



Scale: 5" / 100'
Measured Depth Log

Well Name CritterCreek_278-1527H_Horizontal

Location Critter Creek Pad 15-11N-63W

State Colorado

County Weld

Country USA

Rig Number Cade 23

API Number 05-123-44711

AFE # 22017003

Geographic Region Rockies

Field Hereford

Spud Date 5/16/2017

Drilling Completed 7/14/2017

Surface Coordinates 40.915953 -104.415617

SHL 279'FSL & 1,690'FEL, SEC.15

Bottom Hole Coordinates BHL 300'FSL & 1,650'FEL, SEC.27

Ground Elevation 5,228'

K.B. Elevation 5,244'

Logged Interval 3,000' To 17,844'

Total Depth 17,844

Formation Niobrara B Marl

Type of Drilling Fluid Oil Based Mud

Operator

Company Fifthcreek

Address 5251 DTC Parkway, Suite 420
Greenwood Village, Colorado 80111



Geologist

Name Ben Burke, Aryn Rowe

Company Fifth Creek Energy

Address 5251 DTC Parkway, Suite 420
Greenwood Village, Colorado 80111



Other

Logging Services Provided By: ALS Oil & Gas Heather Davis/ C

Services: Yellow Box ML-5
XRD & XRF
Pyralisis

Service start Date: 07/04/2017

Service Release Date: 07/14/17

Zone Color Coding

Oil

Note

Error

Condensate

Core

Water

Gas

Pressure

Seal

Rock Types

UNKNOWN

ANHYDRITE

GYPSUM

SALT

CHALK

LIMESTONE

DOLOMITE

CHERT

COAL

MARLSTONE

CLAYSTONE

SHALE

SHALE GRAY

SHALE COLORED

SILTSTONE

SANDSTONE

CONGLOMERATE

BRECCIA

TILL

BENTONITE

TUFF

IGNEOUS

METAMORPHIC

CEMENT

Accessories

Fossils

F FOSSIL

GASTROPOD

ALGAE

AMPHIPORA

BELEMNITE

BIOCLASTIC

BRACHIOPOD

BRYOZOA

CEPHALOPOD

CORAL

CRINOID

ECHINOID

FISH

FORAMINIFERA

ARGILLACEOUS

ARGILLITE GRAIN

B BENTONITE

BITUMINOUS SUBSTANCE

BRECCIA FRAGMENTS

CALCAREOUS

CARBONACEOUS FLAKES

CHTDK

CHTLT

COAL - THIN BEDS

DOLOMITIC

+ FELDSPAR

● FERRUGINOUS PELLET

> FERRUGINOUS

ANHYDRITIC

GLAUCONITE

GYPSIFEROUS

H HEAVY MINERAL

K KAOLIN

M MARLSTONE

M MINERAL CRYSTALS

N NODULES

● PHOSPHATE PELLET

P PYRITE

B SALT CAST

S SANDY

> SILICEOUS

> SILTY

> TUFFACEOUS

Stringer

ANHYDRITE STRINGER

BENTONITE STRINGER

COAL STRINGER

DOLOMITE STRINGER

GYPSUM STRINGER

LIMESTONE STRINGER

MARLSTONE (CALC) STRG

MARLSTONE (DOL) STRG

SANDSTONE STRINGER

SHALE STRINGER

SILTSTONE STRINGER

Other Symbols

ORGANIC

PINPOINT

DEAD

EVEN

QUESTIONABLE

SPOTTED STAINING

CASING

CONNECTION (LEFT)

CONNECTION (RIGHT)

FENESTRAL

F FRACTURE

X INTERCRYSTALLINE

> INTEROOLITIC

M MOLDIC

GAS S

MINDEPTH

VUGVY

NORM

OIL SH

OVERTURN

REVERSAL

SIDEW

SLIDE

SURVEY

TRIP

WIRELINE

WIRELINE

FAULT

WIRELINE

Oil Show

Engineering

Porosity

Symbols

FORMATION TOP L LITHOGRAPHIC

Rounding

HOW M_X MICROXLN

MIN DEPTH A₁ ANGULAR M_S MUDSTONE

LOCAL FAULT R₁ ROUNDED P_S PACKSTONE

LOW B₁ SUBANG W_S WACKESTONE

TURNED STRATA P₁ SUBRND

Sorting

SE FAULT

Textures

ALL CORE (LEFT) M₁ MODERATE

ALL CORE (RIGHT) B_S BOUNDSTONE P₁ POOR

C₁ CHALKY W₁ WELL

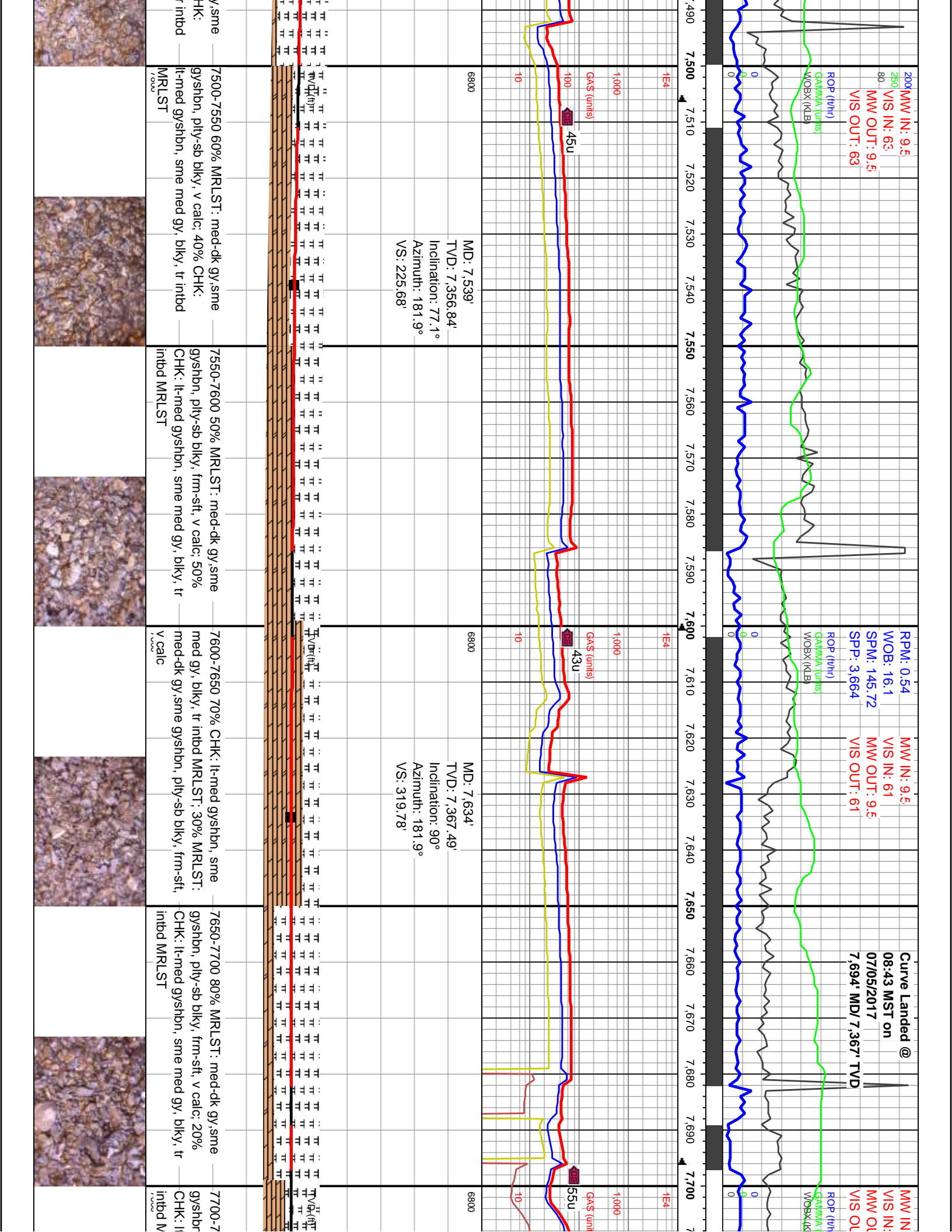
CRYEY C_X CRYPTOXLN

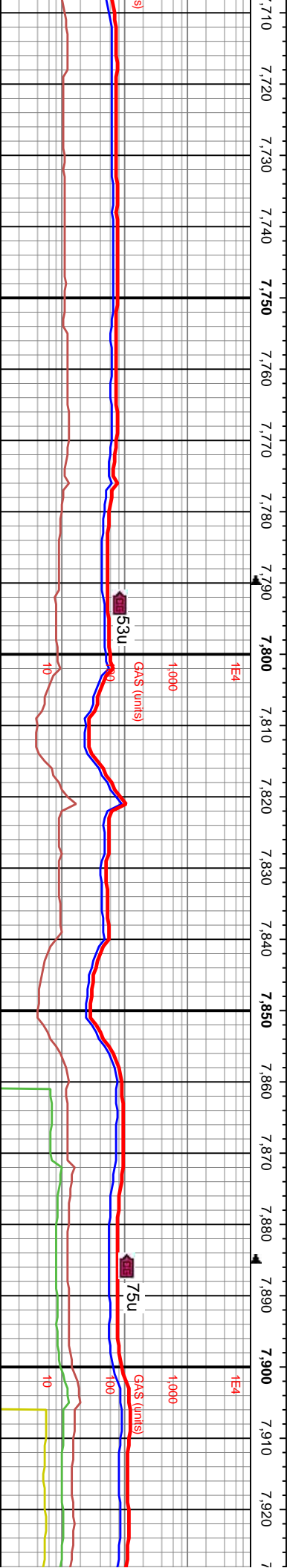
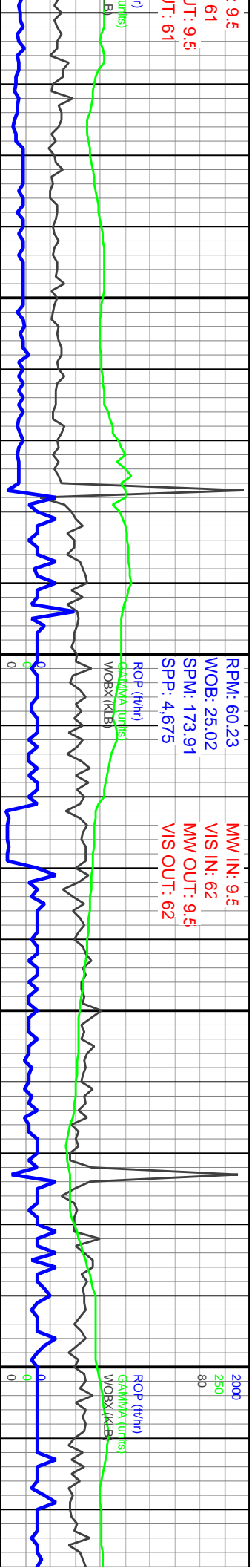
GAS E₁ EARTHY

NE TESTED - LEFT F_X FINELYXLN

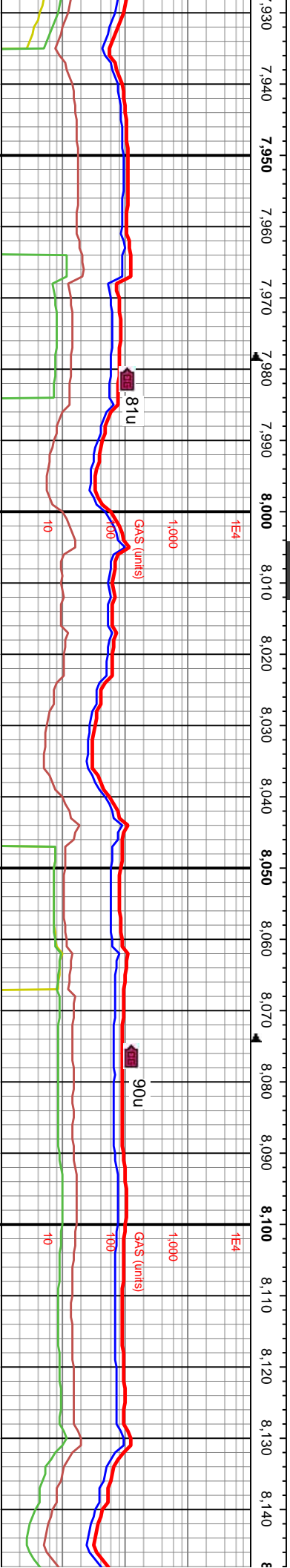
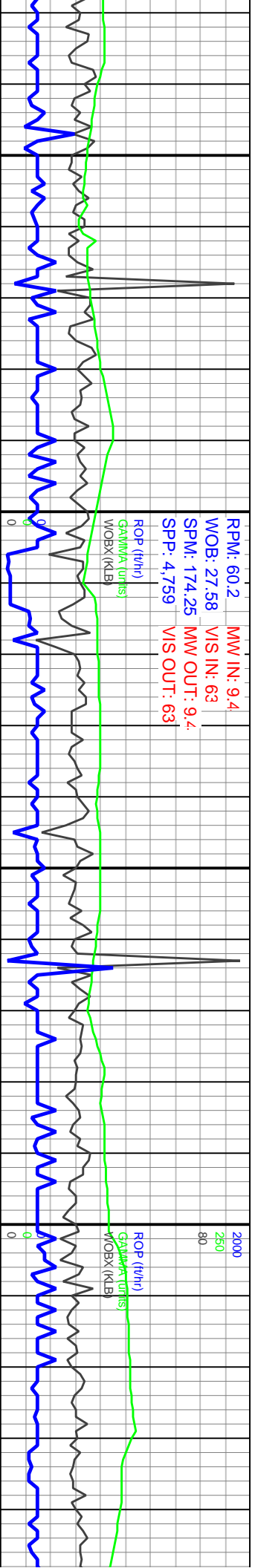
NE TESTED - RT G_S GRANSTONE

<div><div>ROP</div><div>GAAMMA</div><div>WOBX</div></div> <div>Fifth Creek Energy Crittter Creek 278-1527H Weld County, CO Spud Date: 05/15/2017 Surface Casing @1,539' 2 Man Logging/ Mass Spec Began on 07/04/2017 @ 0630 All Depths Correspond to Drillers Pipe Tally</div>		<div>Bit #: 1 Type: PDC Size: 8.75 Depth In: 1,525' Depth Out: 15,398' Hours: 71.26 hrs Avg Ft/Hr: 194.48 /h Jets: 5x18 S/N: 12171835</div> <div>RPM: 0.33 WOB: 18.93 SPM: 140.81 SPP: 3.311</div> <div>ROP (ft/hr) GAAMMA (units) WOBX (KGS)</div>		<div>Slide/Rotate</div> <div>Depth Labels</div> <div>7,3107,3207,3307,3407,3507,3607,3707,3807,3907,4007,4107,4207,4307,4407,4507,4607,4707,4807</div>	
<div>Total Gas & Chromatograph</div> <div><div>GAS</div><div>C1</div><div>C2</div><div>C3</div><div>C4</div></div> <div>SYSTEM CALIBRATED, 1% Methane = 100 units, 100% Methane = 10000 units</div>		<div>Note: Using Yellow Box ML-505 for Gas, ROP & WOBX</div> <div>Gas (units)</div> <div>10000 1000 100 10</div> <div>36u</div> <div>Gas (units)</div> <div>10000 1000 100 10</div>		<div>MD: 7,350' TVD: 7,276.53' Inclination: 53.5° Azimuth: 178.2° VS: 56.1'</div> <div>MD: 7,445' TVD: 7,325.68' Inclination: 64.1° Azimuth: 179.6° VS: 137.24'</div>	
<div>Well Bore</div> <div>TVD</div> <div>TVD (ft)</div> <div>7800</div>		<div>7350-7400 70% MRLST: med-dk gy,sme gysbhn, pty-sb blkyy, v calc: 30% CHK: lt-med gysbhn, sme med gy, blkyy, tr intbd MRLST</div> <div>7400-7450 80% MRLST: med-dk gy,sme gysbhn, pty-sb blkyy, v calc: 20% CHK: lt-med gysbhn, sme med gy, blkyy, tr intbd MRLST</div> <div>7450-7500 90% MRLST: med-dk gy gysbhn, pty-sb blkyy, v calc: 10% C lt-med gysbhn, sme med gy, blkyy, t MRLST</div>		<div>Images</div> <div></div>	



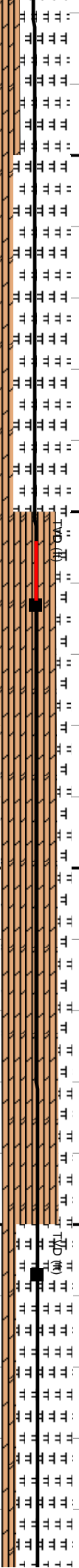


7750-7800 60% MRLST: med-dk gy,sme gyshbn, pily-sb blkyy, frm-sft, v calc; 40% CHK: lt-med gysghbn, sme med gy, blkyy, tr inbtd MRLST	7750-7800 80% MRLST: med-dk gy,sme gyshbn, pily-sb blkyy, frm-sft, v calc; 20% CHK: lt-med gysghbn, sme med gy, blkyy, tr inbtd MRLST	7800-7850 70% MRLST: med-dk gy,sme gyshbn, pily-sb blkyy, frm-sft, v calc; 30% CHK: lt-med gysghbn, sme med gy, blkyy, tr inbtd MRLST	7850-7900 50% MRLST: med-dk gy,sme gyshbn, pily-sb blkyy, frm-sft, v calc; 50% CHK: lt-med gysghbn, sme med gy, blkyy, tr inbtd MRLST	7900-7950 70% MRLST: med-dk gy,sme gyshbn, pily-sb blkyy, frm-sft, v calc; 50% CHK: lt-med gysghbn, sme med gy, blkyy, tr inbtd MRLST
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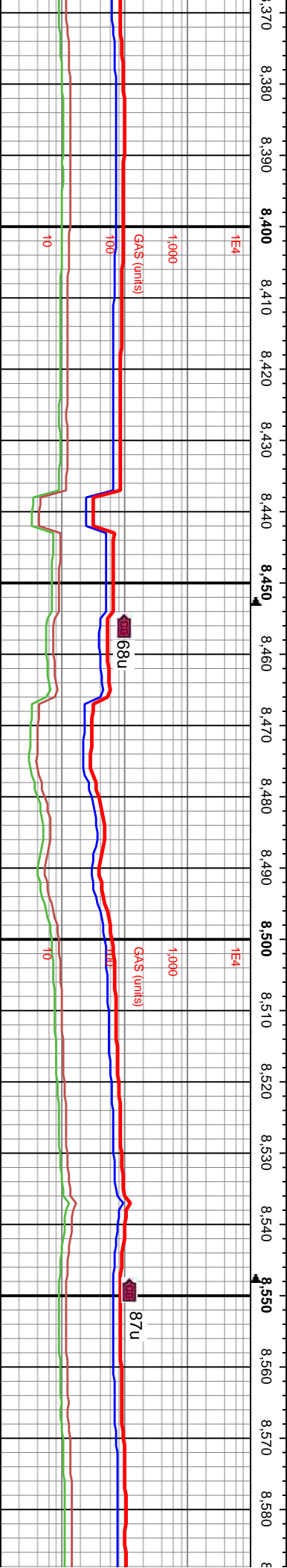
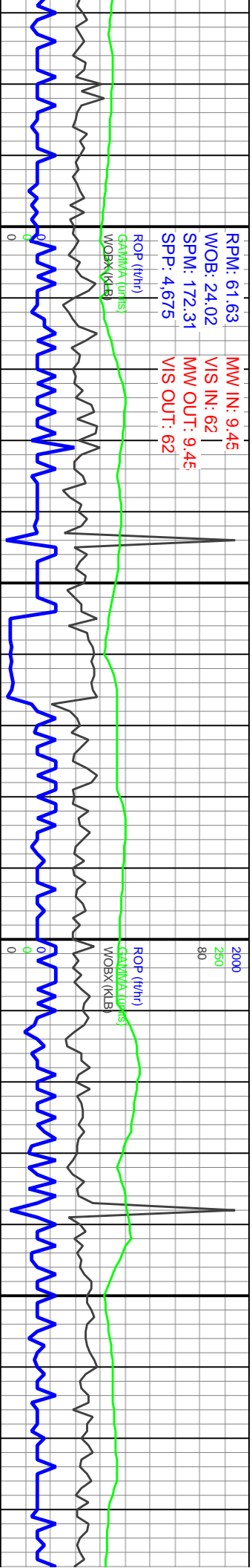
6800 MD: 8,013'
TVD: 7,357.81'
Inclination: 92.9°
Azimuth: 178.6°
VS: 698.55'

MD: 8,107'
TVD: 7,353.87'
Inclination: 91.9°
Azimuth: 178°
VS: 792.45'



med-dk gy, sme sft, v calc; 30% med gy, blk, tr	7950-8000 80% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blk, tr inbnd MRLST	8000-8050 70% CHK: lt-med gysbhn, sme med gy, blk; 30% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc	8050-8100 70% CHK: lt-med gysbhn, sme med gy, blk; 30% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc	8100-8150 80% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blk, v sft
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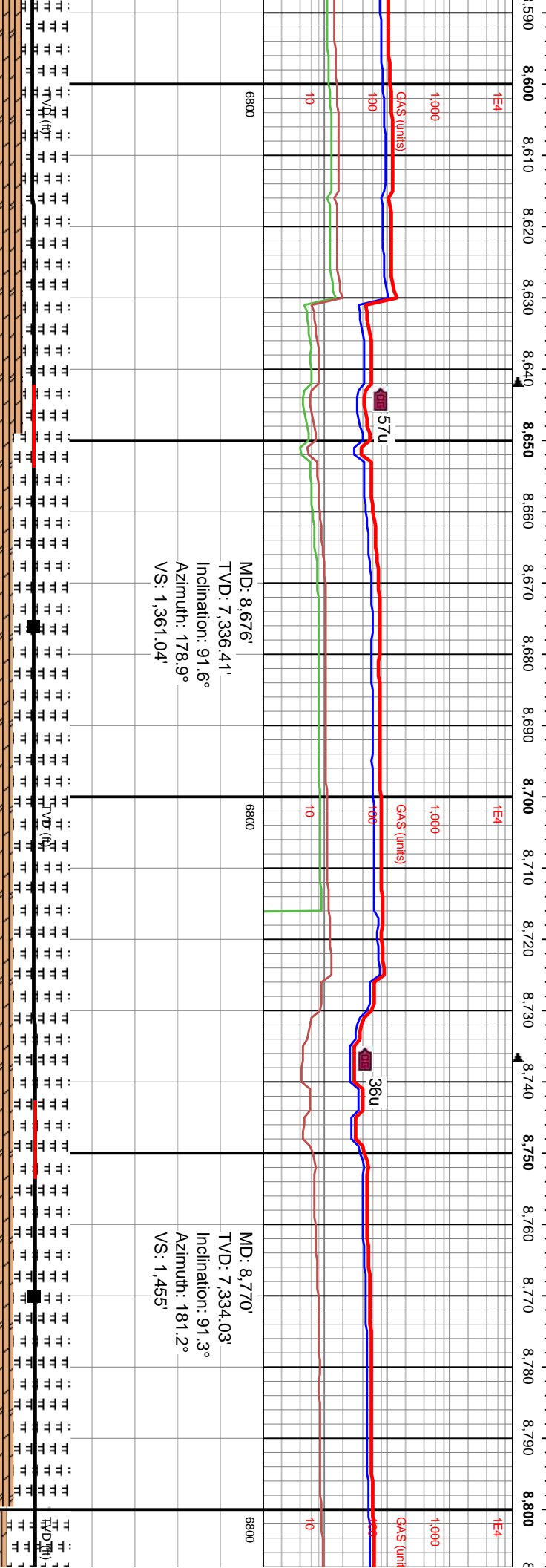
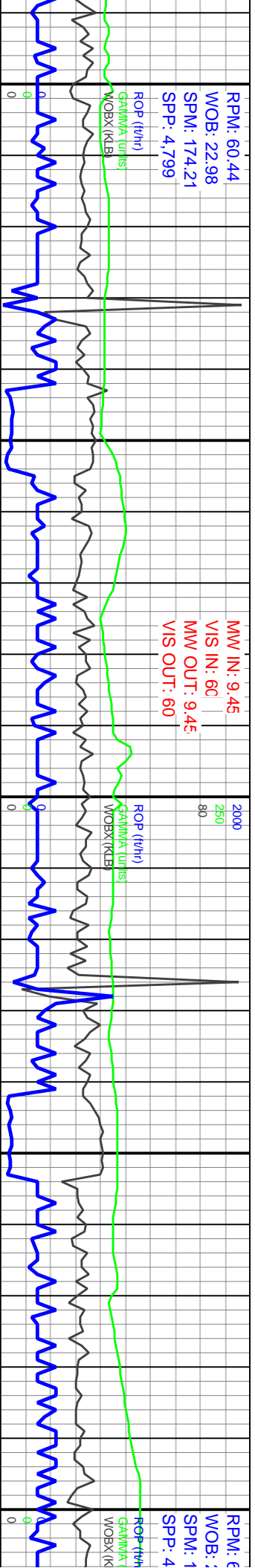
MD: 8,391'
TVD: 7,345.28'
Inclination: 91.3°
Azimuth: 177.7°
VS: 1,076.23'

MD: 8,486'
TVD: 7,342.71'
Inclination: 91.8°
Azimuth: 179.1°
VS: 1,171.18'

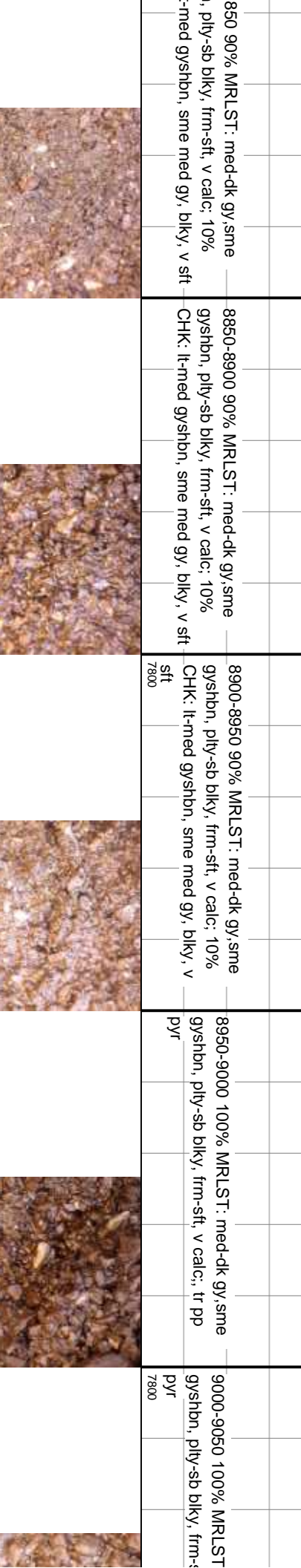
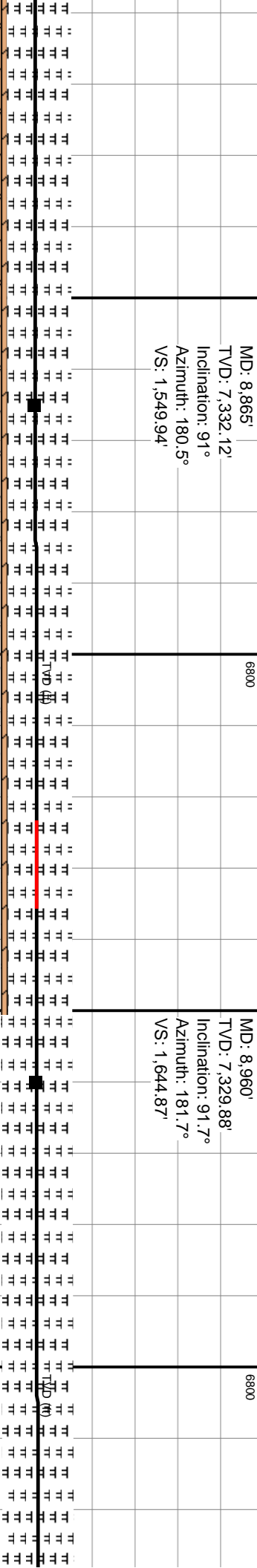
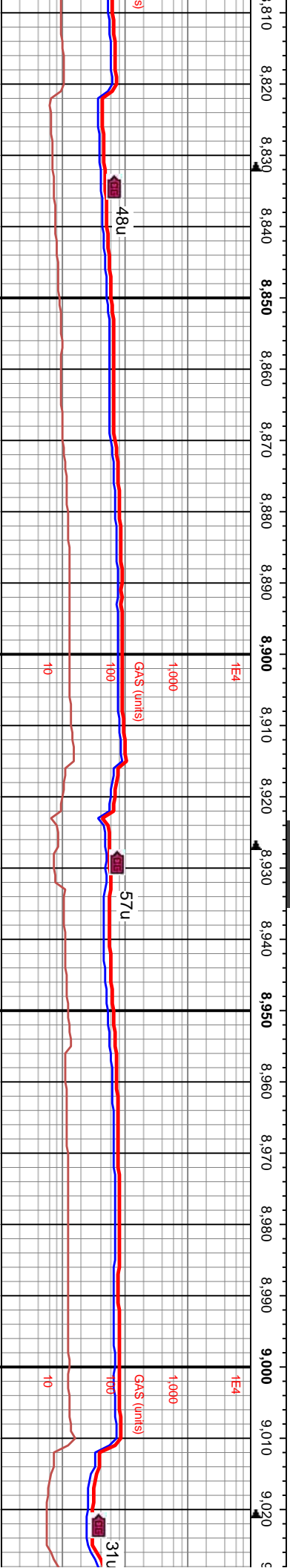
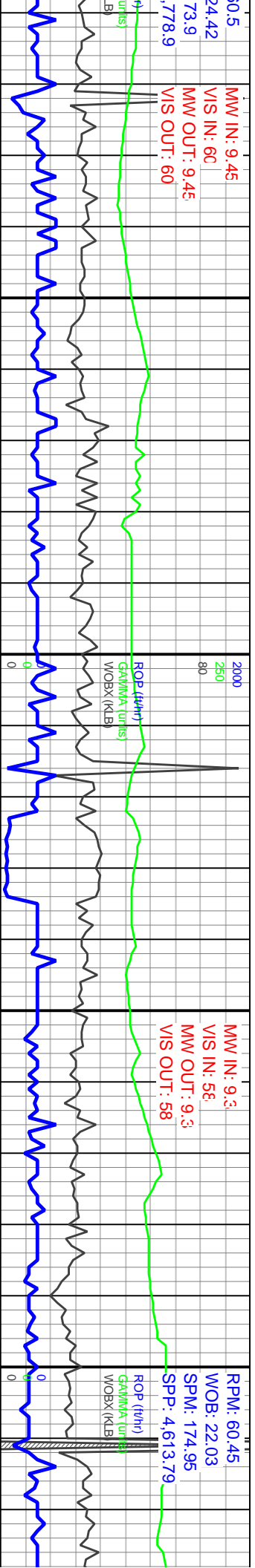
MD: 8,581'
TVD: 7,339.47'
Inclination: 92.1°
Azimuth: 177.5°
VS: 1,266.11'

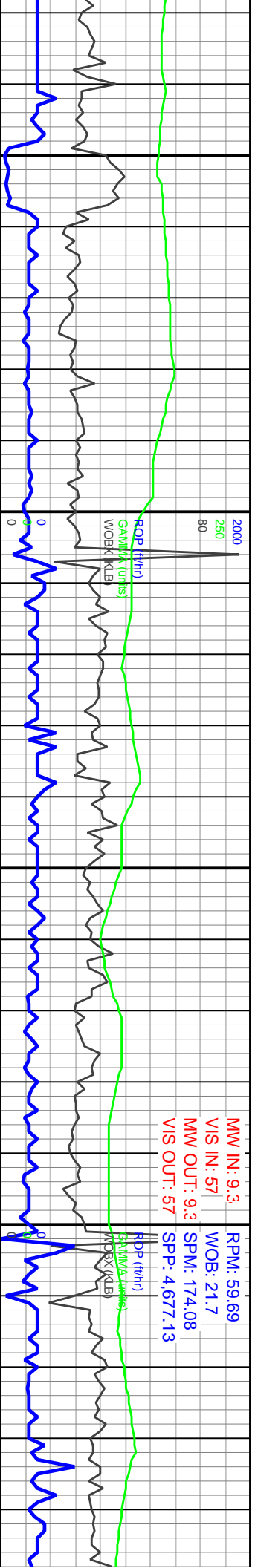
8400-8450 60% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc; 40% CHK: lt-med gysbhn, sme med gy, blk, v sft	8450-8500 65% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc; 35% CHK: lt-med gysbhn, sme med gy, blk, v sft	8500-8550 75% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc; 25% CHK: lt-med gysbhn, sme med gy, blk, v sft	8550-8600 65% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc; CHK: lt-med gysbhn, sme med gy, sft
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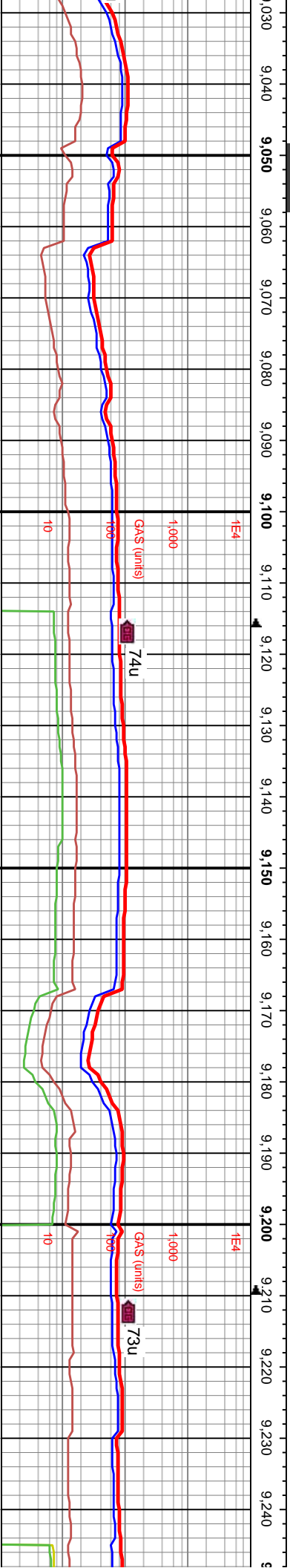


8600-8650 65% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 35% CHK: lt-med gysbhn, sme med gy, blk, v sft	8650-8700 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, v sft	8700-8750 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, v sft	8750-8800 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, v sft	8800-8850 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, v sft
8600	8650	8700	8750	8800





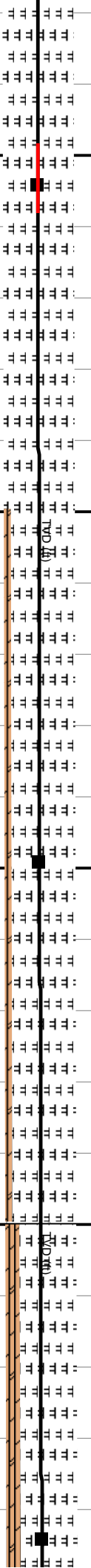
MW IN: 9.3
VIS IN: 57
MW OUT: 9.3
VIS OUT: 57
RPM: 59.69
WOB: 21.7
SPM: 174.08
SPP: 4,677.13



MD: 9,054'
TVD: 7,326.6'
Inclination: 92.3°
Azimuth: 181.2°
VS: 1,738.74'

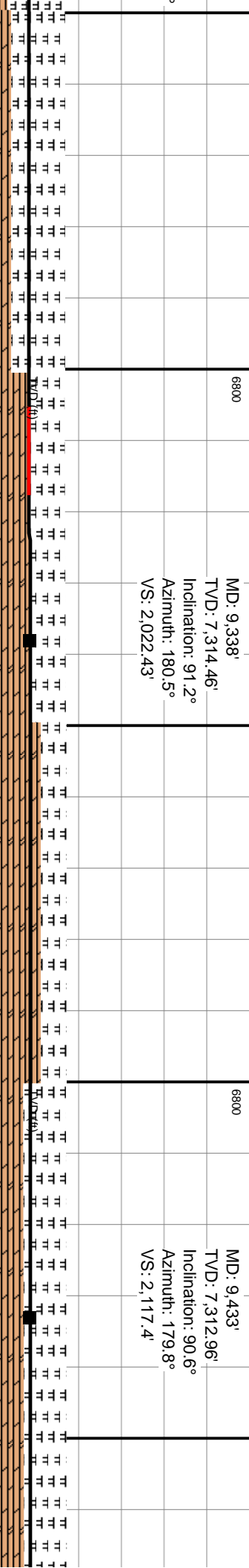
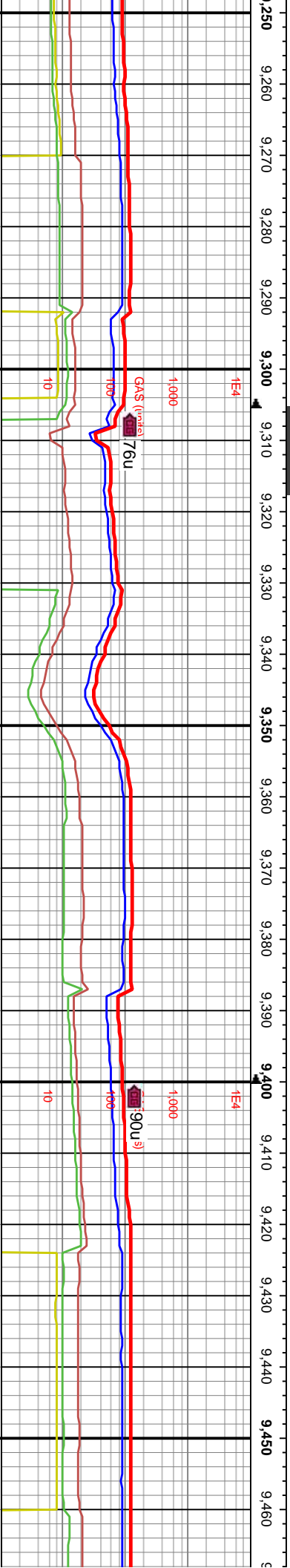
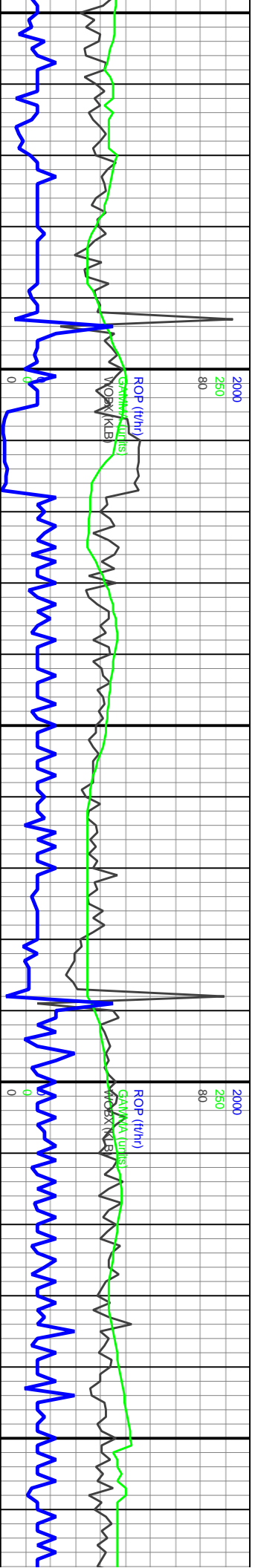
MD: 9,149'
TVD: 7,322.54'
Inclination: 92.6°
Azimuth: 180.2°
VS: 1,833.62'

MD: 9,244'
TVD: 7,317.9'
Inclination: 93°
Azimuth: 179.5°
VS: 1,928.5'

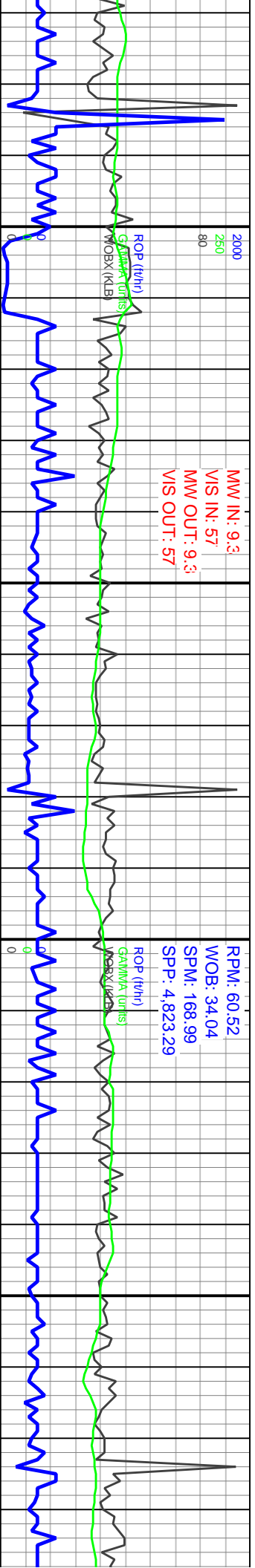


med-dk gy, sme
sft, v calc., tr pp
9050-9100 100% MRLST: med-dk gy, sme
gysbhn, pty-sb blk, frm-sft, v calc., tr pp
pyr
9100-9150 90% MRLST: med-dk gy, sme
gysbhn, pty-sb blk, frm-sft, v calc., 10%
CHK: lt-med gysbhn, sme med gy, blk, v sft
7800
9150-9200 90% MRLST: med-dk gy, sme
gysbhn, pty-sb blk, frm-sft, v calc., 10%
CHK: lt-med gysbhn, sme med gy, blk, v sft
7800
9200-9250 80% MRLST: med-dk gy, sme
gysbhn, pty-sb blk, frm-sft, v calc., 20%
CHK: lt-med gysbhn, sme med gy, blk, v sft
7800

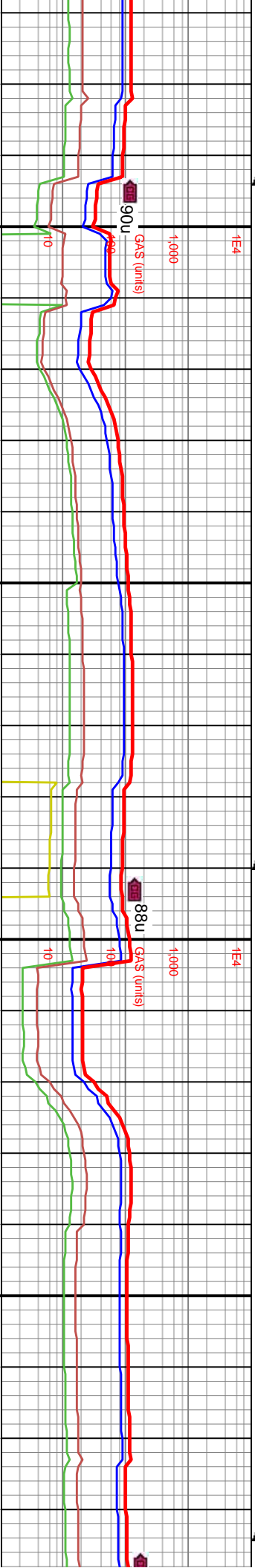




9250-9300 75% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc, 25% CHK: lt-med gysbhn, sme med gy, biky, v sft	9300-9350 50% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc, 50% CHK: lt-med gysbhn, sme med gy, biky, v sft	9350-9400 65% CHK: lt-med gysbhn, sme med gy, biky, v sft, 35% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc, lt pyr nod	9400-9450 60% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc, 40% CHK: lt-med gysbhn, sme med gy, biky, v sft	9450-9500 60% gysbhn, pily-sb CHK: lt-med gy, sft
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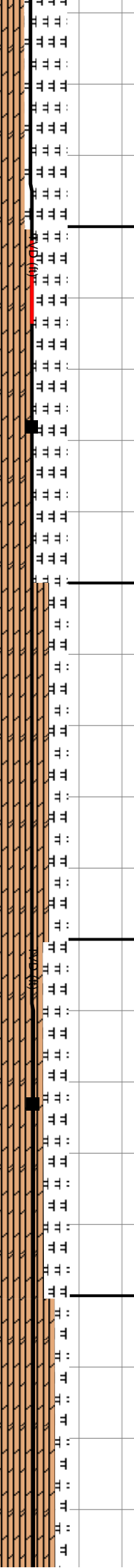


9470 9480 9490 9500 9510 9520 9530 9540 9550 9560 9570 9580 9590 9600 9610 9620 9630 9640 9650 9660 9670 9680



MD: 9,528'
TVD: 7,310.97'
Inclination: 91.8°
Azimuth: 179.8°
VS: 2,212.38'

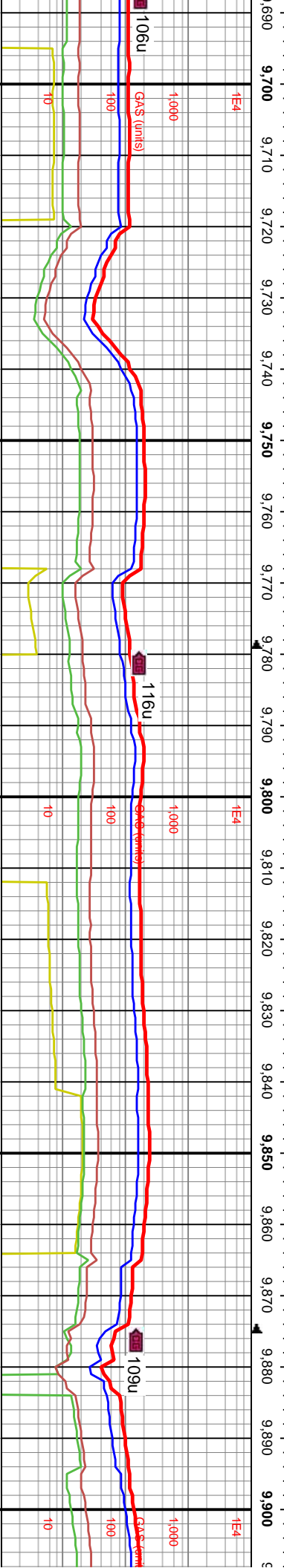
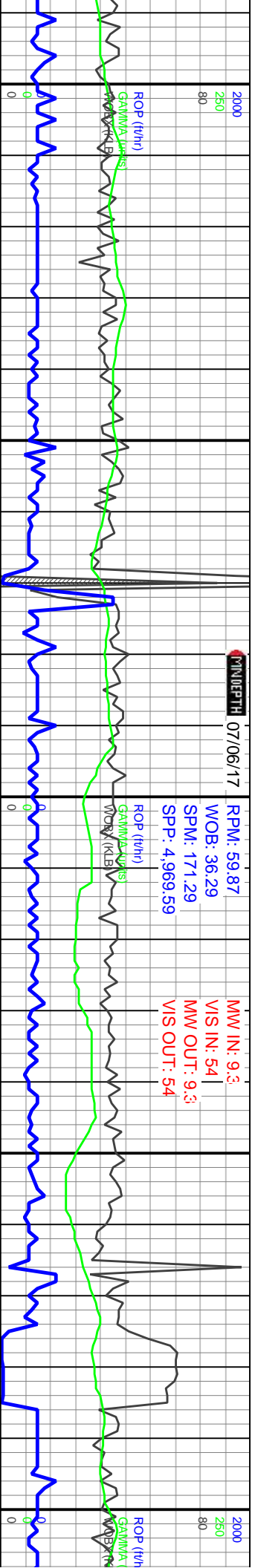
MD: 9,623'
TVD: 7,307.91'
Inclination: 91.9°
Azimuth: 179.5°
VS: 2,307.33'



9470-9480 9480-9490 9490-9500 9500-9510 9510-9520 9520-9530 9530-9540 9540-9550 9550-9560 9560-9570 9570-9580 9580-9590 9590-9600 9600-9610 9610-9620 9620-9630 9630-9640 9640-9650 9650-9660 9660-9670 9670-9680

9470-9480 9480-9490 9490-9500 9500-9510 9510-9520 9520-9530 9530-9540 9540-9550 9550-9560 9560-9570 9570-9580 9580-9590 9590-9600 9600-9610 9610-9620 9620-9630 9630-9640 9640-9650 9650-9660 9660-9670 9670-9680





MD: 9,718'
TVD: 7,304.51'
Inclination: 92.2°
Azimuth: 179.1°
VS: 2,402.26'

MD: 9,813'
TVD: 7,300.53'
Inclination: 92.6°
Azimuth: 178.7°
VS: 2,497.18'

MD: 9,900'
TVD: 7,300.53'
Inclination: 92.6°
Azimuth: 178.7°
VS: 2,497.18'

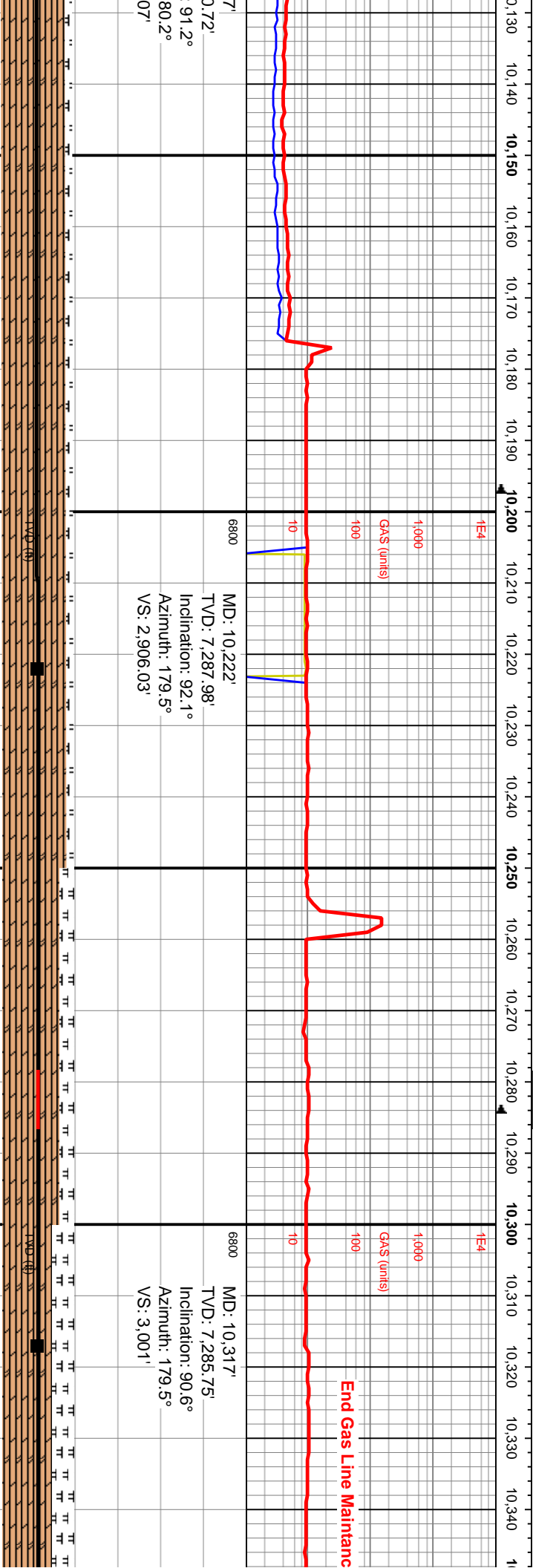
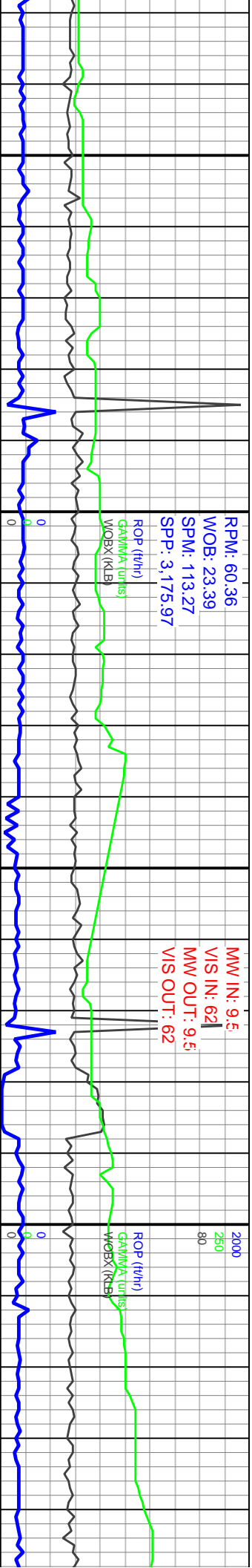
9700-9750 80% CHK: lt-med gysbhn, sme med gy, blk, v sft, 20% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc;

9750-9800 80% CHK: lt-med gysbhn, sme med gy, blk, v sft, 20% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc;

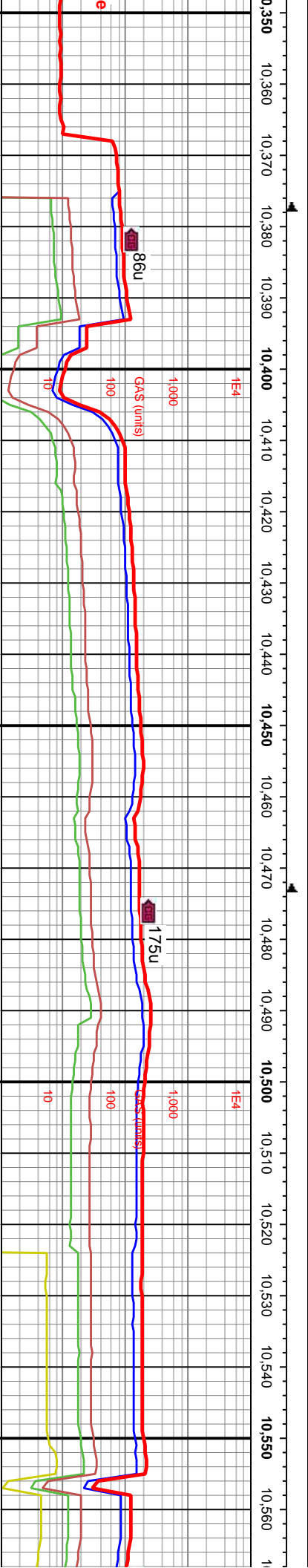
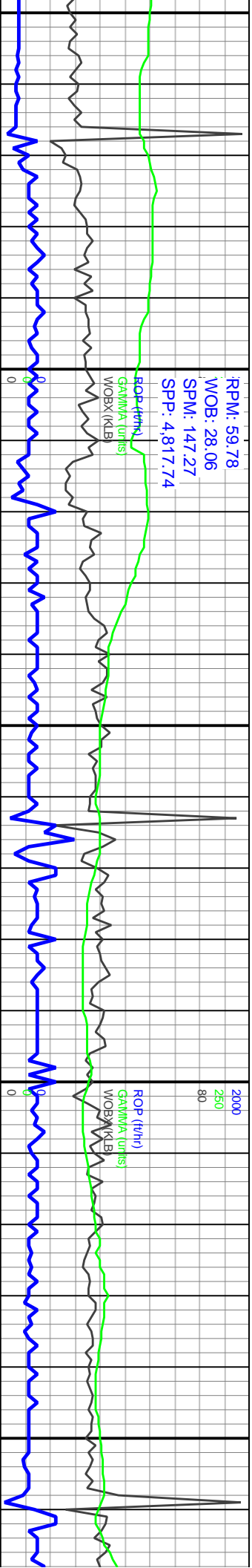
9800-9850 90% CHK: lt-med gysbhn, sme med gy, blk, v sft, 10% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc;

9850-9900 90% CHK: lt-med gysbhn, sme med gy, blk, v sft, 10% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc;

9900-9950 90% CHK: lt-med gysbhn, sme med gy, blk, v sft, 10% MRLST: med-dk gy, sme gysbhn, pty-sb blk, frm-sft, v calc;

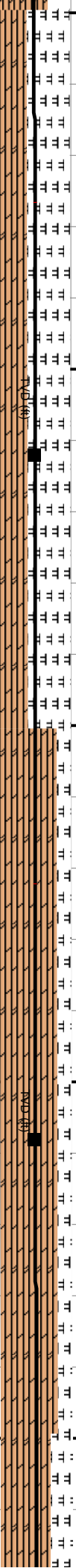


lt-med gysbhn, 9% MRLST: ltly-sb blkly,	10150-10200 90% CHK: lt-med gysbhn, sme med gy, blkly, v sft; 10% MRLST: med-dk gy,sme gysbhn, plty-sb blkly, frm-sft, v calc	10200-10250 90% CHK: lt-med gysbhn, sme med gy, blkly, v sft; 10% MRLST: med-dk gy,sme gysbhn, plty-sb blkly, frm-sft, v calc	10250-10300 80% CHK: lt-med gysbhn, sme med gy, blkly, v sft; 20% MRLST: med-dk gy,sme gysbhn, plty-sb blkly, frm-sft, v calc	10300-10350 70% CHK: lt-med gysbhn, sme med gy, blkly, v sft; 30% MRLST: med-dk gy,sme gysbhn, plty-sb blkly, frm-sft, v calc
				
				

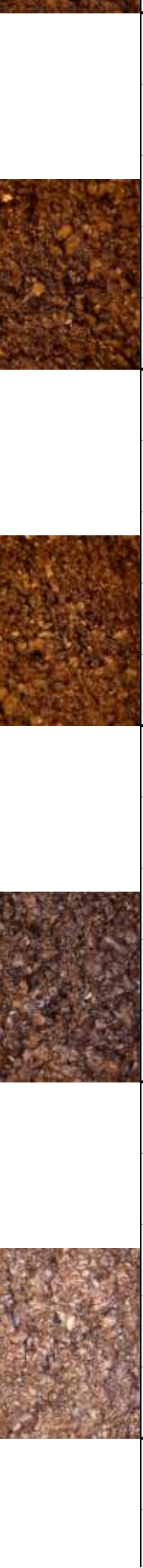


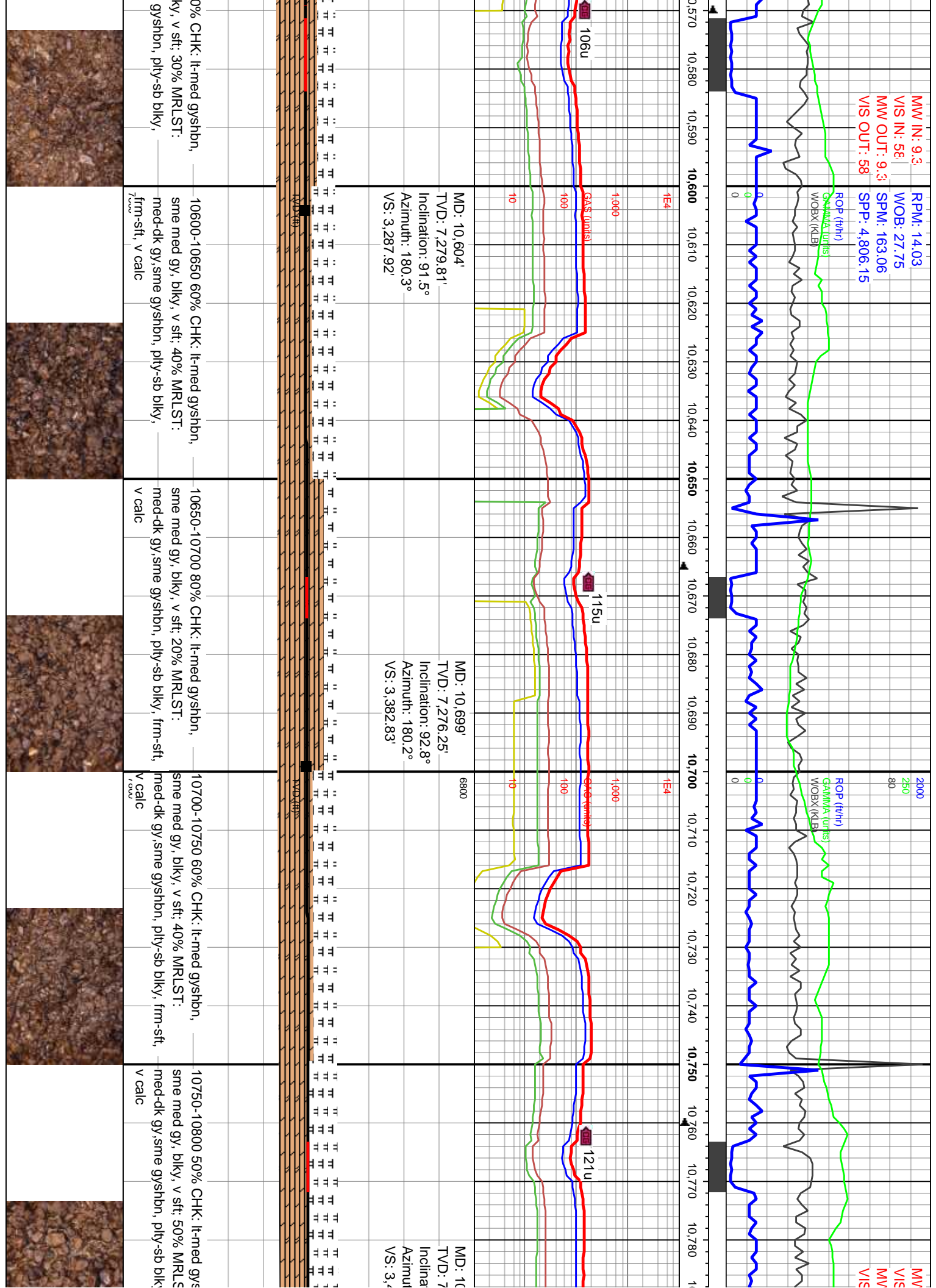
6^{ft}MD: 10,412'
TVD: 7,284.25'
Inclination: 91.2°
Azimuth: 178.6°
VS: 3,095.98'

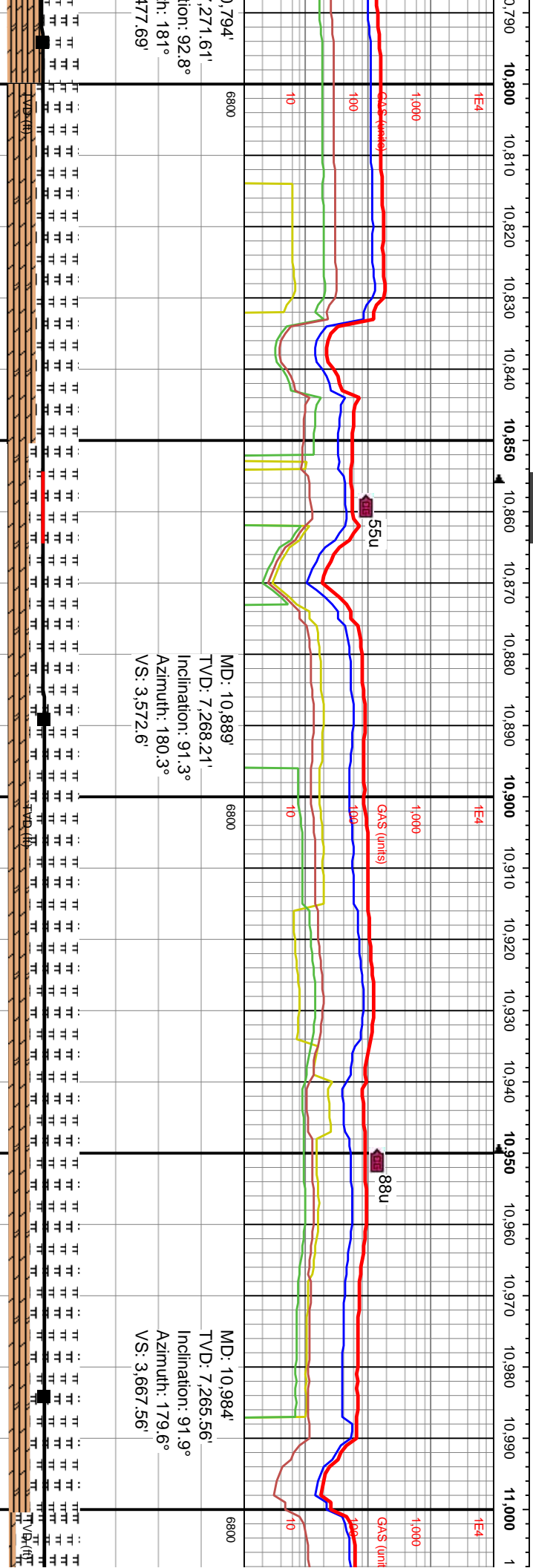
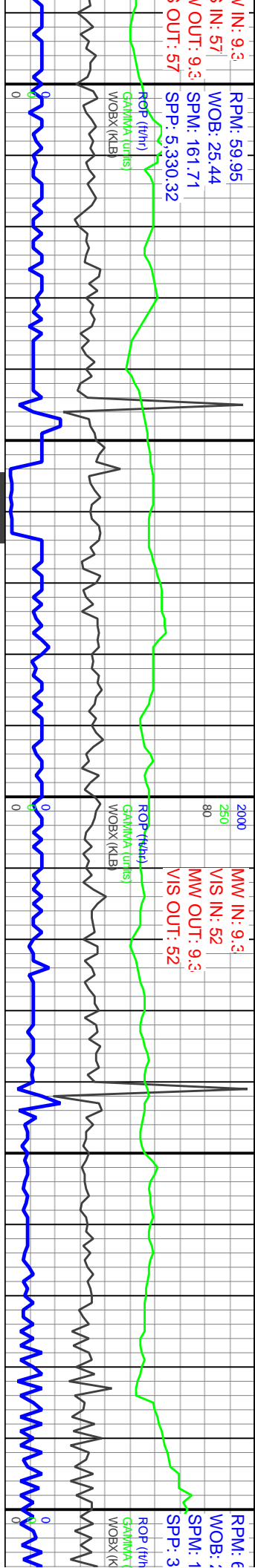
MD: 10,508'
TVD: 7,282.16'
Inclination: 91.3°
Azimuth: 178.4°
VS: 3,191.95'



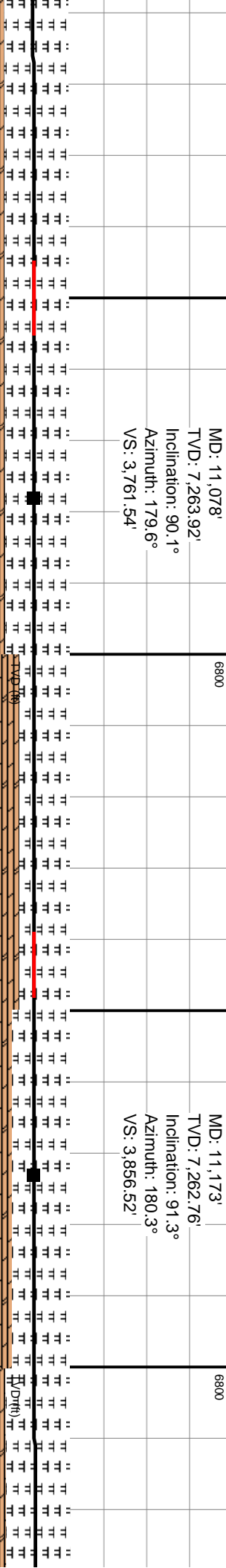
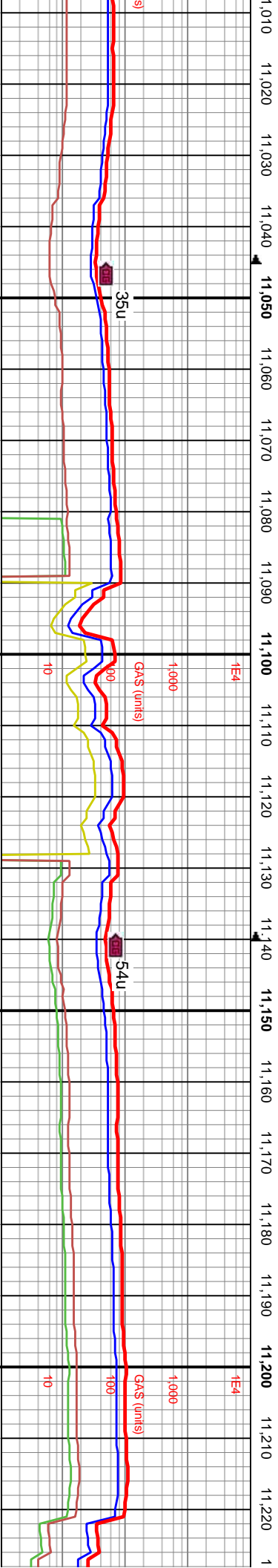
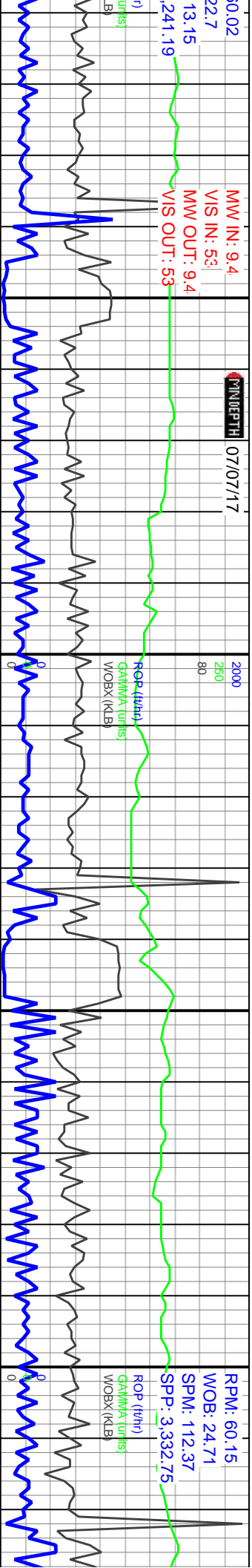
10350-10400 60% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc; 40% CHK: lt-med gysbhn, sme med gy, blkyy, v sft	10400-10450 60% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc; 40% CHK: lt-med gysbhn, sme med gy, blkyy, v sft	10450-10500 80% CHK: lt-med gysbhn, sme med gy, blkyy, v sft; 20% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc	10500-10550 80% CHK: lt-med gysbhn, sme med gy, blkyy, v sft; 20% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc	10550-10600 70% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc
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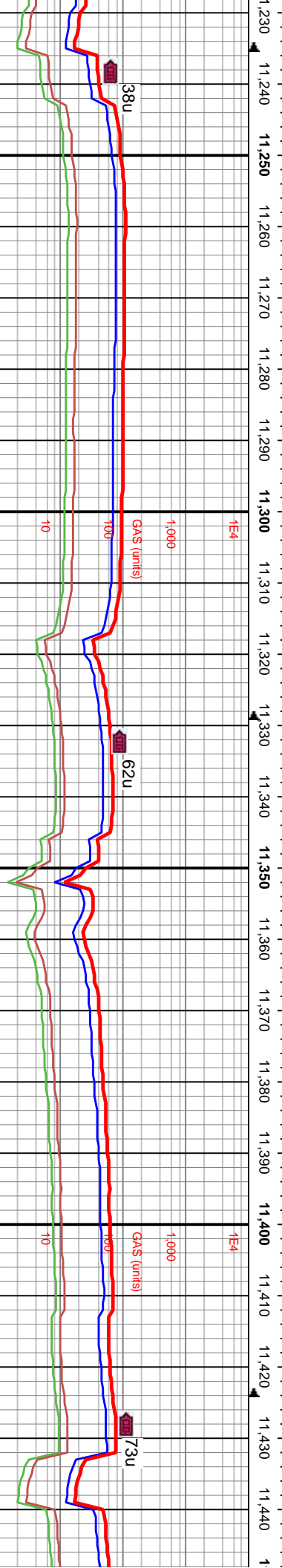
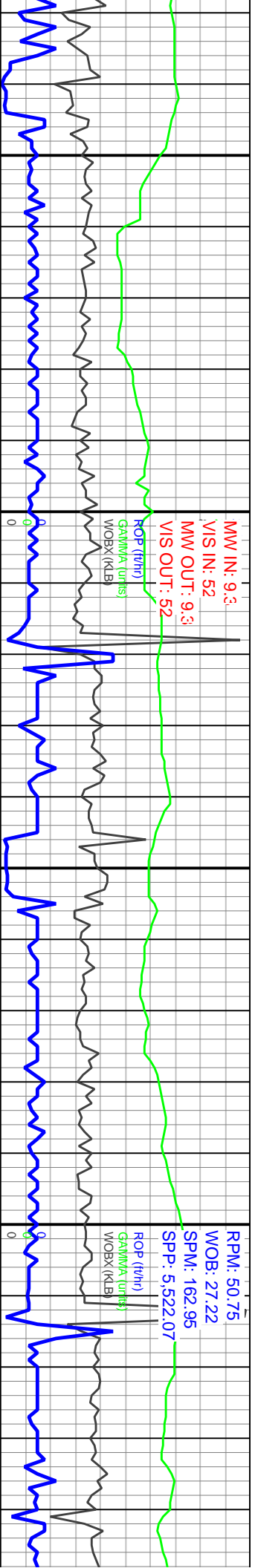




10800-10850 60% MRLST: med-dk gy,sme gysbhn, ply-sb blk, frm-sft, v calc; 40% CHK: lt-med gysbhn, sme med gy, blk, v sft; tr fos	10850-10900 70% MRLST: med-dk gy,sme gysbhn, ply-sb blk, frm-sft, v calc; 30% CHK: lt-med gysbhn, sme med gy, blk, v sft; tr fos	10900-10950 70% MRLST: med-dk gy,sme gysbhn, ply-sb blk, frm-sft, v calc; 30% CHK: lt-med gysbhn, sme med gy, blk, v sft; tr fos	10950-11000 70% MRLST: med-dk gy,sme gysbhn, ply-sb blk, frm-sft, v calc; 30% CHK: lt-med gysbhn, sme med gy, blk, v sft; tr fos	11000- gysbhn CHK: lt-med
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11050 90% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, biky	11050-11100 90% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, biky	11100-11150 70% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc: 30% CHK: lt-med gysbhn, sme med gy, biky, v sft, tr fos	11150-11200 80% MRLST: med-dk gy,sme gysbhn, pily-sb biky, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, biky	11200-11250 90% MRLS gysbhn, pily-sb biky, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, biky
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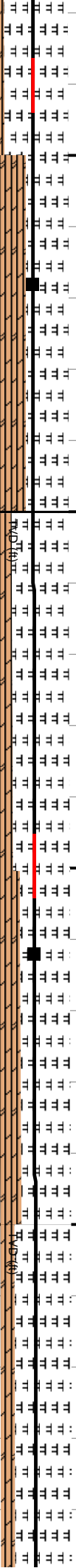


MD: 11,268'
TVD: 7,260.02'
Inclination: 92°
Azimuth: 179.3°
VS: 3,951.48'

6800

MD: 11,362'
TVD: 7,256.33'
Inclination: 92.5°
Azimuth: 180.2°
VS: 4,045.4'

6800



med-dk gy, sme
sft, v calc; 10%
med gy, blkly

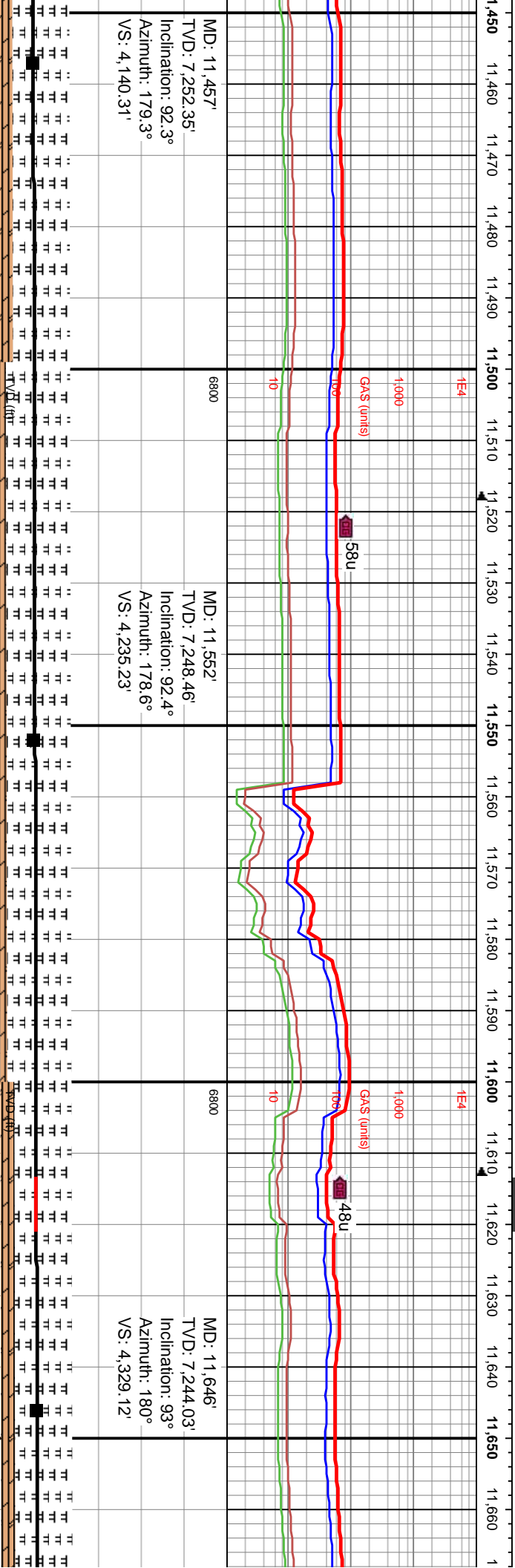
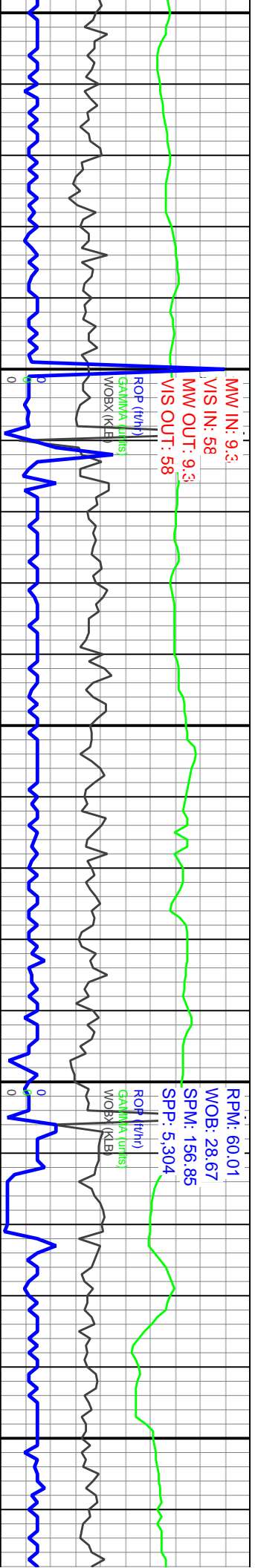
11250-11300 60% MRLST: med-dk
gy, sme gysbhn, pily-sb blkly, frm-sft, v calc;
40% CHK: lt-med gysbhn, sme med gy,
blkly, v sft; tr fos

11300-11350 80% MRLST: med-dk gy, sme
gysbhn, pily-sb blkly, frm-sft, v calc; 20%
CHK: lt-med gysbhn, sme med gy, blkly

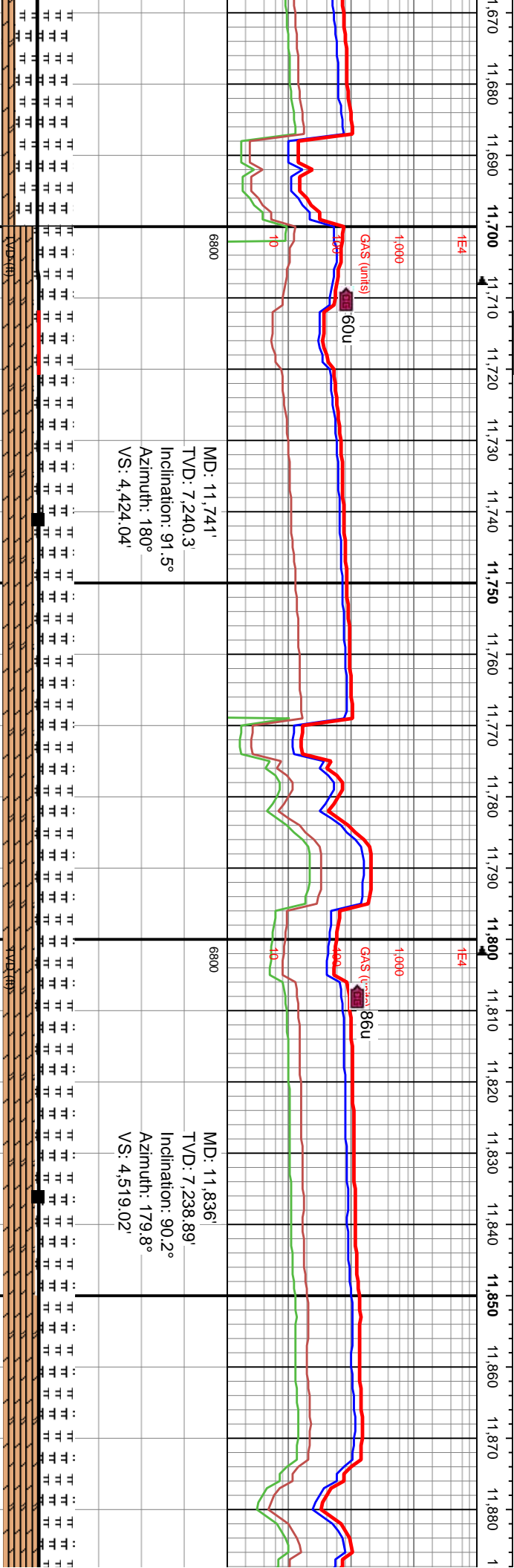
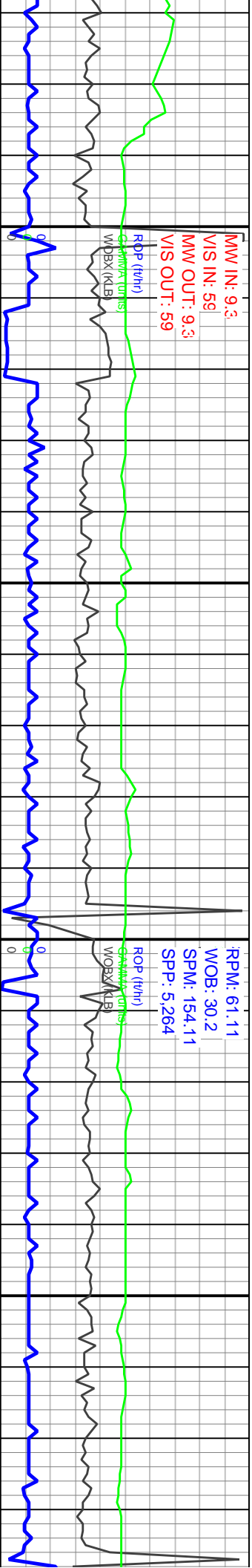
11350-11400 70% MRLST: med-dk gy, sme
gysbhn, pily-sb blkly, frm-sft, v calc; 30%
CHK: lt-med gysbhn, sme med gy, blkly, v
sft; tr fos

11400-11450 80% MRLST: med-dk gy, sme
gysbhn, pily-sb blkly, frm-sft, v calc; 20%
CHK: lt-med gysbhn, sme med gy, blkly

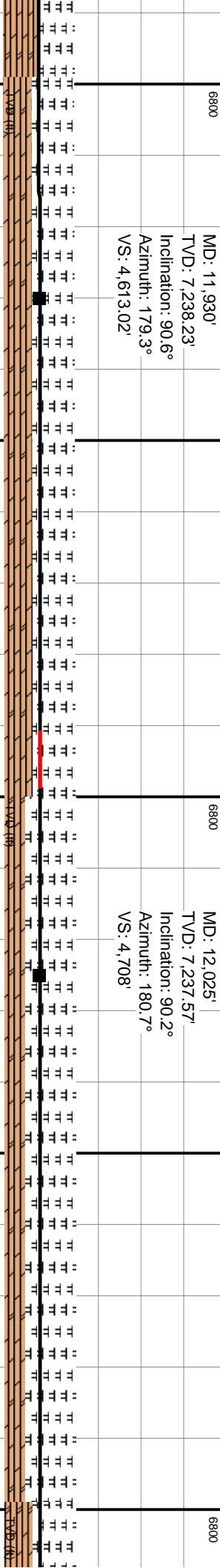
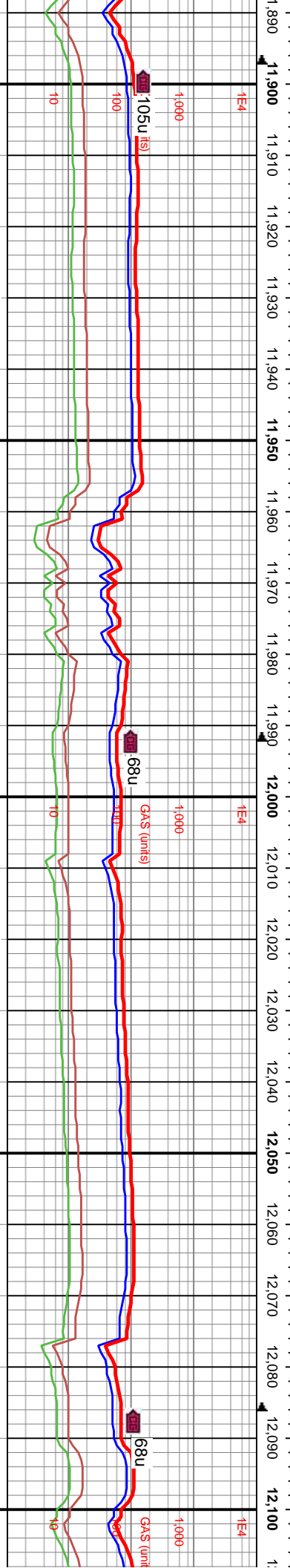
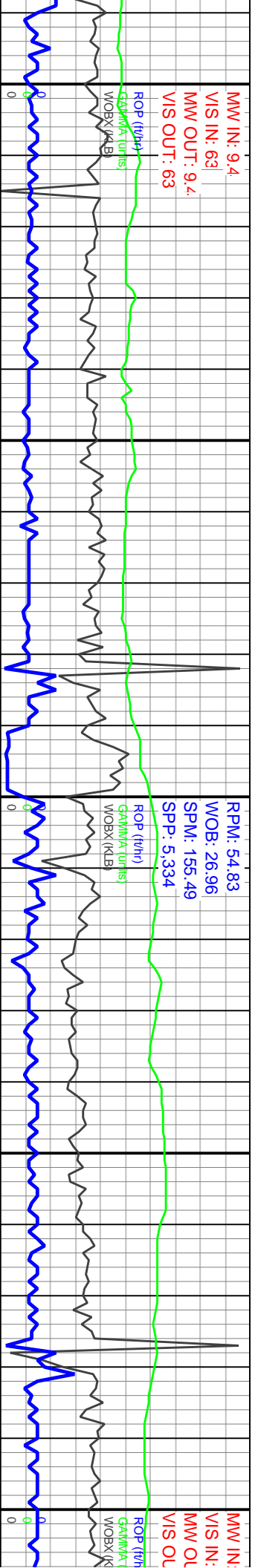




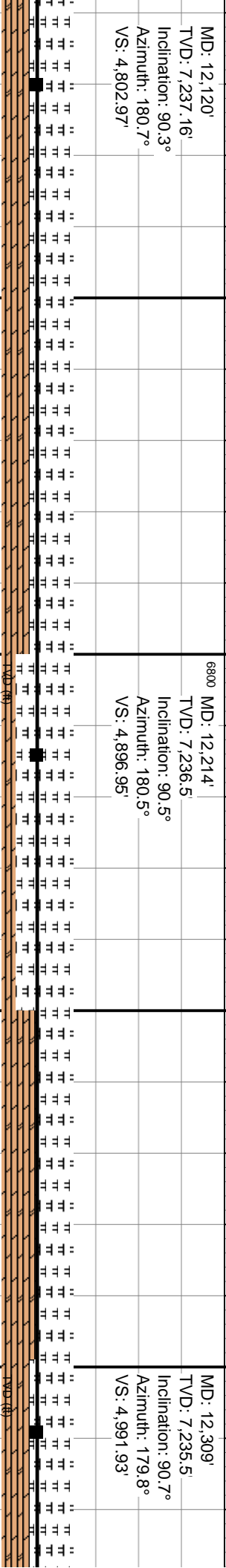
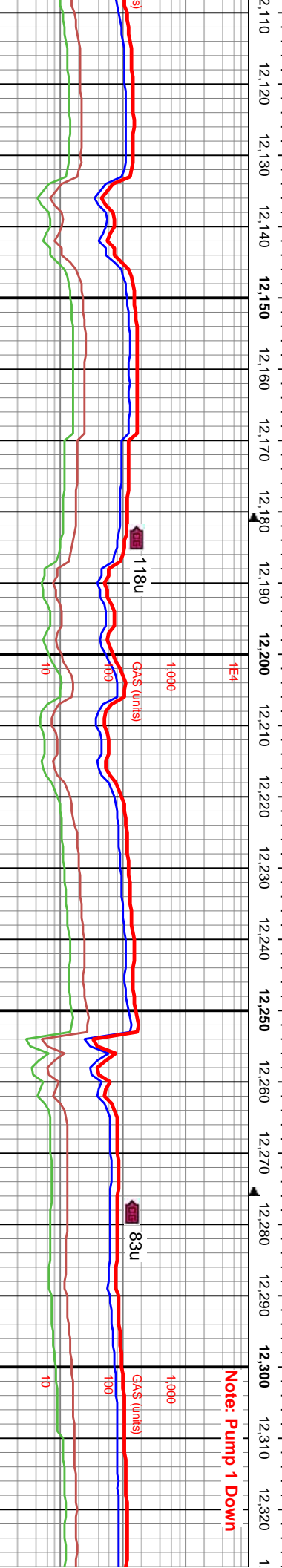
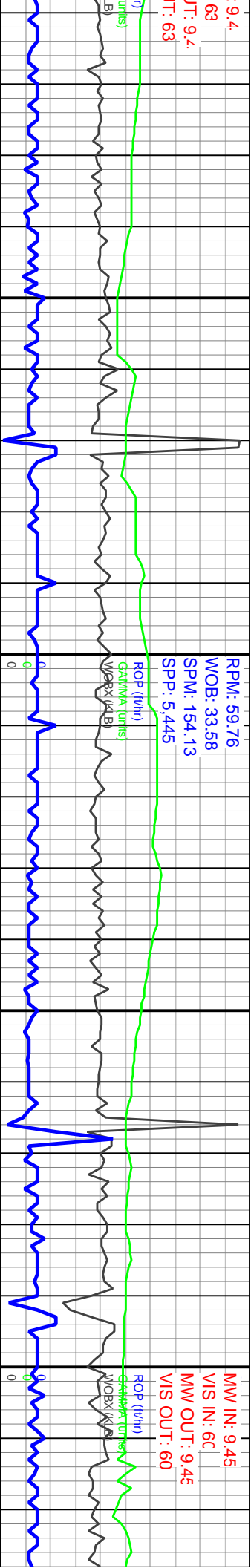
11450-11500 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blk	11500-11550 90% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc; 10% CHK: lt-med gysbhn, sme med gy, blk	11550-11600 90% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc; 10% CHK: lt-med gysbhn, sme med gy, blk	11600-11650 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blk	11650-11700 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blk	
	7800		7800		








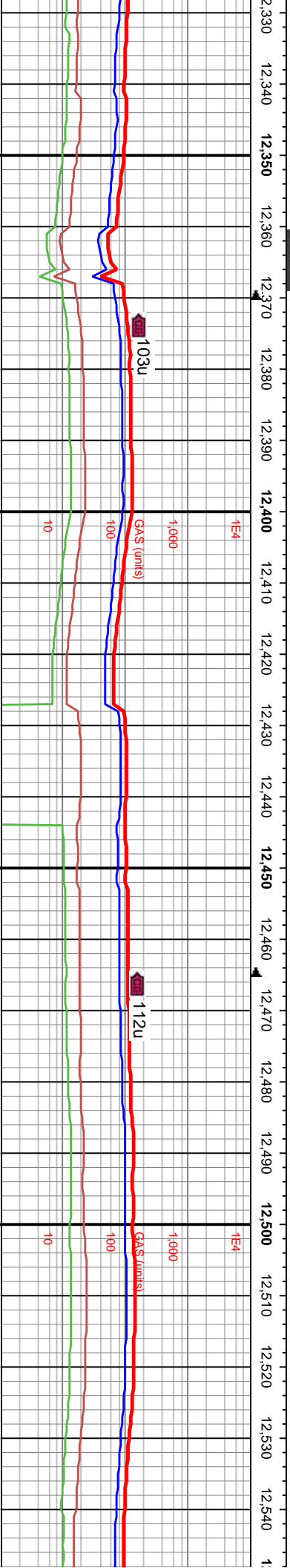
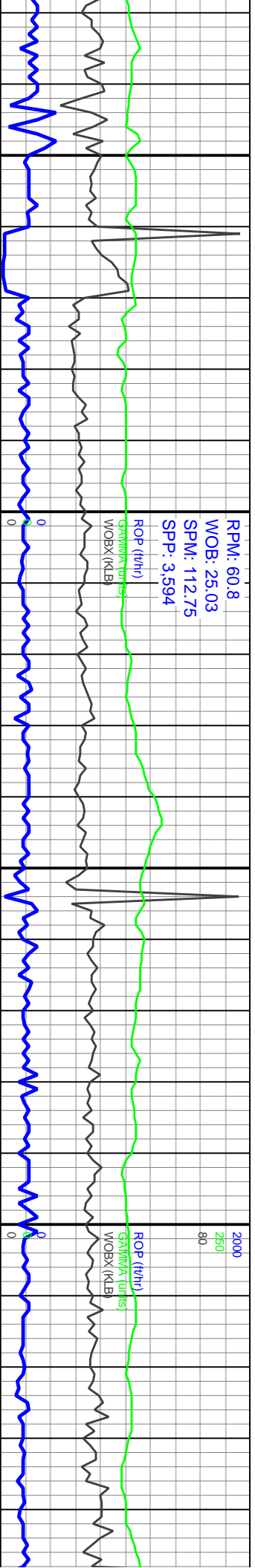
11700-11750 55% MRLST: med-dk gy,sme gysbhn, ply-sb blkyy, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	11750-11800 55% MRLST: med-dk gy,sme gysbhn, ply-sb blkyy, frm-sft, v calc; 45% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	11800-11850 55% MRLST: med-dk gy,sme gysbhn, ply-sb blkyy, frm-sft, v calc; 45% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	11850-11900 50% MRLST: med-dk gysbhn, ply-sb blkyy, frm-sft, v calc; 45% CHK: lt-med gysbhn, sme med gy, blkyy, sft.
			



gy,sme 50% biky, sft-v	11900-11950 60% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, biky, sft-v	11950-12000 60% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, biky, sft-v	12000-12050 70% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc: 30% CHK: lt-med gyshbn, sme med gy, biky, sft-v	12050-12100 70% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc: 30% CHK: lt-med gyshbn, sme med gy, biky, sft-v	12100- gyshbr CHK: lt- sft



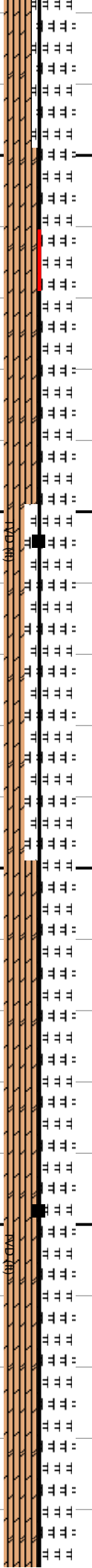
12150 60% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 40% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12150-12200 60% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 40% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12200-12250 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12250-12300 50% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 50% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12300-12350 60% MRLS gysbhn, pily-sb blkly, frm- CHK: lt-med gysbhn, sme sft.
				



MD: 12,404'
TVD: 7,235.5'
Inclination: 89.3°
Azimuth: 179.8°
VS: 5,086.92'

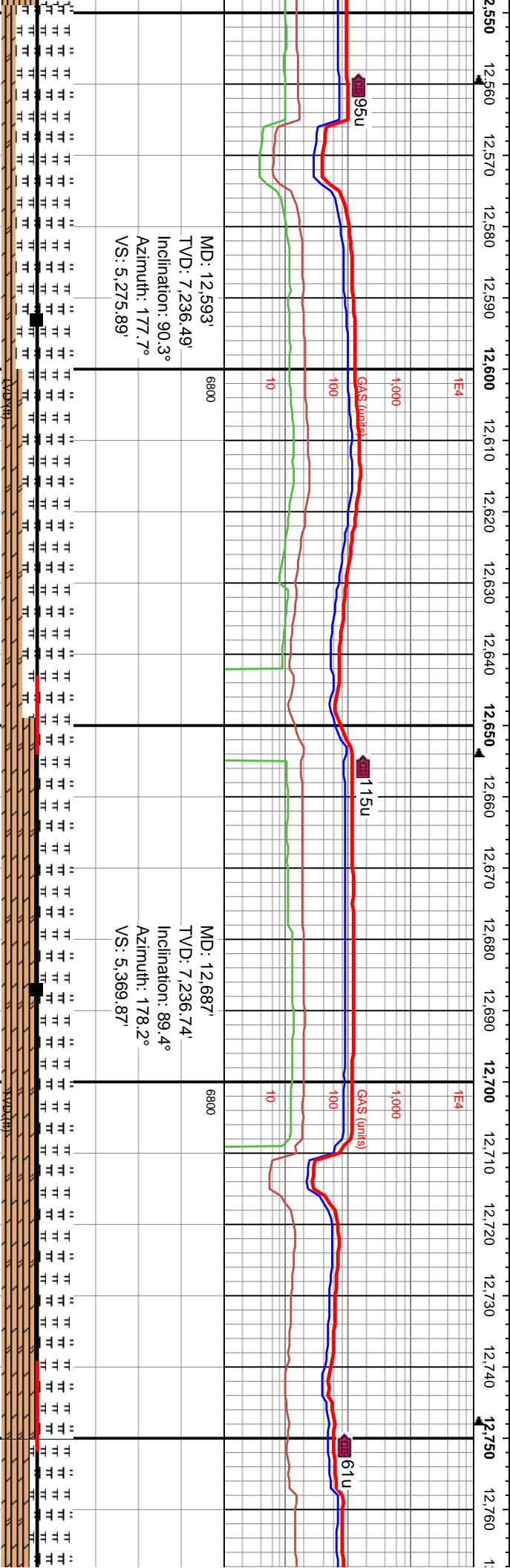
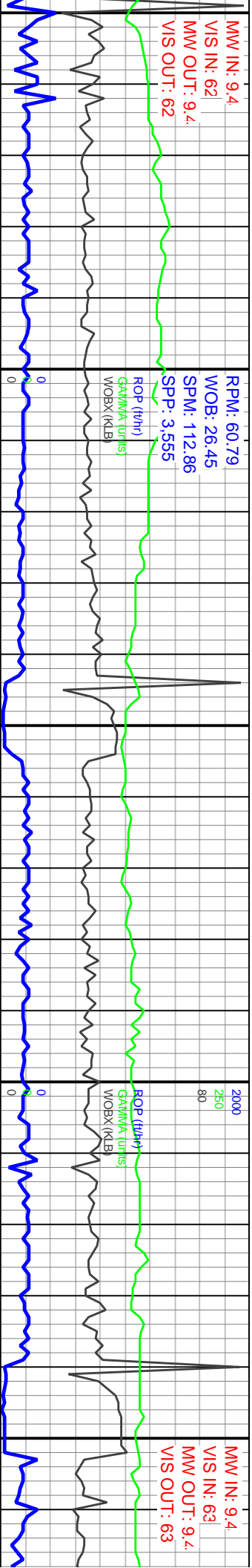
MD: 12,498'
TVD: 7,236.41'
Inclination: 89.6°
Azimuth: 178.4°
VS: 5,180.92'

6800

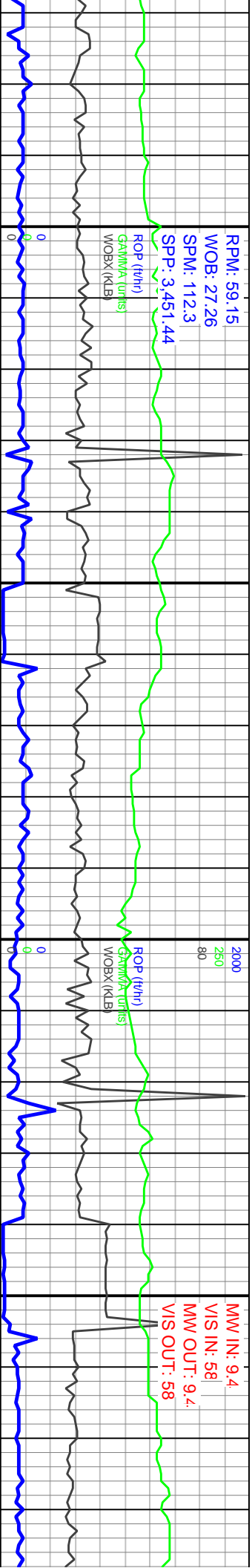


T: med-dk gy,sme sft, v calc: 40% med gy, blk, sft-v	12350-12400 50% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 50% CHK: lt-med gysbhn, sme med gy, blk, sft-v	12400-12450 70% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 30% CHK: lt-med gysbhn, sme med gy, blk, sft-v	12450-12500 50% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 50% CHK: lt-med gysbhn, sme med gy, blk, sft-v	12500-12550 50% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 50% CHK: lt-med gysbhn, sme med gy, blk, sft-v
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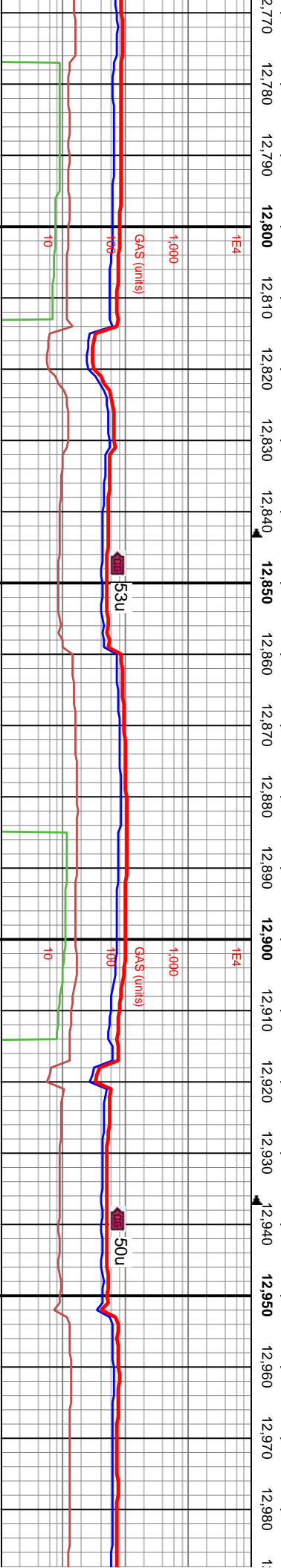




12550-12600 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12600-12650 70% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 30% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12650-12700 50% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 50% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12700-12750 50% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 50% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	12750-12800 60% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 50% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.



MW IN: 9.4
VIS IN: 58
MW OUT: 9.4
VIS OUT: 58



MD: 12,782'
TVD: 7,238.39'
Inclination: 88.6°
Azimuth: 178.7°
VS: 5,464.84'

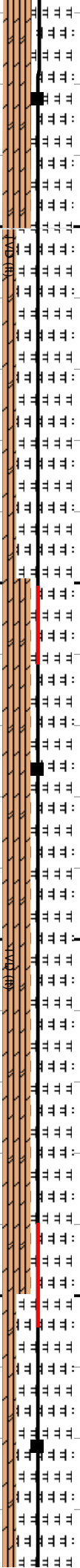
6800

MD: 12,876'
TVD: 7,240.12'
Inclination: 89.3°
Azimuth: 179.3°
VS: 5,558.82'

6800

50u

MD: 12,971'
TVD: 7,240.95'
Inclination: 89.7°
Azimuth: 181°
VS: 5,653.8'



% MRLST: med-dk gy, sme
biky, frm-sft, v calc: 40%
hbn, sme med gy, biky, sft-v

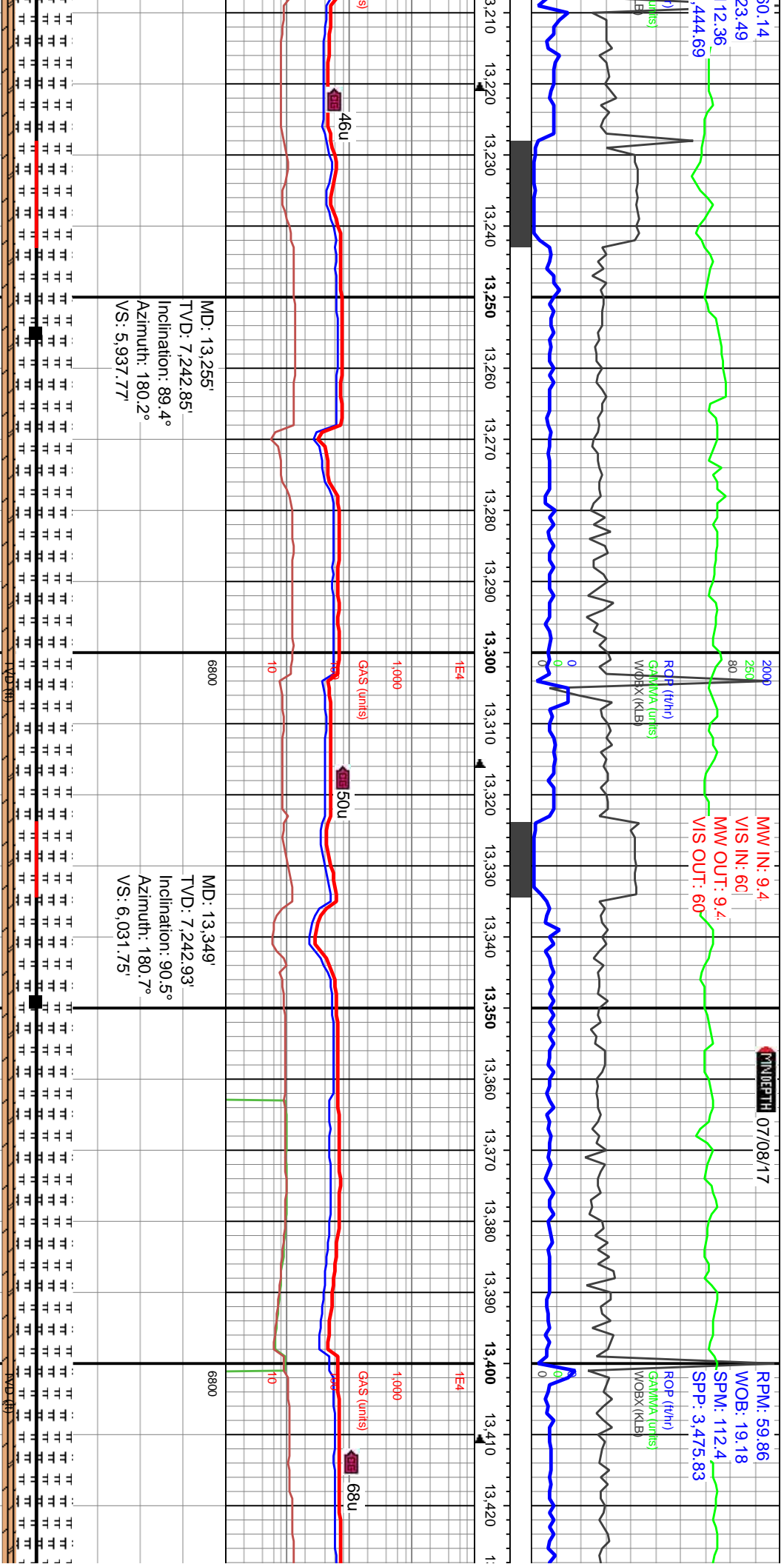
12800-12850 80% MRLST: med-dk gy, sme
gyshn, pty-sb biky, frm-sft, v calc: 20%
CHK: lt-med gyshn, sme med gy, biky, sft-v
sft.
7800






12850-12900 60% MRLST: med-dk
gy, sme gyshn, pty-sb biky, frm-sft, v calc:
40% CHK: lt-med gyshn, sme med gy,
biky, sft-v sft.

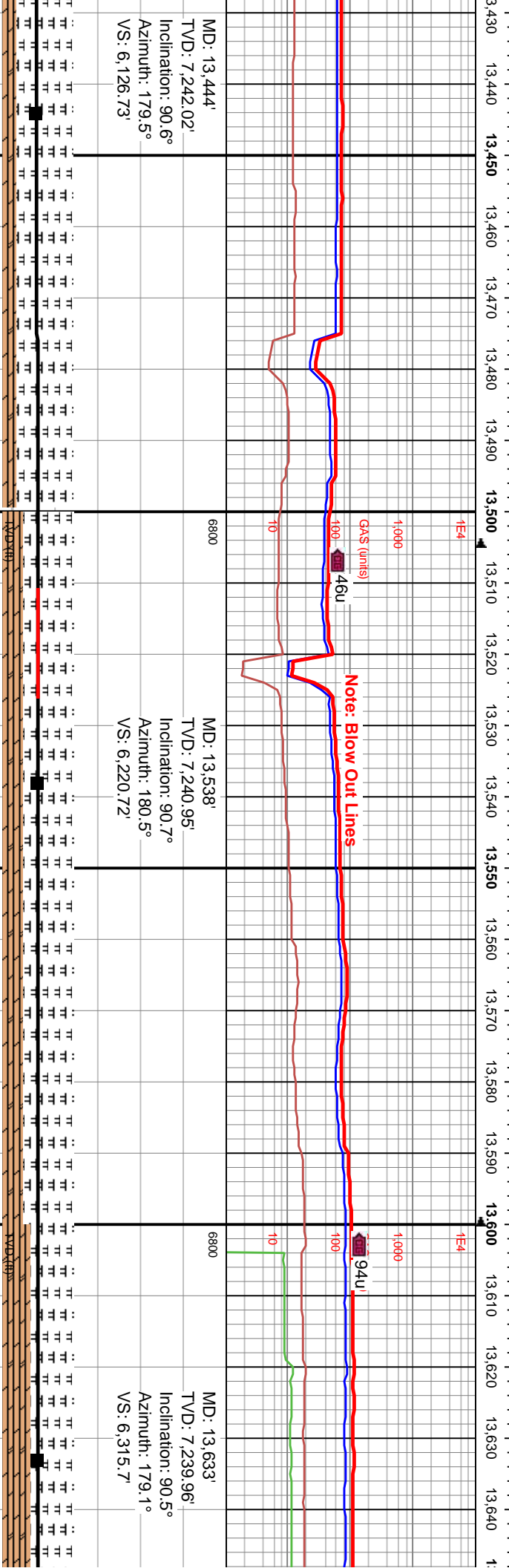
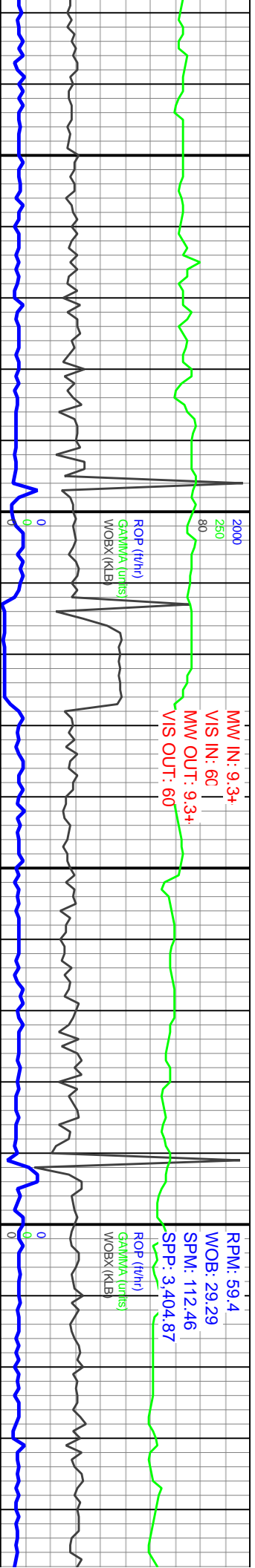
12900-12950 60% MRLST: med-dk
gy, sme gyshn, pty-sb biky, frm-sft, v
calc: 40% CHK: lt-med gyshn, sme
med gy, biky, sft-v sft.

12950-13000 80% MRLST: med-dk
gyshn, pty-sb biky, frm-sft, v calc:
CHK: lt-med gyshn, sme med gy, biky, sft.

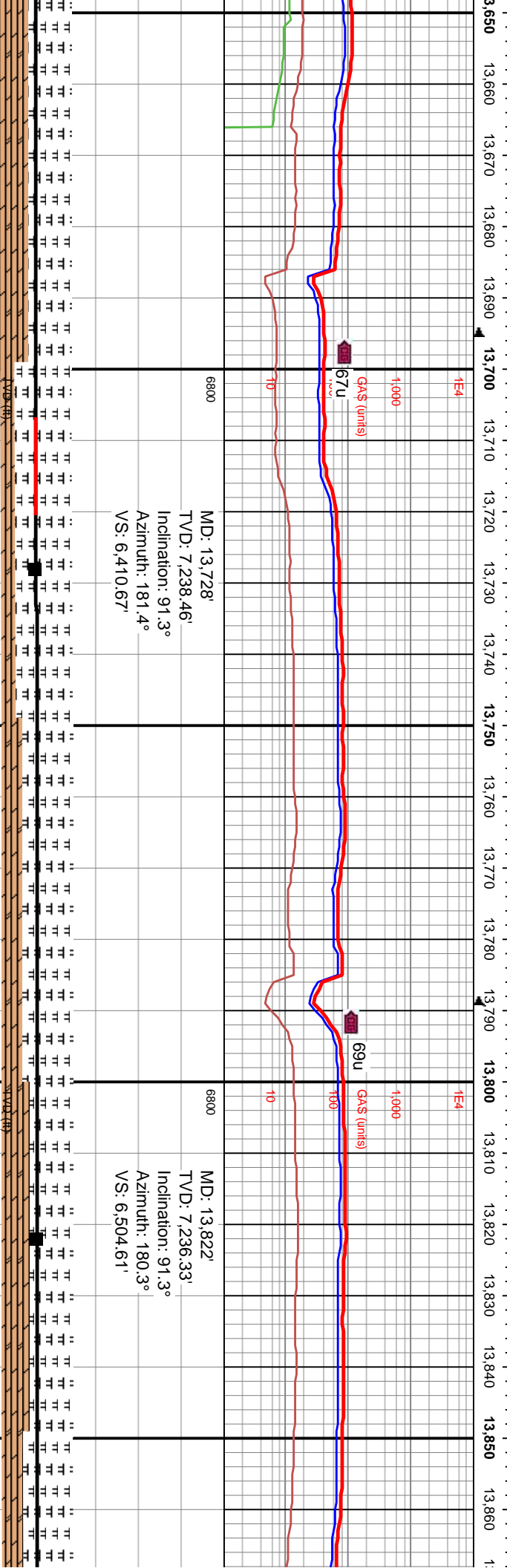
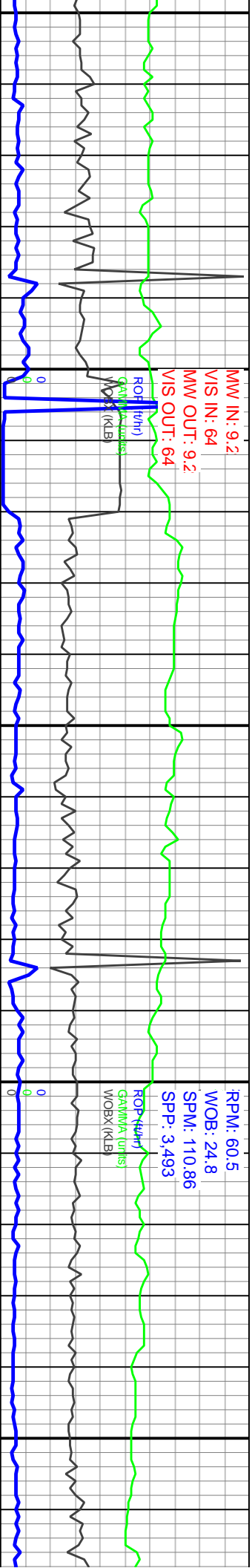




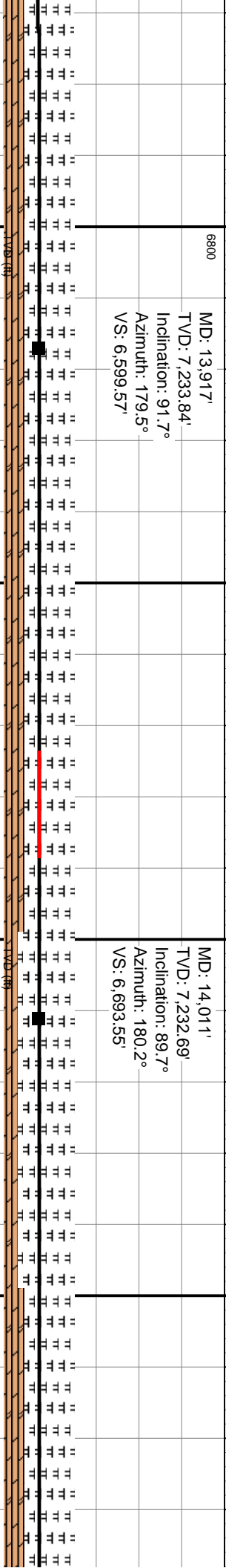
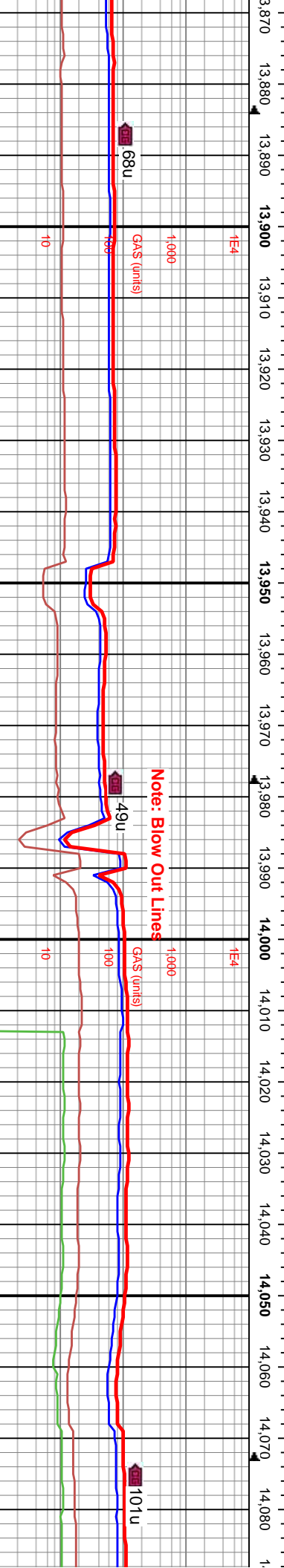
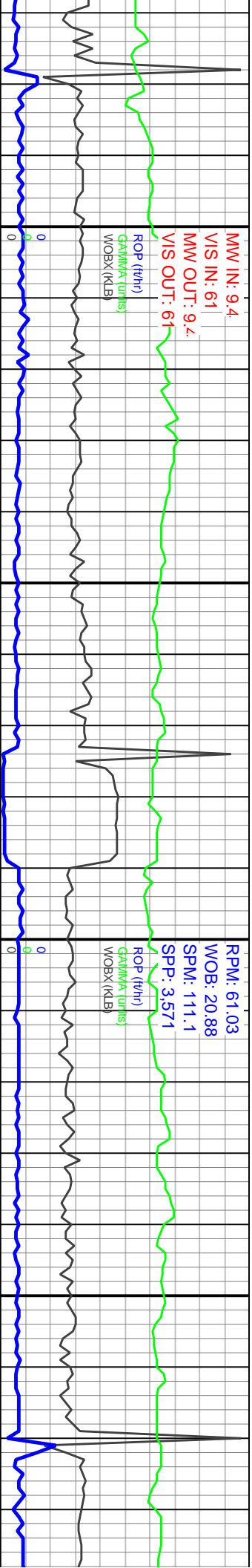
13250 80% MRLST: med-dk e gysbhn, pily-sb blkly, frm-sft, v calc; CHK: lt-med gysbhn, sme med gy, ft-v sft.	13250-13300 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	13300-13350 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	13350-13400 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	13400-13450 80% MRLST gysbhn, pily-sb blkly, frm-s CHK: lt-med gysbhn, sme
				



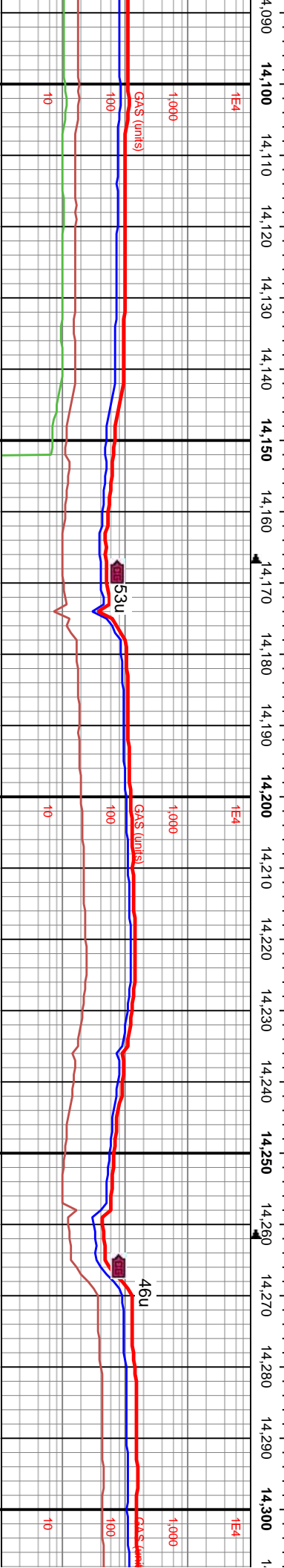
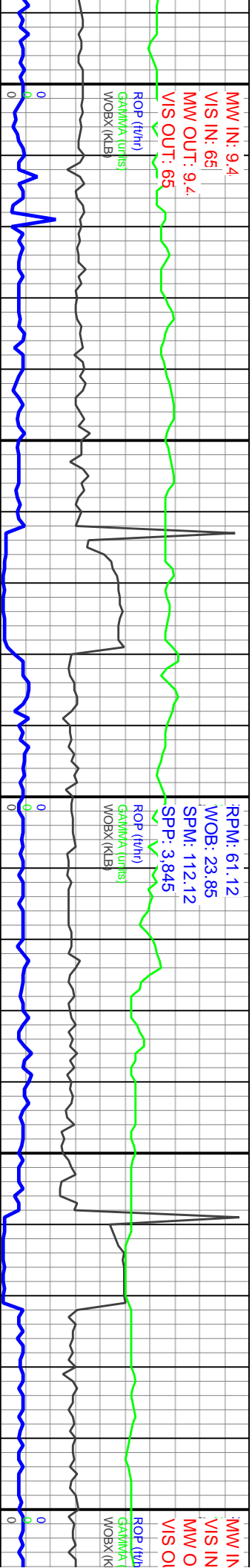
med-dk gy, sme ft, v calc: 20% med gy, blk, y,	13450-13500 80% MRLST: med-dk gy, sme gyshbn, pily-sb blk, y, frm-sft, v calc: 20% CHK: lt-med gyshbn, sme med gy, blk, y, sft-v sft.	13500-13550 70% MRLST: med-dk gy, sme gyshbn, pily-sb blk, y, frm-sft, v calc: 30% CHK: lt-med gyshbn, sme med gy, blk, y, sft-v sft.	13550-13600 70% MRLST: med-dk gy, sme gyshbn, pily-sb blk, y, frm-sft, v calc: 30% CHK: lt-med gyshbn, sme med gy, blk, y, sft-v sft.	13600-13650 60% MRLST: med-dk gy, sme gyshbn, pily-sb blk, y, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, blk, y, sft-v sft.
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13650-13700 60% MRLST: med-dk gy,sme gyshbn, pty-sb blk, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, blk, sft-v sft.	13700-13750 80% MRLST: med-dk gy,sme gyshbn, pty-sb blk, frm-sft, v calc: 20% CHK: lt-med gyshbn, sme med gy, blk, sft-v sft.	13750-13800 70% MRLST: med-dk gy,sme gyshbn, pty-sb blk, frm-sft, v calc: 30% CHK: lt-med gyshbn, sme med gy, blk, sft-v sft.	13800-13850 60% MRLST: med-dk gy,sme gyshbn, pty-sb blk, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, blk, sft-v sft.	13850-13900 70% MRLST: med-dk gy,sme gyshbn, pty-sb blk, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, blk, sft-v sft.



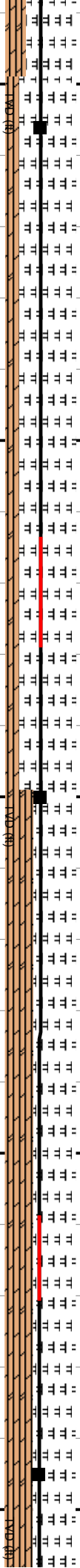
13900-13950 70% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc: 30% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	13950-14000 70% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc: 30% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	14000-14050 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	14050-14100 70% MRLST: med-dk gy,sme gysbhn, pily-sb blkyy, frm-sft, v calc: 30% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.
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MD: 14,106'
TVD: 7,233.19'
Inclination: 89.7°
Azimuth: 178.4°
VS: 6,788.55'

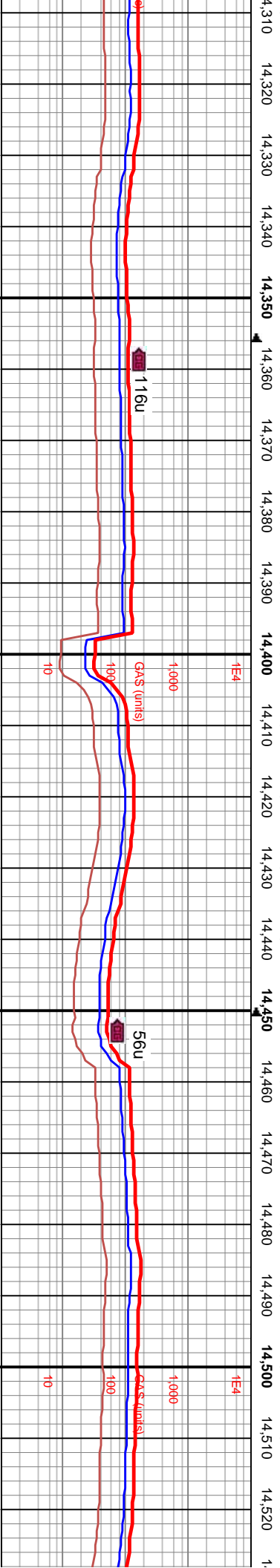
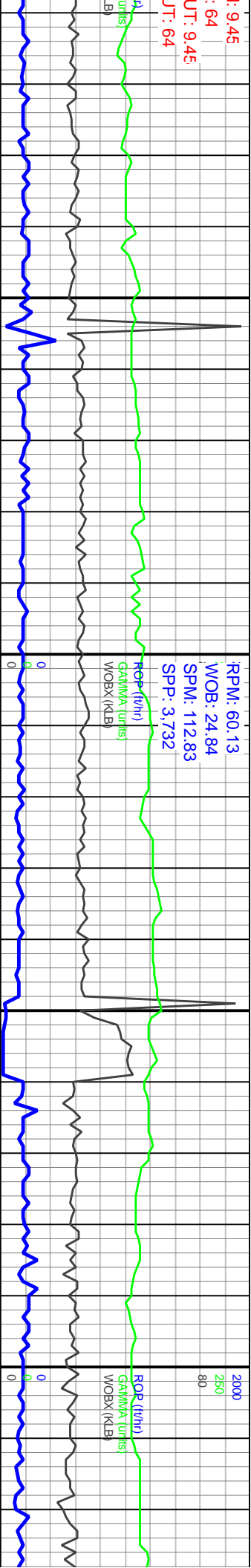
MD: 14,200'
TVD: 7,234.59'
Inclination: 88.6°
Azimuth: 180.3°
VS: 6,882.53'

MD: 14,295'
TVD: 7,235.75'
Inclination: 90°
Azimuth: 182.1°
VS: 6,977.46'



gy,sme 30%	14100-14150 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	14150-14200 80% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	14200-14250 60% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 40% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	14250-14300 60% MRLST: med-dk gy,sme gysbhn, pily-sb blkly, frm-sft, v calc: 40% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	14300 gysbhn CHK: l sft-v sft 7800
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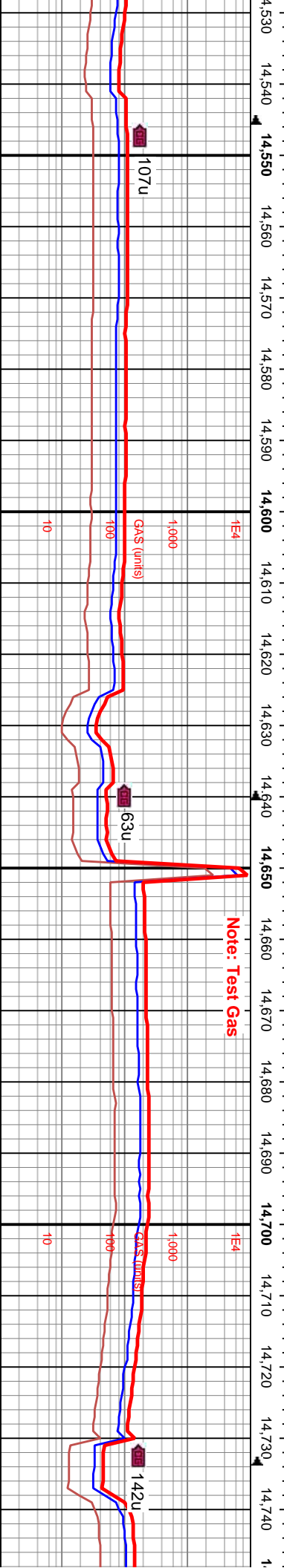
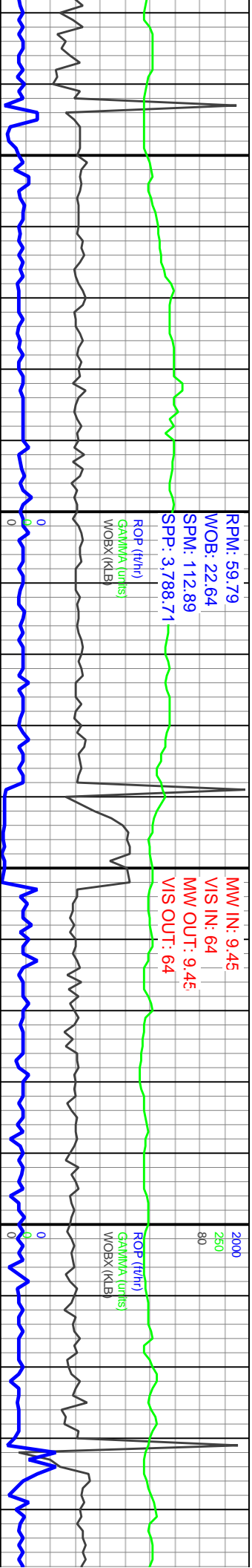
MD: 14,389'
TVD: 7,235.58'
Inclination: 90.2°
Azimuth: 181.6°
VS: 7,071.37'

MD: 14,484'
TVD: 7,236.41'
Inclination: 88.8°
Azimuth: 180.7°
VS: 7,166.31'



14350-14400 60% MRLST: med-dk gy,sme gyshbn, ply-sb blkly, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, blkly, sft-v sft.	14400-14450 80% MRLST: med-dk gy,sme gyshbn, ply-sb blkly, frm-sft, v calc: 20% CHK: lt-med gyshbn, sme med gy, blkly, sft-v sft.	14450-14500 60% MRLST: med-dk gy,sme gyshbn, ply-sb blkly, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, blkly, sft-v sft.	14500-14550 70% MRLS gyshbn, ply-sb blkly, frm- CHK: lt-med gyshbn, sme sft-v sft.
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MD: 14,578'
TVD: 7,238.22'
Inclination: 89°
Azimuth: 179.6°
VS: 7,260.28'

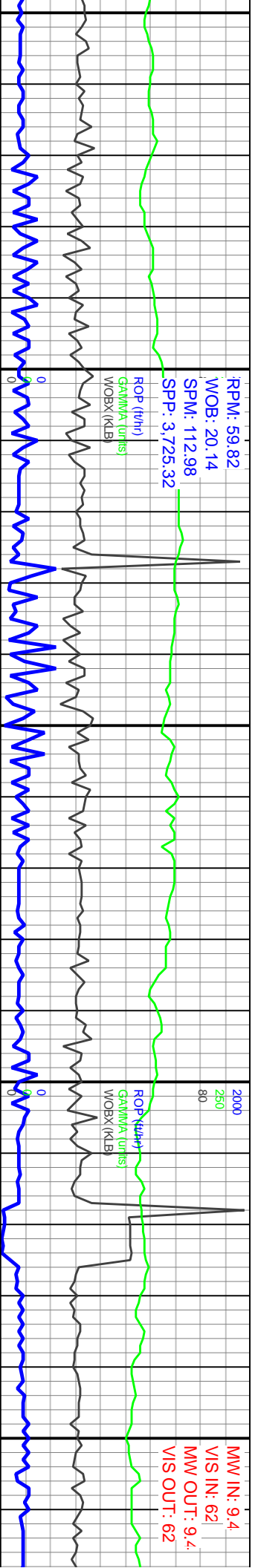
6800

MD: 14,673'
TVD: 7,239.54'
Inclination: 89.4°
Azimuth: 181.2°
VS: 7,355.25'

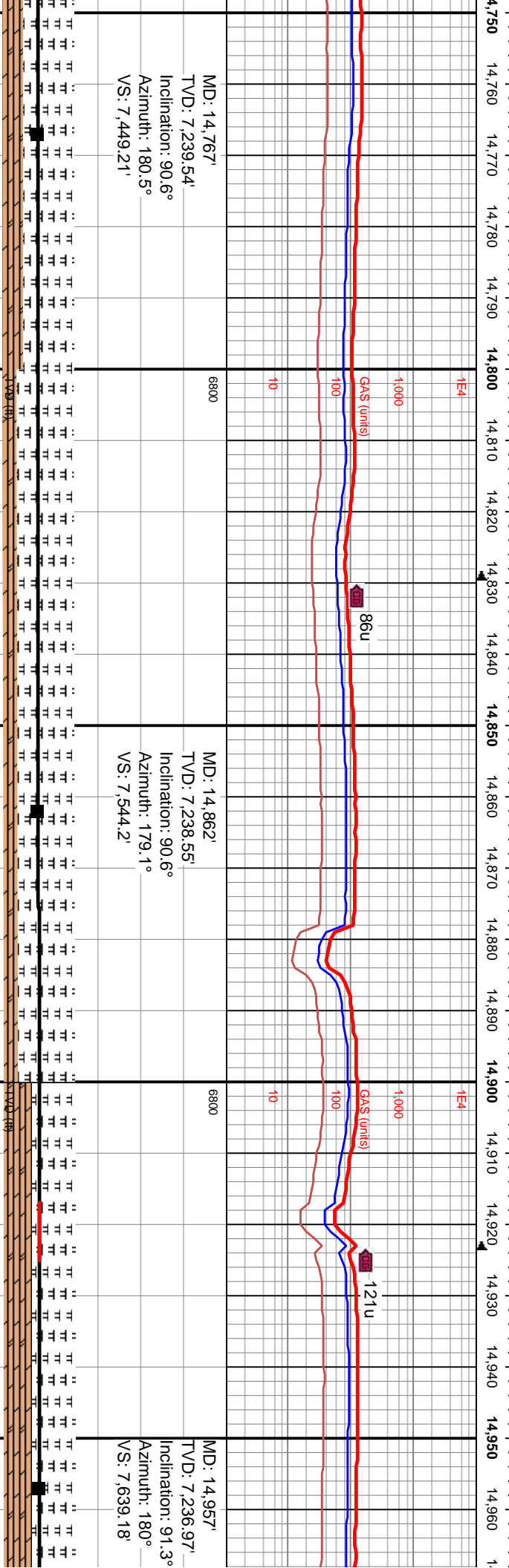
6800

T: med-dk gy,sme sft, v calc: 30% med gy, blk,	14550-14600 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft.	14600-14650 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft.	14650-14700 70% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 30% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft.	14700-14750 70% MRLST: med-dk gy,sme gysbhn, pty-sb blk, frm-sft, v calc: 30% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft.
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MW IN: 9.4
VIS IN: 62
MW OUT: 9.4
VIS OUT: 62

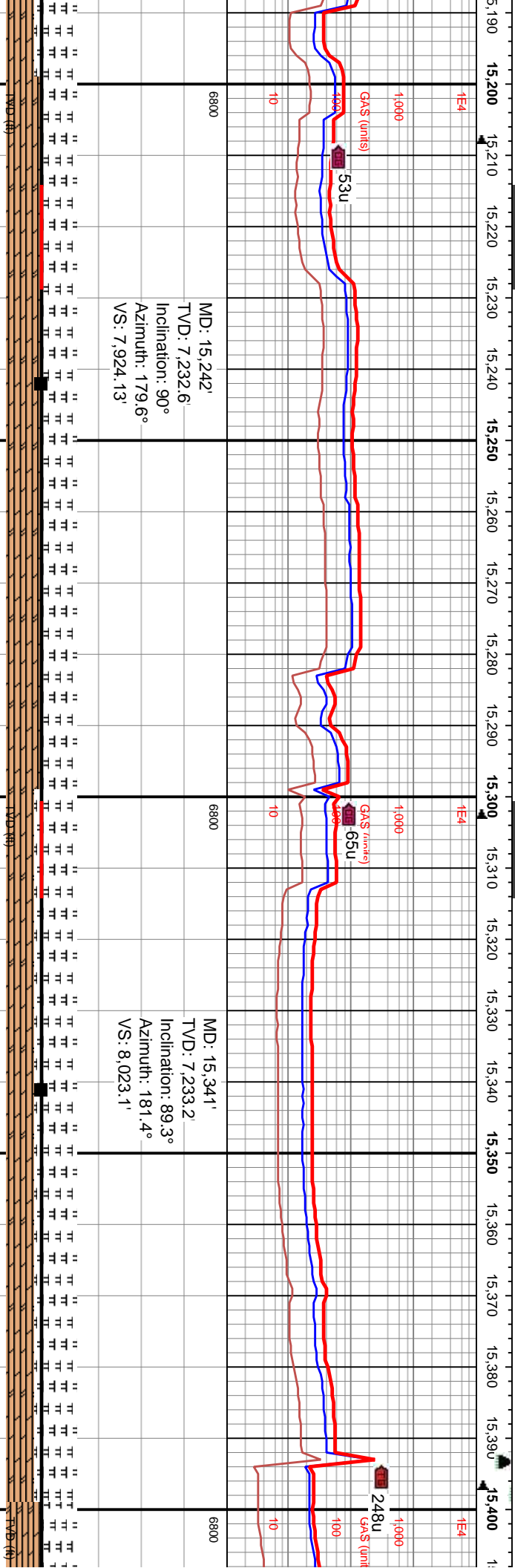
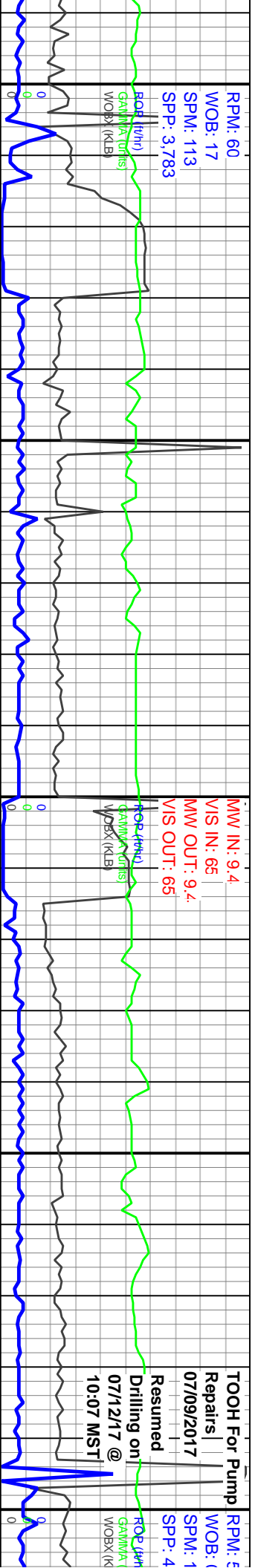


MD: 14,767'
TVD: 7,239.54'
Inclination: 90.6°
Azimuth: 180.5°
VS: 7,449.21'

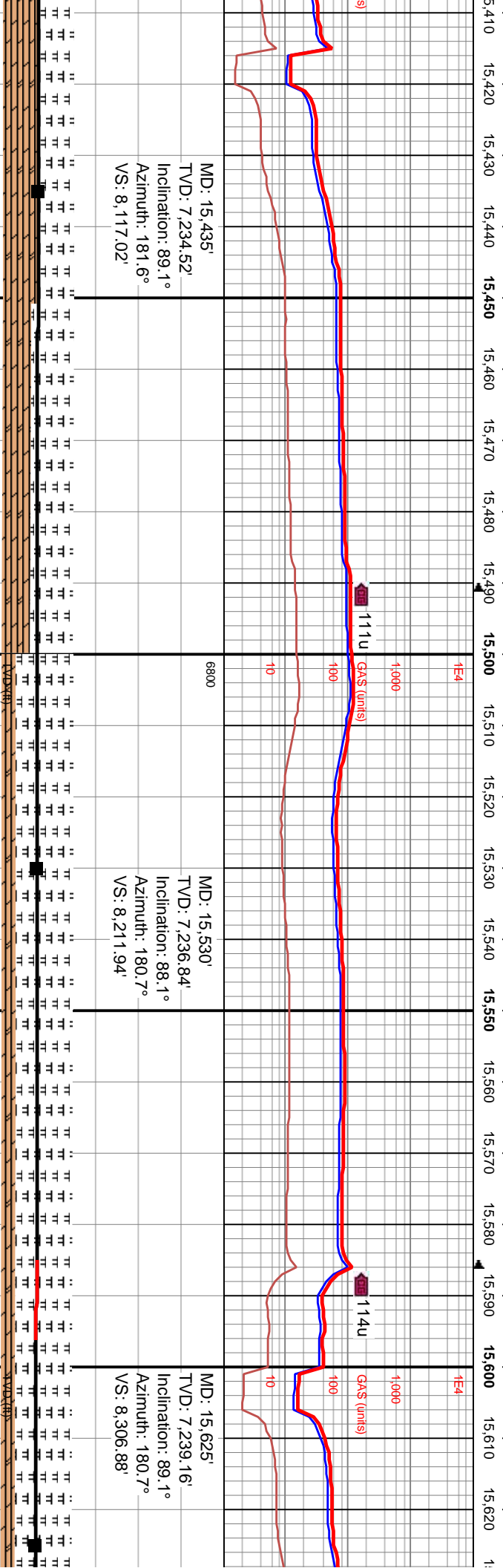
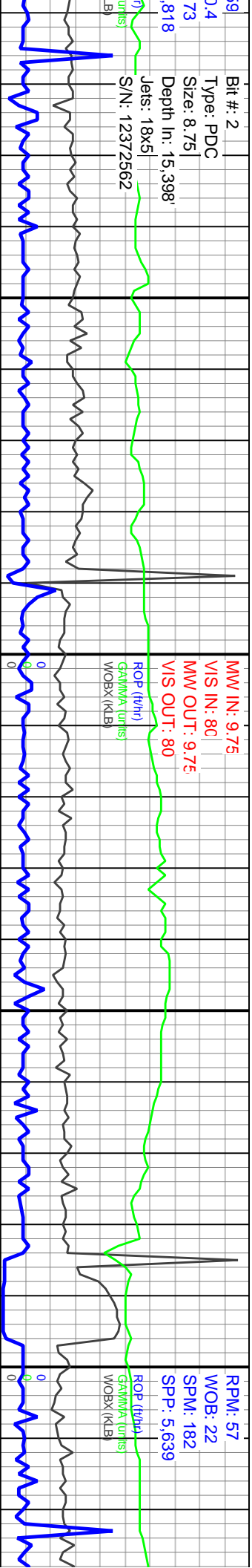
MD: 14,862'
TVD: 7,238.55'
Inclination: 90.6°
Azimuth: 179.1°
VS: 7,544.2'

MD: 14,957'
TVD: 7,236.97'
Inclination: 91.3°
Azimuth: 180°
VS: 7,639.18'

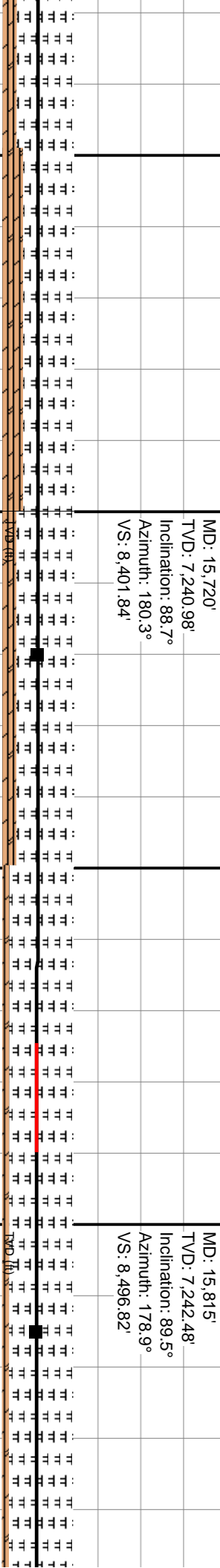
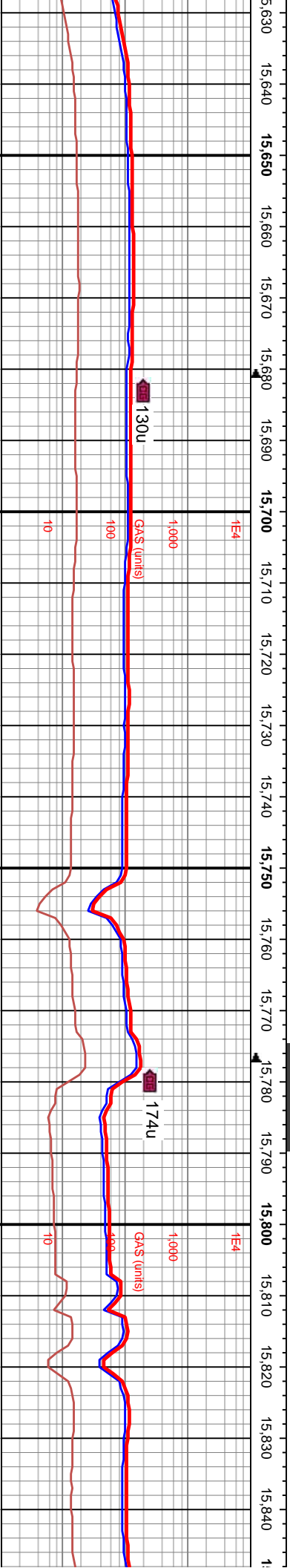
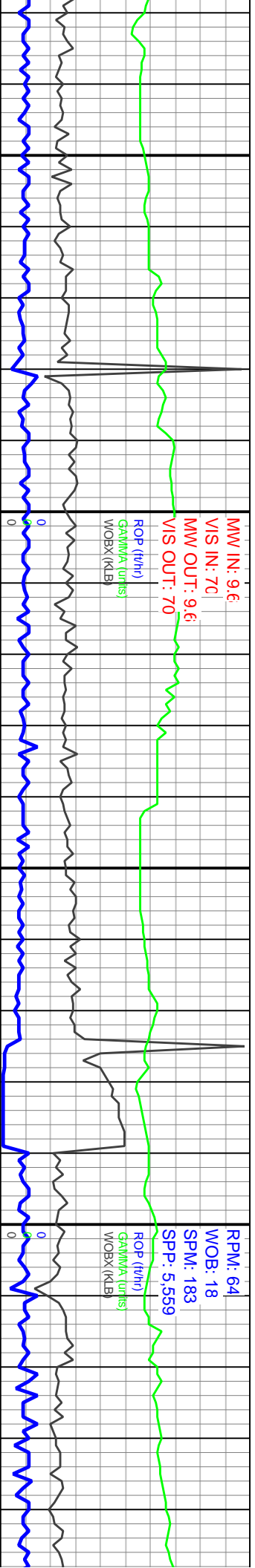
14750-14800 70% MRLST: med-dk gy,sme gyshbn, pily-sb blkly, frm-sft, v calc: 30% CHK: lt-med gyshbn, sme med gy, blkly, sft-v sft.	14800-14850 80% MRLST: med-dk gy,sme gyshbn, pily-sb blkly, frm-sft, v calc: 20% CHK: lt-med gyshbn, sme med gy, blkly, sft-v sft.	14850-14900 80% MRLST: med-dk gy,sme gyshbn, pily-sb blkly, frm-sft, v calc: 20% CHK: lt-med gyshbn, sme med gy, blkly, sft-v sft.	14900-14950 60% MRLST: med-dk gy,sme gyshbn, pily-sb blkly, frm-sft, v calc: 40% CHK: lt-med gyshbn, sme med gy, blkly, sft-v sft.	14950-15000 6 gyshbn, pily-sb blkly, frm-sft, v calc: 40% CHK: lt-med gy sft-v sft.



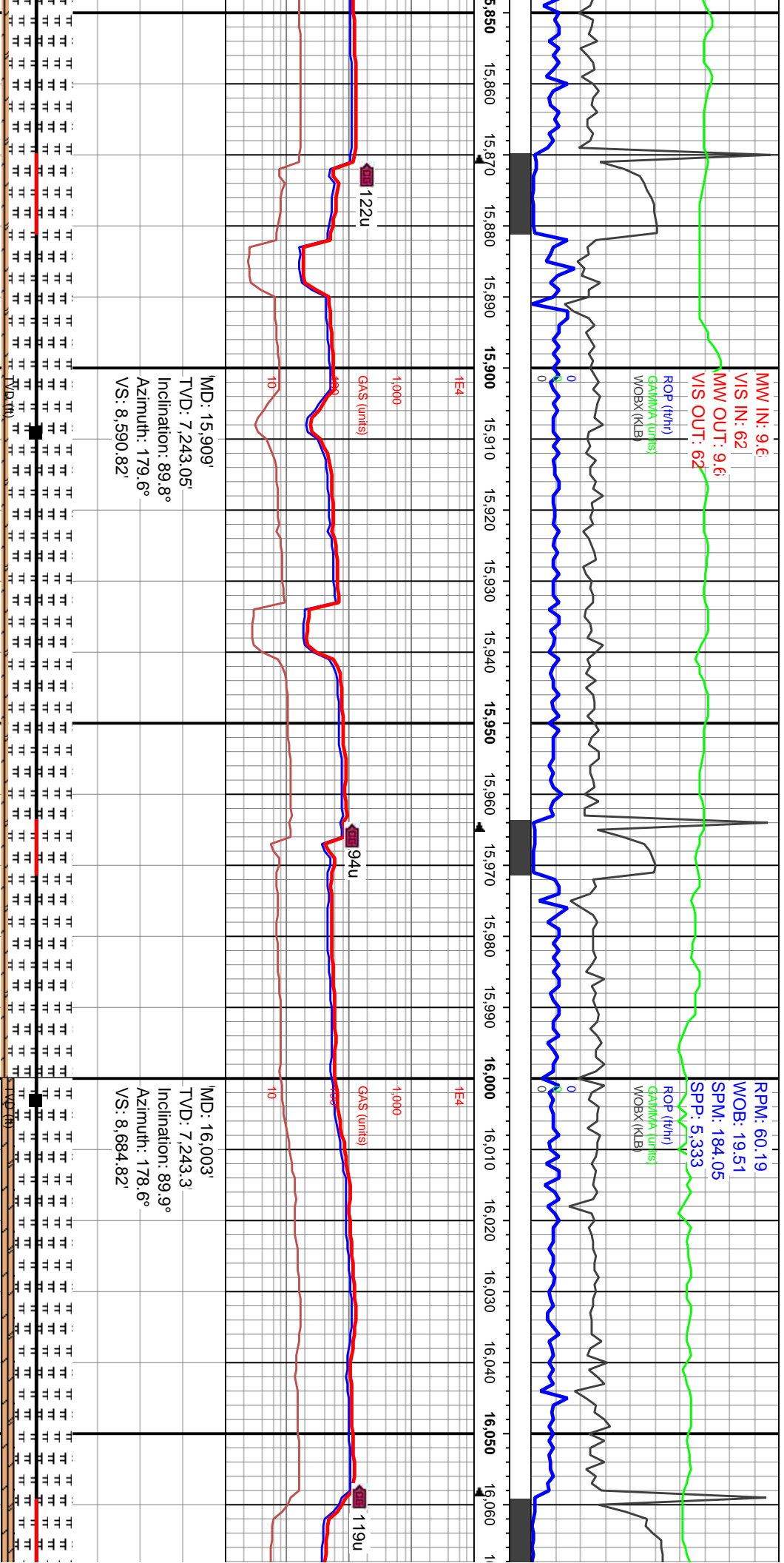
gy,sme 40% biky,	15200-15250 50% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc; 50% CHK: lt-med gyshbn, sme med gy, biky, sft-v sft, scatt fos mat.	15250-15300 50% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc; 50% CHK: lt-med gyshbn, sme med gy, biky, sft-v sft, scatt fos mat.	15300-15350 60% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc; 40% CHK: lt-med gyshbn, sme med gy, biky, sft-v sft, scatt fos mat.	15350-15400 60% MRLST: med-dk gy,sme gyshbn, ply-sb biky, frm-sft, v calc; 40% CHK: lt-med gyshbn, sme med gy, biky, sft-v sft, scatt fos mat.	15400- gyshbn CHK: lt sft-v sft
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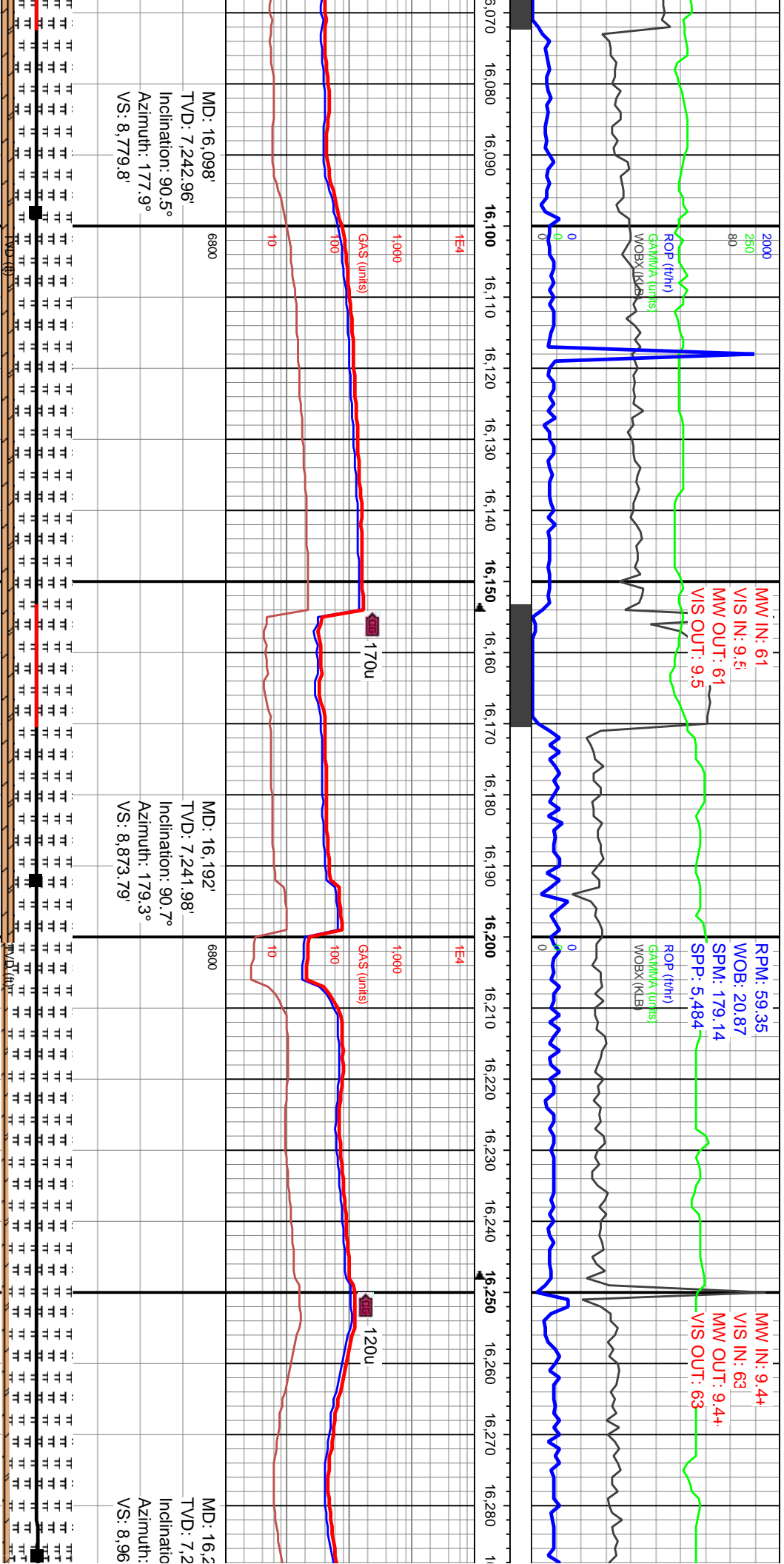
15,450-50% MRLST: med-dk gy,sme ply-sb blkly, frm-sft, v calc: 50% med gysbhn, sme med gy, blkly, , occ pyr nod.	15,450-15,500 60% MRLST: med-dk gy,sme gysbhn, ply-sb blkly, frm-sft, v calc: 40% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft, occ pyr nod.	15,500-15,550 80% MRLST: med-dk gy,sme gysbhn, ply-sb blkly, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft, occ pyr nod.	15,550-15,600 80% MRLST: med-dk gy,sme gysbhn, ply-sb blkly, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft, occ pyr nod.	15,600-15,650 80% MRLST gysbhn, ply-sb blkly, frm-s CHK: lt-med gysbhn, sme sft-v sft, occ pyr nod.



med-dk gy, sme ft, v calc; 20% med gy, blk y,	15650-15700 70% MRLST: med-dk gy, sme gysbhn, ply-sb blk y, frm-sft, v calc; 30% CHK: lt-med gysbhn, sme med gy, blk y, sft-v sft, occ pyr nod.	15600-15650 80% MRLST: med-dk gy, sme gysbhn, ply-sb blk y, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blk y, sft-v sft, occ pyr nod.	15750-15800 90% MRLST: med-dk gy, sme gysbhn, ply-sb blk y, frm-sft, v calc; 10% CHK: lt-med gysbhn, sme med gy, blk y, sft-v sft, occ pyr nod.	15800-15850 90% MRLST: med-dk gy, sme gysbhn, ply-sb blk y, frm-sft, v calc; 10% CHK: lt-med gysbhn, sme med gy, blk y, sft-v sft, occ pyr nod.
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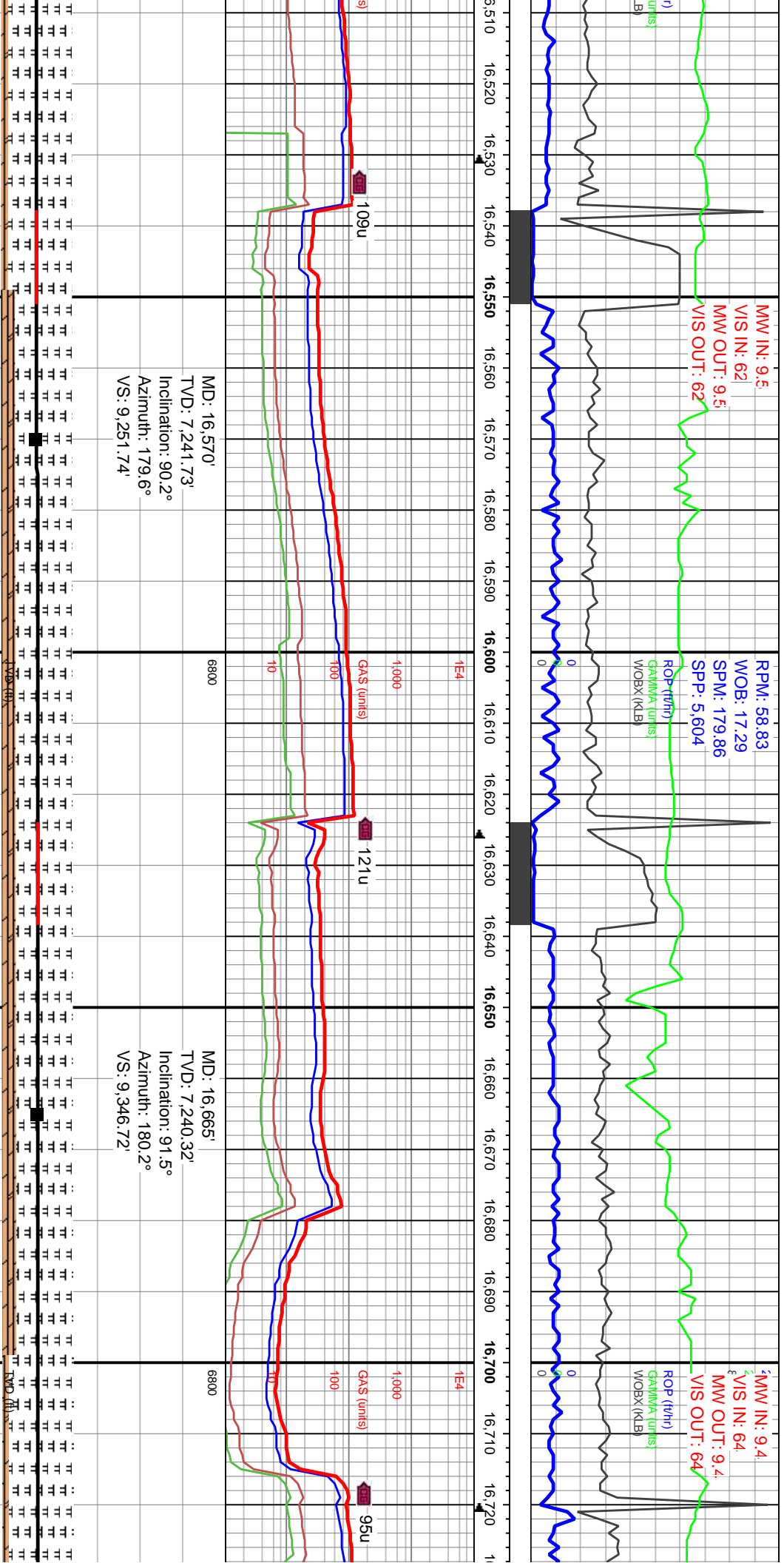


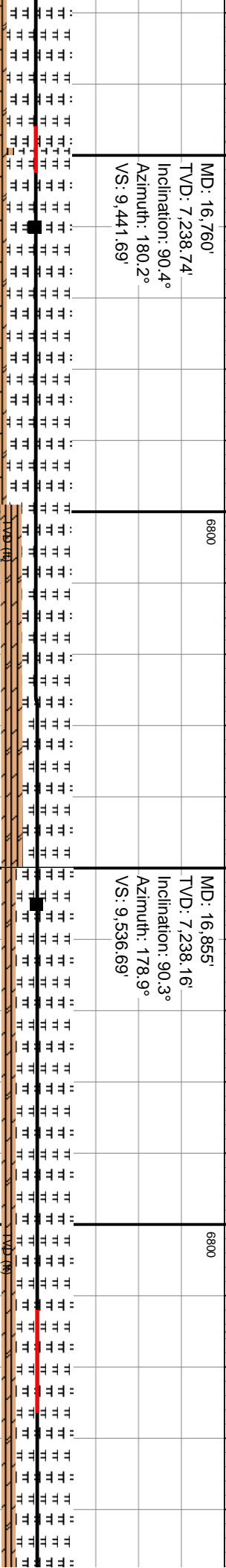
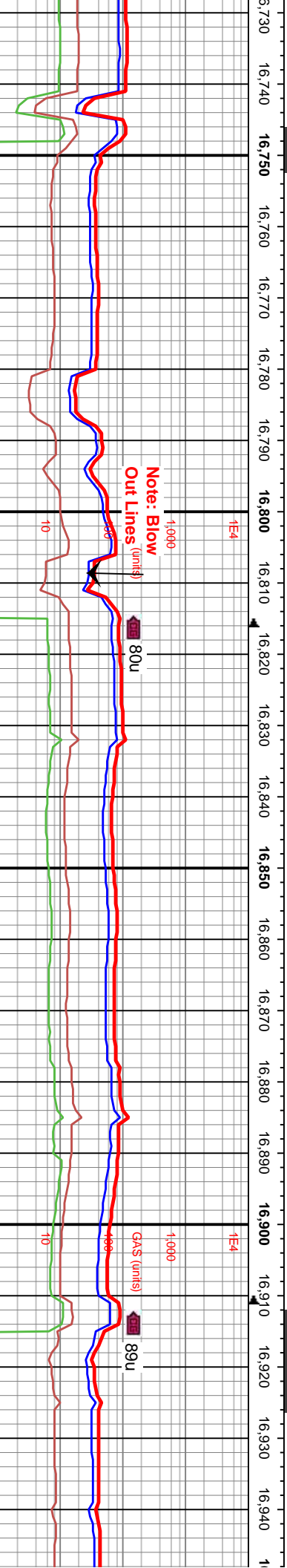
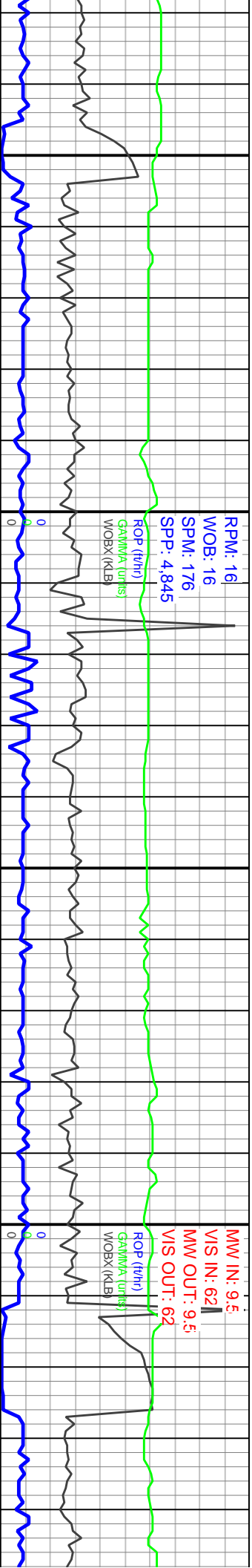
15850-15900 90% MRLST: med-dk gy,sme gysbhn, pily-sb blk, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft, occ pyr nod.	15900-15950 90% MRLST: med-dk gy,sme gysbhn, pily-sb blk, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft, occ pyr nod.	15950-16000 90% MRLST: med-dk gy,sme gysbhn, pily-sb blk, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft, occ pyr nod.	16000-16050 80% MRLST: med-dk gy,sme gysbhn, pily-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft	16050-16100 80% MRLST: med-dk gy,sme gysbhn, pily-sb blk, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk, sft-v sft, occ pyr nod.
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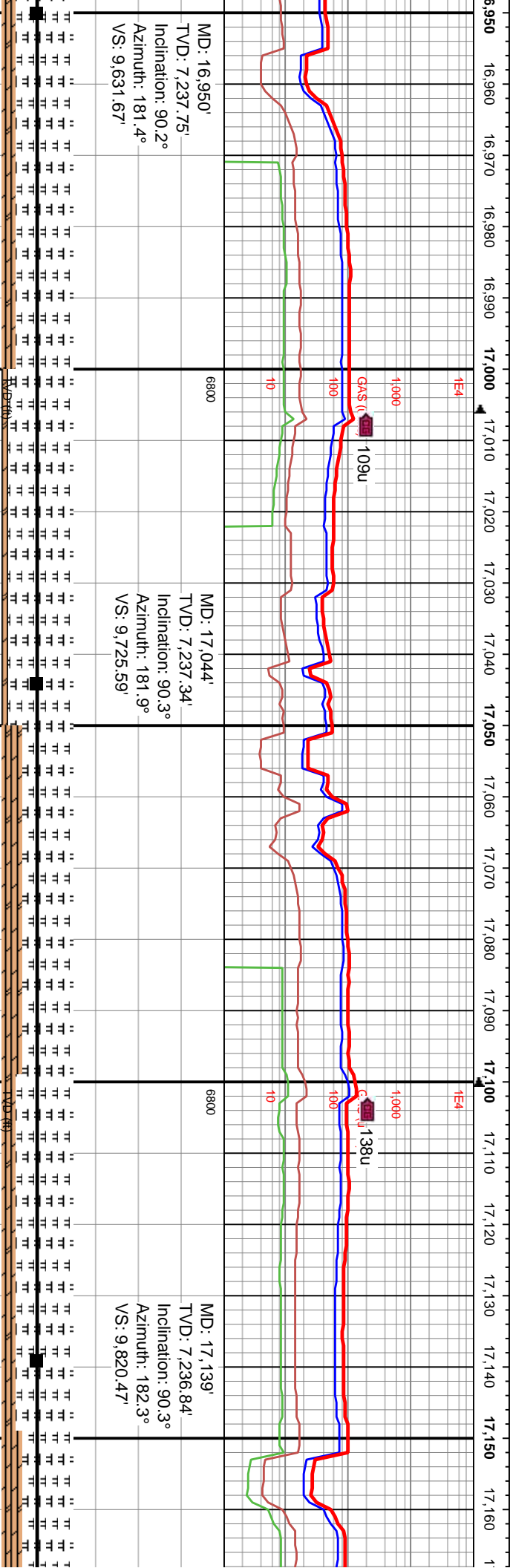
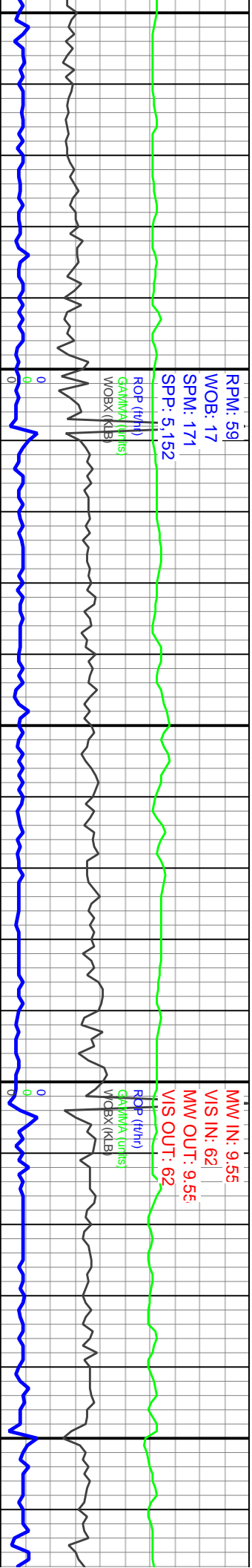
MD: 16,098' TVD: 7,242.96' Inclination: 90.5° Azimuth: 177.9° VS: 8,779.8'	6800	16100-16150 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk'y, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk'y, sft-v sft 7800
MD: 16,192' TVD: 7,241.98' Inclination: 90.7° Azimuth: 179.3° VS: 8,873.79'	6800	16150-16200 80% MRLST: med-dk gy,sme gysbhn, pty-sb blk'y, frm-sft, v calc: 20% CHK: lt-med gysbhn, sme med gy, blk'y, sft-v sft, occ pyr nod.
MD: 16,250' TVD: 7,241.98' Inclination: 90.7° Azimuth: 179.3° VS: 8,873.79'	6800	16200-16250 90% MRLST: med-dk gy,sme gysbhn, pty-sb blk'y, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, blk'y, sft-v sft 7800
MD: 16,250' TVD: 7,241.98' Inclination: 90.7° Azimuth: 179.3° VS: 8,873.79'	6800	16250-16300 90% MRLST: med-dk gy,sme gysbhn, pty-sb blk'y, frm-sft, v calc: 10% CHK: lt-med gysbhn, sme med gy, blk'y, sft-v sft, occ pyr nod.



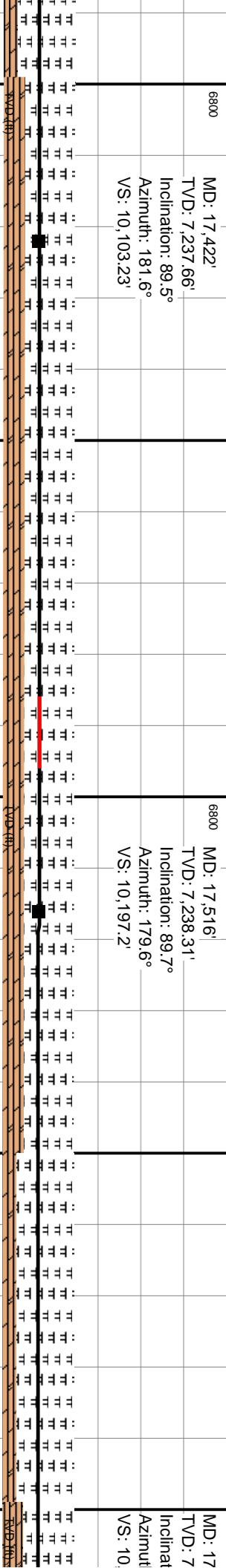
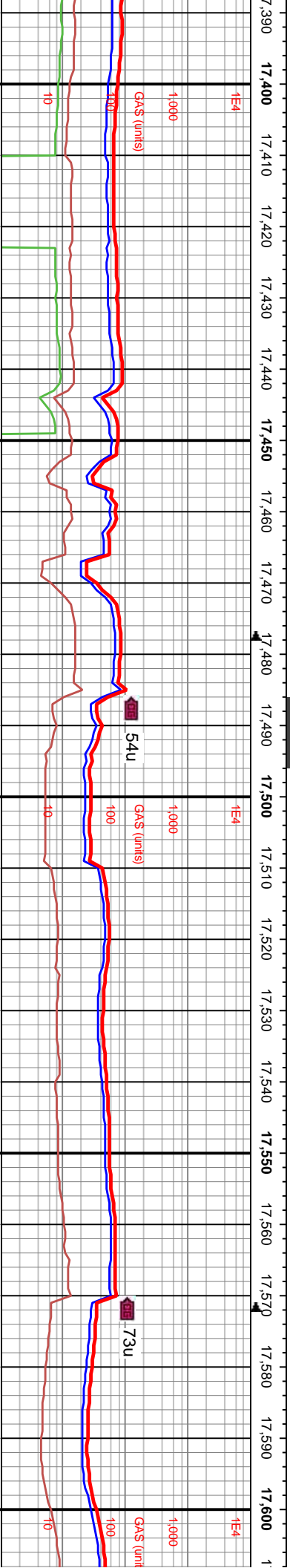
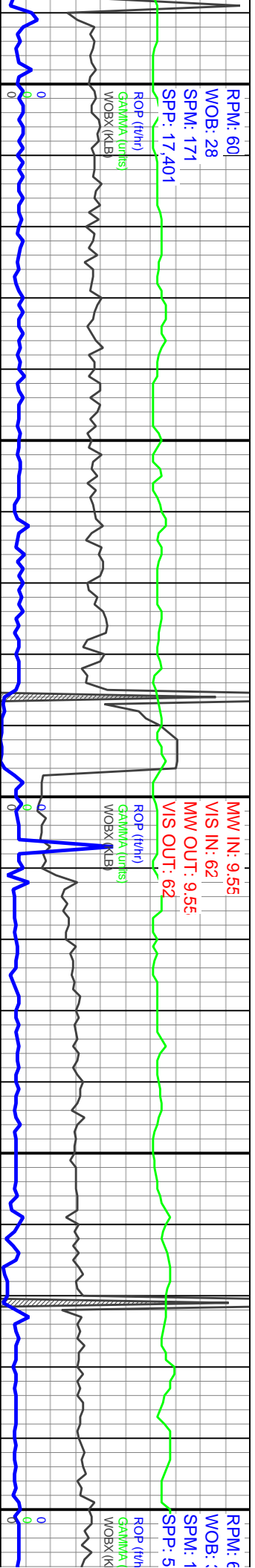




med-dk gy, sme ft, v calc; 10% med gy, blkly,	16750-16800 80% MRLST: med-dk gy, sme gysbhn, ply-sb blkly, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	16800-16850 70% MRLST: med-dk gy, sme gysbhn, ply-sb blkly, frm-sft, v calc; 30% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	16850-16900 80% MRLST: med-dk gy, sme gysbhn, ply-sb blkly, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.	16900-16950 80% MRLST: med-dk gy, sme gysbhn, ply-sb blkly, frm-sft, v calc; 20% CHK: lt-med gysbhn, sme med gy, blkly, sft-v sft.
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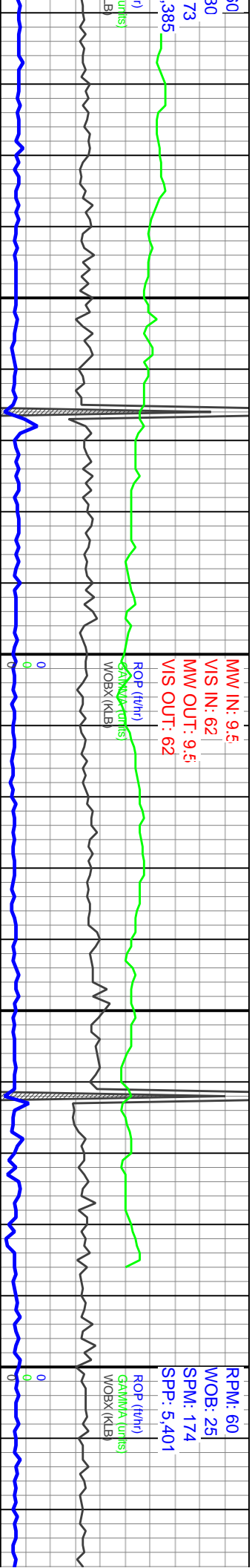


MD: 16,950' TVD: 7,237.75' Inclination: 90.2° Azimuth: 181.4° VS: 9,631.67'	6800	MD: 17,044' TVD: 7,237.34' Inclination: 90.3° Azimuth: 181.9° VS: 9,725.59'	6800	MD: 17,139' TVD: 7,236.84' Inclination: 90.3° Azimuth: 182.3° VS: 9,820.47'	
16900-16950 80% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;20% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17000-17050 90% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;10% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17050-17100 70% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;30% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17100-17150 80% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;20% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17150-17200 70% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;20% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	



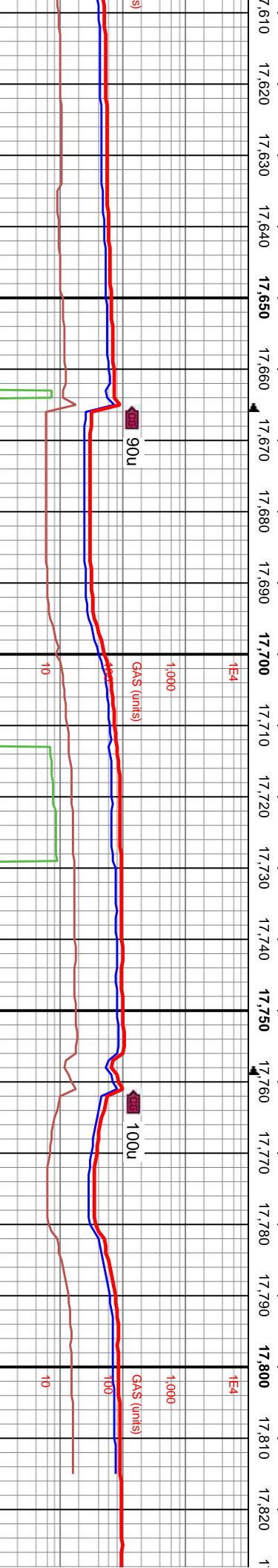
gy.sme 20%	17400-17450 70% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;30% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17450-17500 70% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;30% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17500-17550 70% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;30% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17550-17600 80% MRLST: med-dk gy.sme gysbhn, ply-sb blkyy, frm-sft, v calc;20% CHK: lt-med gysbhn, sme med gy, blkyy, sft-v sft.	17600- gysbhn CHK: lt-med sft-v sft.
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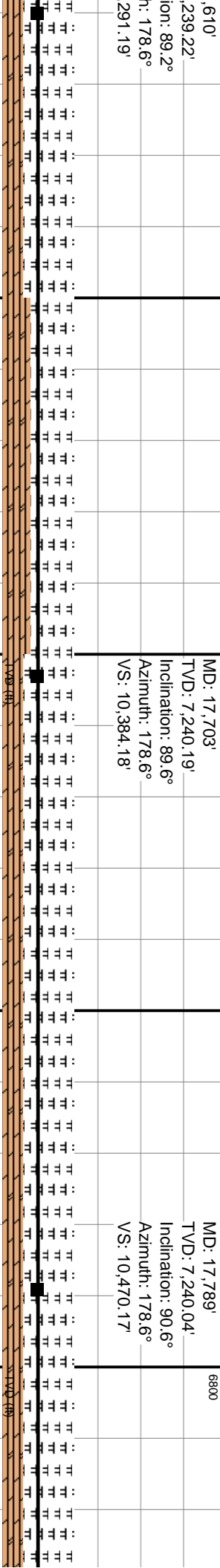
MW IN: 9.5
VIS IN: 62
MW OUT: 9.5
VIS OUT: 62

RPM: 60
WOB: 25
SPM: 174
SPP: 5,401



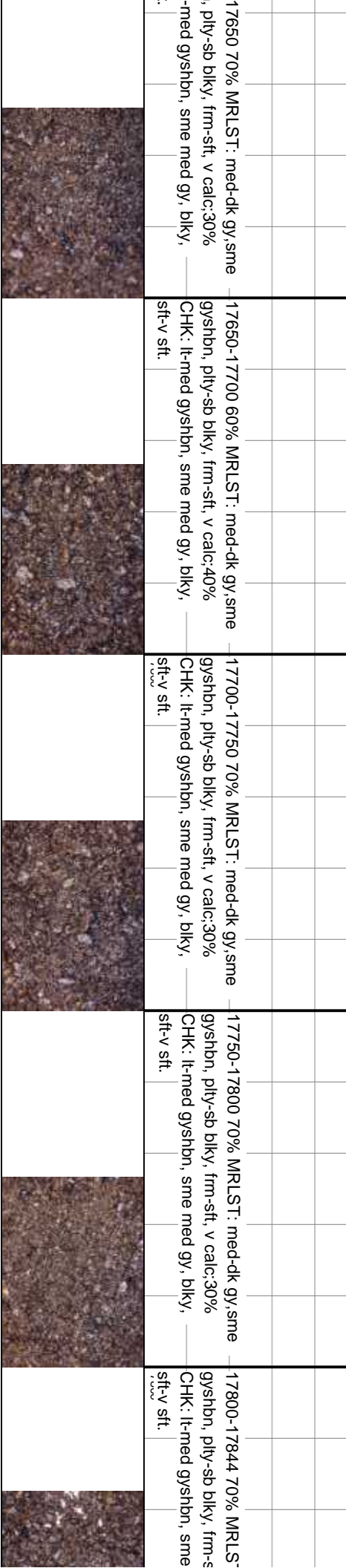
ROP (ft/hr)
GAMA (units)
WOBX (klb)

ROP (ft/hr)
GAMA (units)
WOBX (klb)



MD: 17,703'
TVD: 7,240.19'
Inclination: 89.6°
Azimuth: 178.6°
VS: 10,384.18'

MD: 17,789'
TVD: 7,240.04'
Inclination: 90.6°
Azimuth: 178.6°
VS: 10,470.17'



17650-17700 60% MRLST: med-dk gy.sme
gysbhn, ply-sb blkyy, frm-sft, v calc;30%
CHK: lt-med gysbhn, sme med gy, blkyy,
sft-v sft.

17700-17750 70% MRLST: med-dk gy.sme
gysbhn, ply-sb blkyy, frm-sft, v calc;30%
CHK: lt-med gysbhn, sme med gy, blkyy,
sft-v sft.

17750-17800 70% MRLST: med-dk gy.sme
gysbhn, ply-sb blkyy, frm-sft, v calc;30%
CHK: lt-med gysbhn, sme med gy, blkyy,
sft-v sft.

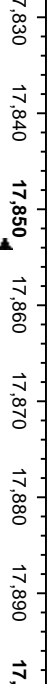
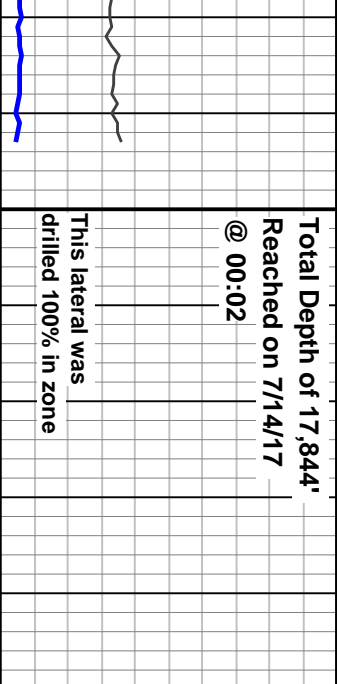
17800-17844 70% MRLS
gysbhn, ply-sb blkyy, frm-s
CHK: lt-med gysbhn, sme
sft-v sft.

Total Depth of 17,844'

Reached on 7/14/17

@ 00:02

This lateral was drilled 100% in zone



Projection To Bit:

MD: 17,844 |

TV D: 7,240.04'

Inclination: 90.6°

Azimuth: 178.6°

VS: 10,470.171



T: med-dk gy, sme
ft, v calc;30%
med gy, blkly,

