



Empirica

Scale: 5" / 100'
Measured Depth Log

Well Name Thornton6_Lat_Extraction.mplot

Location Sec 8-T7N-R66W

State CO

County Weld

Country USA

Rig Number HP280

API Number 05 123 4026900

AFE # 14-219

Region DJ Basin

Field Wattenberg

Spud Date 2/4/2015

Drilling Completed 2/17/2015

Surface Coordinates Lat: 40.585794

Long: -104.810368

N 1,456,990.87'

E 3,191,541.33'

Bottom Hole Coordinates 143.35 N
9720.17 E

Ground Elevation 5035'

K.B. Elevation 5059'

Logged Interval 6861' To 17,342'

Total Depth 17,342'

Formation Codell

Type of Drilling Fluid Water based mud

Operator

Company Extraction Oil & Gas

Address 1888 Sherman St., Suite 500
Denver, CO 80203

Geologist

Name Vivian Spliss

Company Extraction Oil & Gas

Address 1888 Sherman St., Suite 500
Denver, CO 80203

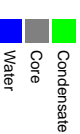
Other

Start Logging date: 02/05/2015

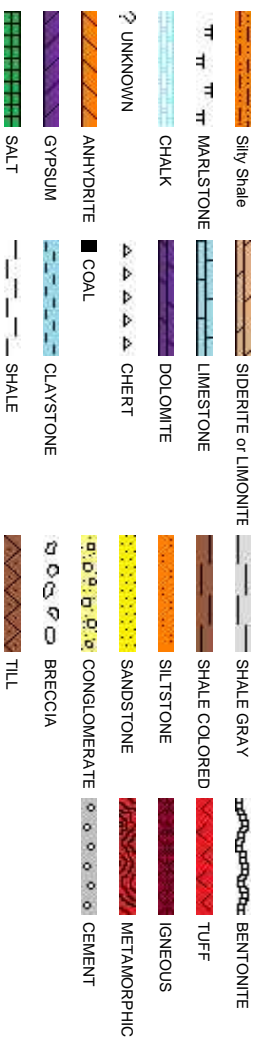
2 man logging service Hana Walchauseirova/ Ed

End logging date: 02/17/2015

Zone Color Coding

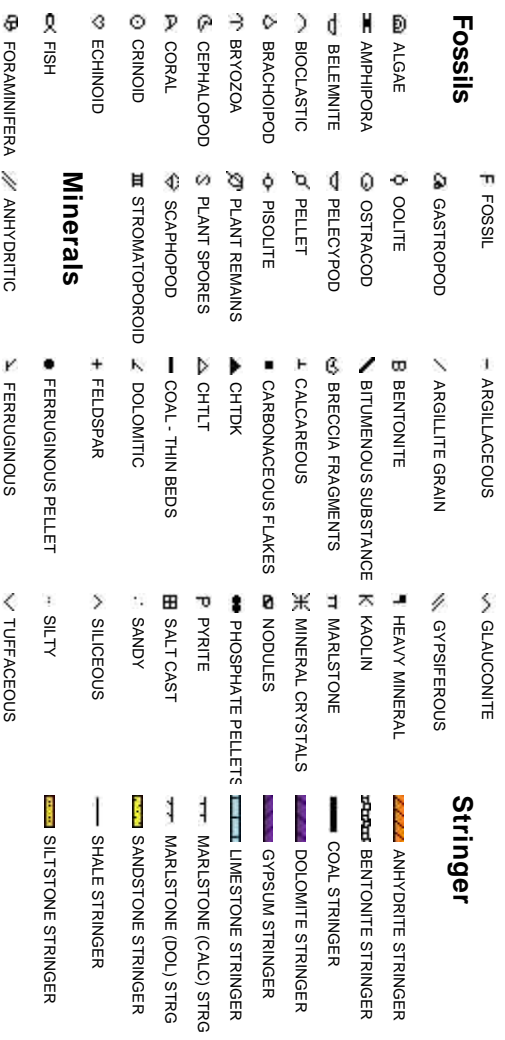


Rock Types



Accessories

Fossils

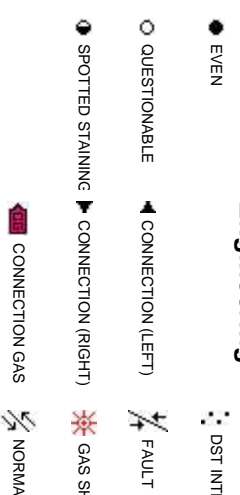


Other

Oil Show



Engineering



Porosity



Symbols

WIRELINE TESTED - RT L LITHOGRAPHIC

ASING **MX** MICROXLN

Rounding

M35 MUDSTONE

PS PACKSTONE ANGULAR RXJS NPM TYPESCRIPT ES6 ES7 ES8 ES9 ES10 ES11

R **ROUNDED** **W** **WACKSTONE**

HOW SUBANG

Sorting

SUBBRND

M MODERATE

Textures

P POOR

SE FAULT BS BOUNDSTONE W WELL

ALL CORE (LEFT) CHALKY

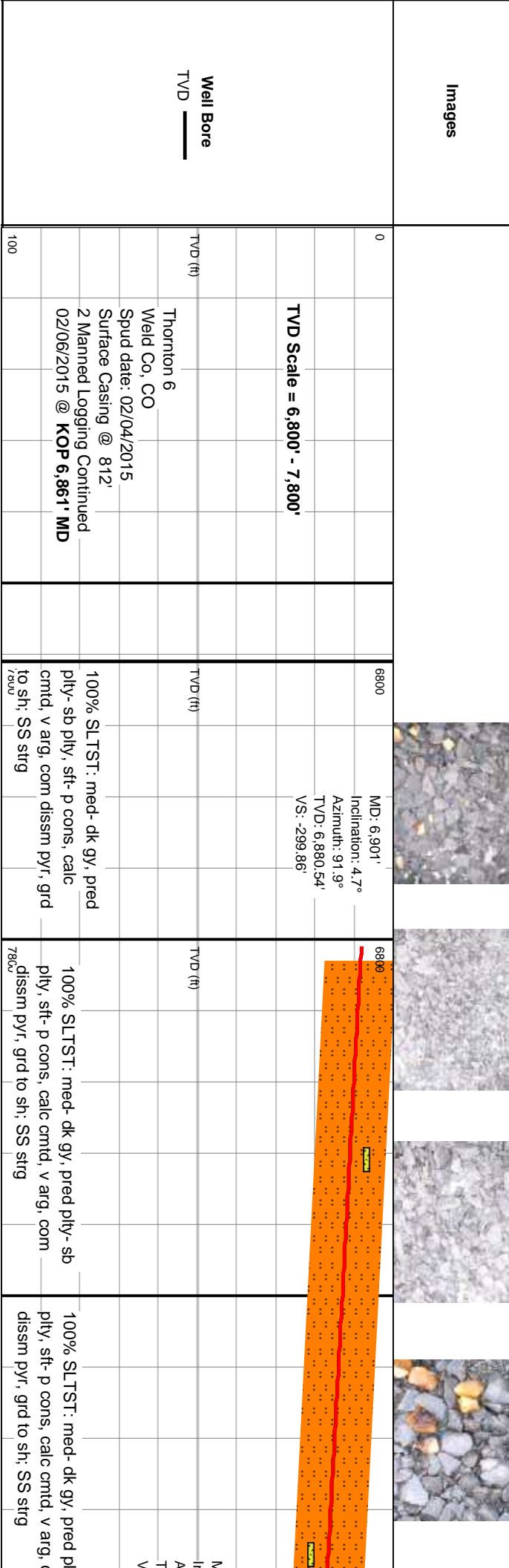
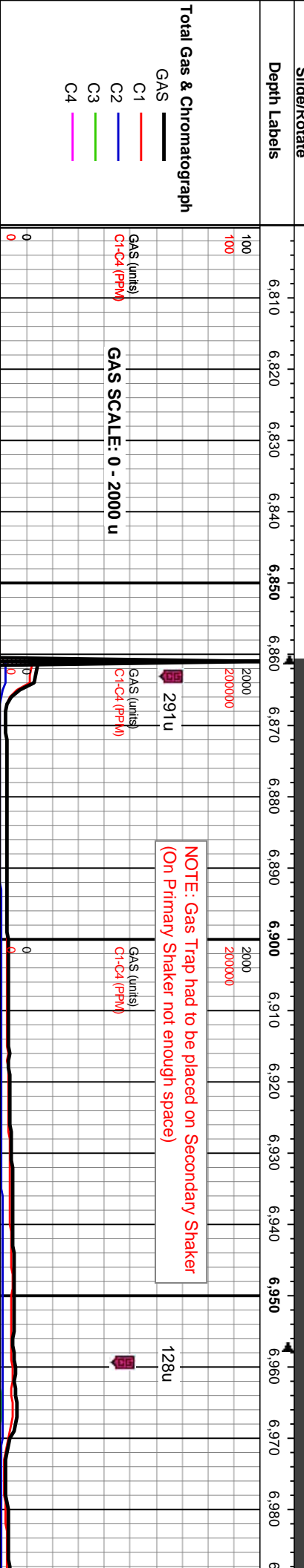
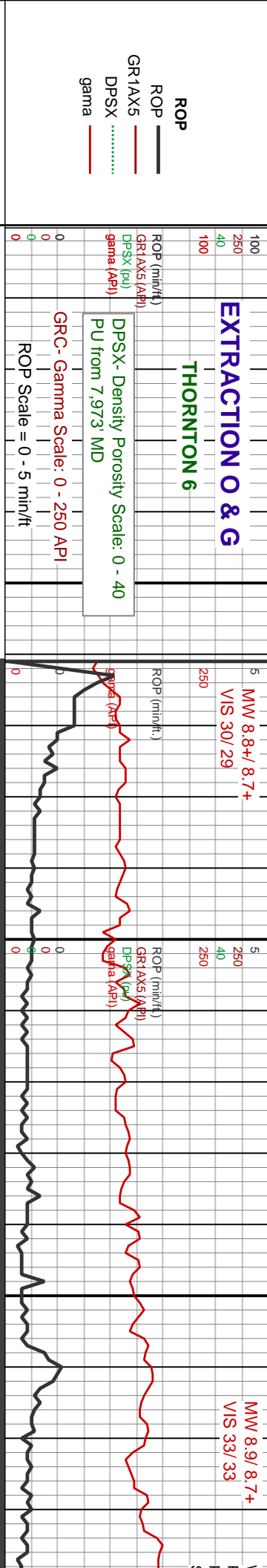
SILTY SHALE

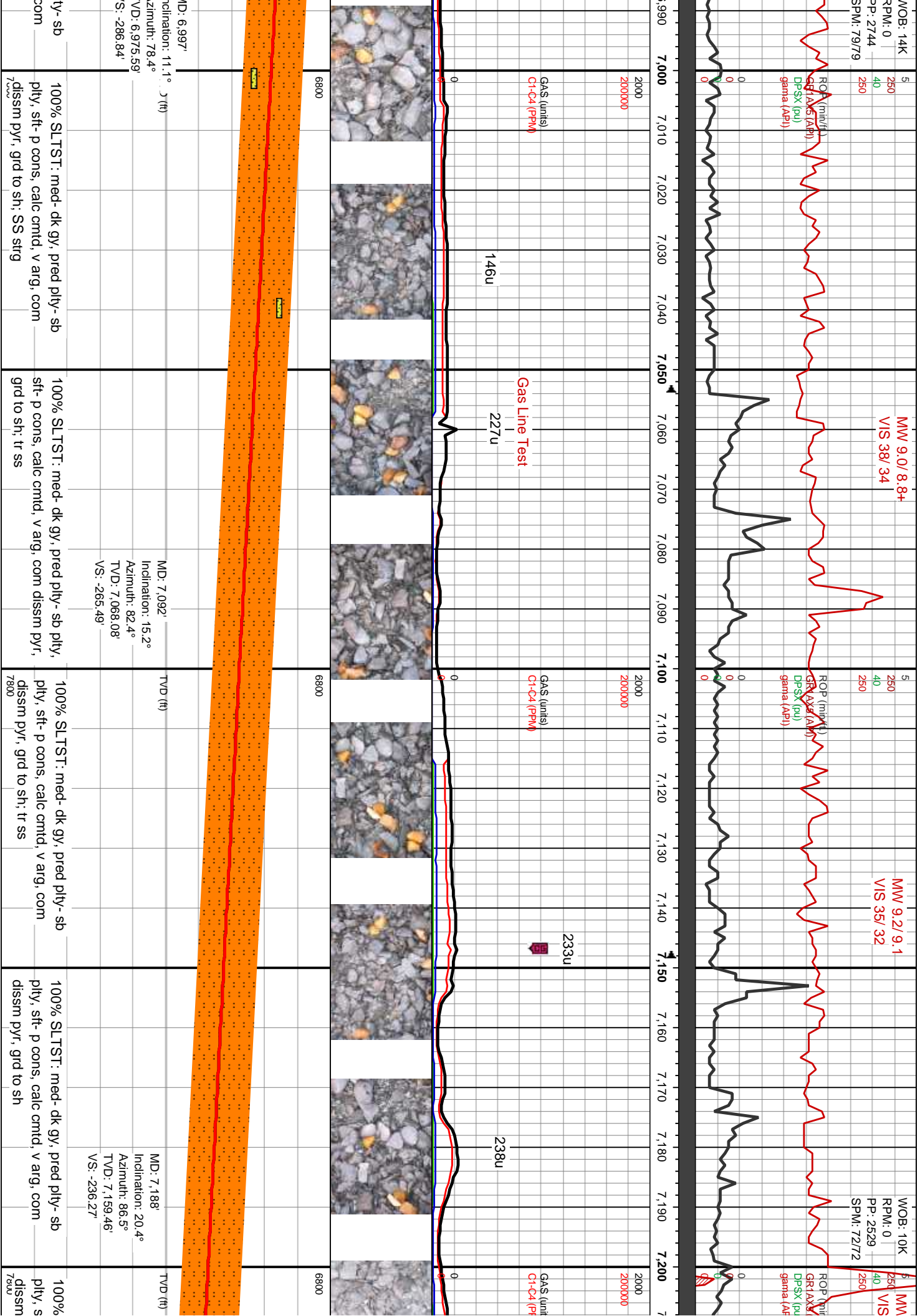
ALL CORE (RIGHT) ~~CX~~ CRYPTOXLN

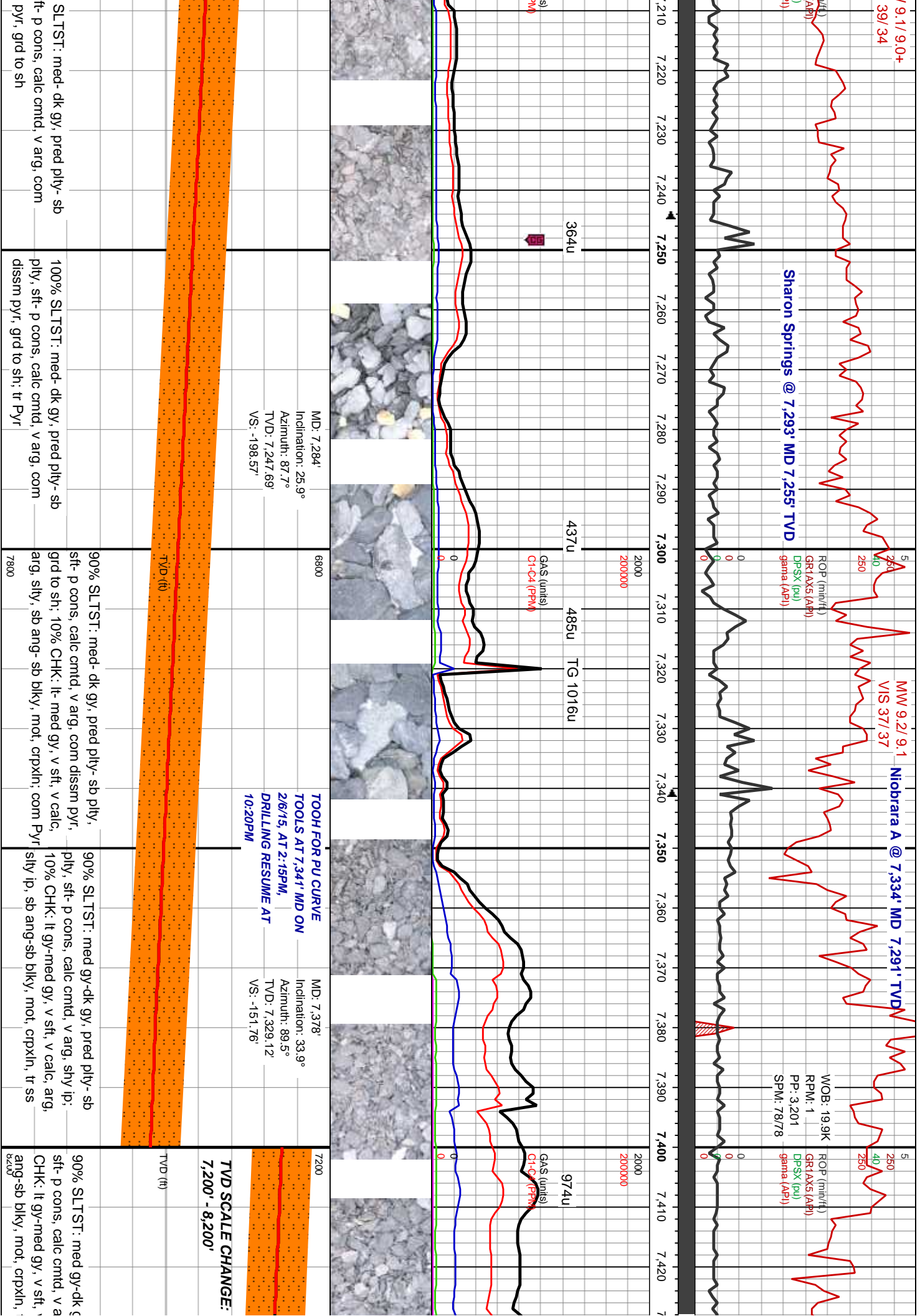
RECOVERED E EARTHY

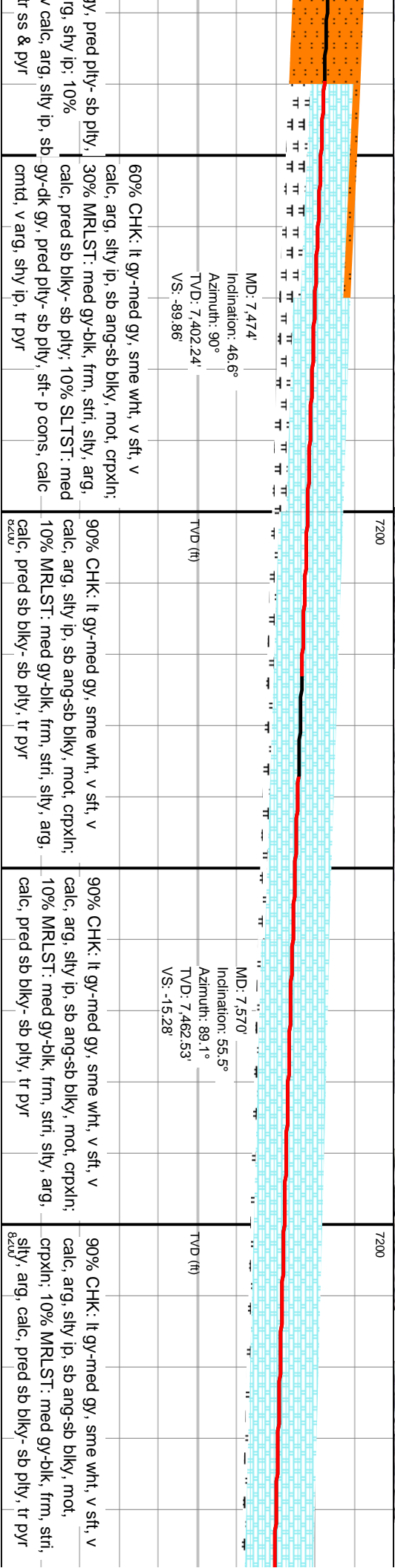
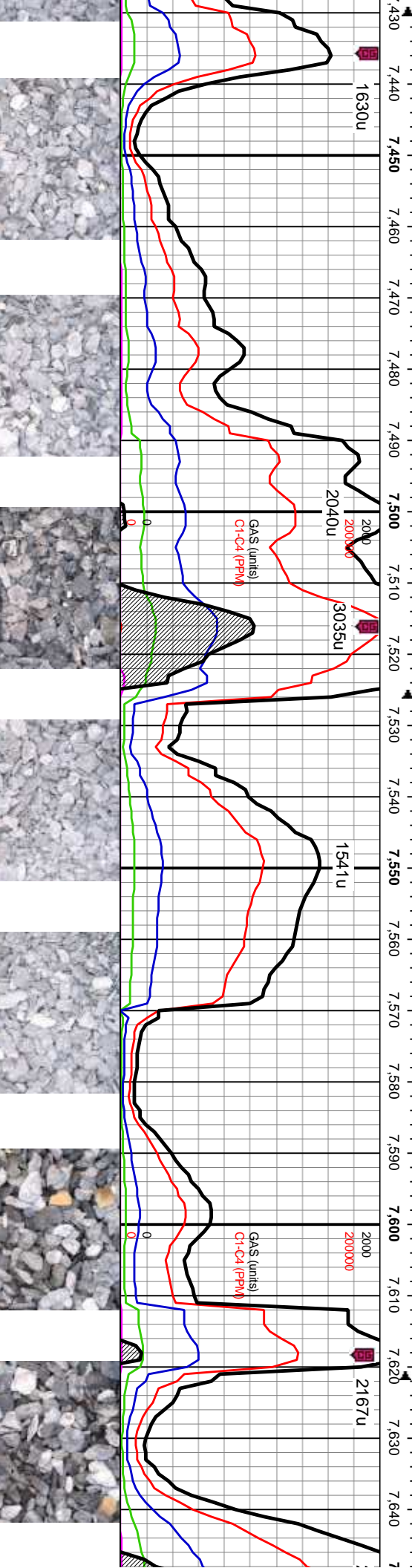
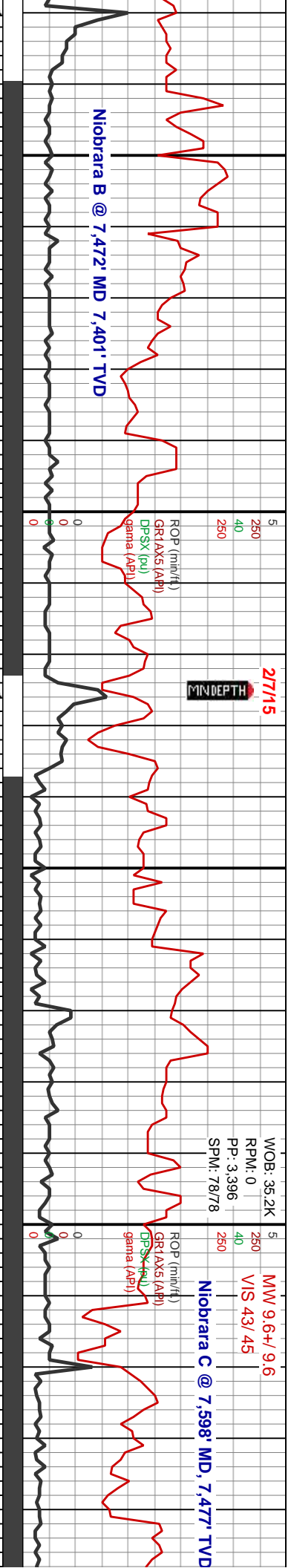
~~FX~~ FINELYXLN

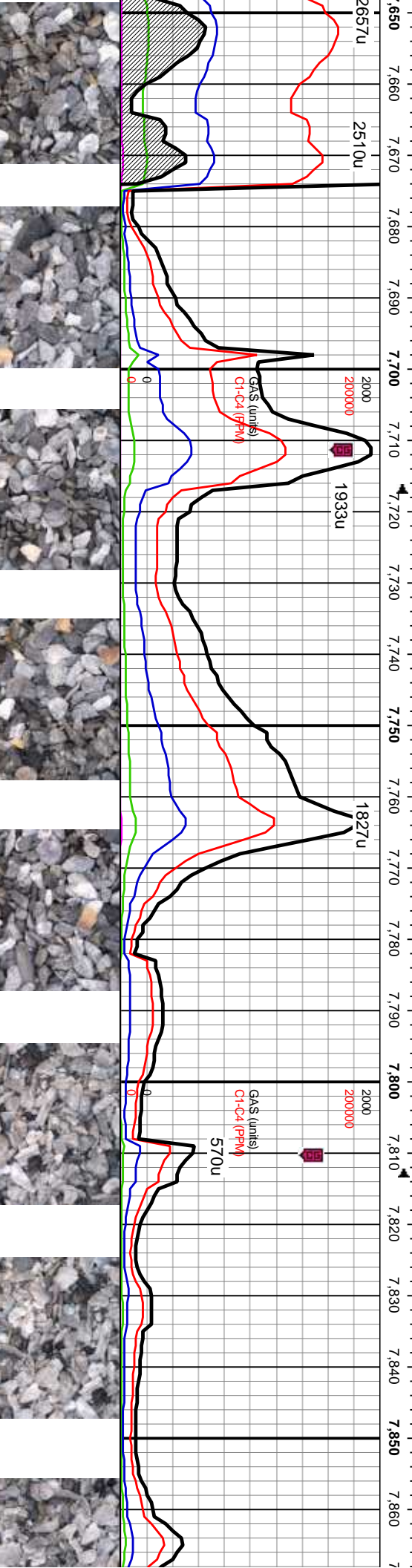
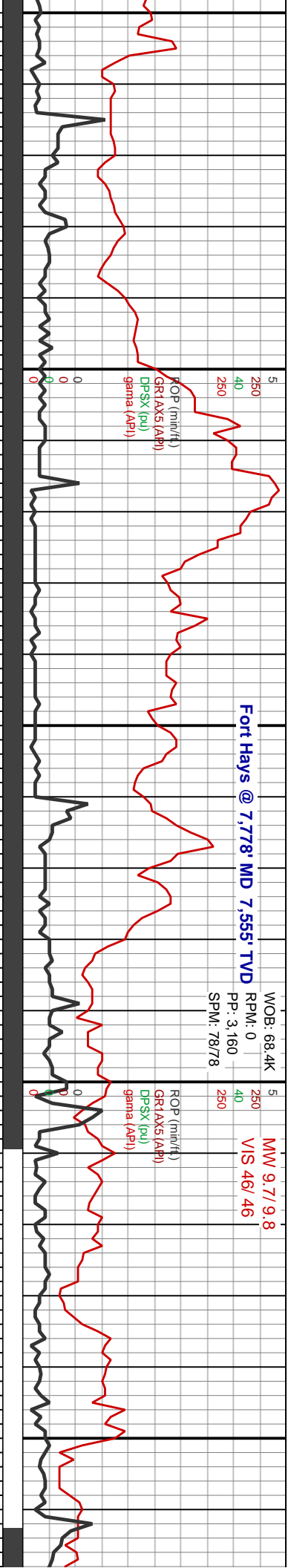
NE TESTED - LEFT 55 GRAINSTONE



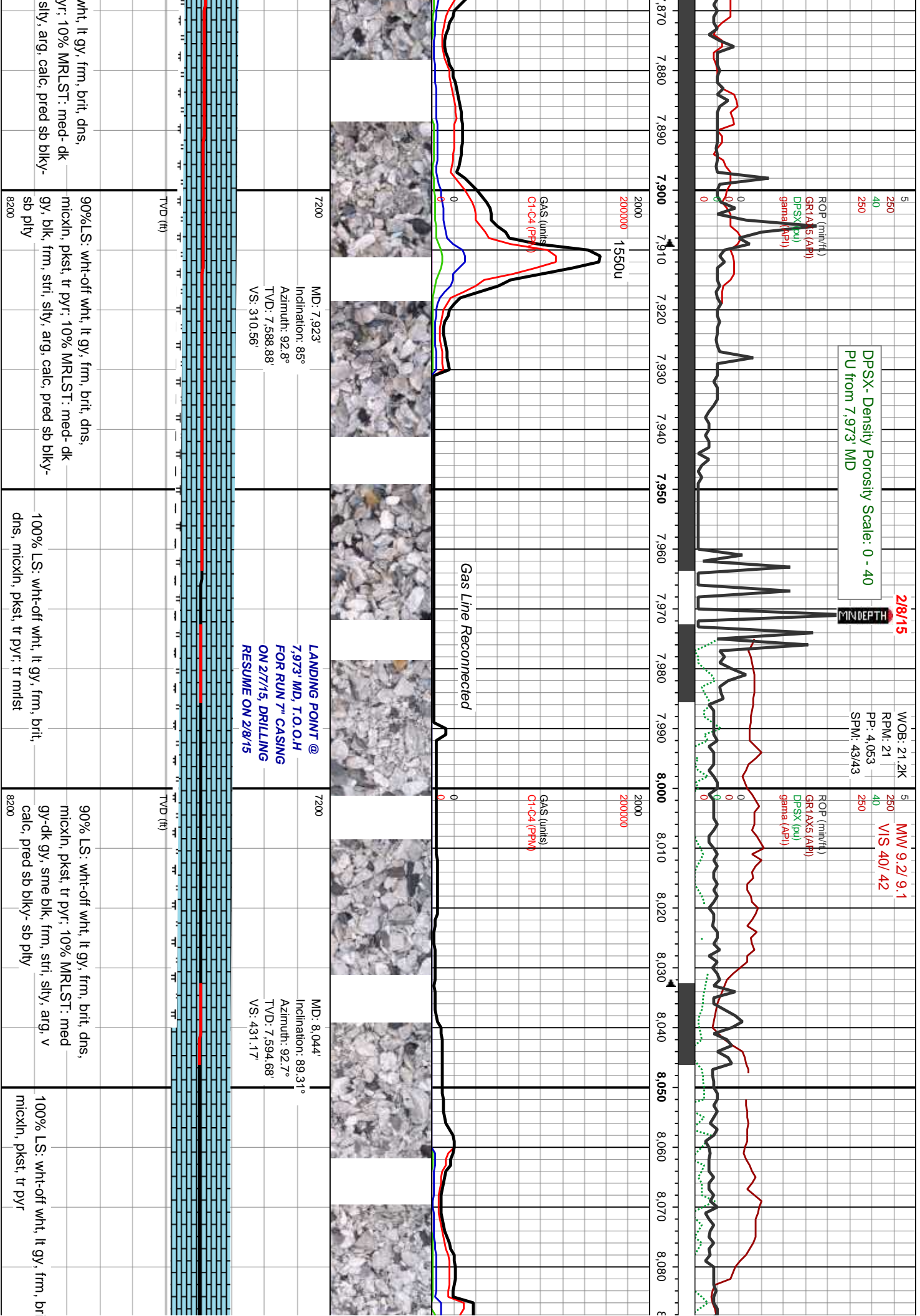


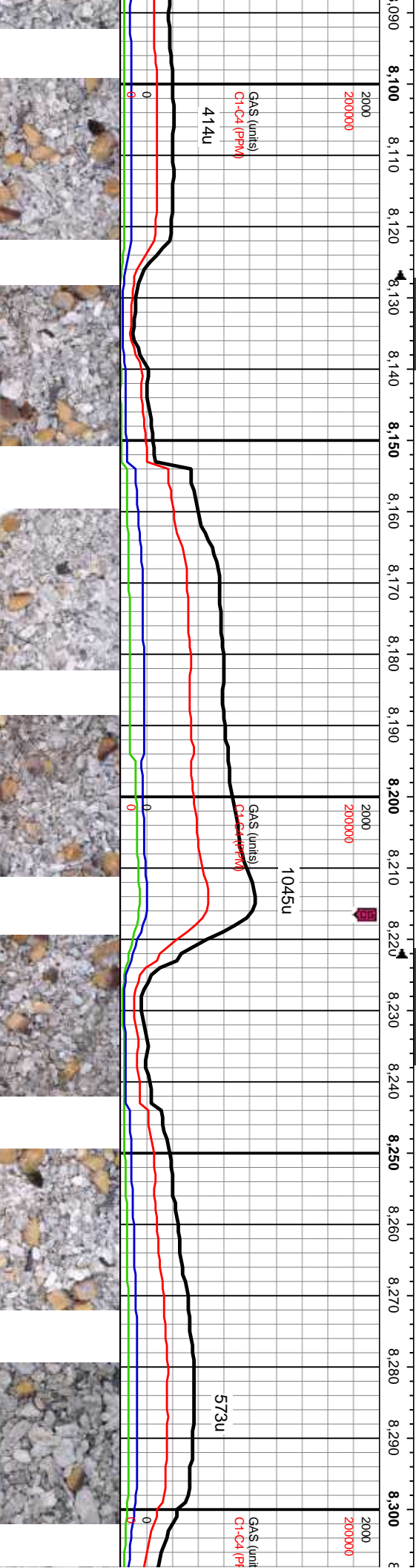
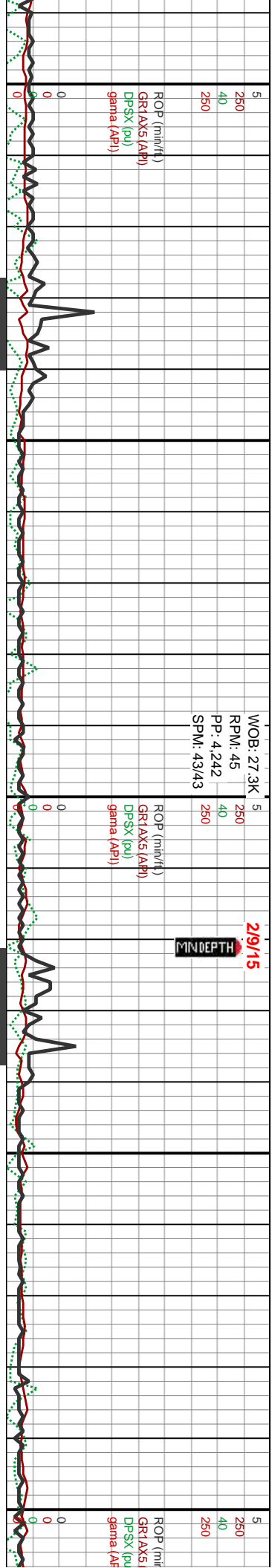






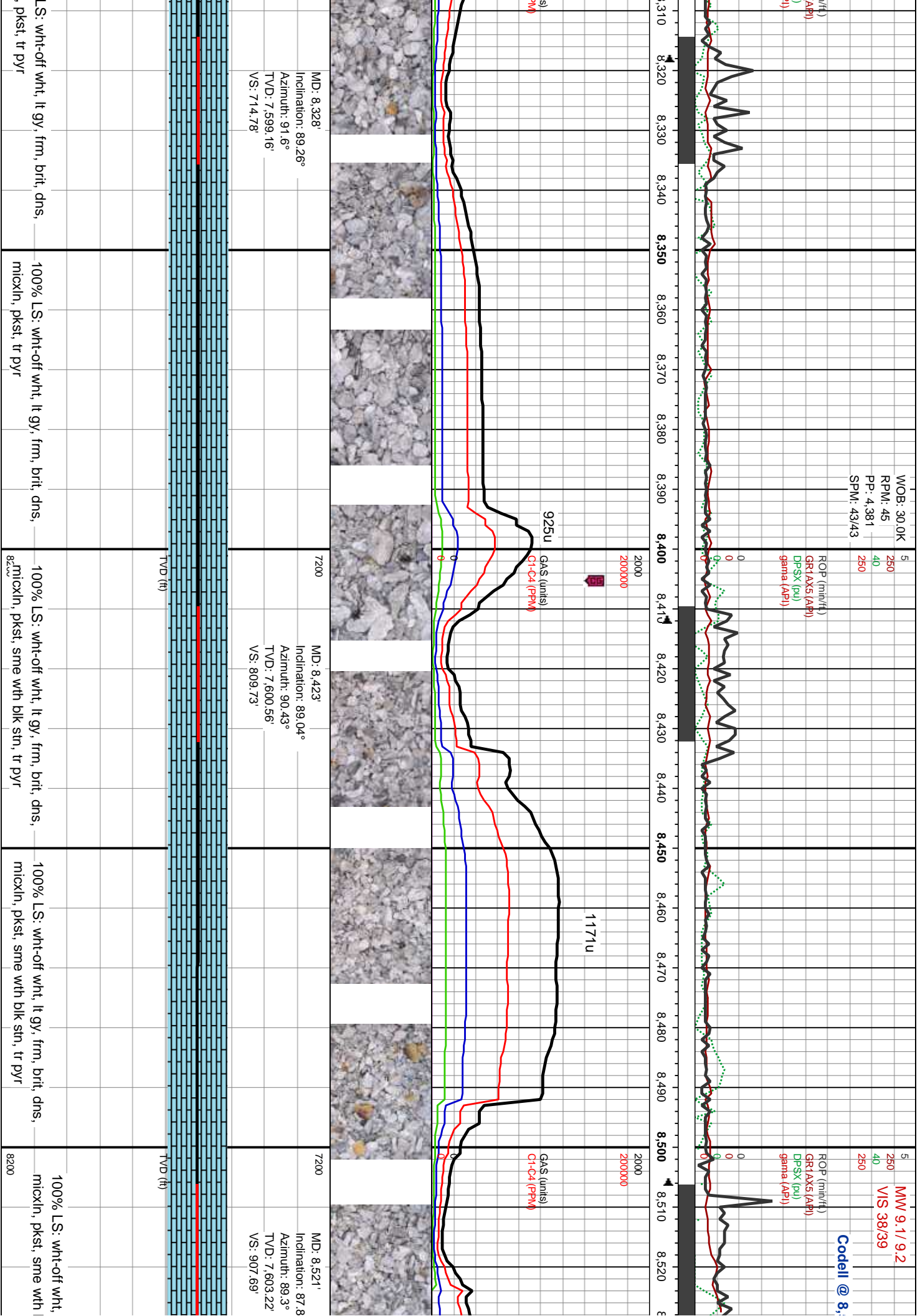
MD: 7.666' Inclination: 62.6° Azimuth: 86.7° TVD: 7.511.87' VS: 66.97'	TVD (ft)	95% CHK: lt gy-med gy, sme wht, v sft, v calc, arg, stly ip, sb ang-sb blk, mot, cpxln; 5% MRLST: med gy-blk, frm, stri, stly, arg, calc, pred sb blk- sb pty, tr pyr	95% CHK: lt gy-med gy, sme wht, v sft, v calc, arg, stly ip, sb ang-sb blk, mot, cpxln; 5% MRLST: med gy-blk, frm, stri, stly, arg, calc, pred sb blk- sb pty, tr pyr
		70% CHK: lt gy-med gy, sme wht, v sft, v calc, arg, stly ip, sb ang-sb blk, mot, cpxln; 20% LS: wht-off wht, lt gy, frm, brit, dns, micxln, pkst; 10% MRLST: med gy-blk, frm, stri, stly, arg, calc, pred sb blk- sb pty, tr pyr	90%LS: wht-off wht, lt gy, frm, brit, dns, micxln, pkst, tr pyr; 10% MRLST: med-dk gy, blk, frm, stri, stly, arg, calc, pred sb blk- sb pty
MD: 7.762' Inclination: 70.3° Azimuth: 90.2° TVD: 7.550.21' VS: 154.88'	TVD (ft)	7200	7200
		7200	7200
MD: 7.858' Inclination: 75.9° Azimuth: 92.5° TVD: 7.578.11' VS: 246.63'	TVD (ft)	7200	7200
		7200	7200





7200	MD: 8,139' Inclination: 88.77° Azimuth: 92.41° TVD: 7,596.11' VS: 526.01'	
7200	MD: 8,234' Inclination: 89.14° Azimuth: 91.99° TVD: 7,597.84' VS: 620.88'	
7200		

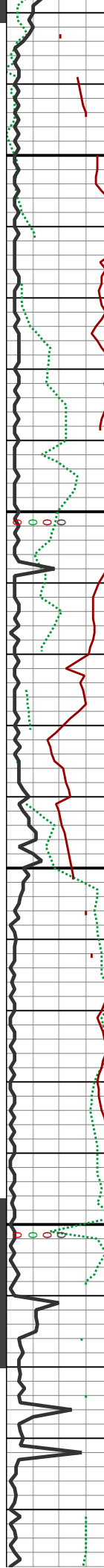
100% LS: wht-off wht, lt gy, frm, brit, dns, micxln, pkst, tr pyr	100% LS: wht-off wht, lt gy, frm, brit, dns, micxln, pkst, tr pyr	100% LS: wht-off wht, lt gy, frm, brit, dns, micxln, pkst, tr pyr	100% LS: wht-off wht, lt gy, frm, brit, dns, micxln, pkst, tr pyr
8200	8200	8200	8200



542' MD 7,604' TVD

5 WOB: 27.9K
250 RPM: 45
40 PP: 4.432
250 SPM: 43/43

ROP (min./ft)
GR1AX5 (API)
DPSX (psi)
GPM3 (API)

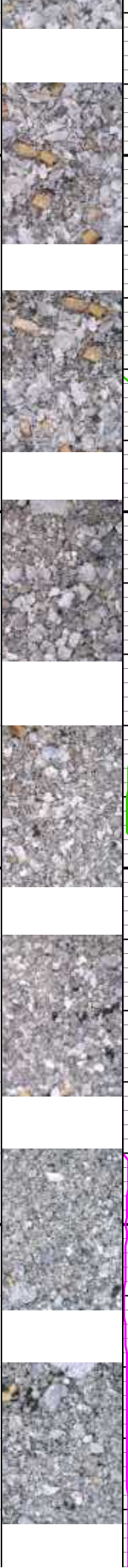


530 8,540 8,550 8,560 8,570 8,580 8,590 8,600 8,610 8,620 8,630 8,640 8,650 8,660 8,670 8,680 8,690 8,700 8,710 8,720 8,730 8,740

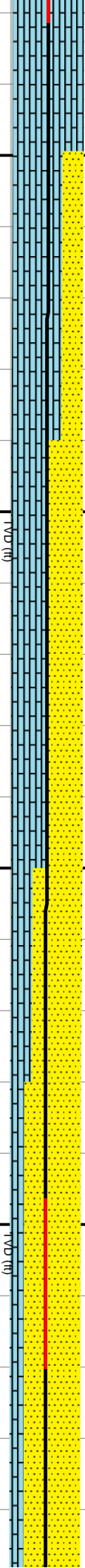
765u

2000
200000
1034u

GR1 (units)
C1-C4 (PPM)



7200 MD: 8,617'
Inclination: 87.23°
Azimuth: 88.43°
TVD: 7,607.35'
VS: 1,003.59'

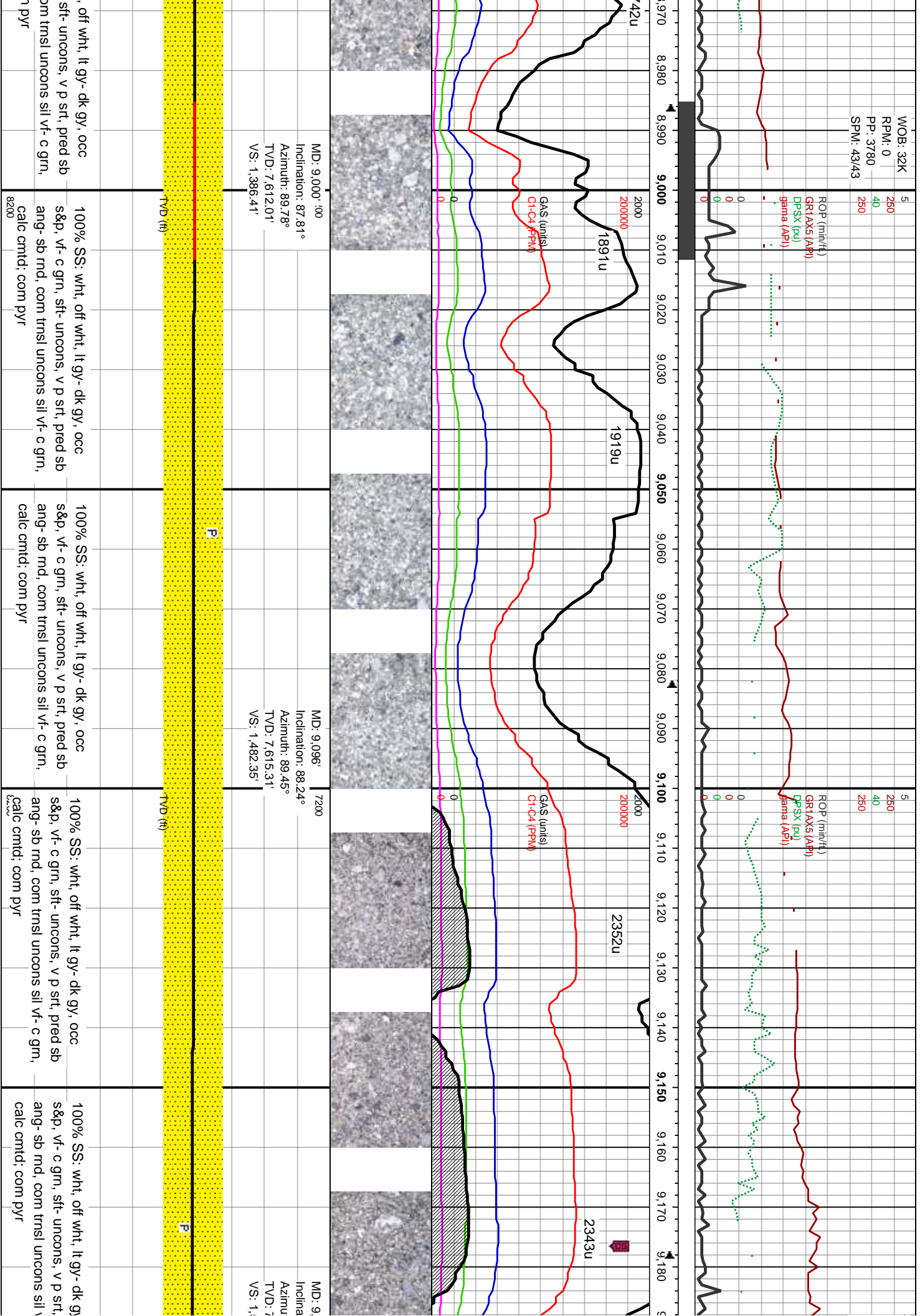


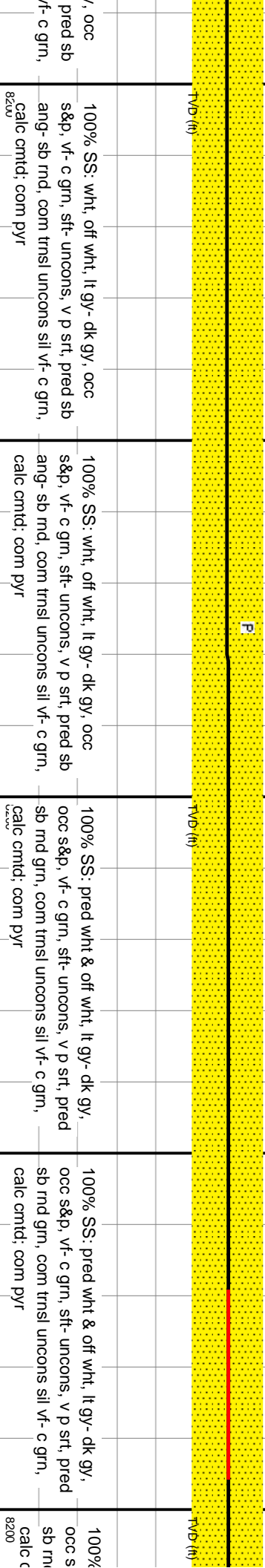
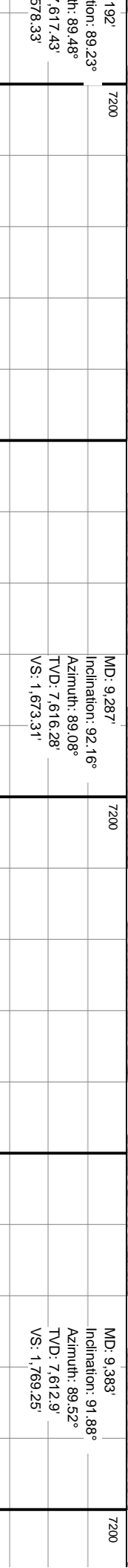
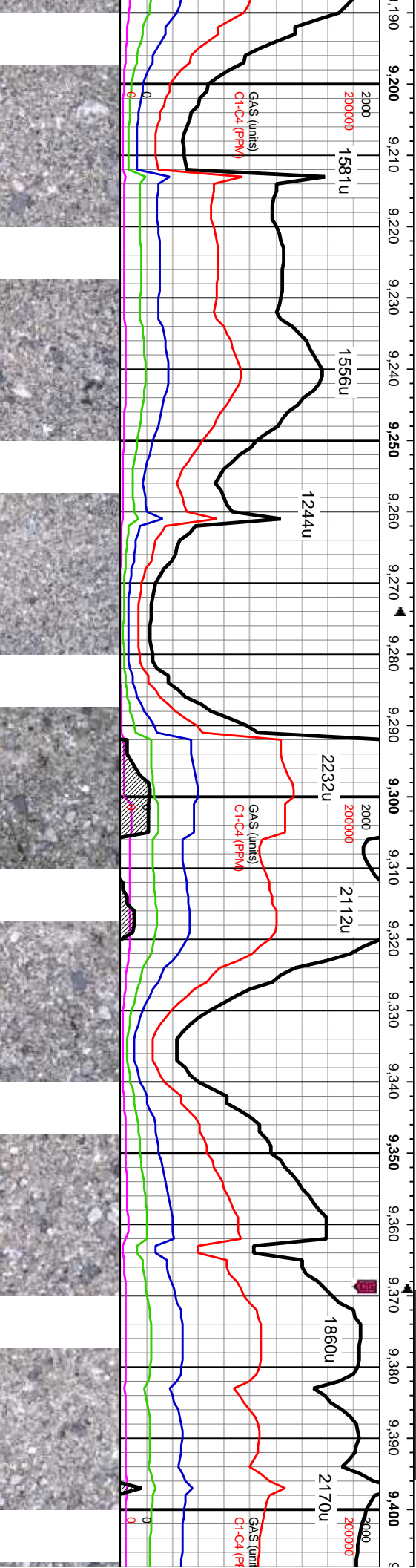
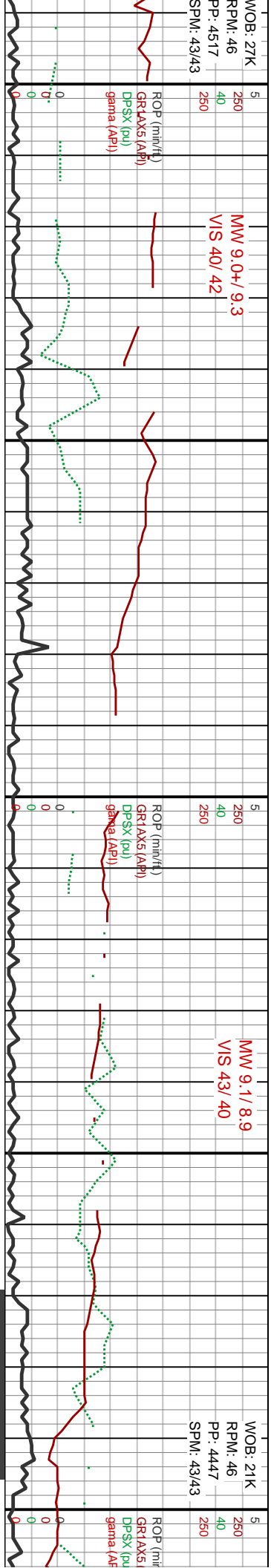
70% LS: wht-off wht, lt gy, frm, brit, dns, micxn, pkst, sme with blk stn, 30% SS: lt gy-dk gy, f-vf, occ s&p, sft- mod cons, p srt, sb ang-sb rnd, grn sup, calc cmtld, tr pyr

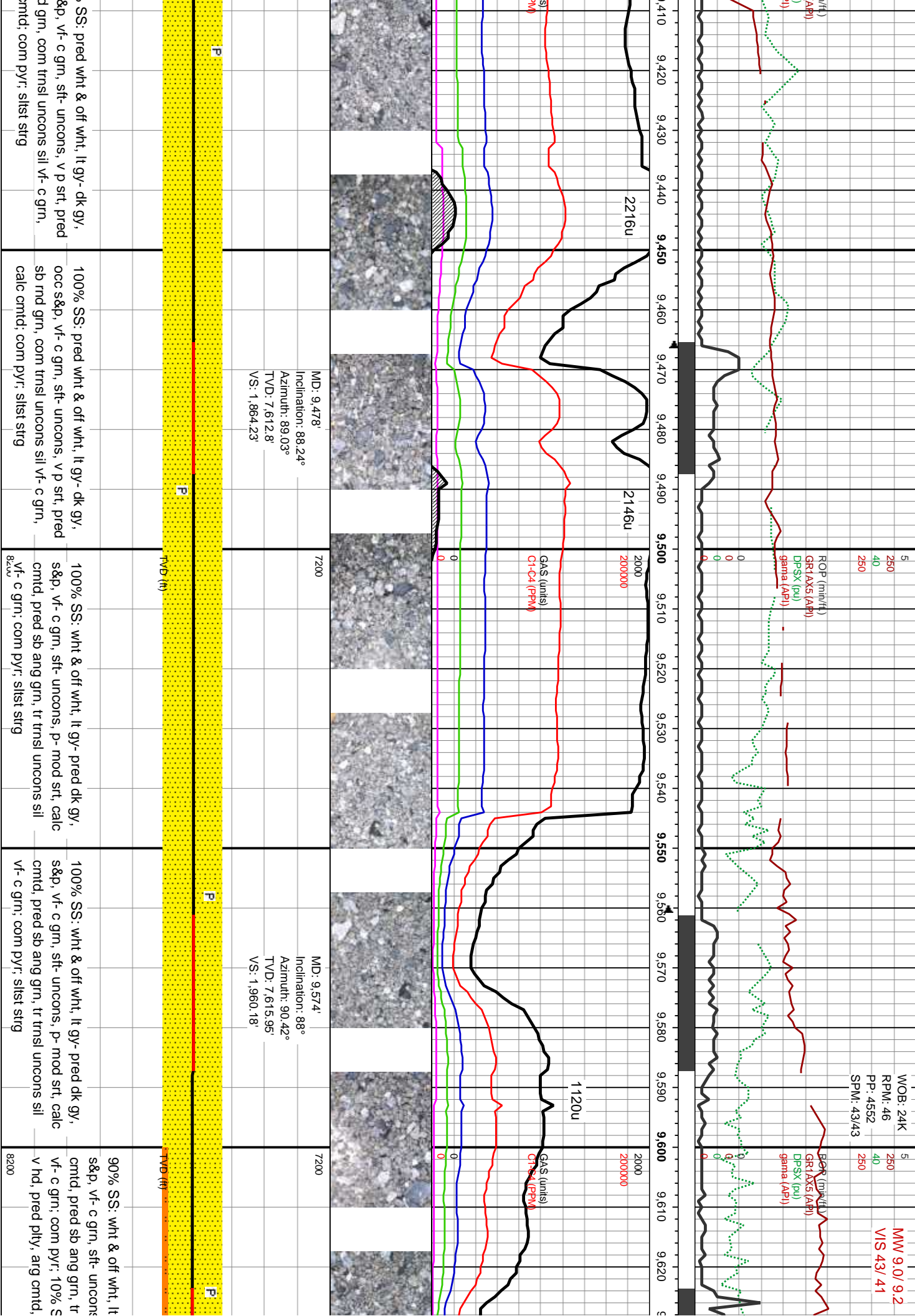
50% LS: wht-off wht, lt gy, frm, brit, dns, micxn, pkst, sme with blk stn, 50% SS: lt gy-dk gy, f-vf, occ s&p, sft- mod cons, p srt, sb ang-sb rnd, grn sup, calc cmtld, tr pyr

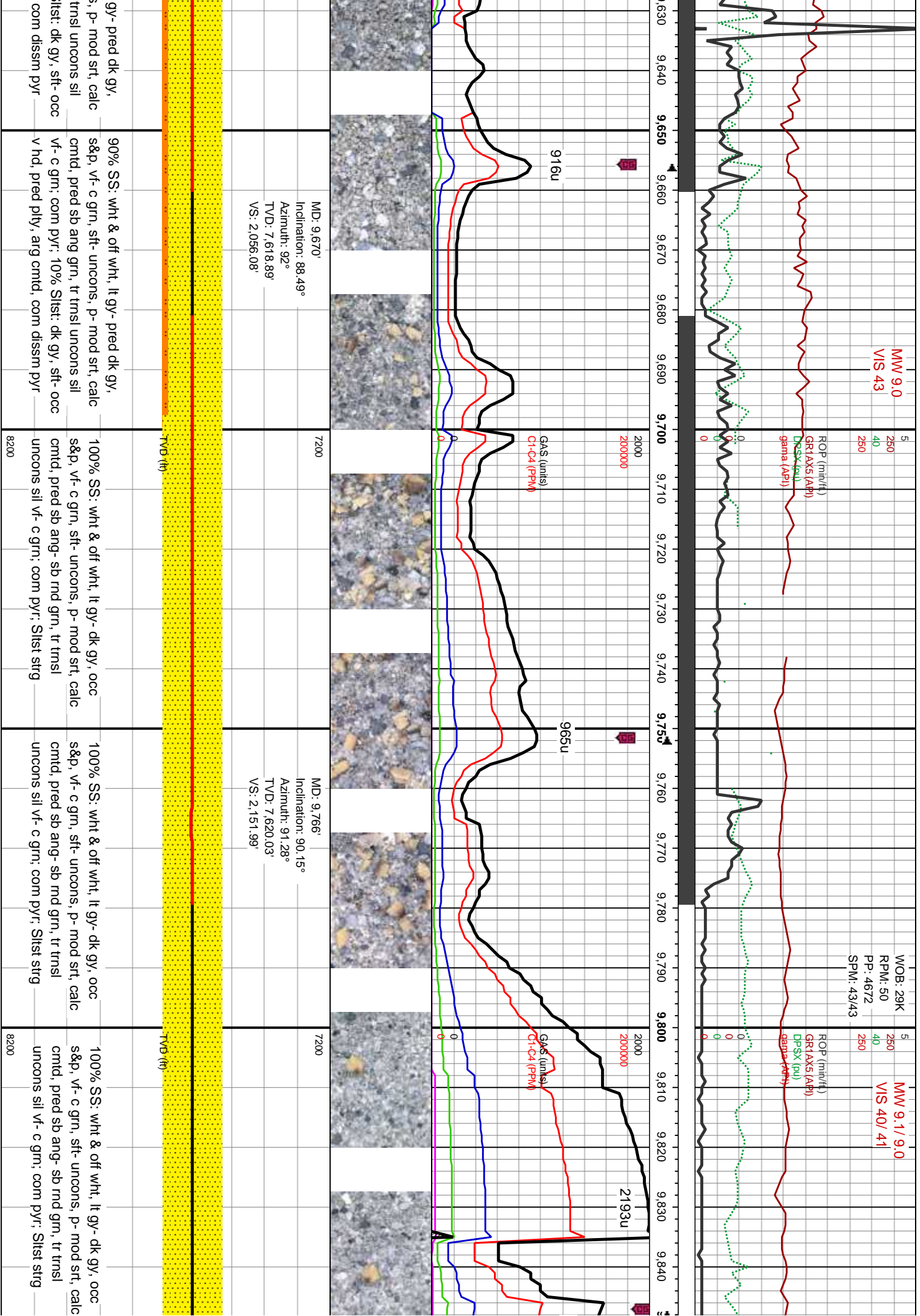
70% SS: lt gy-dk gy, f-vf, occ s&p, sft- mod cons, p srt, sb ang-sb rnd, grn sup, calc cmtld, 30% LS: wht-off wht, lt gy, frm, brit, dns, micxn, pkst, sme with blk stn, tr pyr

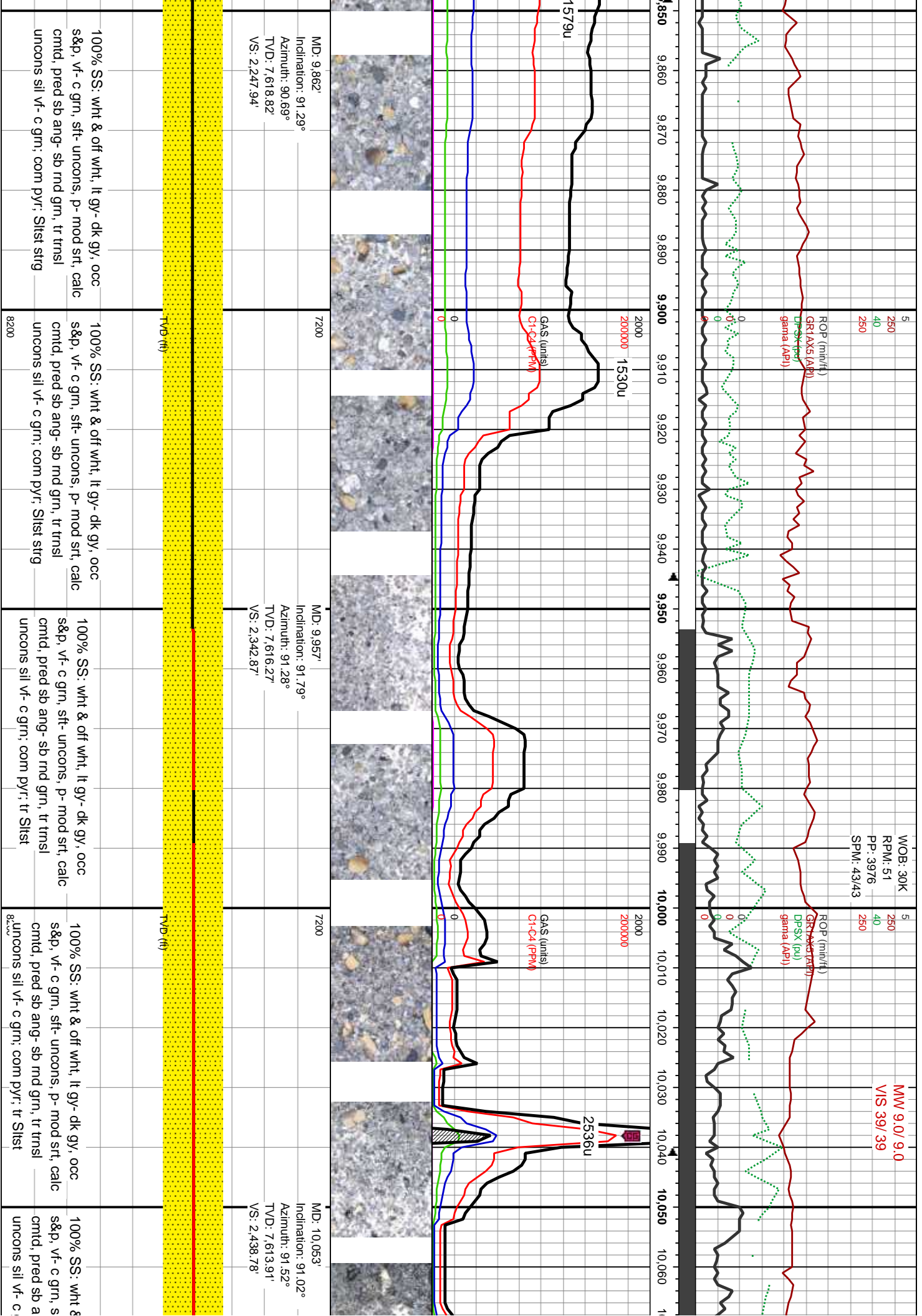
80% SS: lt gy-dk gy, f-vf, occ s&p, sft- mod cons, p srt, sb ang-sb rnd, grn sup, calc cmtld, 20% LS: wht-off wht, lt gy, frm, brit, dns, micxn, pkst, sme with blk stn, tr pyr

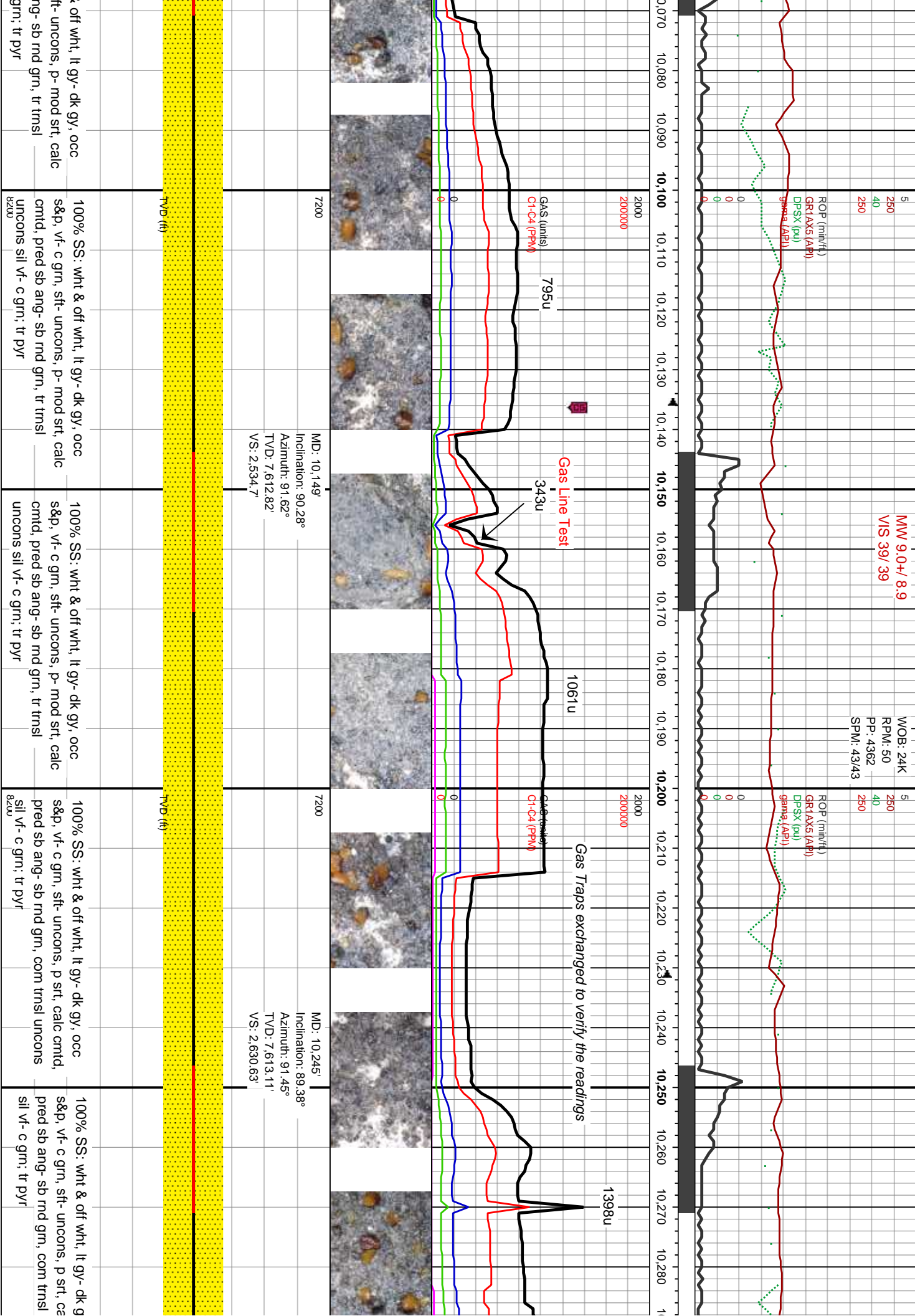












MW 9.0+/- 8.9
VIS 39/ 39

WOB: 24K
RPM: 50
PP: 4362
SPM: 43/43

ROP (mili./ft)
GR1AX5 (API)
DPSX (psi)
gas (API)

ROP (mili./ft)
GR1AX5 (API)
DPSX (psi)
gas (API)

Gas Line Test

Gas Traps exchanged to verify the readings



MD: 10,149'
Incination: 90.28°
Azimuth: 91.62°
TVD: 7,612.82'
VS: 2,534.7'

MD: 10,245'
Incination: 89.38°
Azimuth: 91.45°
TVD: 7,613.11'
VS: 2,630.63'

TVD (ft)

TVD (ft)

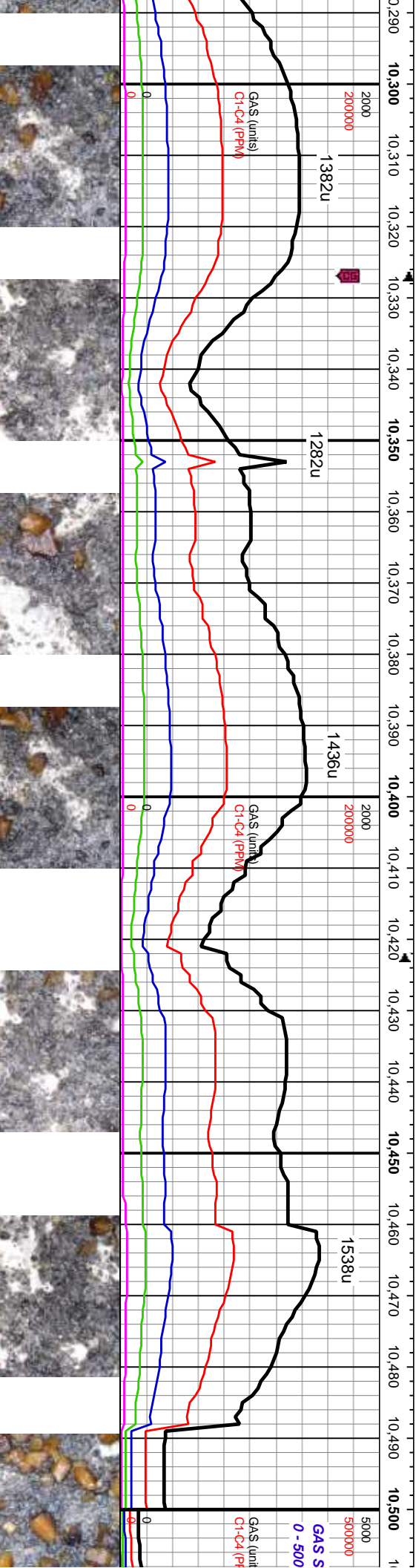
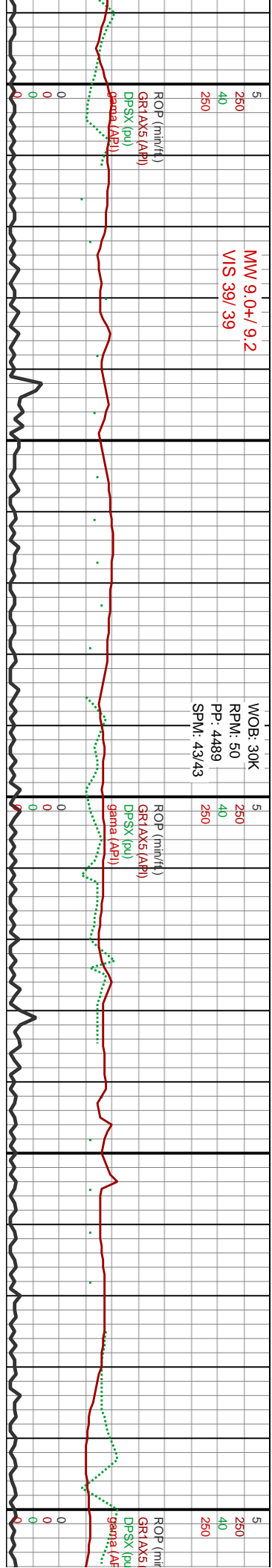
& off wht, lt gy- dk gy, occ
s&p, vf- c grn, sft- uncons, p- mod srt, calc
cmtd, pred sb ang- sb rnd grn, tr trns
uncons sil vf- c grn, tr pyr

100% SS: wht & off wht, lt gy- dk gy, occ
s&p, vf- c grn, sft- uncons, p- mod srt, calc
cmtd, pred sb ang- sb rnd grn, tr trns
uncons sil vf- c grn, tr pyr

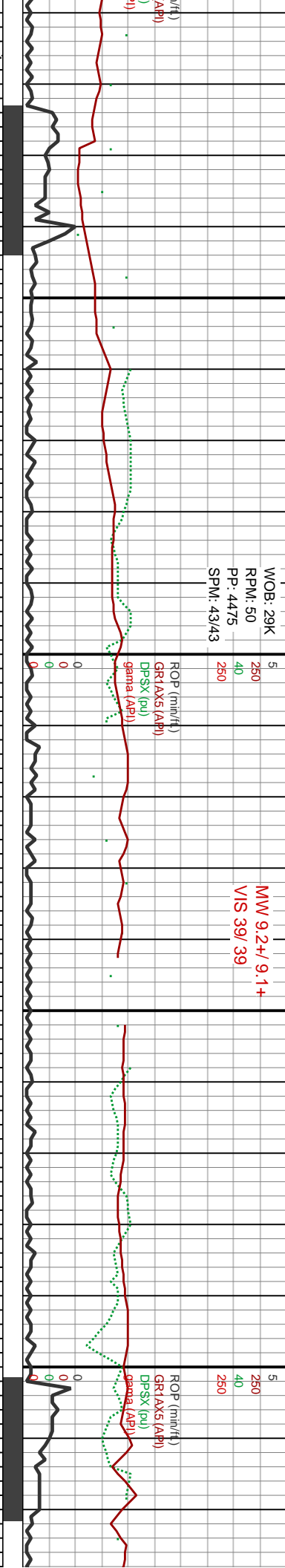
100% SS: wht & off wht, lt gy- dk gy, occ
s&p, vf- c grn, sft- uncons, p- mod srt, calc
cmtd, pred sb ang- sb rnd grn, tr trns
uncons sil vf- c grn, tr pyr

100% SS: wht & off wht, lt gy- dk gy, occ
s&p, vf- c grn, sft- uncons, p srt, calc cmtd,
pred sb ang- sb rnd grn, com trns
uncons sil vf- c grn, tr pyr

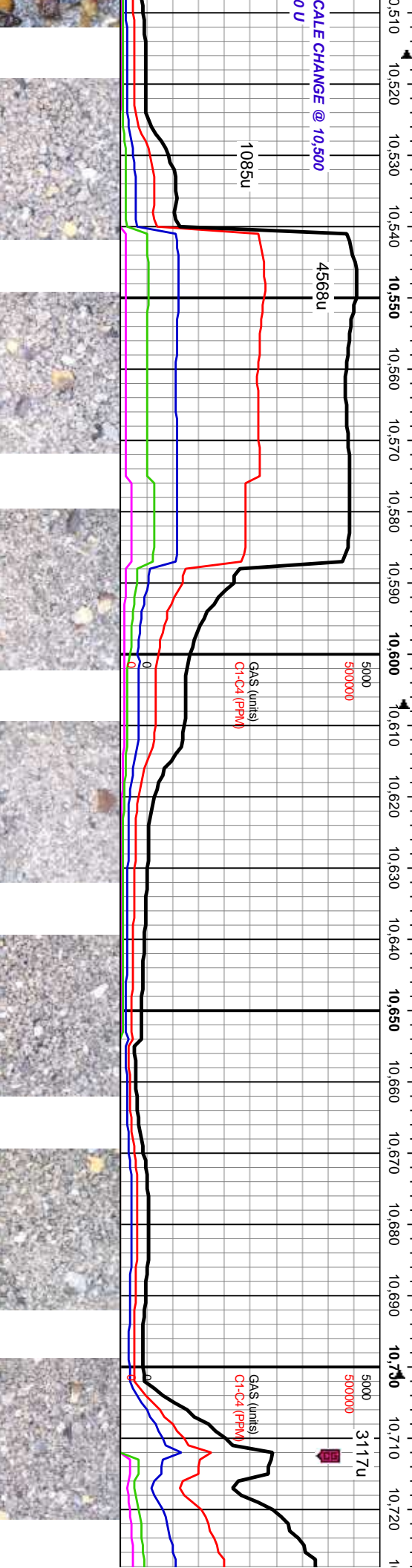
100% SS: wht & off wht, lt gy- dk gy, occ
s&p, vf- c grn, sft- uncons, p srt, calc cmtd,
pred sb ang- sb rnd grn, com trns
uncons sil vf- c grn, tr pyr



7200		MD: 10,340' Inclination: 89.91° Azimuth: 91.05° TVD: 7,613.7' VS: 2,725.57'		7200		MD: 10,432' Inclination: 90.86° Azimuth: 90.66° TVD: 7,613.08' VS: 2,817.54'		7200	
100% SS: wht & off wht, lt gy- dk gy, occ s&p, vf- c grn, sft- unconcs, p srt, calc cmtd, pred sb ang- sb md grn, com trnsi unconcs		100% SS: wht & off wht, lt gy- dk gy, occ s&p, vf- c grn, sft- unconcs, p srt, calc cmtd, pred sb ang- sb md grn, com trnsi unconcs		100% SS: wht & off wht, lt gy- dk gy, occ s&p, vf- c grn, sft- unconcs, p srt, calc cmtd, pred sb ang- sb md grn, com trnsi unconcs		100% SS: wht & off wht, lt gy- dk gy, occ s&p, vf- c grn, sft- unconcs, p srt, calc cmtd, pred sb ang- sb md grn, com trnsi unconcs		100% SS: wht & off wht, lt gy- dk gy, occ s&p, vf- c grn, sft- unconcs, p srt, calc cmtd, pred sb ang- sb md grn, com trnsi unconcs	
sil vf- c grn; com pyr		sil vf- c grn; com pyr		sil vf- c grn; com pyr		sil vf- c grn; com pyr		sil vf- c grn; com pyr	
8200		8200		8200		8200		8200	



SCALE CHANGE @ 10,500

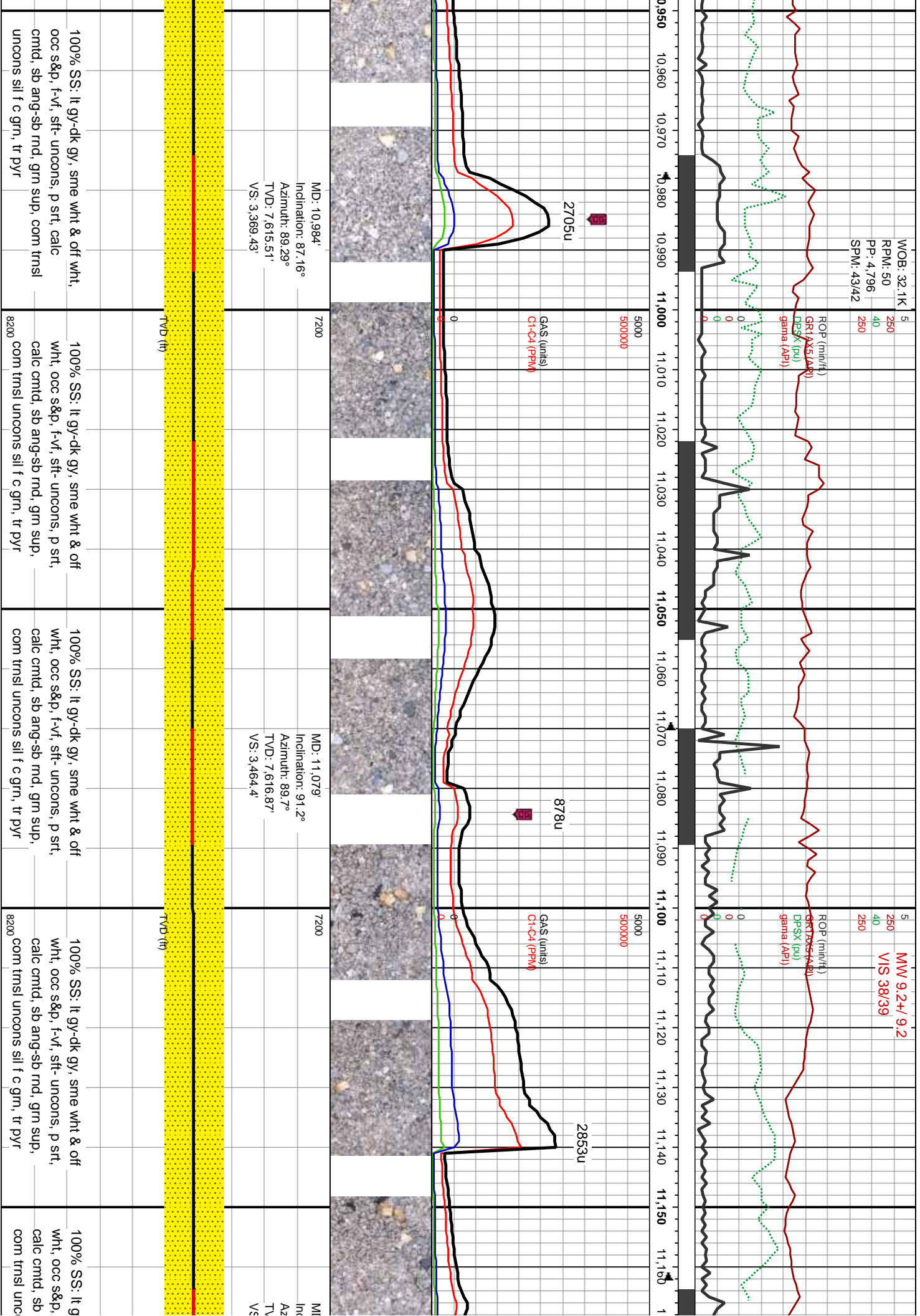


MD: 10,525'
Inclination: 90.31°
Azimuth: 89.69°
TVD: 7,612.13'
VS: 2,910.52'

MD: 10,617'
Inclination: 89.82°
Azimuth: 88.38°
TVD: 7,612.03'
VS: 3,002.52'

MD: 10,710'
Inclination: 90.55°
Azimuth: 88.68°
TVD: 7,611.73'
VS: 3,095.51'

100% SS: lt gy-dk gy, sme wht & off occ s&p, f-vf, sft- unconcs, p srt, cmtld, sb ang-sb md, grn sup, com uncons sil f c grn, tr pyr		100% SS: lt gy-dk gy, sme wht & off wht, occ s&p, f-vf, sft- unconcs, p srt, calc cmtld, sb ang-sb md, grn sup, com trnsl uncons sil f c grn, tr pyr		100% SS: lt gy-dk gy, sme wht & off wht, occ s&p, f-vf, sft- unconcs, p srt, calc cmtld, sb ang-sb md, grn sup, 82ccom trnsl unconcs sil f c grn, tr pyr		100% SS: lt gy-dk gy, sme wht & off wht, occ s&p, f-vf, sft- unconcs, p srt, calc cmtld, sb ang-sb md, grn sup, com trnsl unconcs sil f c grn, tr pyr		100% SS: lt gy-dk gy, s wht, occ s&p, f-vf, sft- u calc cmtld, sb ang-sb md 82ccom trnsl unconcs sil f c	
TVD (ft)		TVD (ft)		TVD (ft)		TVD (ft)		TVD (ft)	



WOB: 21.4K
RPM: 50
PP: 4.589
SPM: 43/43

ROP (min./ft)
GR1AX5 (API)
DPSX (pu)
gamma (API)

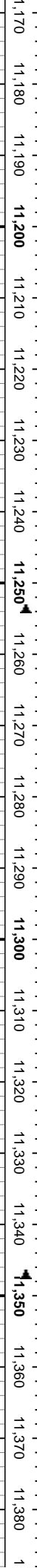
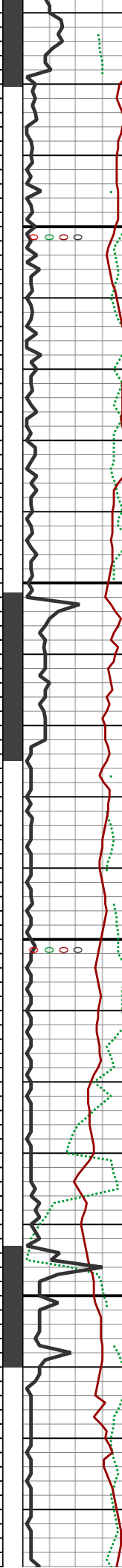
5
250
40
250

MW 9.2+9.1+
VIS 37/38

ROP (min./ft)
GR1AX5 (API)
DPSX (pu)
gamma (API)

5
250
40
250

21/01/15
MINDEPTH



GAS (units)
C1-C4 (PPM)

5000
500000

4491u

3682u

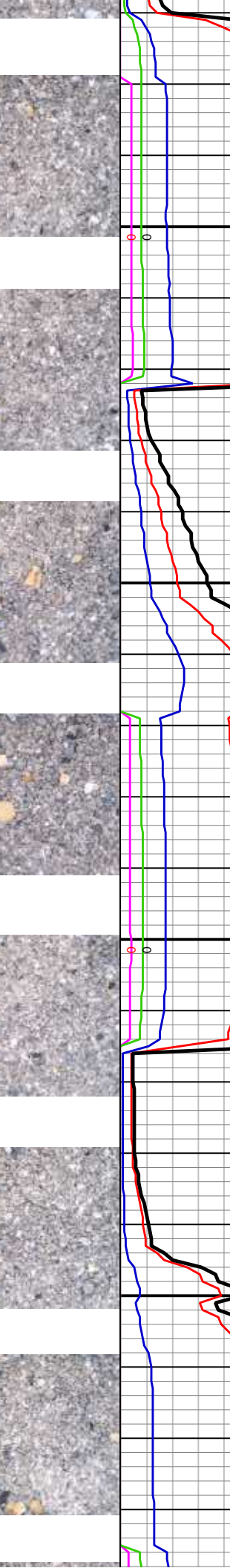
3918u

GAS (units)
C1-C4 (PPM)

5000
500000

GAS (units)
C1-C4 (PPM)

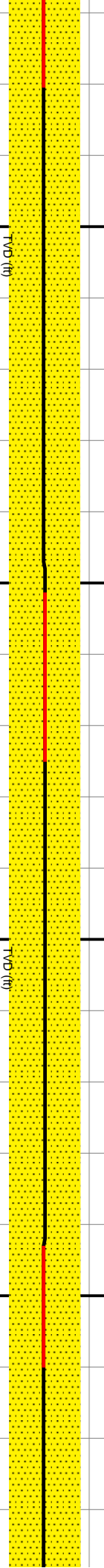
5000
500000



D: 11.171'
Inclination: 91.45°
Azimuth: 89.83°
D: 7.614.74'
VS: 3.556.38'

MD: 11.263'
Inclination: 91.57°
Azimuth: 91°
TVD: 7.612.31'
VS: 3.648.33'

MD: 11.355'
Inclination: 87.84°
Azimuth: 89.27°
TVD: 7.612.79'
VS: 3.740.3'



100% SS: lt gy-dk gy, sme wht & off
wht, occ s&p, f-vf, sft- unconcs, p srt,
calc cmtd, sb ang-sb rnd, grn sup,
com trnsl unconcs sil f c grn, tr pyr

100% SS: lt gy-dk gy, sme wht & off
wht, occ s&p, f-vf, sft- unconcs, p srt,
calc cmtd, sb ang-sb rnd, grn sup,
com trnsl unconcs sil f c grn, tr pyr

100% SS: lt gy-dk gy, sme wht & off
wht, occ s&p, f-vf, sft- unconcs, p srt,
calc cmtd, sb ang-sb rnd, grn sup,
com trnsl unconcs sil f c grn, tr pyr

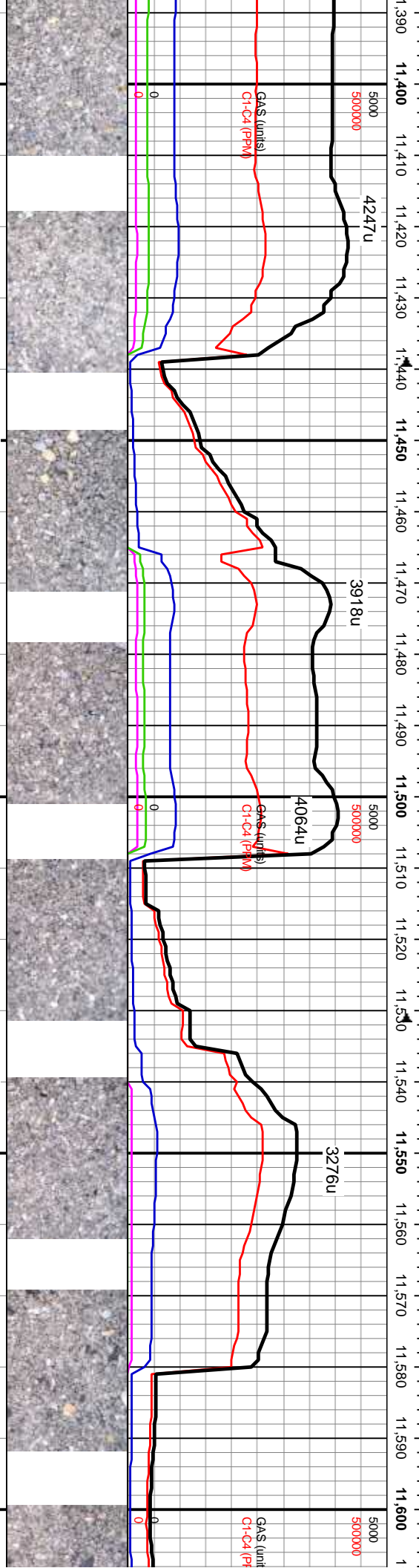
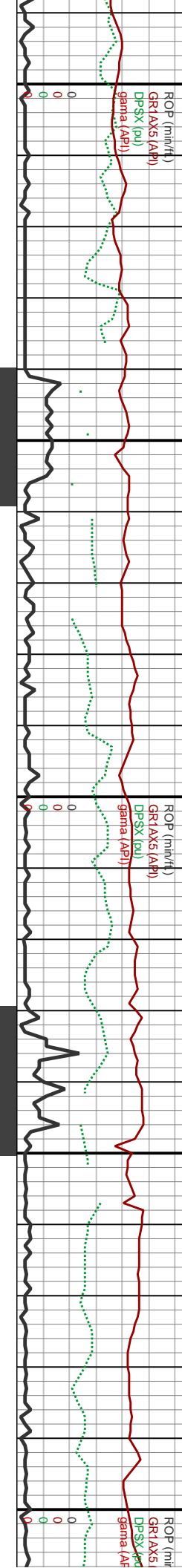
WOB: 21.5K
RPM: 50
PP: 4.679
SPM: 43/43

5
250
40
250

MW 9.2/9.3
VIS 38/40

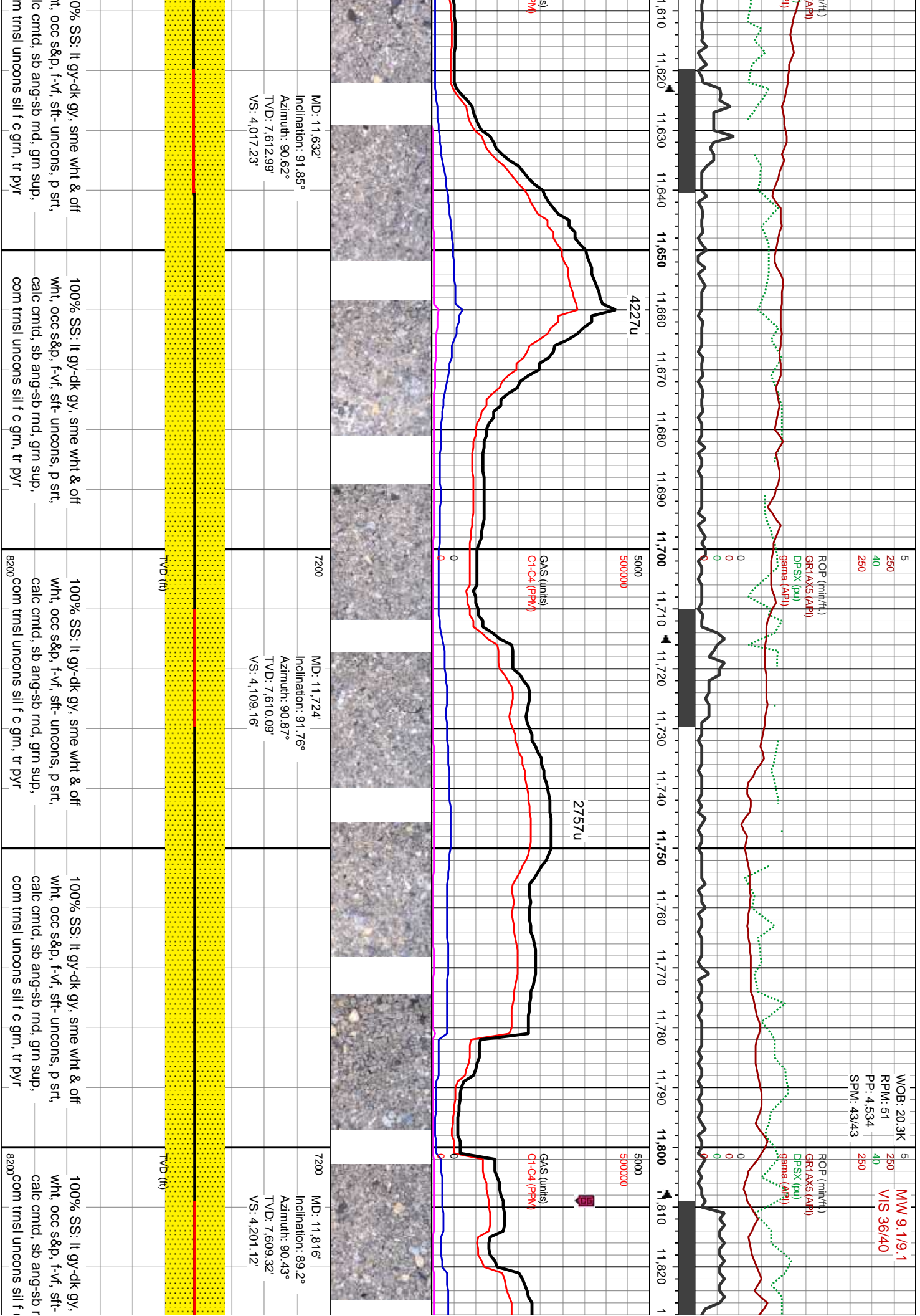
WOB: 24.2K
RPM: 50
PP: 4.606
SPM: 43/43

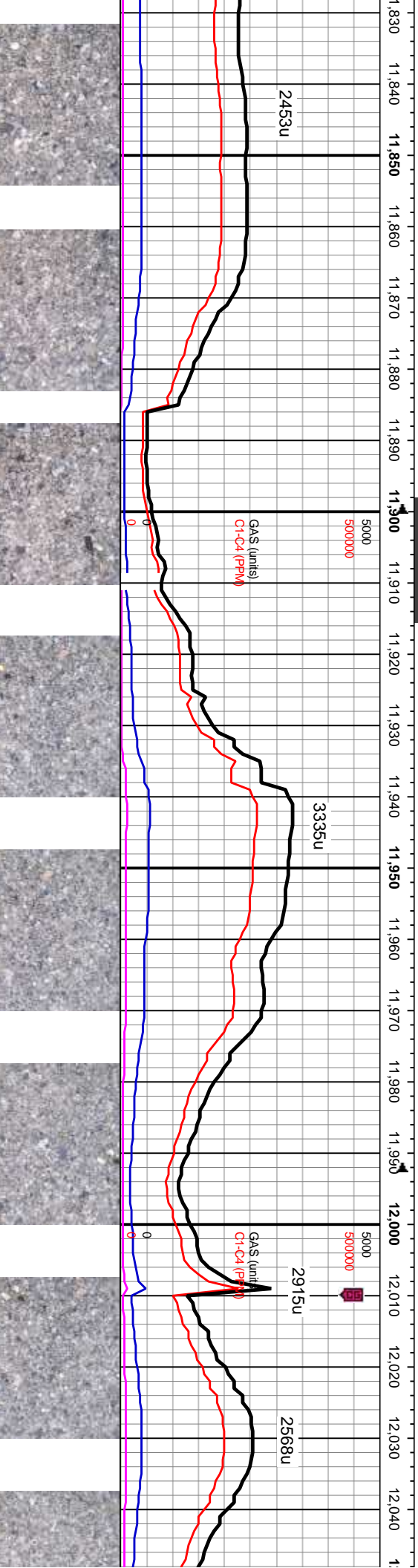
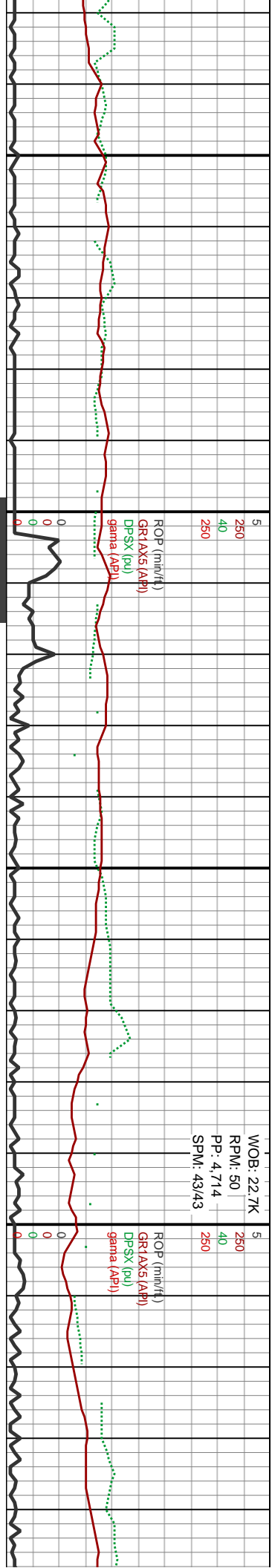
5
250
40
250



7200	MD: 11.447' Inclination: 89.35° Azimuth: 89.34° TVD: 7.615.04' VS: 3.832.27'	7200	MD: 11.540' Inclination: 90.68° Azimuth: 89.77° TVD: 7.615.02' VS: 3.925.26'	7200
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100% SS: lt gy-dk gy, sme wht & off wht, occ s&p, f-vf, sft- uncon, p srl, calc cmtld, sb ang-sb rnd, grn sup, com trnsl uncon sil f c grn, tr pyr	100% SS: lt gy-dk gy, sme wht & off wht, occ s&p, f-vf, sft- uncon, p srl, calc cmtld, sb ang-sb rnd, grn sup, com trnsl uncon sil f c grn, tr pyr	100% SS: lt gy-dk gy, sme wht & off wht, occ s&p, f-vf, sft- uncon, p srl, calc cmtld, sb ang-sb rnd, grn sup, com trnsl uncon sil f c grn, tr pyr
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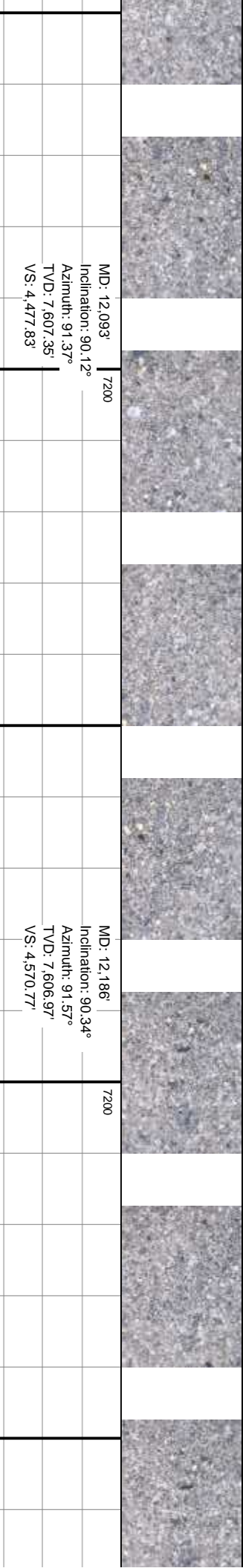
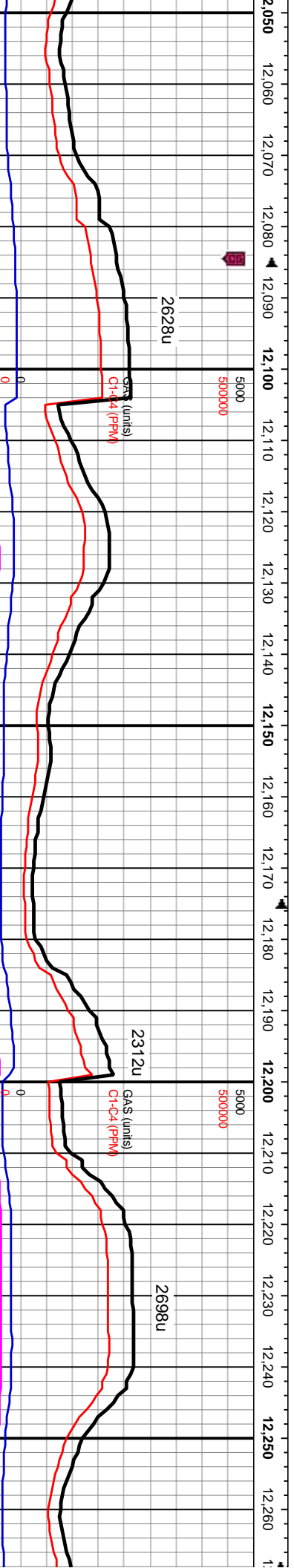
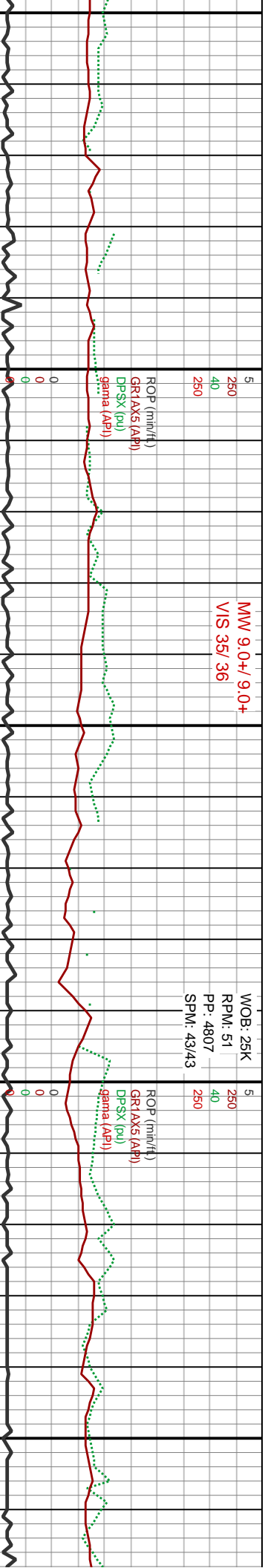
MD: 11,909'
Inclination: 90.49°
Azimuth: 92.08°
TVD: 7,609.57'
VS: 4,294.06'

MD: 12,001'
Inclination: 91.08°
Azimuth: 92.52°
TVD: 7,608.31'
VS: 4,385.93'

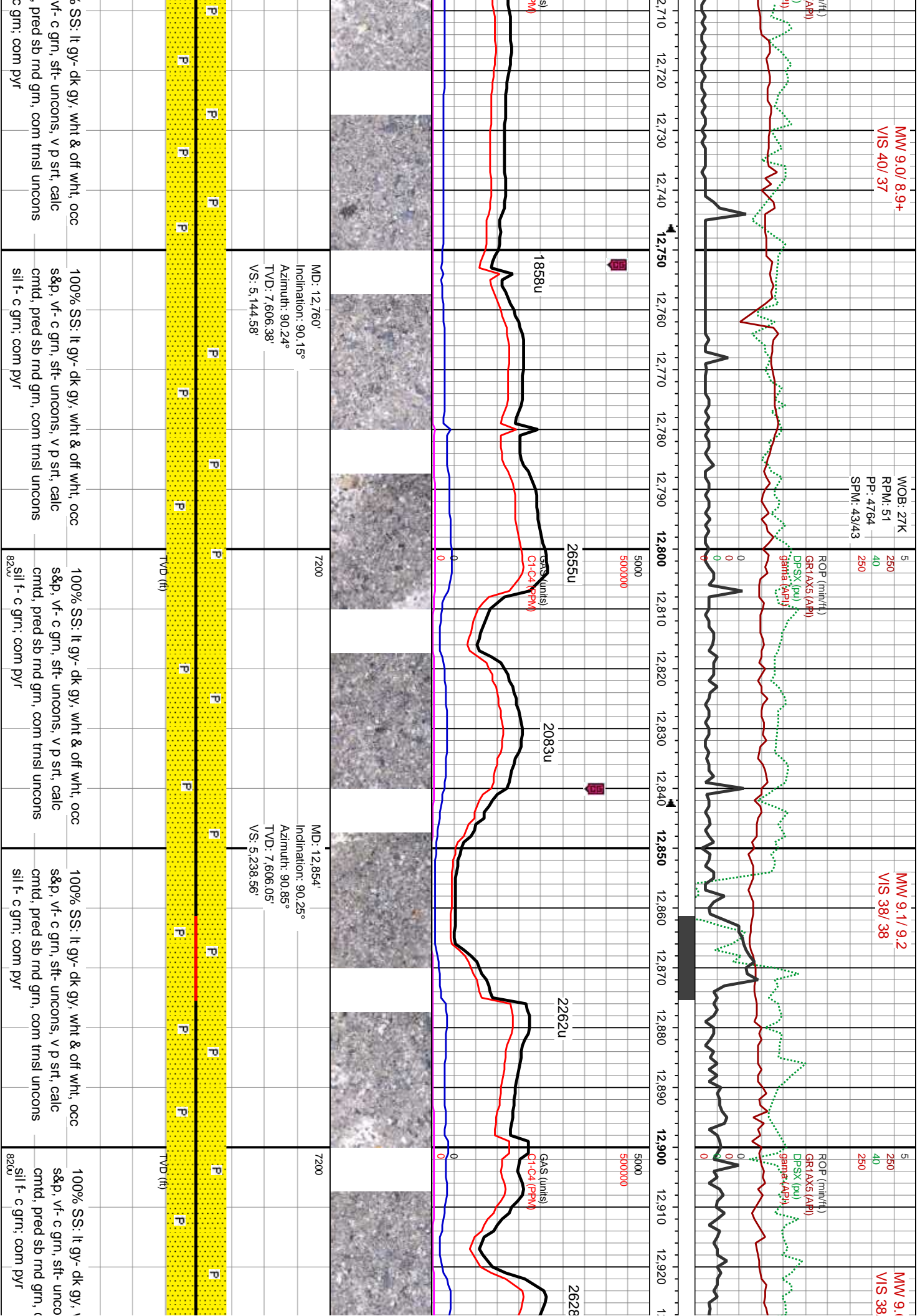
TVD (ft)

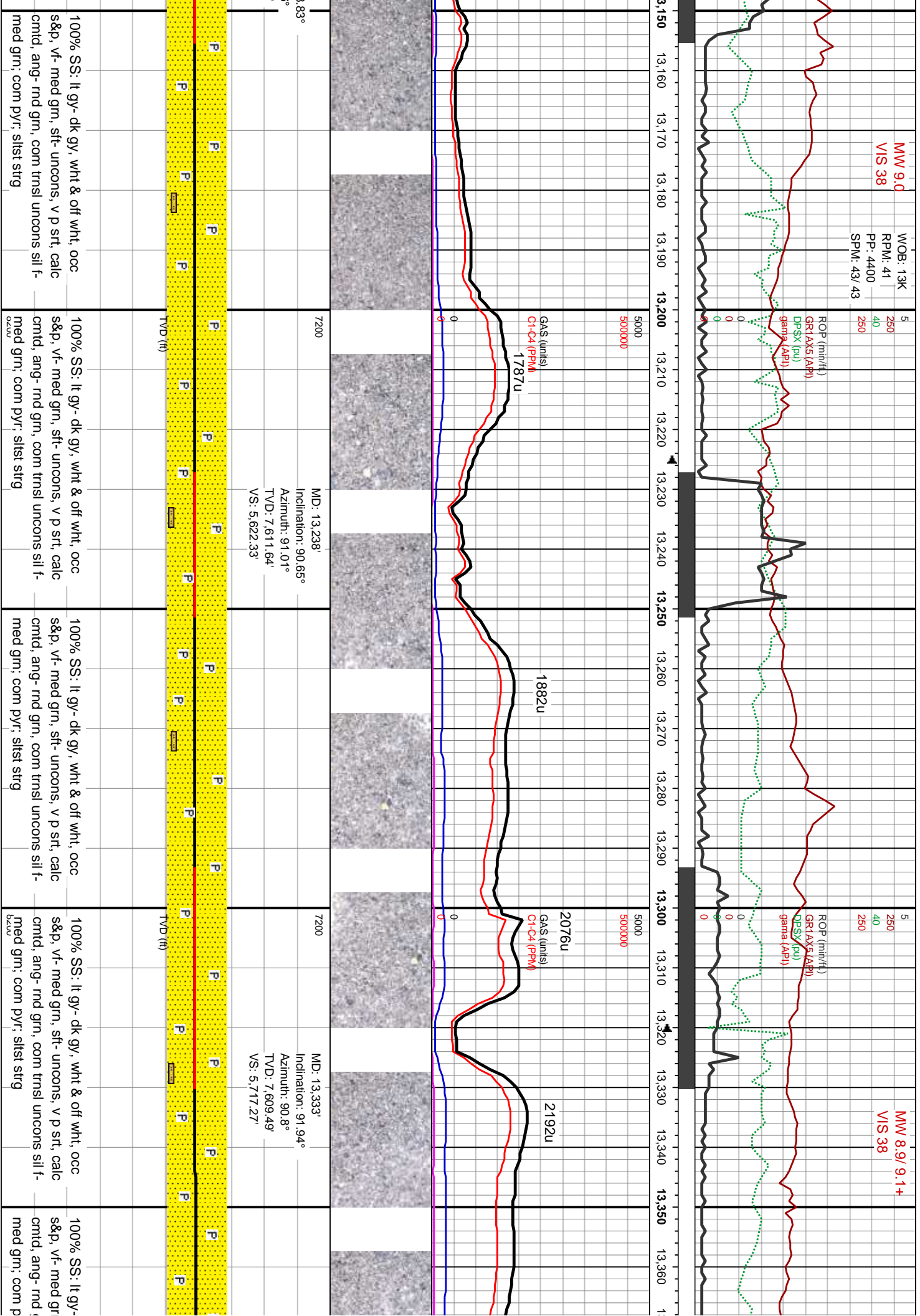
TVD (ft)

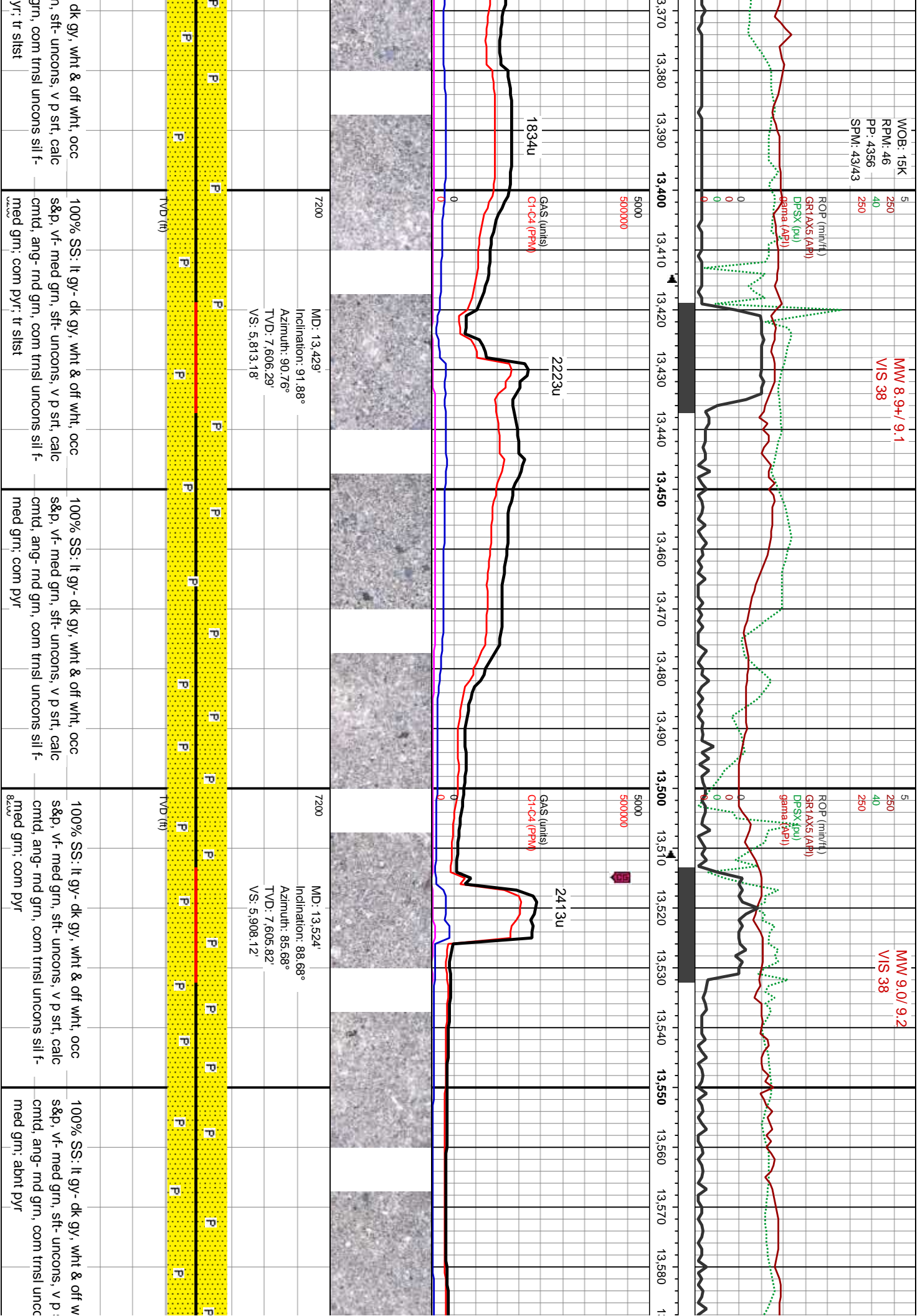
same wht & off	100% SS: lt gy-dk gy, sme wht & off	100% SS: lt gy-dk gy, sme wht & off wht, occ s&p, f-vf, sft- unconcs, p srt, calc cntd, sb ang-sb rnd, grn sup, com trnsl unconcs sil f c grn, tr pyr	8200
uncons, p srt,			
nd, grn sup,			
c grn, tr pyr			



100% SS: lt gy- dk gy, wht & off wht, occ s&p, vf- c grn, sft- uncon, v p srt, calc cmt'd, pred sb rnd grn, com trnsl uncon		100% SS: lt gy- dk gy, wht & off wht, occ s&p, vf- c grn, sft- uncon, v p srt, calc cmt'd, pred sb rnd grn, com trnsl uncon		100% SS: lt gy- dk gy, wht & off wht, occ s&p, vf- c grn, sft- uncon, v p srt, calc cmt'd, pred sb rnd grn, com trnsl uncon		100% SS: lt gy- dk gy, wht & off wht, occ s&p, vf- c grn, sft- uncon, v p srt, calc cmt'd, pred sb rnd grn, com trnsl uncon	
sil f- c grn; tr pyr		sil f- c grn; tr pyr		sil f- c grn; tr pyr		sil f- c grn; tr pyr	
8200		8200		8200		8200	







WOB: 13K
RPM: 56
PP: 43/41
SPM: 43/43

5
250
40
250

ROP (mbl/t)
GR1AX5 (API)
DPSX (psi)
gamma (API)

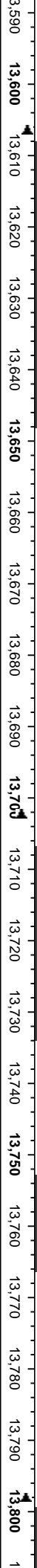
WOB: 38.2K
RPM: 0
PP: 3.768
SPM: 43/43

5
250
40
250

ROP (mbl/t)
GR1A15
DPSX (psi)
gamma (API)

MW 8.9/ 8.9+
VIS 38

MW 8.9
VIS 38



5000
5000000

2716u

1024u

2252u 2364u

5000
5000000

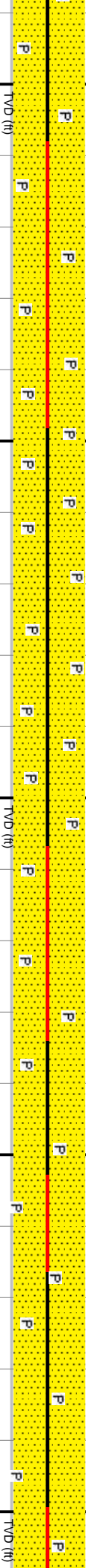
GAS (units)
C1-C4 (PPM)



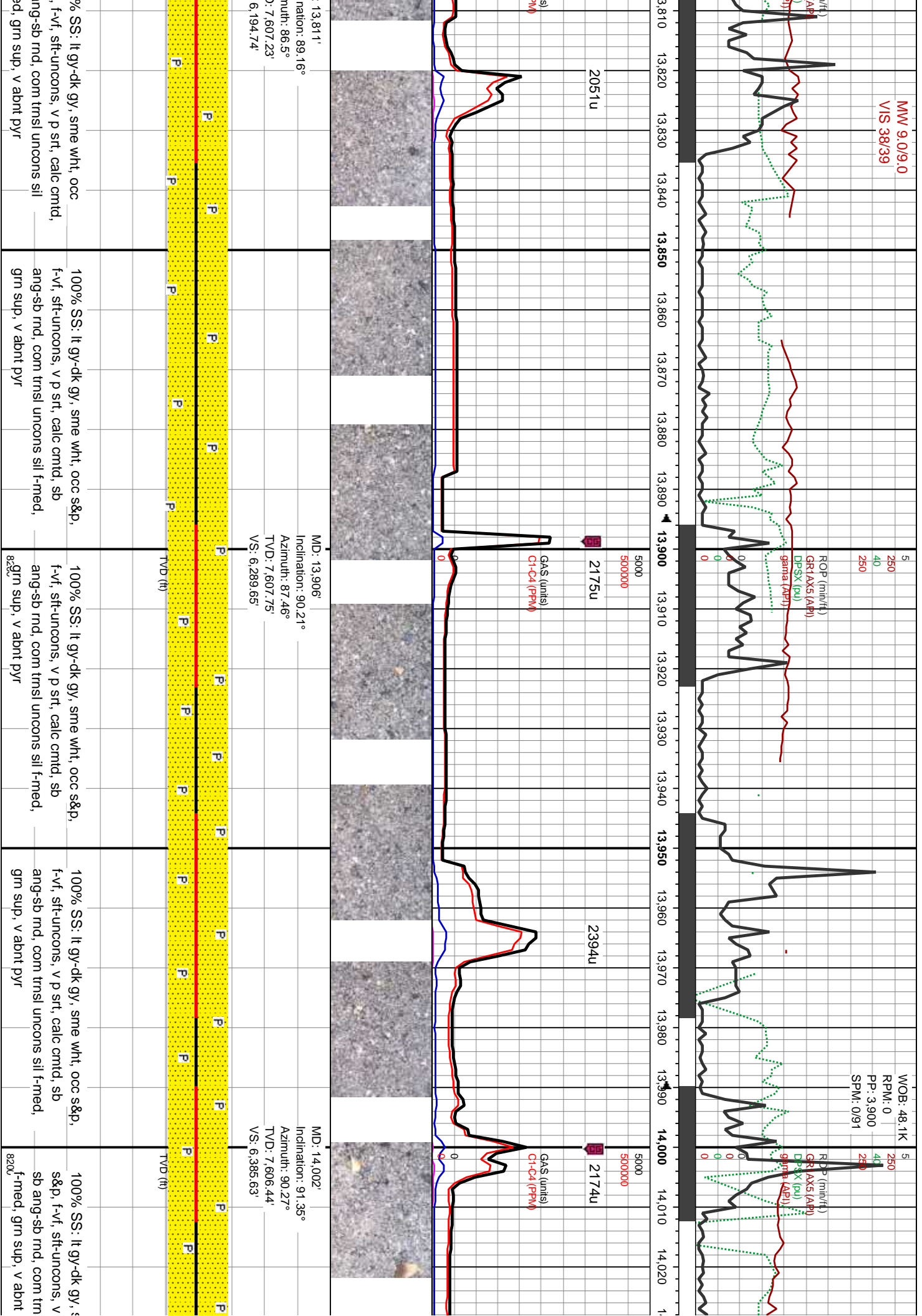
7200
MD: 13.620'
Inclination: 90.06°
Azimuth: 86.08°
TVD: 7.606.88'
VS: 6.003.94'

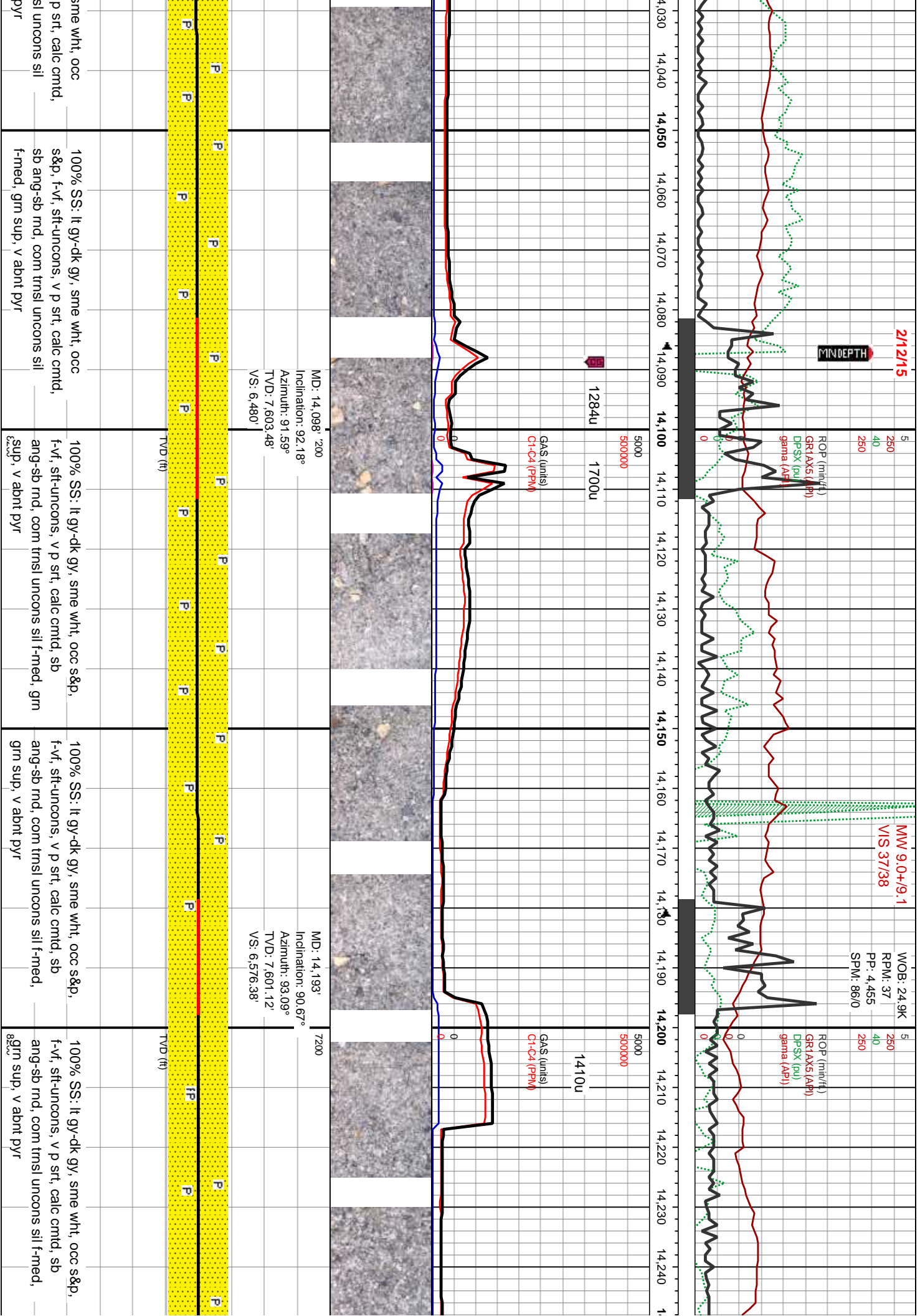
7200
MD: 13.716'
Inclination: 90.18°
Azimuth: 87.3°
TVD: 7.606.68'
VS: 6.099.83'

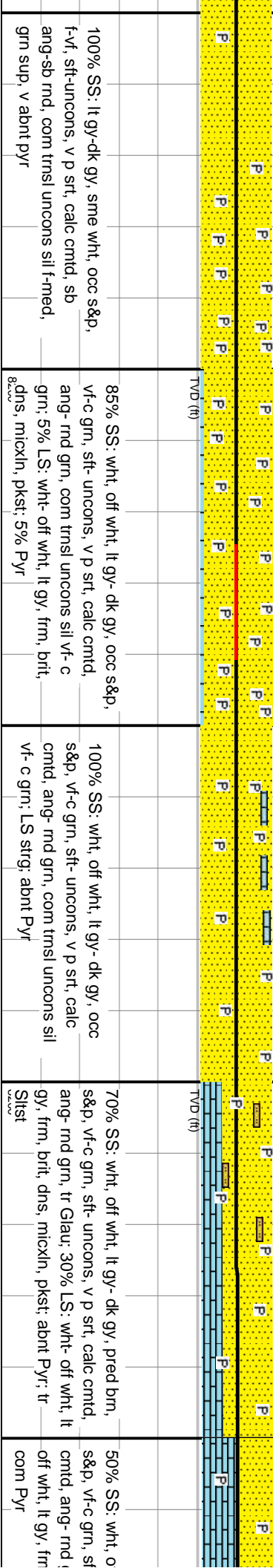
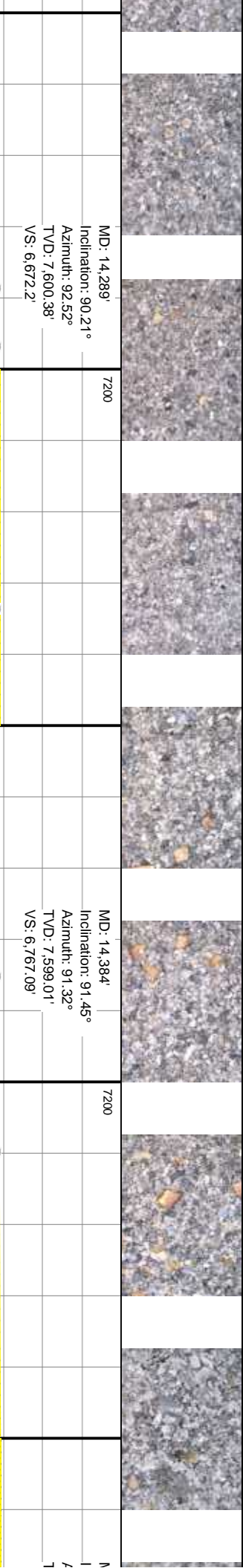
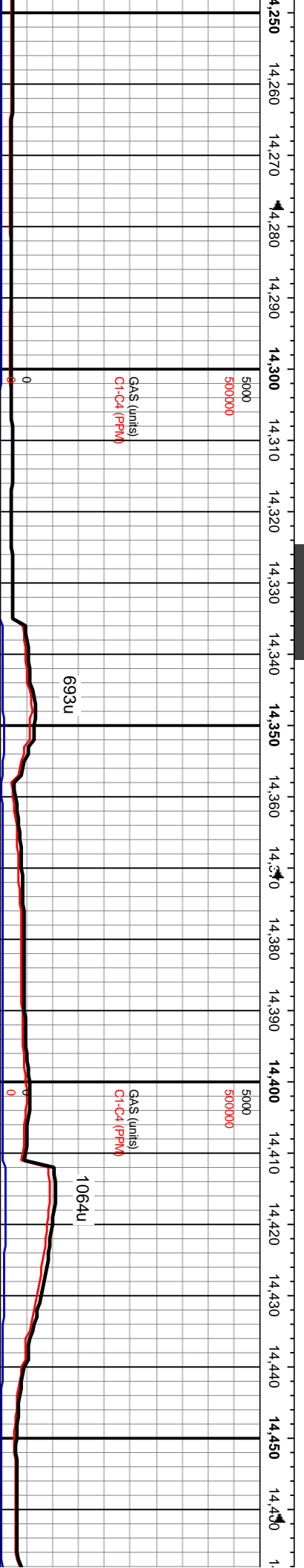
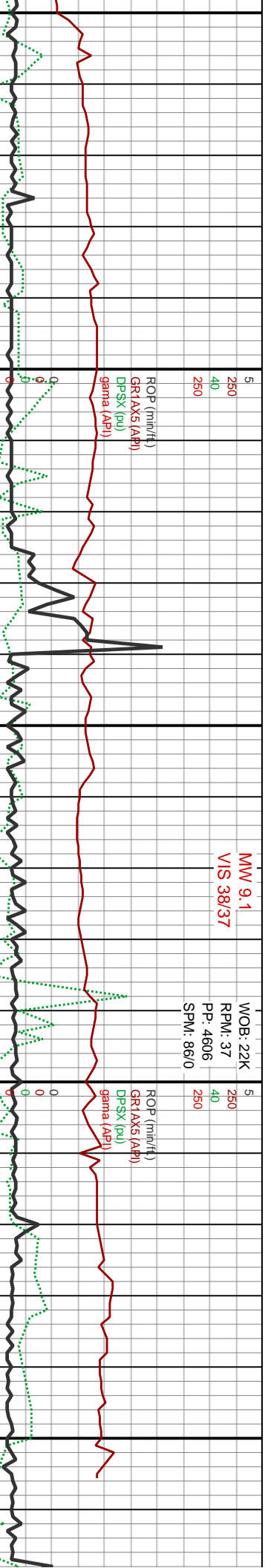
7200MD
Incl
Azir
TVD
VS:

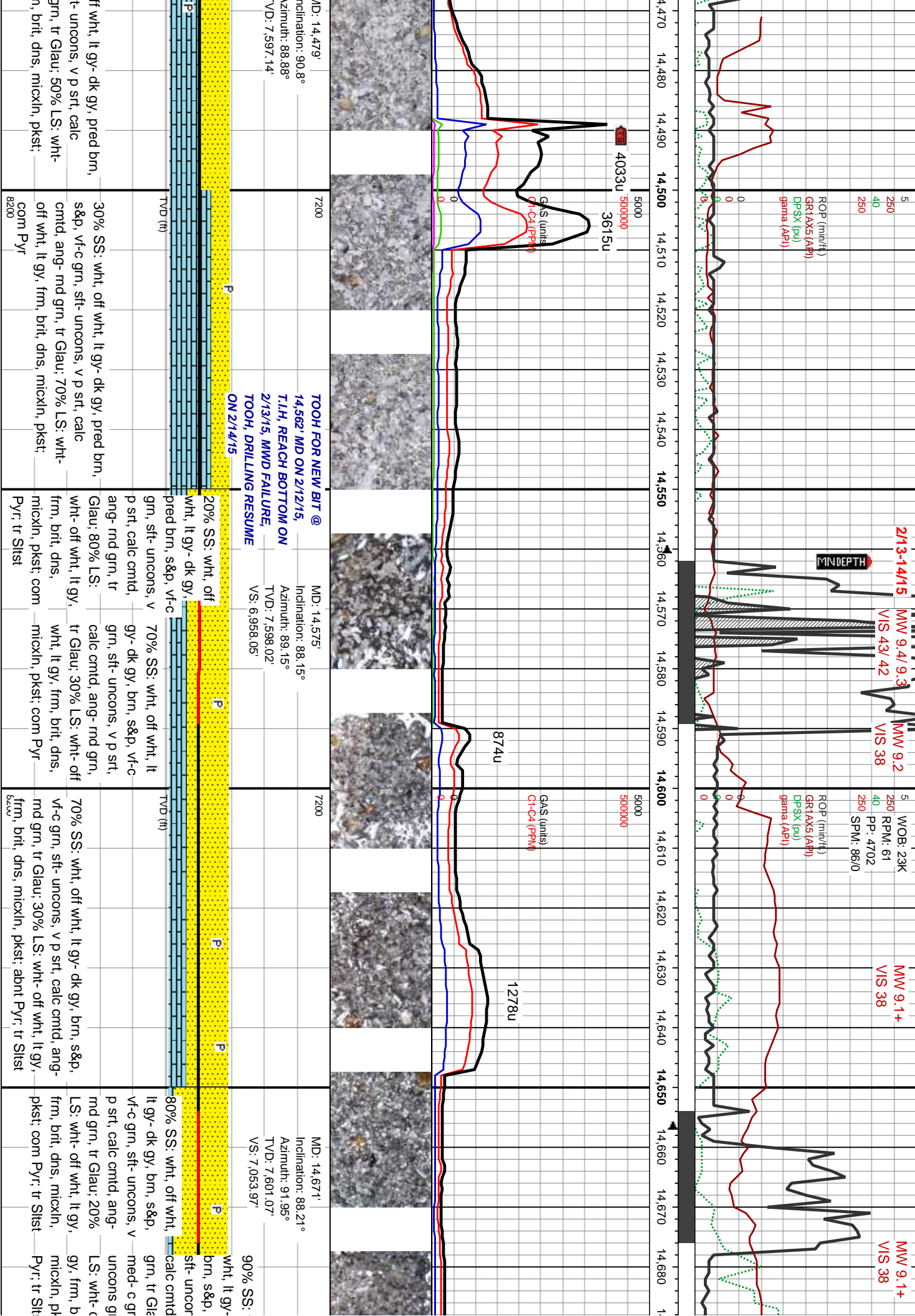


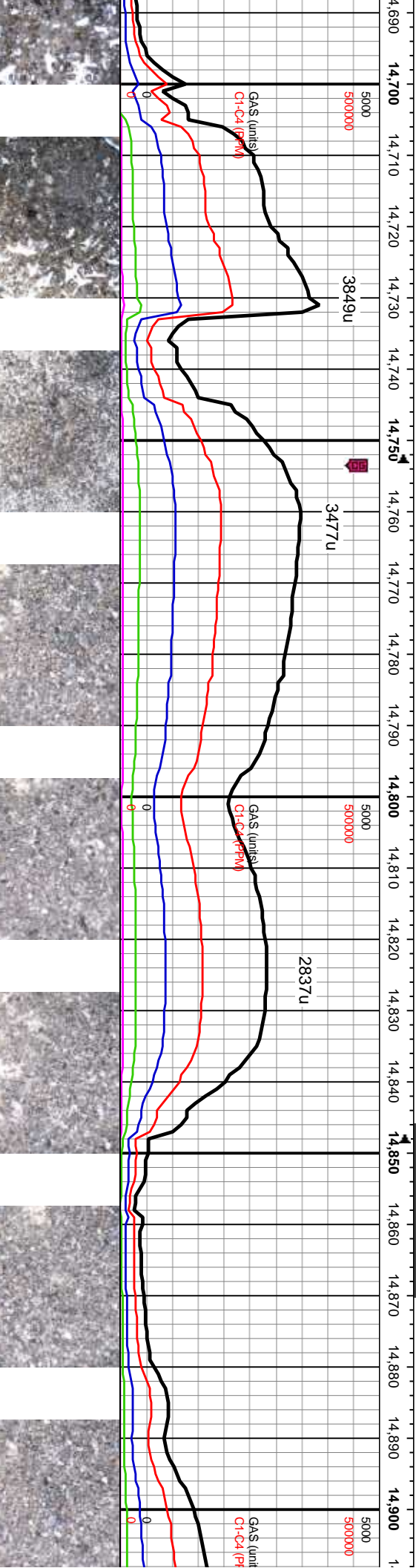
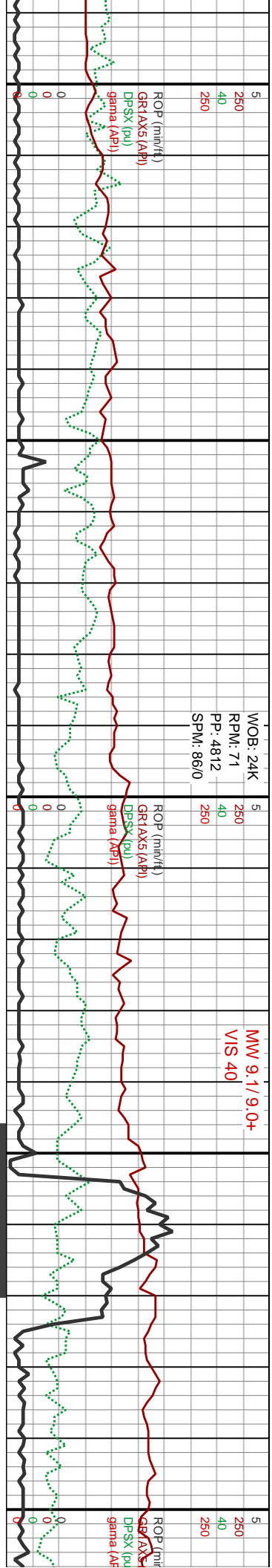
ht, occ srt, calc ns sil f-	100% SS: lt gy- dk gy, wht & off wht, occ s&p, vf- med grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, com trnsl uncon, sil f- med grn, abnt pyr	100% SS: lt gy- dk gy, wht & off wht, occ s&p, vf- med grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, com trnsl uncon, sil f- med grn, abnt pyr	100% SS: lt gy-dk gy, sme wht, occ s&p, f-vf, sft-uncon, v p srt, calc cmtd, sb ang-sb rnd, com trnsl uncon, sil f-med, grn sup, v abnt pyr	100% SS: lt gy-dk gy, sme wht, occ s&p, f-vf, sft-uncon, v p srt, calc cmtd, sb ang-sb md, com trnsl uncon, sil f-med, grn sup, v abnt pyr	100 s&p sb e f-me
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7200	MD: 14.767' Inclination: 87.84° Azimuth: 91.39° TVD: 7,604.38' VS: 7,149.83'	100% SS: wht. off wht. lt gy- dk gy, brn, s&p, v-f-c grn, sft- unconcs, v p sft, calc cntd, ang- rnd grn, tr Glau, abnt med- c grn tmsl sil — unconcs grn; tr Ls: abnt Pyr	100% SS: wht. off wht. lt gy- dk gy, brn, s&p, v-f-c grn, sft- unconcs, v p sft, calc cntd, ang- rnd grn, tr Glau, abnt med- c grn tmsl sil — unconcs grn; tr Ls: abnt Pyr	100% SS: wht. off wht. lt gy- dk gy, brn, s&p, v-f-c grn, sft- unconcs, v p sft, calc cntd, ang- rnd grn, tr Glau, abnt med- c grn tmsl sil — unconcs grn; tr Ls: abnt Pyr	100% SS: wht. off wht. lt gy- dk gy, brn, s&p, v-f-c grn, sft- unconcs, v p sft, calc cntd, ang- rnd grn, tr Glau, abnt med- c grn tmsl sil — unconcs grn; tr Ls: abnt Pyr
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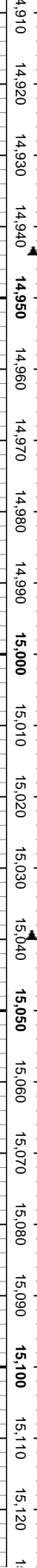
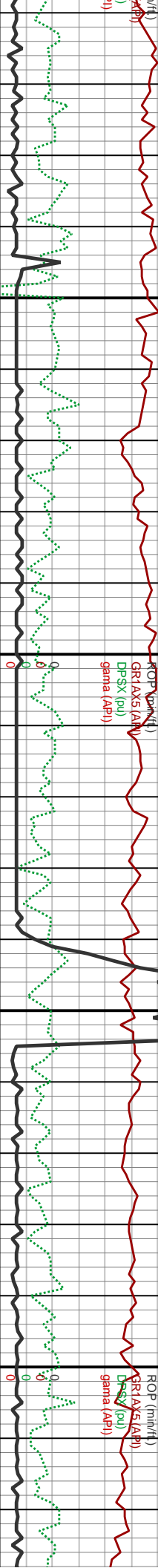
MW 9.1+ / 9.0
VIS 40

WOB: 22K
RPM: 77
PP: 4728
SPM: 86/0

ROP (m/h)
GR1XX5 (API)
DPSX (psi)
gamma (API)

MW 9.1+ / 9.1
VIS 40

ROP (m/h)
GR1XX5 (API)
DPSX (psi)
gamma (API)

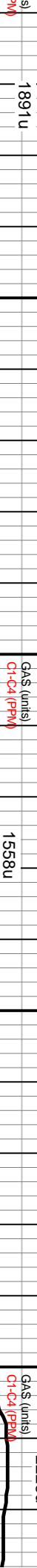


5000
5000000

5000
5000000

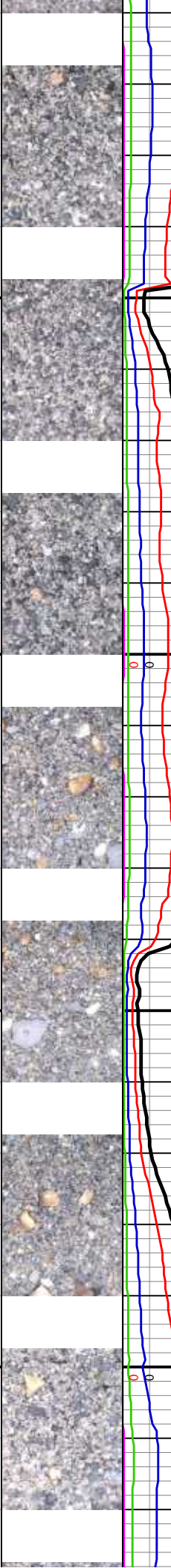
GAS (units)
C1-C4 (PPM)

GAS (units)
C1-C4 (PPM)



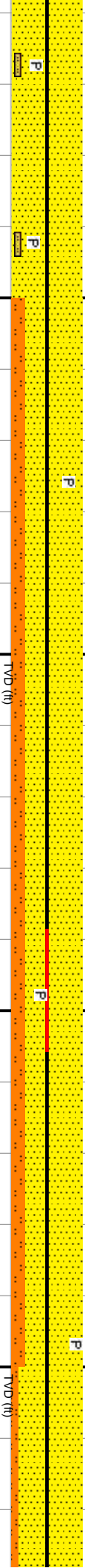
1891u

2226u

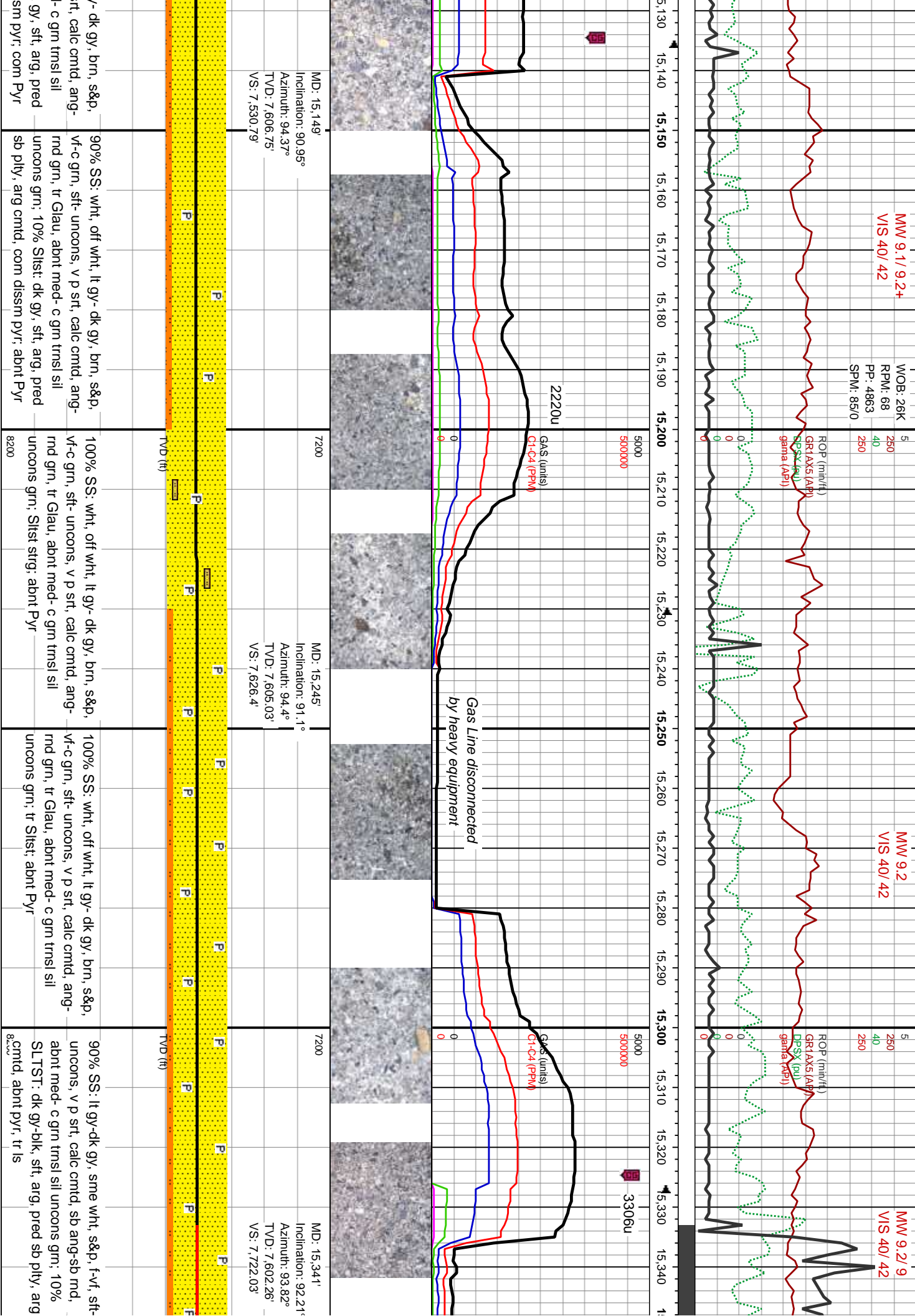


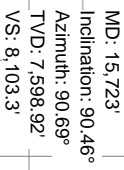
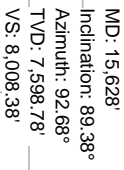
MD: 14,959'
Inclination: 89.41°
Azimuth: 93.08°
TVD: 7,607.76'
VS: 7,341.46'

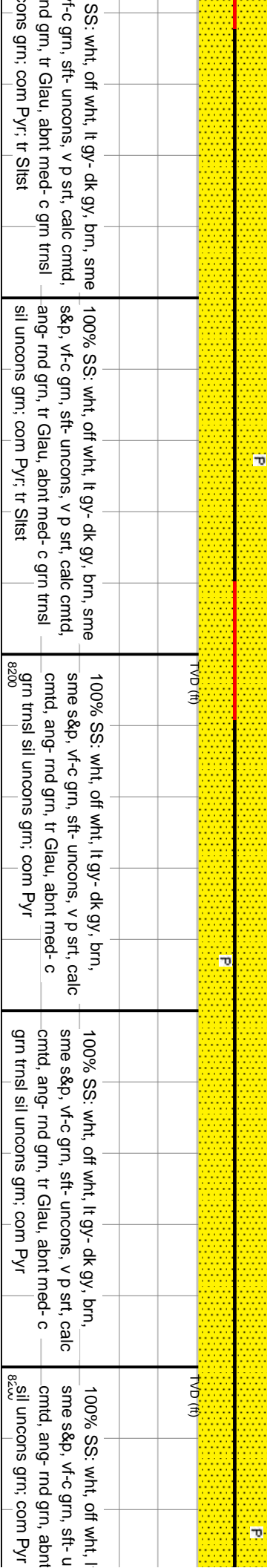
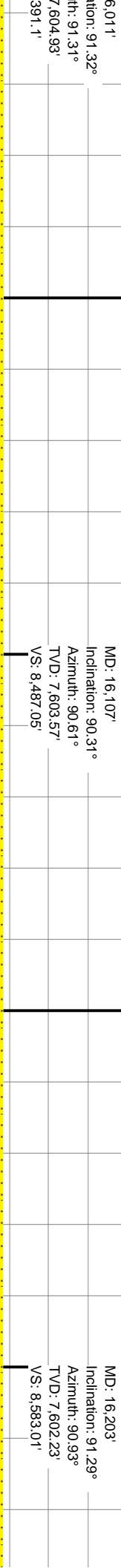
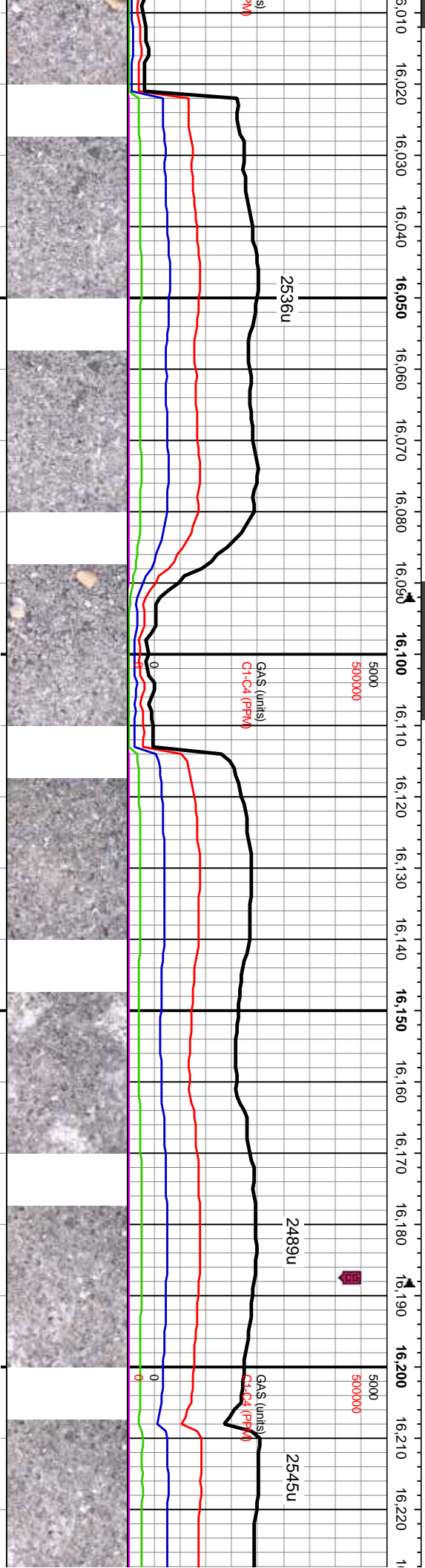
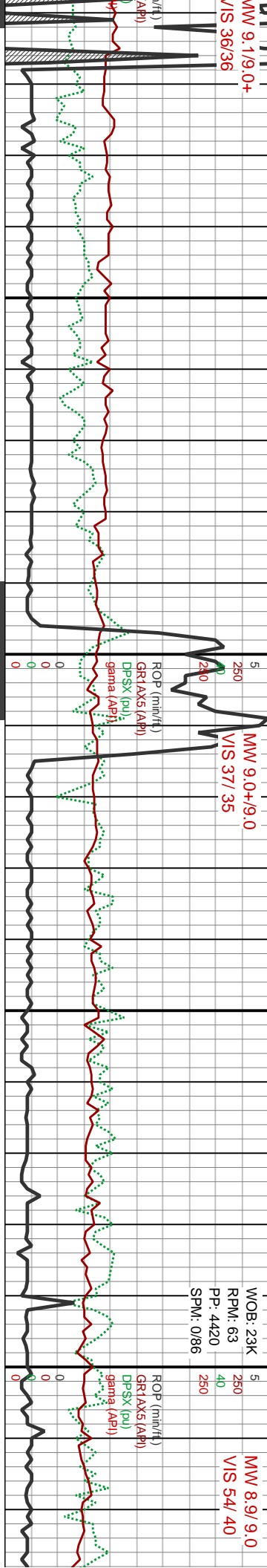
MD: 15,054'
Inclination: 90.43°
Azimuth: 94.51°
TVD: 7,607.9'
VS: 7,438.14'

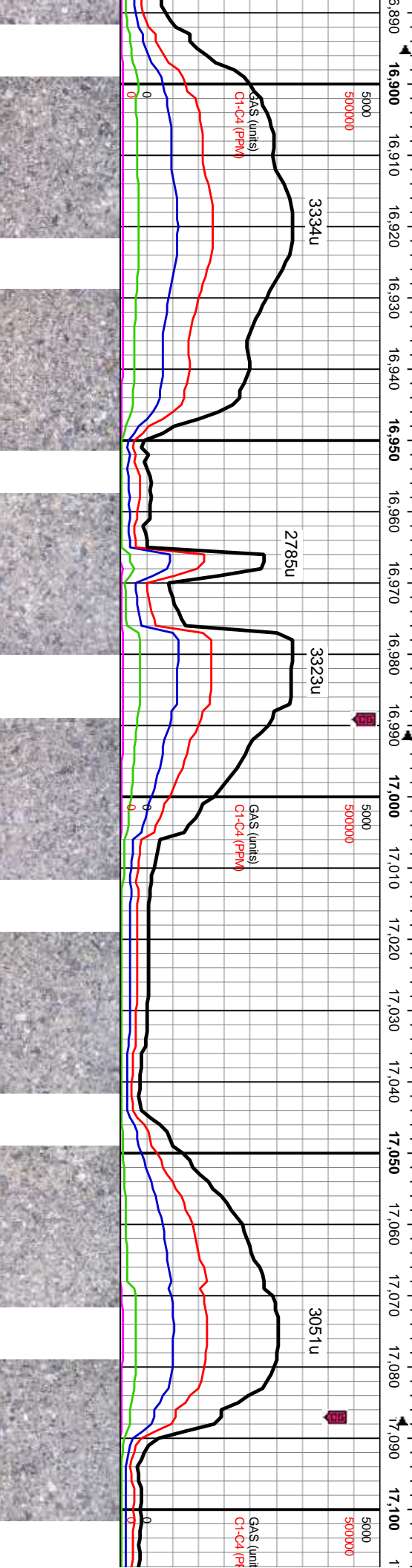
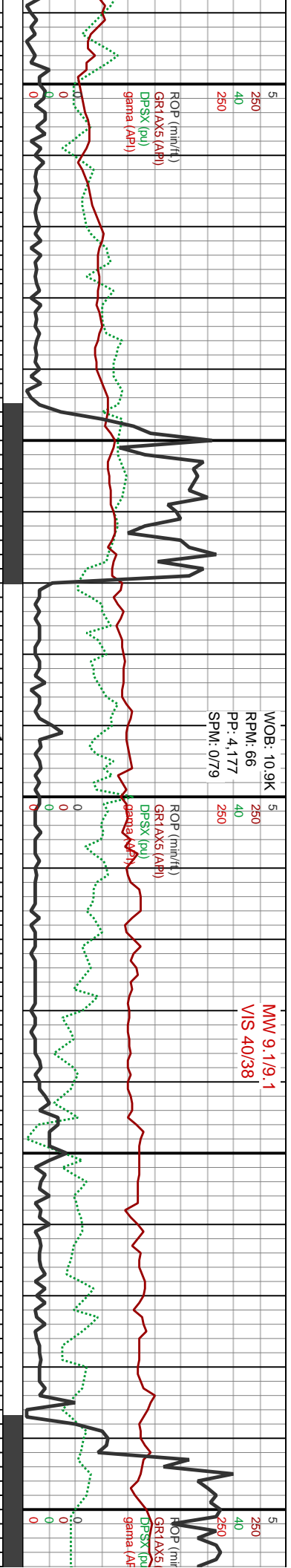


SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	80% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	80% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	90% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil
SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	80% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	80% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	90% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil
SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	80% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	80% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil	90% SS: wht, off wht, lt gy- dk gy, brn, s&p, v f-c grn, sft- uncon, v p srt, calc cmtd, ang- rnd grn, tr Glau, abnt med- c grn trnsil sil

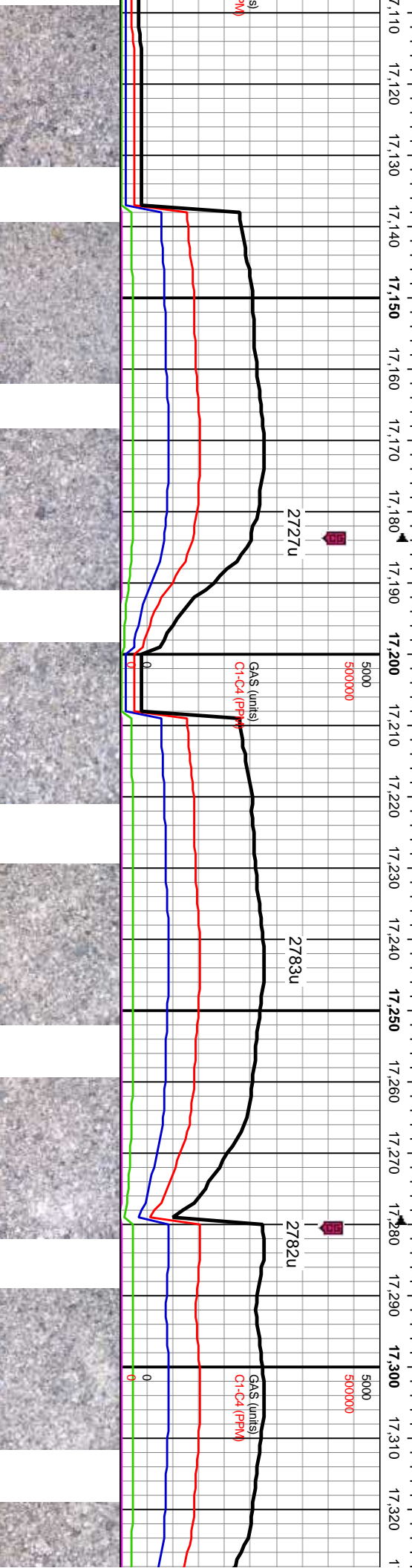
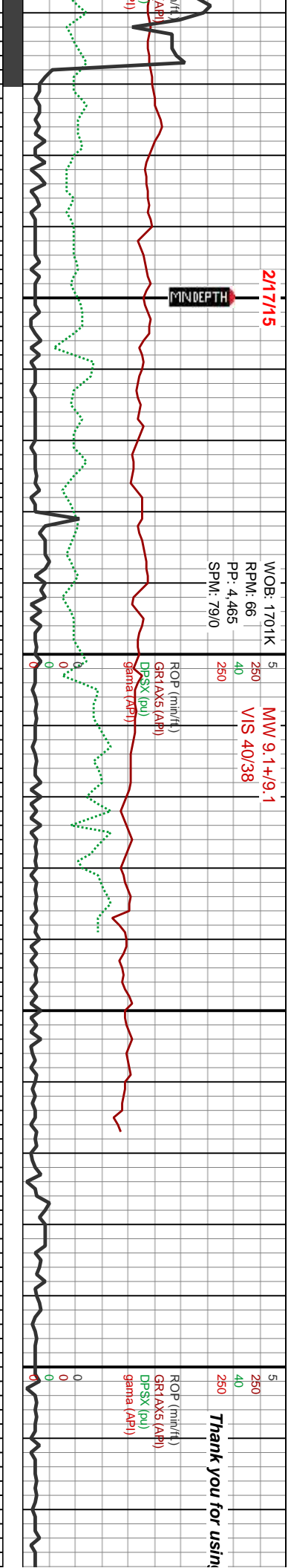




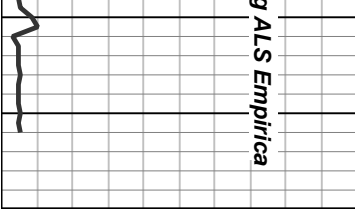




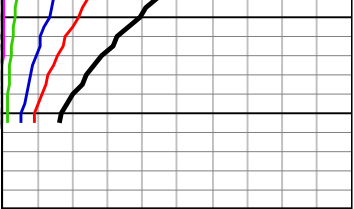
72MD: 16.909' Inclination: 89.14° Azimuth: 87.14° TVD: 7.600.92' VS: 9.288.42'		MD: 17.005' Inclination: 87.81° Azimuth: 87.57° TVD: 7.603.48' VS: 9.384.33'		MD: 17.100' Inclination: 89.4° Azimuth: 88.71° TVD: 7.605.78' VS: 9.479.27'	
100% SS: lt gy-dk gy, sme brn-whi, sme s&p, vf-c grn, sft-uncons, v p srt, calc cmtld, sb ang-rnd grn, com med-c grn	100% SS: lt gy-dk gy, sme brn-whi, sme s&p, vf-c grn, sft-uncons, v p srt, calc cmtld, sb ang-rnd grn, com med-c grn	100% SS: lt gy-dk gy, sme brn-whi, sme s&p, vf-c grn, sft-uncons, v p srt, calc cmtld, sb ang-rnd grn, com med-c grn	100% SS: lt gy-dk gy, sme brn-whi, sme s&p, vf-c grn, sft-uncons, v p srt, calc cmtld, sb ang-rnd grn, com med-c grn	100% SS: lt gy-dk gy, sme brn-whi, sme s&p, vf-c grn, sft-uncons, v p srt, calc cmtld, sb ang-rnd grn, com med-c grn	100% SS: lt gy-dk gy, sme brn-whi, sme s&p, vf-c grn, sft-uncons, v p srt, calc cmtld, sb ang-rnd grn, com med-c grn
8200'	8200'	8200'	8200'	8200'	8200'

[illegible]

g ALS Empirica



7,330 17,340 17,;



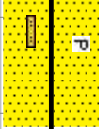
it: MD: 17,342'

Inclination: 92.19°

Azimuth: 88.89°

TVD: 7,599.97'

VS: 9,721.17'



urs 02/17/2015

me brn-whi,
ncons, v p srt,
rn, com med-c
pyr, tr sltst