



Scale: 5" / 100'
Measured Depth Log

Well Name State Antelope J14-F11-24HNB

Location Section 24, T5N, R62W

State Colorado

Country USA

API Number 05-123-36472

Region DJ Basin

Spud Date 1/16/2013

Surface Coordinates 183' FSL x 1,247' FWL

Bottom Hole Coordinates 631' FNL x 1,013 FWL

County Weld

Rig Number Cade 22

Field Wattenberg

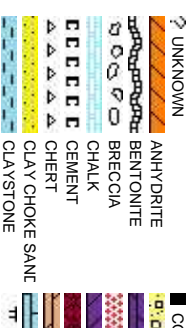
Drilling Completed 1/28/2013

Ground Elevation	4,562	K.B. Elevation	4,578
Logged Interval	5,488	To	10,707
Formation	Niobrara B Chalk	Total Depth	10,707
Type of Drilling Fluid	FW LSND		

Name Paul McKay

Company Bonanza Creek
410 17th Street
Denver, CO 802

Well site geologists for Colum



Geologist

Energy, Inc.

#1500

























202

Other

Combine Logging, Inc.

Joey Luce
Eli Smith

Rock Types

DAL	   					
CONGLOMERATE		X	X	X	X	 METAMORPHIC
DOLOMITE						 NO SAMPLE
GRANITE						 SALT
GYPSUM						 SANDSTONE
IGNEOUS						 SALT-PEPPER SAND
SIDERITE or LIMONITE						 TILL
LIMESTONE						 TUFT
MARLSTONE						 WELDED TUFT
SHALE						 SILTSTONE
SHALE GRAY						 SANDSTONE
SHALE SANDSTONE						 SILTSTONE

Accessories

Fossils
























[illegible]

Other Symbols

Oil Show

- ☒ MOLDIC
- ☐ ORGANIC
- ☐ PINPOINT
- ☐ VUGGY
- ☒ DEAD
- ☒ EVEN
- ☒ FAULT
- ☐ FORMATION TOP
- ☒ GAS SHOW
- ☒ MINDEPTH
- ☒ MAX DEPTH
- ☒ WIRELINE TESTED - LEFT
- ☒ WIRELINE TESTED - RT
- ☒ E EARTHY
- ☒ FINELYXXLN
- ☒ GRANSTONE
- ☒ L LITHOGRAPHIC

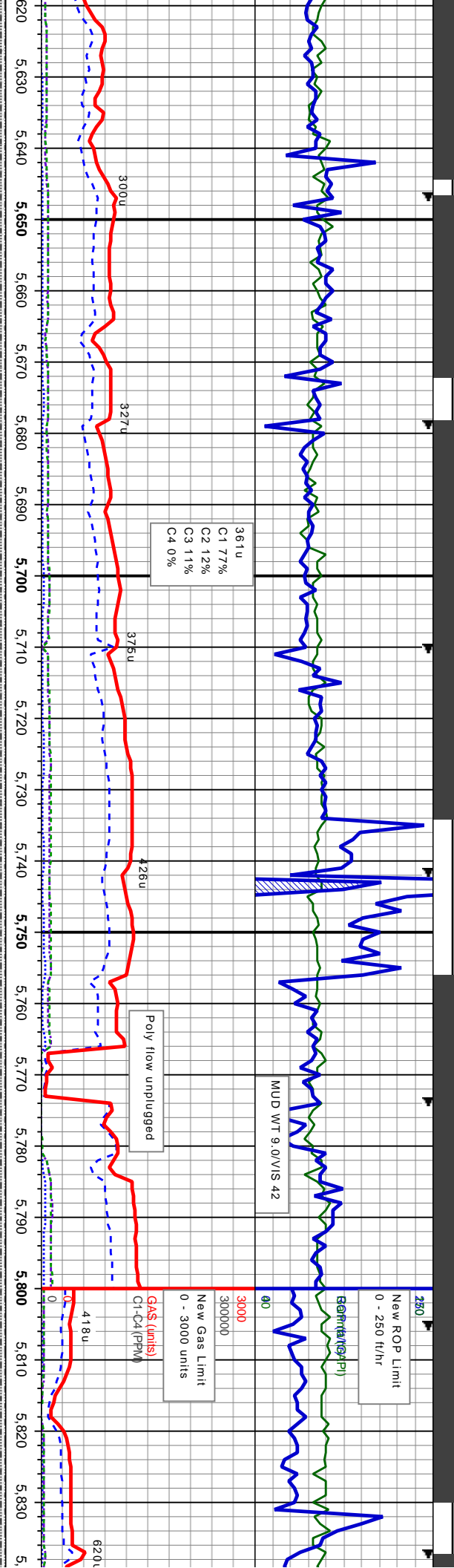
Engineering

	QUESTIONABLE		ANGULAR		M _X MICROX LN
	SPOTTED STAINING		OIL SHOW		M _S MUDSTONE
Engineering					
	BIT		OVERTURNED STRATA		P _S SUBANG
	CONNECTION (LEFT)		REVERSE FAULT		P _S SUBSND
	CONNECTION (RIGHT)		SIDEWALL CORE (LEFT)	Textures	
	FENESTRAL		SIDEWALL CORE (RIGHT)		
	FRACTURE		SLIDE		P _B BOUNDSTONE
	INTERCRYSTALLINE		SURVEY		P _C CHALKY
	INTEROOLITIC		TRIP GAS		P _C CRYPTOX LN
Sorting					
					P _M MODERATE
					P _P POOR
					P _W WELL

Textures

Sorting

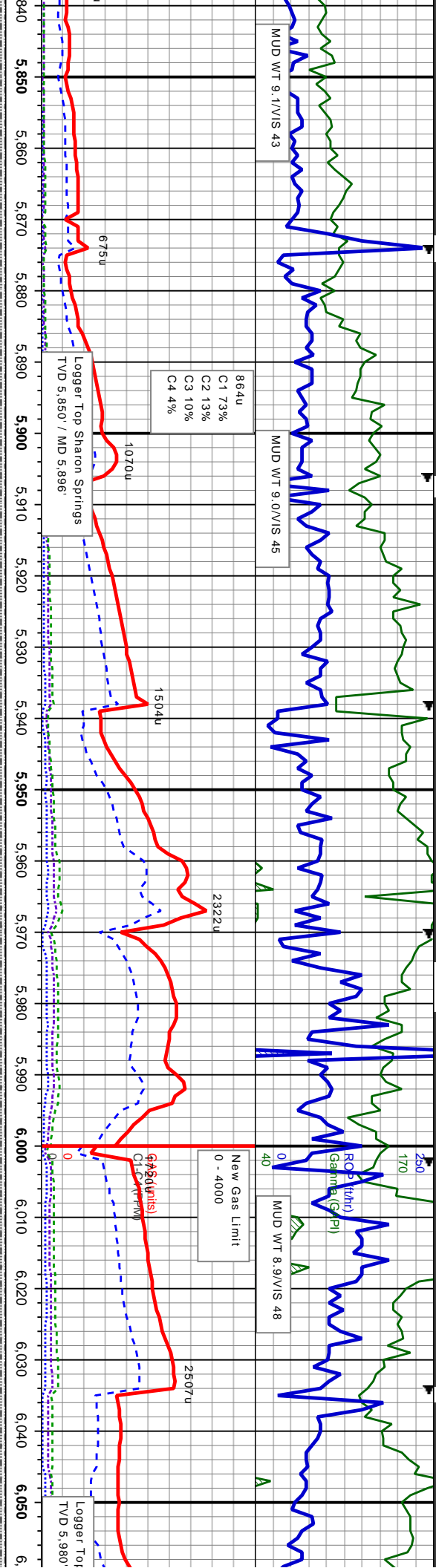
Slide/Rotate		<div>ROP (ft/hr)</div> <div>ROP (t/hr)</div> <div>Gamma (API)</div>		<div>ROP (ft/hr)</div> <div>ROP (t/hr)</div> <div>Gamma (API)</div>	
<div>ROP Limit</div> <div>0 - 150 ft/hr</div> <div>Gamma Limit</div> <div>40 - 170 API</div>		<div>ROP Limit</div> <div>0 - 150 ft/hr</div> <div>Gamma Limit</div> <div>40 - 170 API</div>		<div>ROP Limit</div> <div>0 - 150 ft/hr</div> <div>Gamma Limit</div> <div>40 - 170 API</div>	
<div>Total Gas & Chromatograph</div> <div>GAS (units)</div> <div>C1</div> <div>C2</div> <div>C3</div> <div>C4</div>		<div>Total Gas Limit</div> <div>0 - 3000 units</div> <div>GAS (units)</div> <div>C1-C4 (PPM)</div> <div>30' Sample Interval</div>		<div>GAS (units)</div> <div>C1-C4 (PPM)</div>	
Depth Labels		<div>0</div> <div>100</div> <div>10000</div>		<div>0</div> <div>100</div> <div>10000</div>	
% Lith		<div>0</div> <div>100</div>		<div>0</div> <div>100</div>	
Well Bore		<div>BHA #3</div> <div>BIT: 8.75" VAREL</div> <div>Serial #: 1335489</div> <div>Jets: 3x20</div> <div>Depth In: 5488' MD</div>		<div>BHA #3</div> <div>BIT: 8.75" VAREL</div> <div>Serial #: 1335489</div> <div>Jets: 3x20</div> <div>Depth In: 5488' MD</div>	
TVD		<div>TVD (ft)</div>		<div>TVD (ft)</div>	
Oil Show		<div>Oil Show</div>		<div>Oil Show</div>	
Images		<div>Images</div>		<div>Images</div>	



MD: 5.624 TVD: 5.596.59 Azimuth: 2.1 Inclination: 7.9 VS: -145.54	MD: 5.656 TVD: 5.628.13 Azimuth: 3.5 Inclination: 11.3 VS: -140.23	MD: 5.688 TVD: 5.659.33 Azimuth: 4.5 Inclination: 14.4 VS: -133.17	MD: 5.720 TVD: 5.690.12 Azimuth: 5.9 Inclination: 17.2 VS: -124.54	MD: 5.752 TVD: 5.720.56 Azimuth: 5.9 Inclination: 18.7 VS: -114.78	MD: 5.784 TVD: 5.750.58 Azimuth: 8.8 Inclination: 21.8 VS: -103.88	MD: 5.821 TVD: 5.784.44 Azimuth: 11.2 Inclination: 25.7 VS: -89.35
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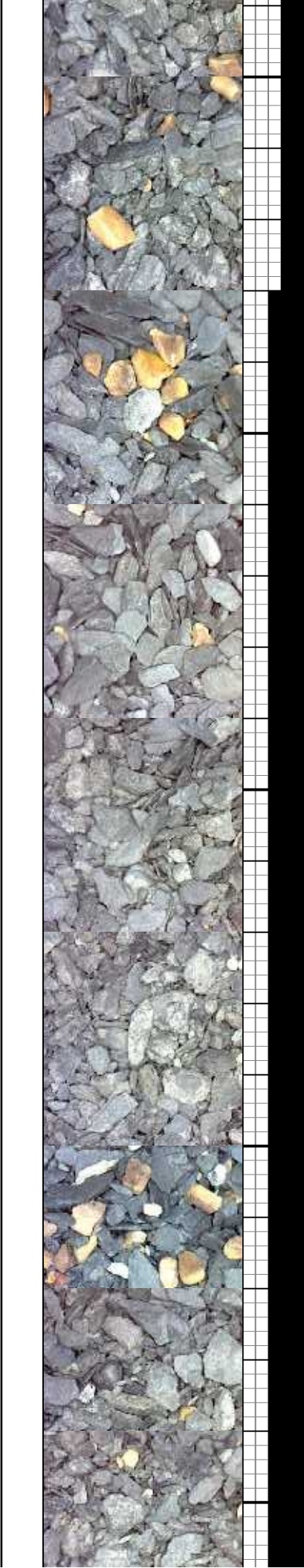
SH: It to med gy, ply to sb blk, sft to firm, fr, mtx, rthy lstr, sily to sl calc, grdg shy ss	85% SLTY SH: It to med gy, sb ply to sb blk, sft to firm, fr, mtx, rthy lstr, sily to sl calc, grdg shy ss 15% SHY	100% SLTY SH: It to med gy, sb ply to sb blk, sft to firm, fr, mtx, rthy lstr, sily to aren tex, v	100% SLTY SH: It to med gy, sb ply to sb blk, sft to firm, fr, mtx, rthy lstr, sily to aren tex, v	100% SLTY SH: It to med gy, sb ply to sb blk, sft to firm, fr, mtx, rthy lstr to occ soapy, sily to aren tex, v sl calc, grdg shy ss, some ss	100% SLTY SH: It to med gy, to dk gy, sb ply to sb blk, sft to firm, fr, mtx, rthy lstr to occ soapy, sily to aren tex, v sl calc, grdg shy ss, some sily flks	100% SLTY SH: some It, med to dk gy, sb ply to sb blk, sft to firm, fr, mtx, rthy lstr to occ soapy, sily to aren tex, non to v	90% SLTY SH: It to n sb ply to sb blk, sft to firm, fr, mtx, rthy lstr to occ soapy, sily to aren tex, non to v
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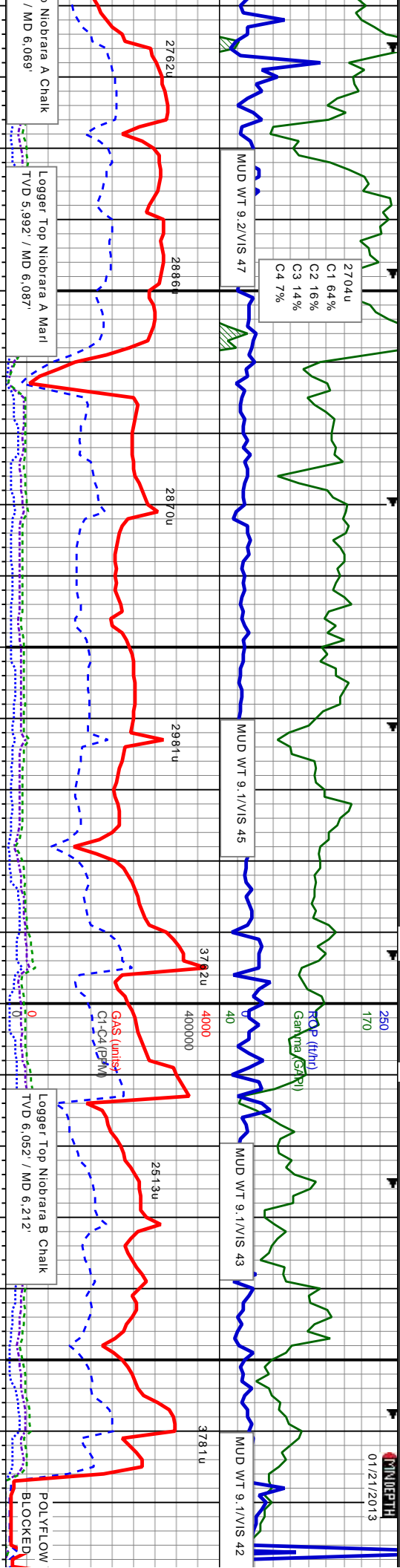


MD: 5,853 TVD: 5,813.07 Azimuth: 13 Inclination: 27.3 VS: -75.54	MD: 5,885 TVD: 5,841.1 Azimuth: 12.3 Inclination: 30.4 VS: -60.65	100% SLTY SH: med to dk gy, sb ply to sb blk, occ sft to sl firm, fri to brit, mtx, rthy to gritty lstr, sily to mot, non calc, tr bent	100% SLTY SH: med to dk gy, sb ply to sb blk, occ sft to sl firm, fri to brit, mtx, rthy lstr, sily lstr, non calc, small tr bent	100% SLTY SH: med to dk gy, sb ply to sb blk, occ sft to sl firm, fri to brit, mtx, rthy lstr, sily lstr, non calc, abnt bent	5500 100% SLTY SH: med to dk gy, sb ply to sb blk, sft to sl firm, fri, tr brit, mtx, rthy lstr, sily lstr, sl mot ip, v sl calc ip, com bent	100% SLTY SH: med to dk gy, sb ply to sb blk, sft to sl firm, fri, tr sb fts, mtx, rthy lstr, sily lstr, sl mot ip, sl calc ip, tr bent
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med dk gy, o sl firm, str, sily to alic, grdg s&p, tt c fri, vf c si calc	100% SLTY SH: it to med dk gy, sb ply to sb blk, sft to sl firm, fri, mtx, rthy to gritty lstr, sily to aren tex, non to v sl calc, grdg sh	MD: 5,917 TVD: 5,868.28 Azimuth: 9.8 Inclination: 33.3 VS: -44.24	MD: 5,949 TVD: 5,894.5 Azimuth: 8.8 Inclination: 36.6 VS: -26.3	MD: 5,981 TVD: 5,919.6 Azimuth: 9.1 Inclination: 40.1 VS: -6.85	MD: 6,013 TVD: 5,943.32 Azimuth: 9.5 Inclination: 44.2 VS: 14.15	MD: 6,045 TVD: 5,965.5 Azimuth: 9.5 Inclination: 48 VS: 36.7
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2704u
C1 64%
C2 16%
C3 14%
C4 7%



90-60% SLTY SH: med to dk
gy, sb ply to sb blk, sft to sl
firm, fri, tr brt, tr sb fis, mtx, rthy
lstr, silty lstr, sl mot ip, sl calc
ip, tr bent, tr pyr

10-30% CHK: lt to med gy, lt gy brn ip,
mot & str, sb blk to blk, sft to sl firm, fri,
brt ip, rthy lstr, wxy, calc:10% MARL: med
to dk gy, sb blk to blk, sft to sl firm, fri,
brt ip, rthy lstr, silty to arg tex, calc mtx

95-100% MARL: med to dk gy, blk ip, sl
mot, sl lmpy, sb ply to blk, sft to med
firm, fri to brt, sb fis ip, rthy lstr, silty to
arg tex, calc mtx, 5-0% CHK

530-65% MARL: med to dk gy brn, blk ip,
ply - sb blk, sl firm to firm, rthy lstr, silty to
arg tex, calc 20-35% CHK: lt gy brn,
beige, mot, sb ply to blk, sft, fri, rthy lstr,
wxy, calc, tr fos frag

70-60% MARL: med to dk gy brn, tr blk, ply - sb b
firm, rthy lstr, silty to arg tex, calc 30-40% CHK: lt g
brn, beige, crm ip, mot, sb ply to blk, sft to sl firm
fri - brt, rthy lstr, wxy, calc, tr fos frag, tr bent

MD: 6,077
TVD: 5,985.98
Azimuth: 8.8
Inclination: 52.4
VS: 60.76

MD: 6,109
TVD: 6,004.54
Azimuth: 7.3
Inclination: 56.7
VS: 86.37

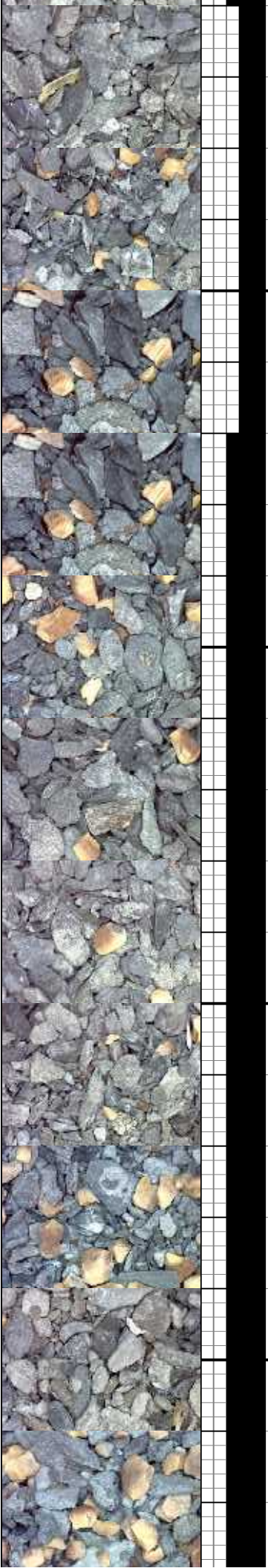
MD: 6,141
TVD: 6,021.11
Azimuth: 5.2
Inclination: 60.9
VS: 113.41

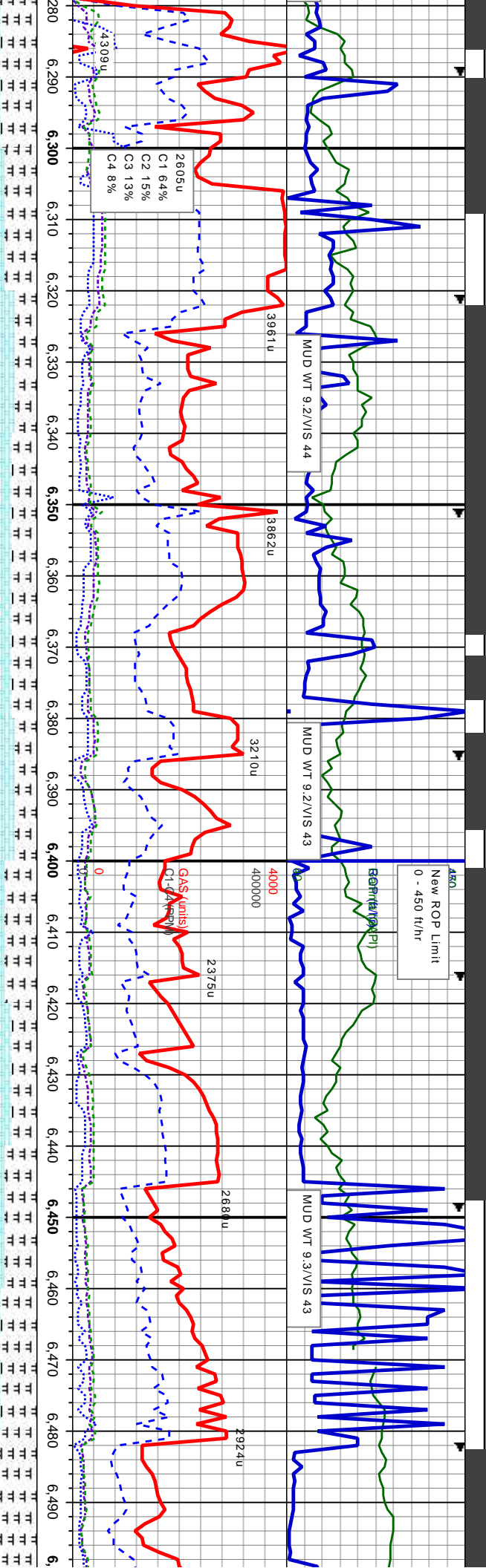
MD: 6,173
TVD: 6,035.69
Azimuth: 3.5
Inclination: 64.9
VS: 141.68

MD: 6,204
TVD: 6,048.17
Azimuth: 2.8
Inclination: 67.6
VS: 169.91

MD: 6,237
TVD: 6,059.53
Azimuth: 1.7
Inclination: 72.1
VS: 200.77

MD: 6,269
TVD: 6,068.19
Azimuth: 1.4
Inclination: 76.5
VS: 231.49





50-45% MARL: med to dk gy brn, tr blk & lt
gygn, sb ply - blk, firm, rthy lstr, silty to arg
tex, calc 50-55% CHK: lt gy brn, beige,
cm ip, mot, sb ply to blk, sft to sl firm, fri -
brit, rthy lstr, wxy, calc, tr fos frag, tr bent
ky,

70-65% CHK: lt gy brn, beige, cm ip, mot, sb ply to
blk, sft to sl firm, fri - brit, rthy lstr, wxy, calc 30-35%
MARL: med to dk gy brn, tr blk & lt gygn, sb ply - blk,
firm, rthy lstr, silty to arg tex, org /calc mtx, tr inoc

65-70% CHK: lt to med gy brn, mot, sb
ply to blk, sft to sl firm, fri - brit, rthy lstr,
wxy, calc 35-30% MARL: med to dk gy
brn, tr blk, sb ply - blk, firm, rthy lstr, silty
to arg tex, org /calc mtx, tr inoc

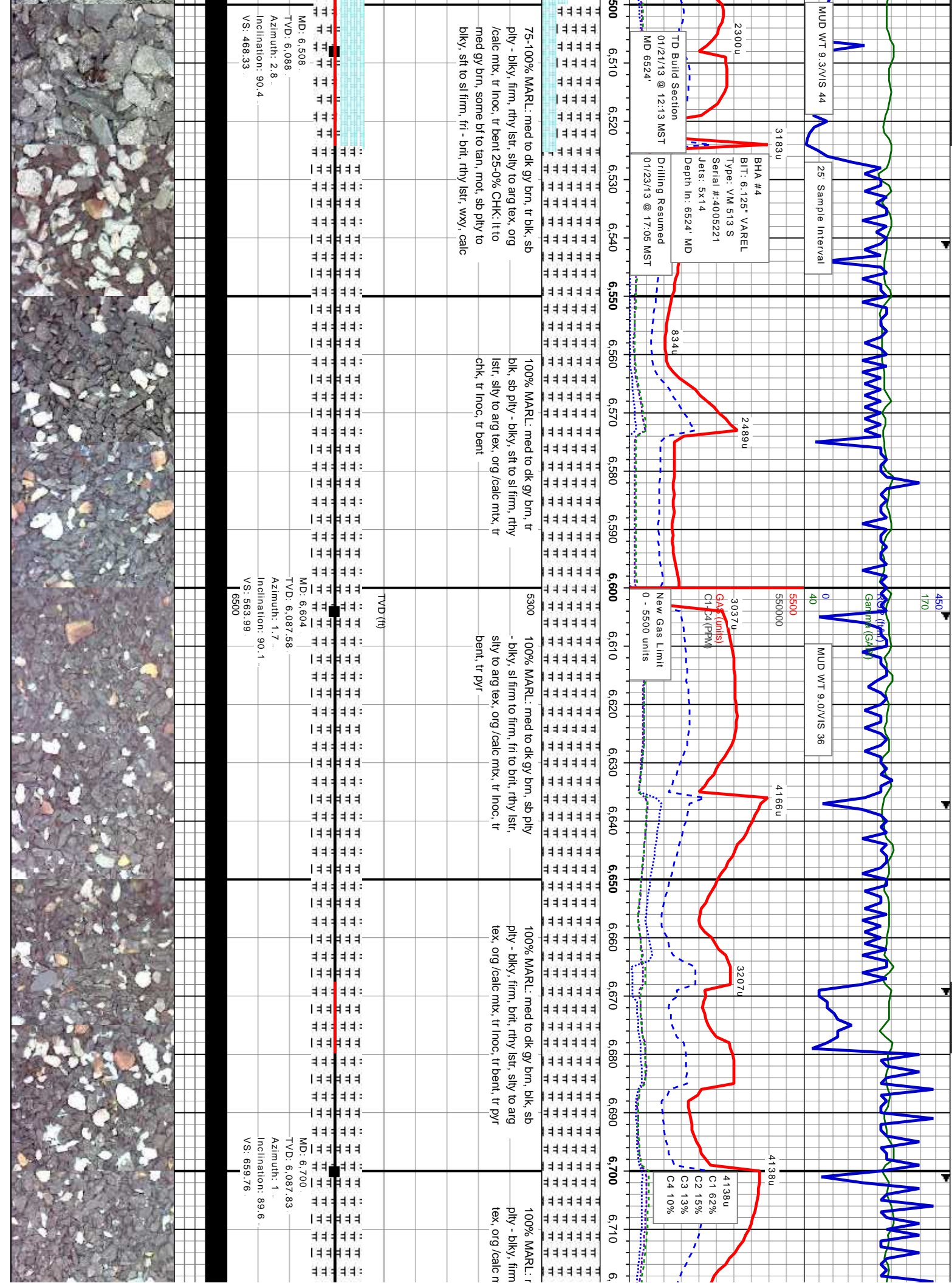
5300

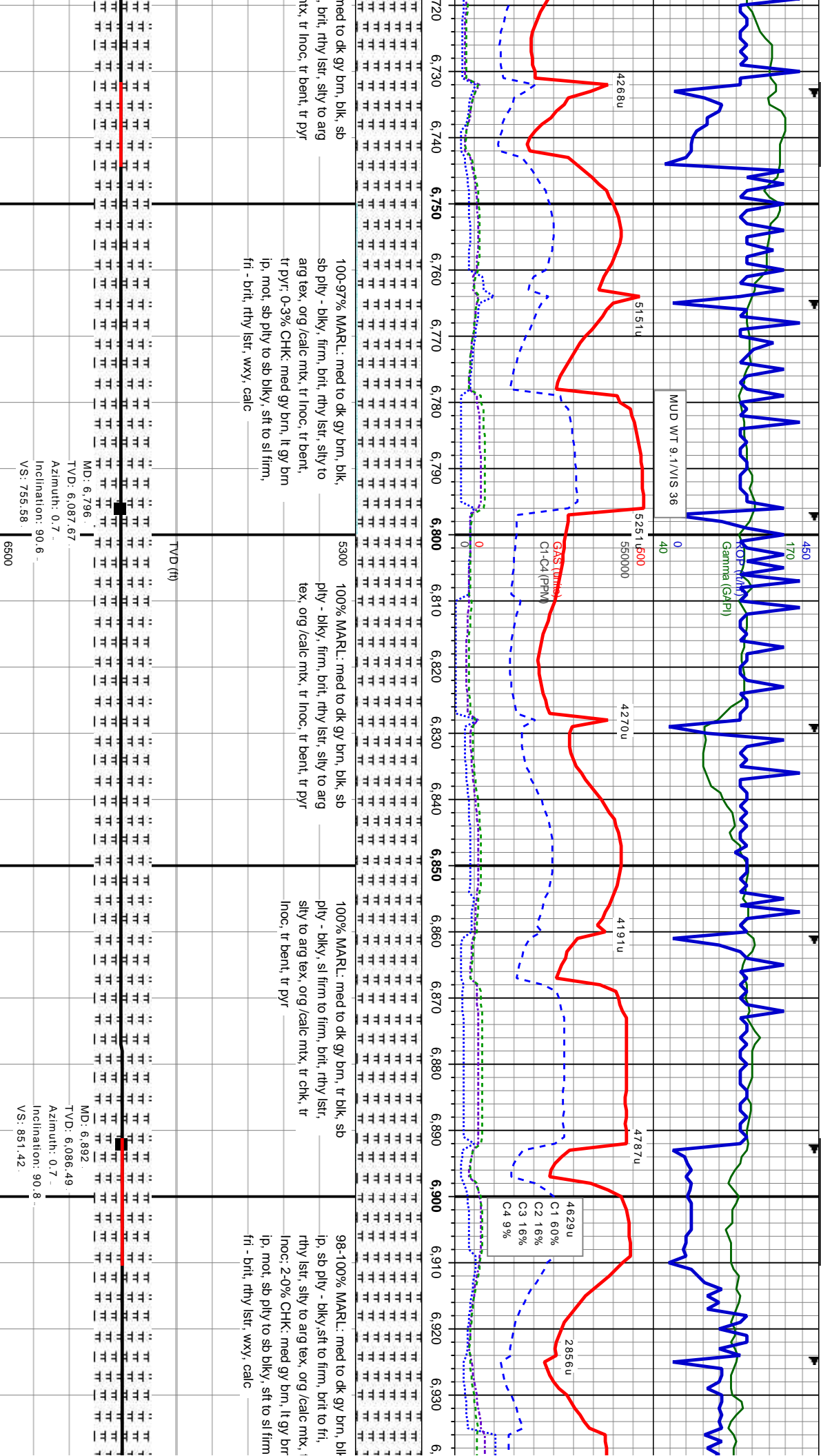
55-65% CHK: lt to med gy brn, some bf to tan,
mot, sb ply to blk, sft to sl firm, fri - brit, rthy
lstr, wxy, calc 45-35% MARL: med to dk gy brn,
tr blk, sb ply - blk, firm, rthy lstr, silty to arg tex,
org /calc mtx, tr inoc, tr bent

50-45% CHK: lt to med gy brn, some bf to
tan, mot, sb ply to blk, sft to sl firm, fri - brit,
rthy lstr, wxy, calc 50-55% MARL: med to dk
gy brn, tr blk, sb ply - blk, firm, rthy lstr, silty
to arg tex, org /calc mtx, tr inoc, tr bent

MD: 6,301	MD: 6,333	MD: 6,365	MD: 6,397	MD: 6,429	MD: 6,461
TVD: 6,074.54	TVD: 6,078.94	TVD: 6,081.59	TVD: 6,083.32	TVD: 6,085.11	TVD: 6,086.89
Azimuth: 2.4	Azimuth: 2.8	Azimuth: 3.5	Azimuth: 2.8	Azimuth: 2.1	Azimuth: 1.4
Inclination: 80.6	Inclination: 83.6	Inclination: 86.9	Inclination: 86.9	Inclination: 86.7	Inclination: 86.9
VS: 262.75	VS: 294.31	VS: 326.04	VS: 357.83	VS: 389.66	VS: 421.51





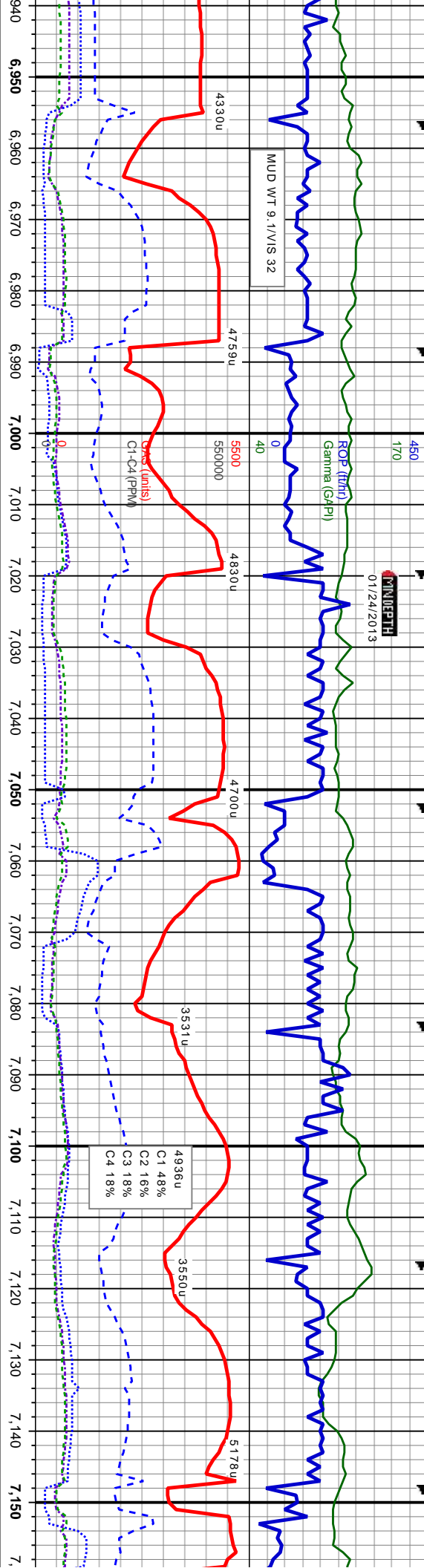


MUD WT 9.1 V/S 32

ROP (ft/hr)
Gamma (GAP)

ROP (units)
C1-C4 (PPM)

4936u
C1 48%
C2 16%
C3 18%
C4 18%



100% MARL: med to dk gy brn, tr blk, sb
ply - blk, sl firm to firm, brit, rthy lst,
sily to arg tex, org /calc mtx, tr chk, tr
lnoc, tr bent, tr pyr

5300 100% MARL: med to dk gy brn, tr blk, sb
ply - blk, sl firm to firm, brit, rthy lst,
sily to arg tex, org /calc mtx, tr lnoc, tr
bent, tr pyr

100-98% MARL: med to dk gy brn, tr blk,
sb ply - blk, sl firm to firm, brit, rthy lst,
sily to arg tex, org /calc mtx, tr lnoc, tr
pyr; 0-2%CHK:lt to med gy brn, mot, sb
ply to blk, stf to sl firm, fri - brit, rthy lst,
wxy, calc

90-75% MARL: med to dk gy brn, sb ply
- blk, sl firm to firm, brit, rthy lst, sily to
arg tex, org /calc mtx, tr lnoc:
10-25%CHK:lt to med gy brn, mot, sb
ply to blk, stf to sl firm, fri - brit, rthy lst,
wxy, calc

60-30%
blk, s
tex, or
med g
blk, s

TVD (ft)

TVD: 6,084.98

MD: 6,988

Azimuth: 0.3
Inclination: 91
VS: 947.26

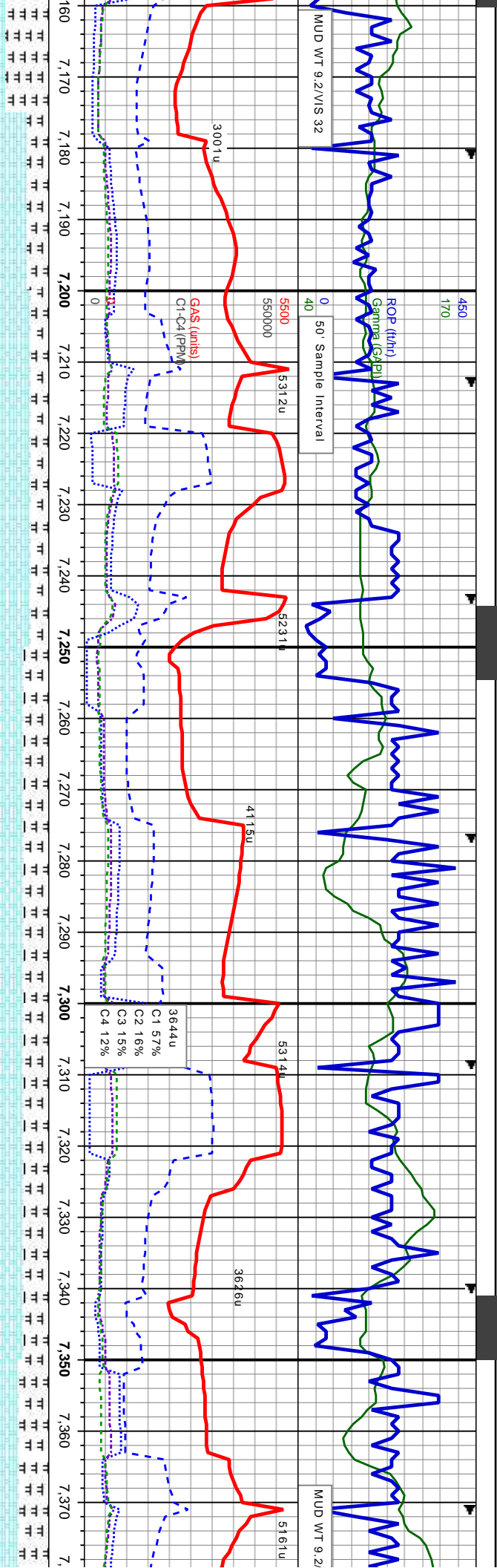
6500

MD: 7,084

TVD: 6,082.64

Azimuth: 2.1
Inclination: 91.8
VS: 1,043.02

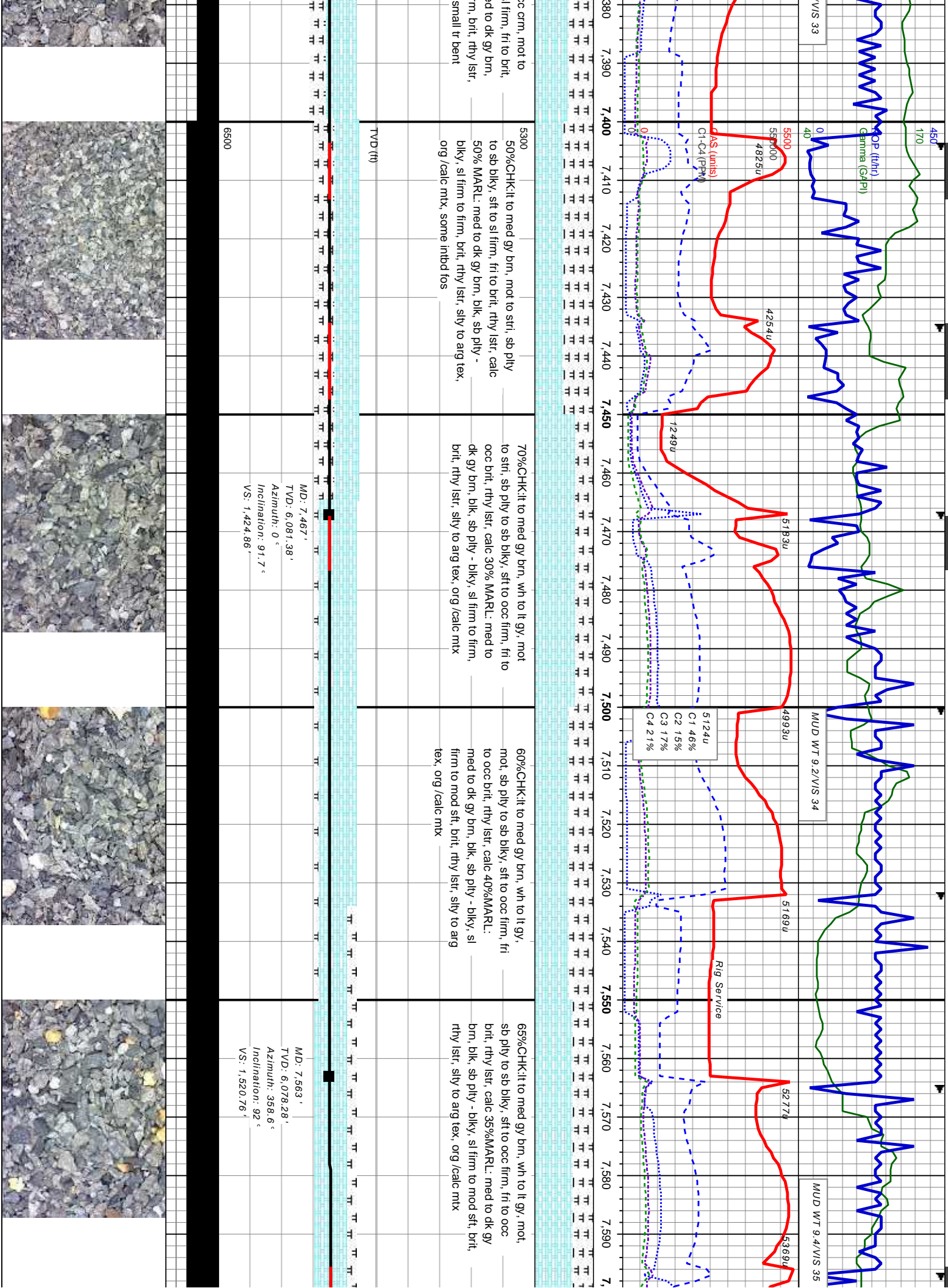


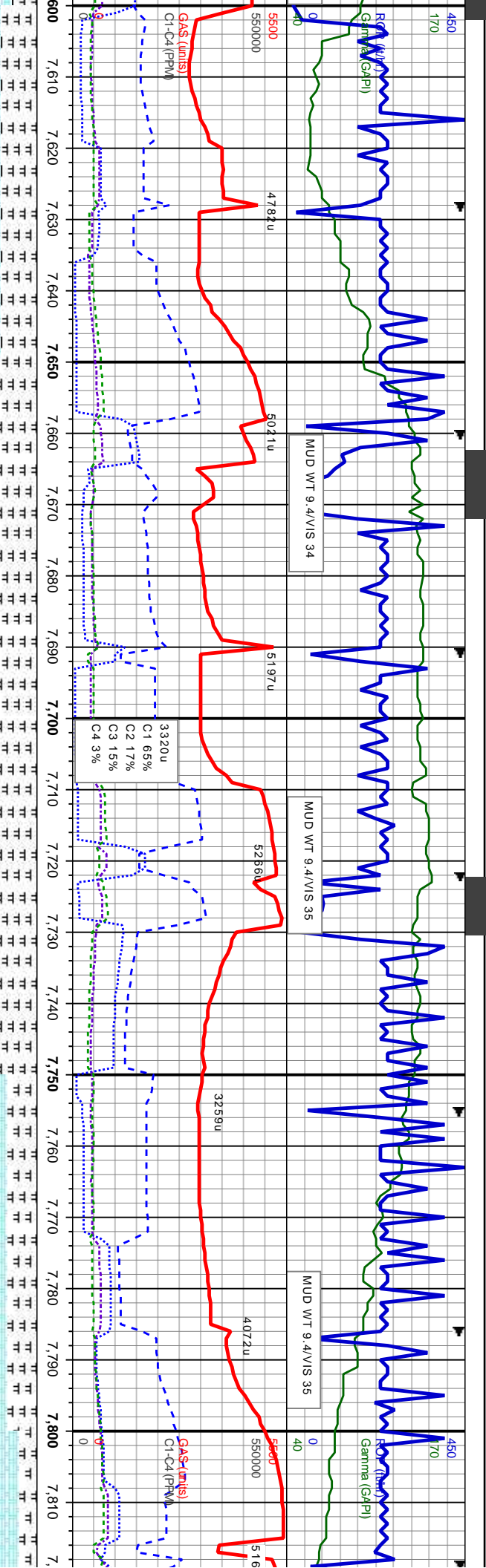


% MARL: med to dk gy brn, sb ply - sl firm to firm, brit, rthy lstr, silty to arg /calic mtx, tr inoc: 40-70%CHK:it to y brn, crm to bl to wh, mot, sb ply to silty to sl firm, fri - brit, rthy lstr, wxy, calic	5300 75%CHK:it to med gy brn, crm to bf to wh, mot, sb ply to blk, stt to sl firm, fri - brit, rthy lstr, wxy, calic 25% MARL: med to dk gy brn, sb ply - blk, sl firm to firm, brit, rthy lstr, silty to arg tex, org /calic mtx, tr inoc:	65%CHK:it to med gy brn, occ crm to wh, mot, sb ply to sb blk, stt to sl firm, fri - brit, rthy to wxy lstr, calic 35% MARL: med to dk gy brn, some blk, sb ply - blk, sl firm to firm, brit, rthy lstr, silty to arg tex, org /calic mtx, tr inoc: it bent	65%CHK:it to med gy brn, occ crm, mot to stri, sb ply to sb blk, stt to sl firm, fri to brit, rthy to wxy lstr, calic 35% MARL: med to dk gy brn, blk, sb ply - blk, sl firm to firm, brit, rthy lstr, silty to arg tex, org /calic mtx, small tr fos, tr bent	60%CHK:it to med gy brn, oc stri, sb ply to sb blk, stt to s rthy lstr, calic 40% MARL: me blk, sb ply - blk, sl firm to fir silty to arg tex, org /calic mtx,
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MD: 7,179 TVD: 6,080.65 Azimuth: 1.7 Inclination: 90.6 VS: 1,137.7		MD: 7,276 TVD: 6,080.06 Azimuth: 2.4 Inclination: 90.1 VS: 1,234.38		MD: 7,371 TVD: 6,081.38 Azimuth: 1.7 Inclination: 88.3 VS: 1,329.06	
6500					

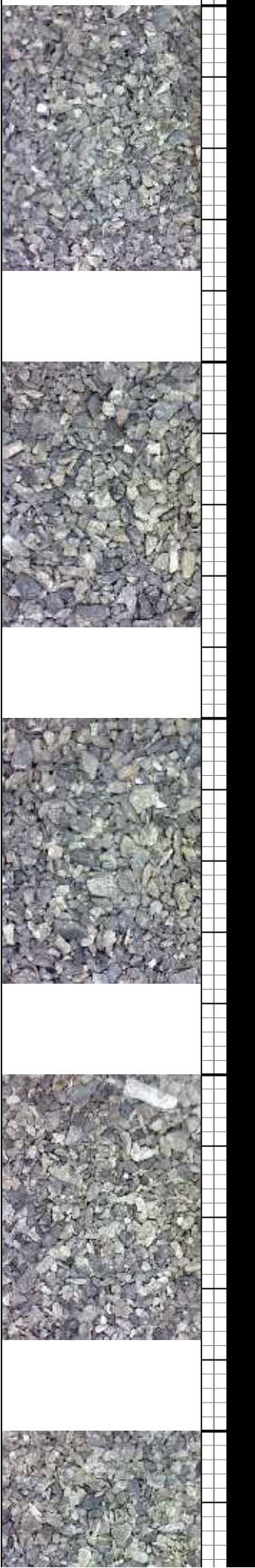


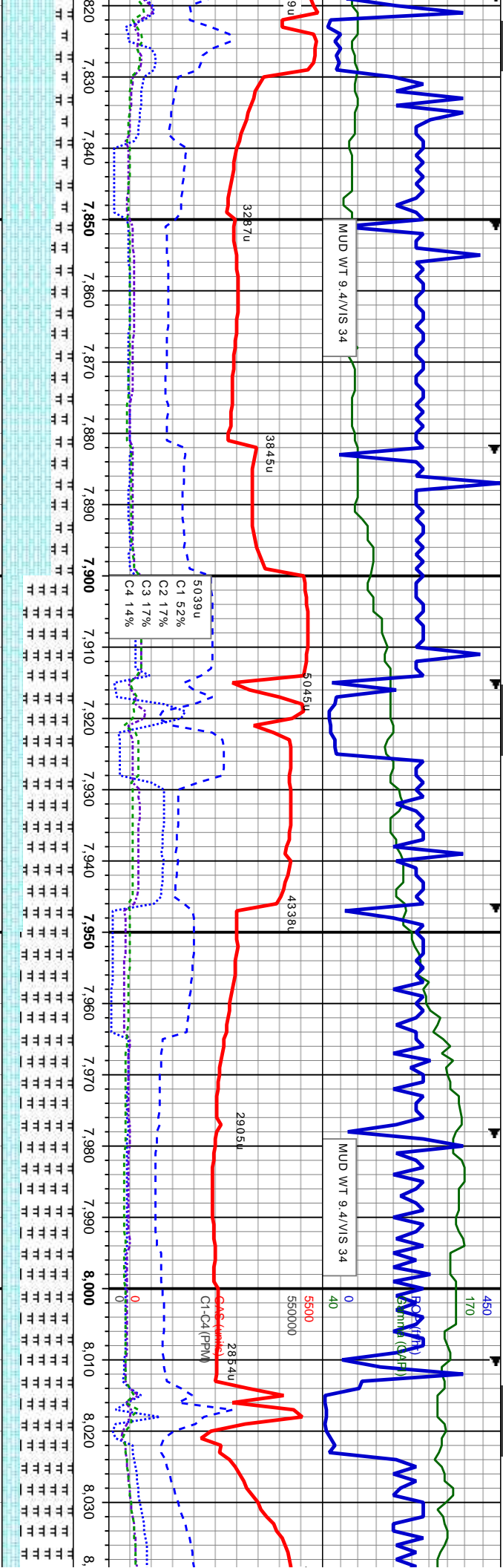




5300	50%CHK:lt to med gy brn, wh to lt gy, mot, sb ply to sb blk, sft to occ firm, fri to occ brit, rthy lstr, calc, intbd w/ 50%MARL, med to dk gy brn, blk, sb ply - blk, sl firm to mod sft, brit, rthy lstr, sly to arg tex, org /calc mtx, tr bent, tr inoc	55%MARL, med to dk gy brn, blk, sb ply - blk, sl firm to mod sft, brit, rthy lstr, occ mot, sly to arg tex, org /calc mtx, tr bent, tr inoc	65%MARL, med to dk gy brn, blk, sb ply - blk, sl firm to mod sft, brit, rthy lstr, occ mot, sly to arg tex, org /calc mtx, tr bent, tr inoc	70%CHK:lt to med gy brn, wh to lt gy, mot, sb ply to sb blk, sft to mod hd, fri to occ brit, rthy to wxy lstr, calc 30%MARL, med to dk gy brn, blk, sb ply - blk, sl firm to mod sft, brit, rthy lstr, occ mot, sly to arg tex, org /calc mtx, small tr bent, small tr inoc	5300	75%CHK:lt - med ply - sb blk, sft - wxy lstr, calc 25% blk, sb ply - blk, occ mot, sly - arg bent, v small tr inoc
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TVD (ft)	TVD (ft)	TVD (ft)	TVD (ft)	TVD (ft)
6500	6500	6500	6500	6500
MD: 7.659, TVD: 6.075, 1, Azimuth: 358.6, Inclination: 91.8, VS: 1.616, 69.	MD: 7.754, TVD: 6.073, 94, Azimuth: 358.2, Inclination: 89.6, VS: 1.711, 66.	MD: 7.659, TVD: 6.075, 1, Azimuth: 358.6, Inclination: 91.8, VS: 1.616, 69.	MD: 7.754, TVD: 6.073, 94, Azimuth: 358.2, Inclination: 89.6, VS: 1.711, 66.	MD: 7.659, TVD: 6.075, 1, Azimuth: 358.6, Inclination: 91.8, VS: 1.616, 69.





gy brn, wh, bf-crm, mot, sb
mod hd, fri - occ brt, rthy -
MARL: med to dk gy brn,
sl firm - mod sft, brt, rthy lst,
tex, org /calc mtx, small tr

70%CHK:lt - med gy brn, wh, bf-crm, mot, sb
ply - sb blk, sft - mod hd, fri - occ brt, rthy -
wxy istr, calc 30%MARL: med to dk gy brn,
blk, sb ply - blk, sl firm - mod sft, brt, rthy lst,
occ mot, sily - arg tex, org /calc mtx, small tr
bent, v small tr fos

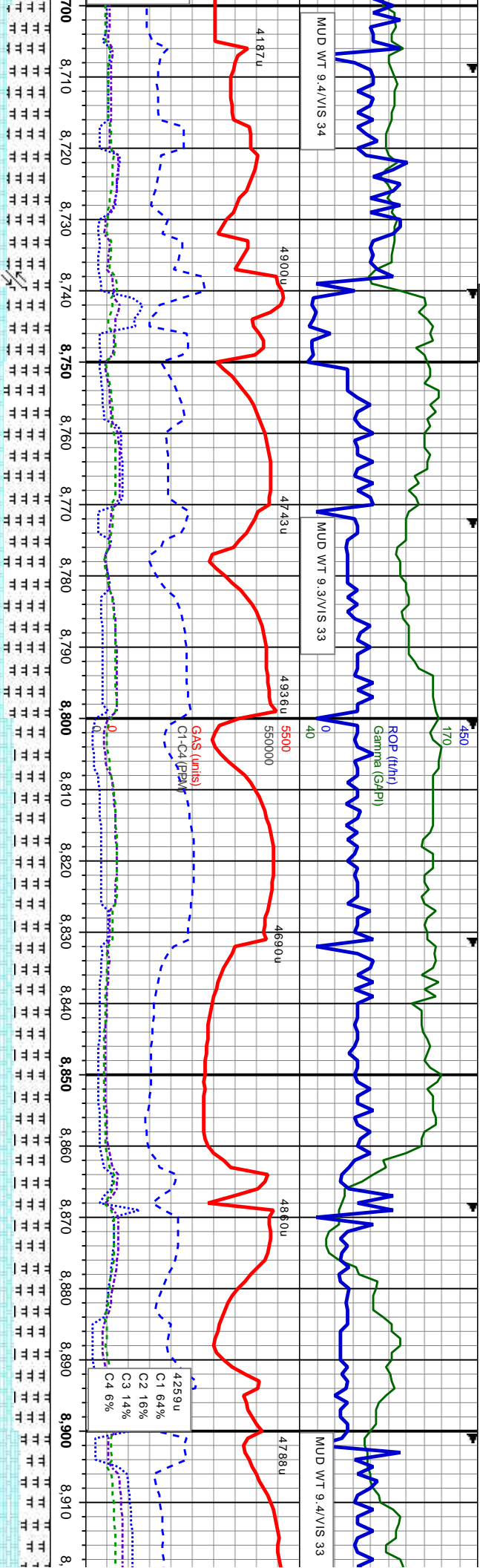
70%MARL: med - dk gy brn, blk, sb ply
- blk, sl firm - mod sft, brt, rthy istr, occ
mot, sily - arg tex, org /calc mtx, tr bent,
v small tr fos 30%CHK:lt - med gy brn,
bf-crm, mot, sb ply - sb blk, sft - mod
hd, fri - occ brt, rthy istr, calc

75%MARL: med - dk gy brn, blk, sb ply -
blk, sl firm - mod sft, brt, rthy istr, occ
mot, sily - arg tex, org /calc mtx, tr bent, v
small tr fos 25%CHK: occ lt gy, med gy
brn, some crm, mot, sb ply - sb blk, sft -
mod hd, fri - occ brt, rthy istr, calc

5300 75%MARL: med - dk gy brn, blk, sb p
blk, sl firm - mod sft, brt, rthy istr, occ
mot, sily - arg tex, org /calc mtx, tr bent,
v small tr fos 25%CHK: med gy brn, lt g
brn lp, mot, sb ply - sb blk, sft - mod
brt, rthy istr, calc

MD: 7,850 TVD: 6,074.02 Azimuth: 359.3 Inclination: 90.3 VS: 1,807.63		MD: 7,946 TVD: 6,073.69 Azimuth: 0.7 Inclination: 90.1 VS: 1,903.53		MD: 8 TVD: Azimu Inclin VS: 1	
6500					





60%MARL: med - dk gy brn, blk, sb pily - blk, sl firm - mod hd, brlt, rthy lstr, occ mot, silty - arg tex, org /calc mtx, tr inoc, tr bent, tr pyr 40%CHK: lt - med gy brn, mot, sb pily - blk, sft - sl firm, brlt - fri, rthy lstr, calc

65%MARL: med - dk gy brn, blk, sb pily - blk, sl firm - mod hd, brlt, rthy lstr, occ mot, silty - arg tex, org /calc mtx, small tr tos, small tr bent 35%CHK: lt - med gy brn, mot, sb pily - blk, sft - sl firm, brlt - fri, rthy lstr, calc

5300
50%MARL: med - dk gy brn, blk, sb pily - blk, sl firm - mod hd, brlt, rthy lstr, occ mot, silty - arg tex, org /calc mtx, med tr inoc, small tr bent 50%CHK: lt - med gy brn, wh - lt gy, mot, sb pily - blk, sft - sl firm, brlt - fri, rthy lstr, calc

50%MARL: med - dk gy brn, blk, sb pily - blk, sl firm - mod hd, brlt, rthy lstr, occ mot, silty - arg tex, org /calc mtx, tr inoc, small tr bent 50%CHK: lt - med gy brn, wh - lt gy, mot, sb pily - blk, sft - sl firm, brlt - fri, rthy lstr, calc

60%CHK: lt - r - bf, mot, sb pily - blk, sb pily - blk, rthy lstr, calc 4 - blk, sb pily - blk, rthy lstr, occ r mtx, small tr in

Small Fault U/D
MD 8729'

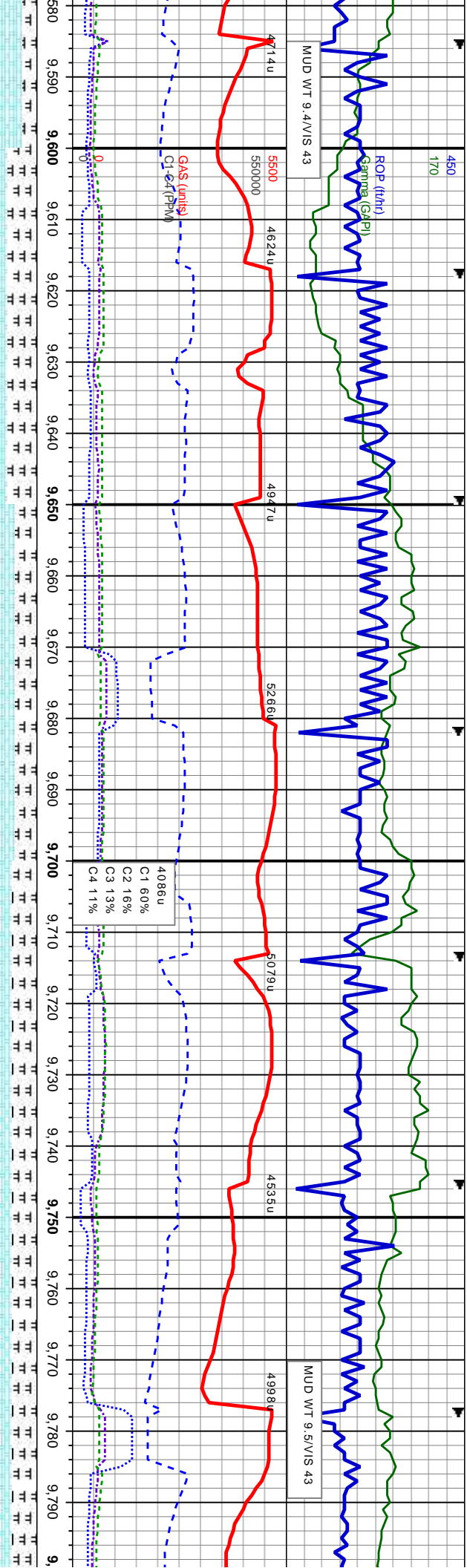
TVD (ft)

MD: 8,707
TVD: 6,081.58
Azimuth: 0.7
Inclination: 91.7
VS: 2,662.39

MD: 8,804
TVD: 6,080.23
Azimuth: 1.4
Inclination: 89.9
VS: 2,759.18

MD: 8,900
TVD: 6,080.81
Azimuth: 1
Inclination: 89.4
VS: 2,854.97

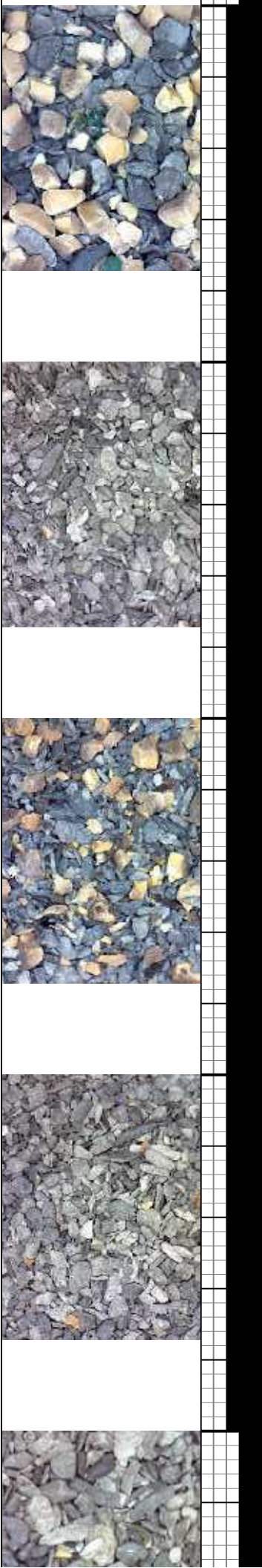
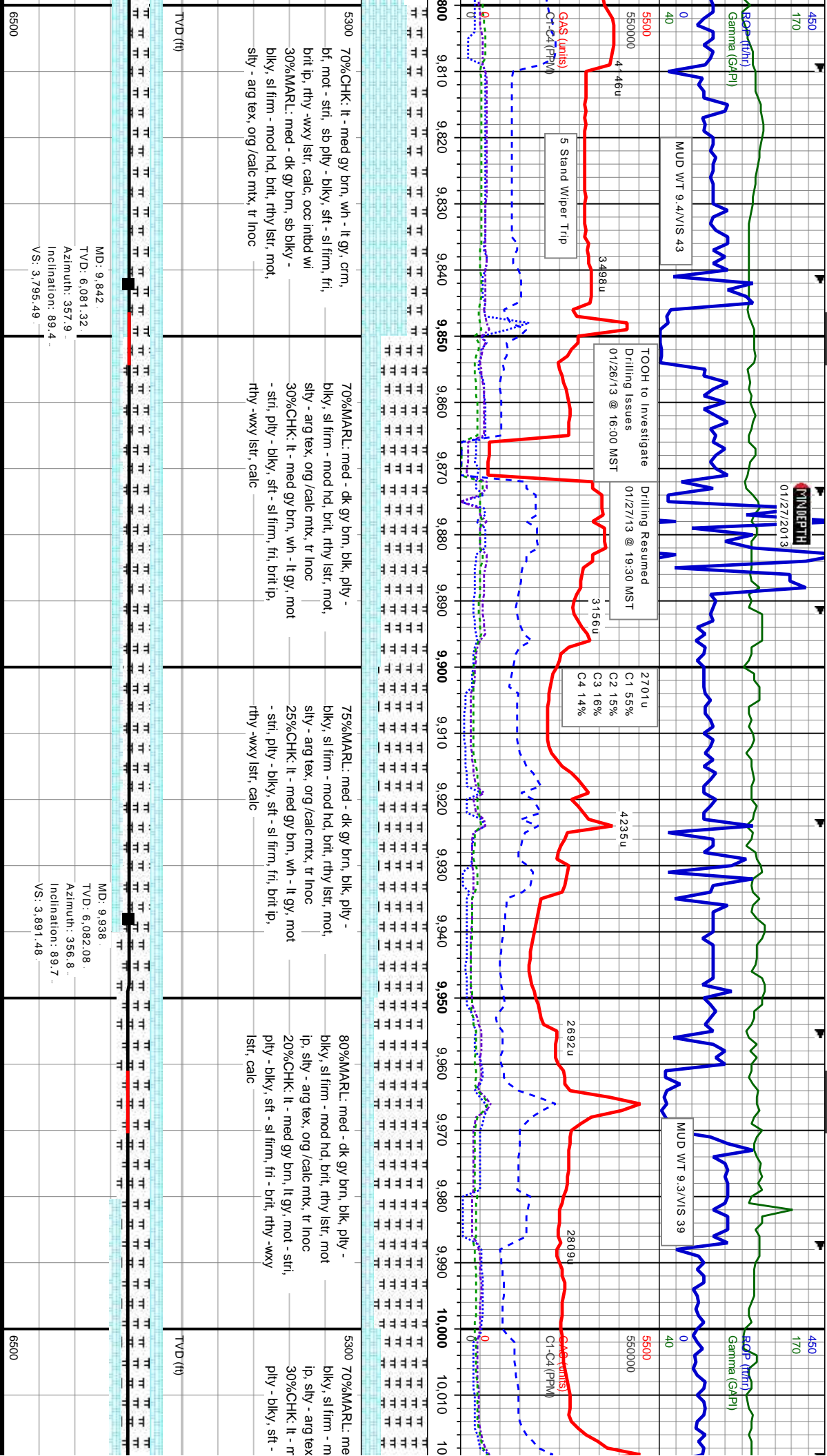


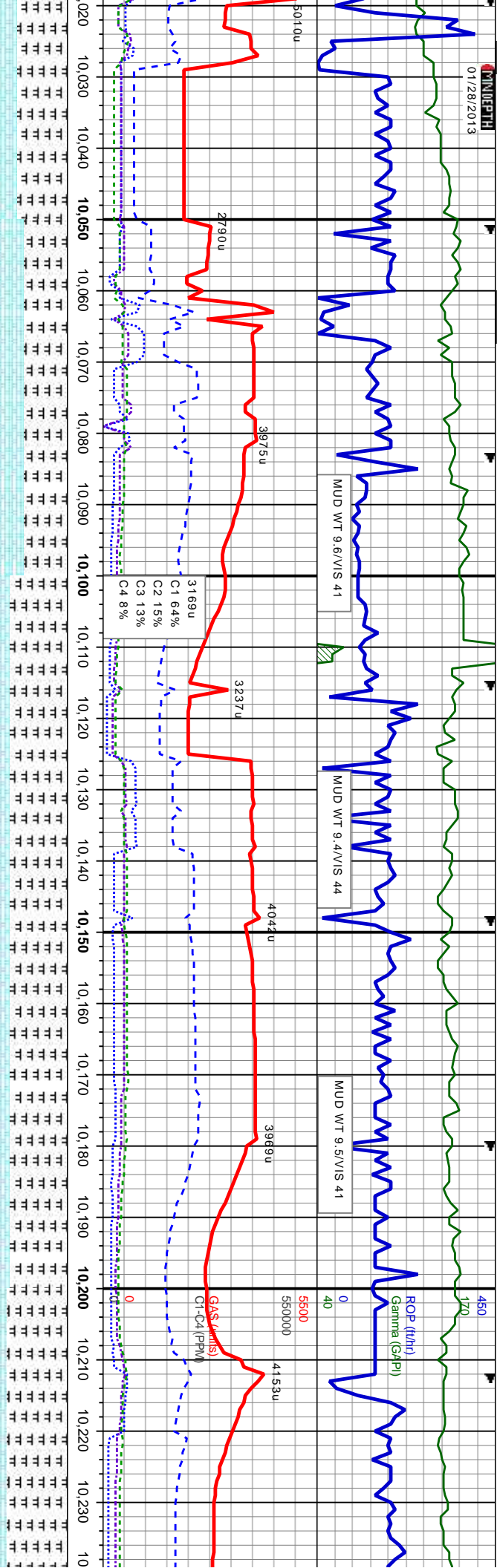


st - lt gy, crm, st - st firm, fri, st firm - mod nd, tex, org /calc	5300	60%CHK: lt - med gy brn, wh - lt gy, crm, bf, mot - stri, sb ply - blk, sft - st firm, fri, brt ip, rthy -wxy lstr, calc 40%MARL: med - dk gy brn, sb blk - blk, st firm - mod hd, brt, rthy lstr, mot, sily - arg tex, org /calc mtx, small tr bent	70%CHK: lt - med gy brn, wh - lt gy, crm, bf, mot - stri, sb ply - blk, sft - st firm, fri, brt ip, rthy -wxy lstr, calc, tr diss pyr 30%MARL: med - dk gy brn, sb blk - blk, st firm - mod hd, brt, rthy lstr, mot, sily - arg tex, org /calc mtx, tr bent, tr inoc	65%CHK: lt - med gy brn, wh - lt gy, crm, bf, mot - stri, sb ply - blk, sft - st firm, fri, brt ip, rthy -wxy lstr, calc, occ inbd wi 35%MARL: med - dk gy brn, sb blk - blk, st firm - mod hd, brt, rthy lstr, mot, sily - arg tex, org /calc mtx, small tr bent, tr inoc	65%CHK: lt - med gy brn, wh - lt gy, crm, bf, mot - stri, sb ply - blk, sft - st firm, fri, ip, rthy -wxy lstr, calc, occ inbd wi 35%MARL: med - dk gy brn, sb blk - blk, st firm - mod hd, brt, rthy lstr, mot, sily - arg tex, org /calc mtx, small tr bent, tr inoc
TVD (ft)					

		MD: 9.648 TVD: 6,080.64 Azimuth: 0.3 Inclination: 90.6 VS: 3.601.58		MD: 9.744 TVD: 6,080.47 Azimuth: 358.9 Inclination: 89.6 VS: 3.697.51
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60%MARL: med - dk gy brn, blk, pily -
blky, sl firm - mod hd, brlt, rthy lstr, mot
ip, silty - arg tex, org /calc mtx, tr bent,
small tr inoc 40%CHK: lt - med gy brn,
lt gy, mot - stri ip, pily - blk, sft - sl firm,
fri - brlt, rthy, calc, intbd w/ marl

80%MARL: med - dk gy brn, blk, pily -
blky, sl firm - mod hd, brlt, rthy lstr, mot
ip, silty - arg tex, org /calc mtx, small tr
bent, small tr inoc 20%CHK: lt - med gy
brn, lt gy, mot - stri ip, pily - blk, sft - sl
firm, fri - brlt, rthy, calc, intbd w/ marl

80%MARL: med - dk gy brn, blk, pily -
blky, sl firm - mod hd, brlt, rthy lstr, mot
ip, silty - arg tex, org /calc mtx, tr bent, tr
inoc 20%CHK: lt - med gy brn, lt gy,
mot - stri ip, pily - blk, sft - sl firm, fri -
brlt, rthy, calc, intbd w/ marl, tr pyr

MD: 10.033 TVD: 6,083.4 Azimuth: 357.5 Inclination: 88.7 VS: 3,986.47	MD: 10.129 TVD: 6,084.83 Azimuth: 359.3 Inclination: 89.6 VS: 4,082.44	MD: 10.226 TVD: 6,085.42 Azimuth: 358.2 Inclination: 89.7 VS: 4,179.41
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