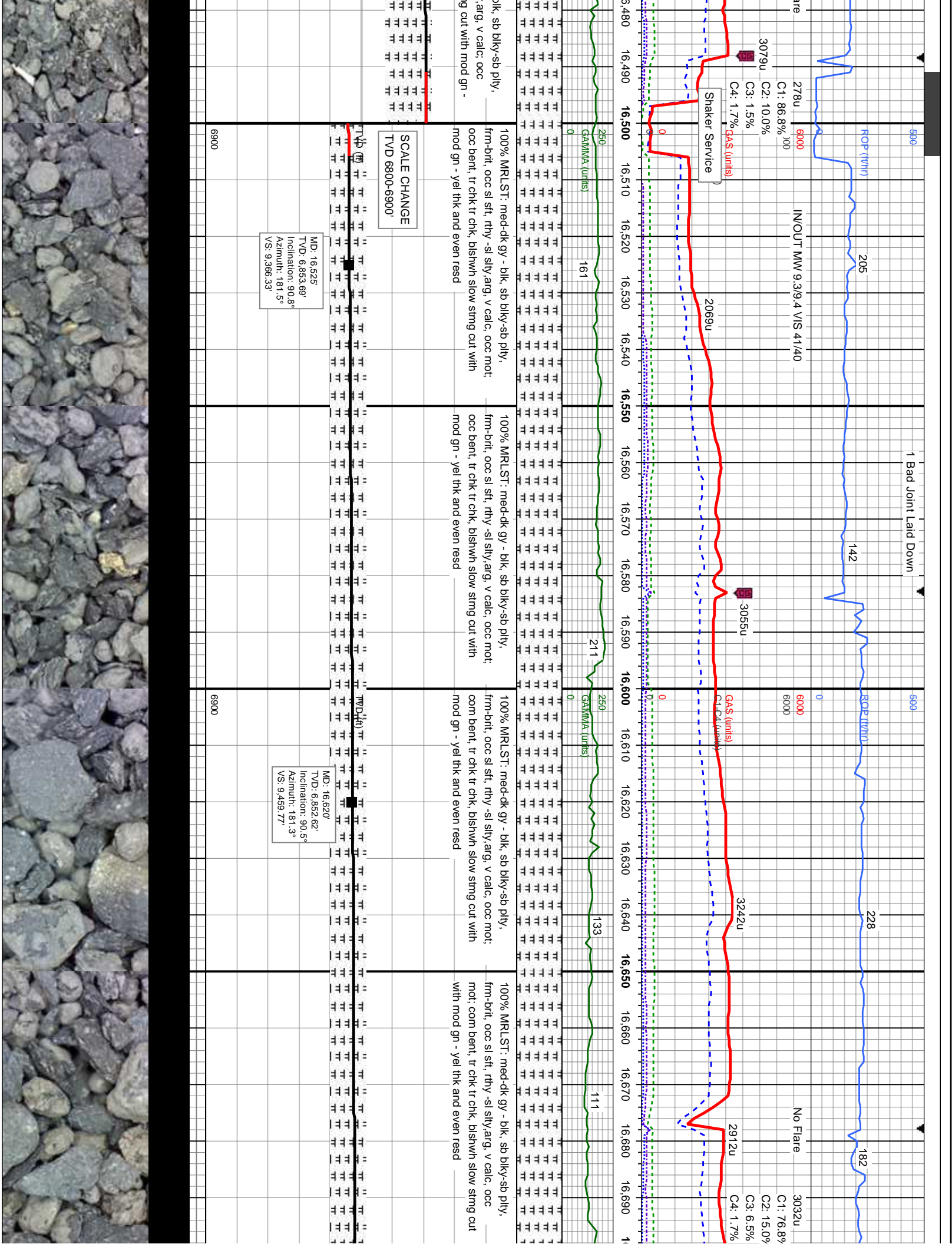
TVD (ft)

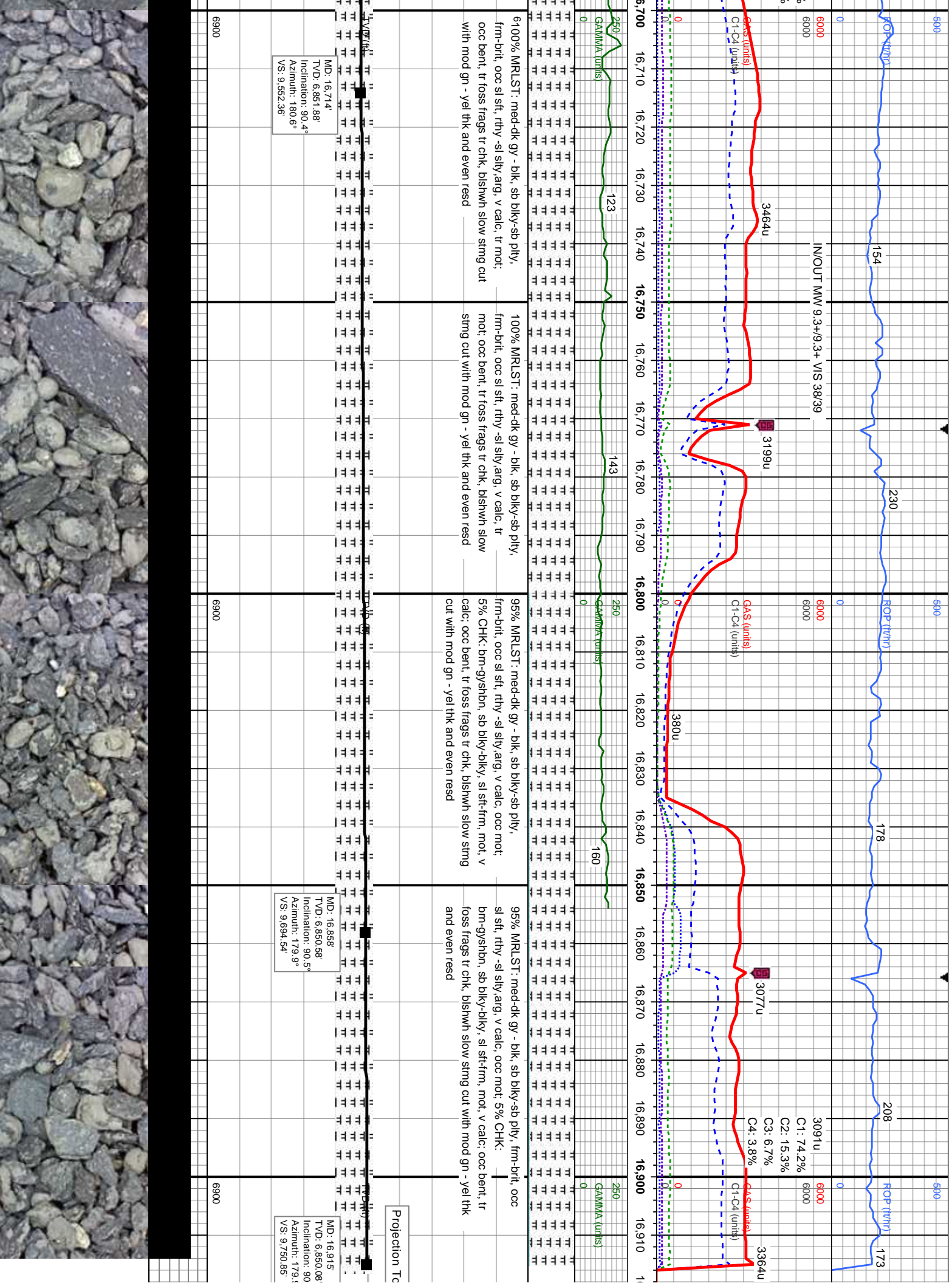
MD: 16.431'
Inclination: 90.7°
Azimuth: 180.4°
VS: 9.273.75'

6925

6925







TD @ 16,915' MD
20:40HRS MDT 6/6/2015

Thank You For Using
Columbine Logging Inc.

16,920	16,930	16,940	16,950
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Bit

9.5.

[illegible]