

Well Information

Operator: ConocoPhillips Canada Resources Corp.
Well Name: COPRC Mirror Lake N-20
Location: Unit:N Section:20, Grid: 65-00 126-45
UWI: 300N206500126450
Pool / Field: Undefined / Mirror Lake
Well License #: 470
Province / State: Northwest Territories
Country: Canada

Elevations

Reference: <u>Ground</u>	Ground: <u>281.3 m</u>
Cut(-) / Fill(+): <u></u>	Kelly Bushing: <u>286.5 m</u>
K.B. to Ground: <u>5.2 m</u>	Casing Flange: <u>281.63 m</u>

Total Depth

Measurement Type	Measured Depth	True Vertical Depth
Drillers TD (Tally)	2146 m	2146 m
Drillers TD (Strap or SLM)	m	m
Loggers TD	m	m

Well Co - Ordinates

	Longitude	Latitude	Well Type: Vertical
Surface Co-Ordinates:	126 48' 14.6" W	64 59' 46.8" N	NS: EW:
Int. Casing Co-Ordinates:			NS: EW:
Bottom Hole Co-Ordinates:			NS: EW:
UTM Surface Co-Ordinates:	Northing: 7209651.62		Easting: 603555.85

Drilling Fluid Summary

Fluid Type	From	To
Gel Chem	0 m	601 m
Invert (Versaclean)	601 m	2146 m

Casing Summary

Type	Hole Size	Casing Size	Landed At
Surface	311 mm	244.5 mm	598 m

Well Summary

Spud Date: Feb 25, 2013 @ 17:00hrs **Contractor:** Beaver Drilling Ltd.
TD Date: Mar 20, 2013 @ 01:00hrs **Rig Release Date:**

Work Schedule

Contractor	Geologist	Log Interval	Dates Logged
Black Gold Geotechnical	Dave Lawrence	0 m - 2146 m	Feb 25, 2013 - Mar 20, 2013

Remarks

Legend

Rock Types and Thin Beds

Whole Bed	Stringer	Nodule	Breccia	Clast	Pebble	Grain	Rock Type
							Anhydrite - primary
							Anhydrite - secondary
							Argillite
							Barite
							Bentonite
							Breccia
							Cement
							Conglomerate - mixed
							Conglomerate - dark chert
							Conglomerate - light chert
							Conglomerate - varicolored chert
							Chert - dark
							Chert - fossiliferous
							Chert - light
							Chert - tripolitic
							Chert - varicolored
							Claystone - colored
							Claystone - gray
							Coal
							Dolomite
							Ferruginous
							Feldspar
							Gypsum
							Igneous - acidic
							Igneous - basic
							Igneous - metamorphic
							Muddy IHS burrowed
							Muddy Inclined Heterolithic Strata
							Limestone - grain supported
							Limestone - mud supported
							Marlstone - calcareous
							Marlstone - dolomitic
							Mud breccia
							Mudstone
							Paleosol
							Phosphate
							Quartz
							Salt
							Shale - black
							Shale - dark gray
							Shale - medium gray
							Shale - light gray
							Shale - brown
							Shale - green
							Shale - red
							Siderite
							Sandstone
							Siltstone
							Sandy IHS burrowed
							Sandy Inclined Heterolithic Strata
							Till - glacial
							Volcanic (Tuff)
							Welded Volcanic (Tuff)

Textures

C	Chalky	e	Earthy	mx	Microcrystalline
CX	Cryptocrystalline	L	Lithographic		Slickenside
MS	Mudstone	GS	Grainstone	BFS	Bafflestone
WS	Wackestone	FLS	Floatstone	BS	Bindstone
PS	Packstone	RS	Rudstone	FS	Framestone

Accessories

	Anhydritic		Gibbsitic
	Argillaceous		Illitic
	Baritic		Kaolinitic
	Bentonitic		Lithic Fragment
	Bituminous		Marly - calcareous
	Calcareous		Marly - dolomitic
	Carbonaceous		Micromicaceous
	Cherty - dark		Mixed layer clayey
	Cherty - fossiliferous		Montmorillonitic
	Cherty - light		Phosphate pellets
	Cherty - tripolitic		Pyritic
	Cherty - varicolored		Salt casts
	Chloritic		Sandy
	Clayey		Sideritic
	Dolomitic		Siliceous
	Ferruginous staining		Silty
	Fractures		Stylolitic
	Glaucinitic		Tuffaceous
	Gypsiferous		Zeolitic

Fossils (Rock Builders)

	Aggregate grains		Foraminifera
	Algae - laminations		Fossil
	Algae - non descript		Fragmental
	Algae - ootoid		Gastropod
	Algae - skeletal		Graptolite
	Amphipora		Hydrozoa
	Belemnite		Intraclast
	Bioclastic		Mollusc
	Brachiopod		Oncolite
	Bryozoa		Oolite
	Calciphaera		Ostracod
	Cephalopod		Pelecypod
	Chaetetes		Pellet
	Coated grain		Pisolite
	Conodont		Plant Remains
	Coral		Plant Spores
	Coral - branching		Scaphopod
	Coral - head		Spicule
	Coral - colonial		Sponge
	Coral - solitary		Stromatoporoid
	Crinoid		Stromatoporoid - bulbous
	Diatom		Stromatoporoid - massive
	Echnoid		Stromatoporoid - tabular
	Echnoid - spine		Tentaculites
	Fish Remains		Trilobite
	Euryamphipora		

Matrix

	Argillaceous		Marl - calcareous
	Bafflestone		Marl - dolomitic
	Bentonite		Micrite
	Bindstone		Mixed Clay
	Bituminous		Montmorillonite
	Clay		Mudstone
	Chlorite		Packstone
	Floatstone		Rudstone
	Framestone		Sand
	Gibbsite		Silt
	Grainstone		Sparry Calcite
	Illite		Wackestone
	Kaolinite		Zeolite

Miscellaneous Grains

	Biotite		Mineral crystal		Orthoclase
	Glauconite		Mineral - dark		Plagioclase
	Mica flakes		Muscovite		Sand grain

Porosity Type Track

e	Earthy - low permeability - crystals / grains less than 1 / 16 mm		
□	Fenestral - voids from gas bubbles - shrinkage cracks - birdseye texture		
X	Inter-crystalline - Interfragmental - Intergranular		
F	Fracture	O	Organic - Bridged - Intrafossil
◇	Interoolitic - Interpelletoidal	P	Pinpoint - voids less than 1/ 16 mm
~	Moldic	V	Vuggy - voids greater than 1 / 16 mm

Oil Show Track

●	Even staining (75 - 100% of the rock is stained) - fluoresces in solvent
◐	Spotted staining (50 - 75% of the rock is stained) - fluoresces in solvent
◑	Spotted staining (25 - 50% of the rock is stained) - fluoresces in solvent
◒	Spotted staining (1 - 25% of the rock is stained) - fluoresces in solvent
○	Questionable oil staining - No fluorescents in solvent
D	Dead oil staining - asphaltic - bitumen - pyrobitumen etc.
F	Fluoresces - no visible oil staining

Trace Fossil Track

An	Anconichnus	Ar	Arenicolites	At	Arthropycus	As	Asterosoma
Au	Aulichnites	Be	Bergaueria	Cg	Camborygma	Cf	Celliforma
Cb	Chabutulithes	Ch	Chondrites	Cl	Climactichnites	Co	Conichnus
Cp	Cosmoraphe	C	Cruziana	Cy	Cylindrichnus	Da	Dactyloidites
Dm	Dimorphichnus	D	Diplocraterion	Ea	Eatonichnus	En	Entobia
Et	Entomichnus	Esc	Escape Traces	Ga	Gastrochaenolites	Gl	Glossifungites
G	Gyrolithes	Gy	Gyrophyllites	H	Helminthopsis	K	Kouphichnium
L	Lockeia	Lo	Lorenzina	Mp	Macanopsis	Ma	Macaronichnus
Mo	Monocraterion	Ne	Neonereites	N	Nereites	O	Ophiomorpha
Pa	Palaeophycus	Pd	Paleodictyon	Pc	Paleohelcura	Pl	Paleoscolytus
Pt	Petalichnus	Py	Phycodes	Ph	Phycosiphon	P	Planolites
Pm	Psammichnites	Ps	Psilonichnus	Rh	Rhizocorallium	Rg	Rogerella
Ro	Rosselia	Ru	Rusophycus	Sb	Scalarituba	Sc	Schaubcylindrichnus
Sy	Scoyenia	Si	Siphonichnus	S	Skolithos	Sp	Spirophycus
Su	Subphyllochorda	Syn	Synaeresis Cracks	Te	Teichichnus	Tr	Terebellina
Td	Teredolites	Th	Thalassinoides	Tc	Trichichnus	Tp	Trichophycus
Ty	Trypanites	Z	Zoophycos				

Sedimentary Structures

	Ball and pillow		Bioturb-churned		Bioturb-slightly		Bioturb-moderate
	Bioturb-mod well		Bioturb-well		Boudinage		Burrows
	Clastic Dike		Clastic sill		Desiccation crack		Dish structure
	Fault-Large scale		Fault-Small scale		Flame structure		Flute mark
	Geopetal		Groove casts		Gutter casts		Load casts
	Inclined heterolithic strata				Mud chips		Mud drapes
	Neptunian dike		Pit marks		Pull-a-part		Rill marks
	Rip up clasts		Roots / root trace		Scour and Fill		Slump structure
	Swash marks		Syneresis crack		Teepee structure		Tool marks
	Water Escape						

Sedimentary Bedding Contacts

BIO	Bioturbated	BORED	Bored	CAL	Caliche / calcrete	COR	Corrosional	DC	Dessication cracks
EX	Exposure	FS	Flooding surface	GLOSS	Glossifungites	GRAD	Gradational	HG	Hardground
INCL	Inclined - sharp	IRR	Irregular - sharp	MFS	Maximum flooding surface			MC	Mud cracks
NOD	Nodular	PB	Parasequence boundary	RS	Ravinement surface	RSE	Regressive surface of erosion		
ROOT	Rooted	SCOUR	Scour	SB	Sequence boundary	SHARP	Sharp	TRUN	Truncation
TSE	Transgressive surface of erosion			UNCON	Unconformity	WAVY	Wavy		

Cement

	Anhydritic		Gypsiferous
	Baritic		Hematitic
	Bituminous		Limonitic
	Calcareous		Pyritic
	Chert - dark		Salt
	Chert - light		Sideritic
	Dolomitic		Siliceous
	Ferruginous		

Sorting Track

vP	Very poorly sorted - > 10 phi size grade classes
P	Poorly sorted - 6-10 phi size grade classes
M	Moderately sorted - 3-6 phi size grade classes
mW	Moderately well sorted - 2-3 phi size grade classes
W	Well sorted - < 2 phi size grade classes

Rounding Track

vA	Very Angular	r	Subrounded
A	Angular	R	Rounded
a	Subangular	wR	Well Rounded

Framework Track

Framework is a ratio between clastic material greater than 1/16 mm and primary void filler less than 1/16 mm.
? indicates questionable interpretation

Core Track

	Indicates
	Cored Interval
	Indicates Lost Core

Test Track

	Indicates
	Tested
	Interval

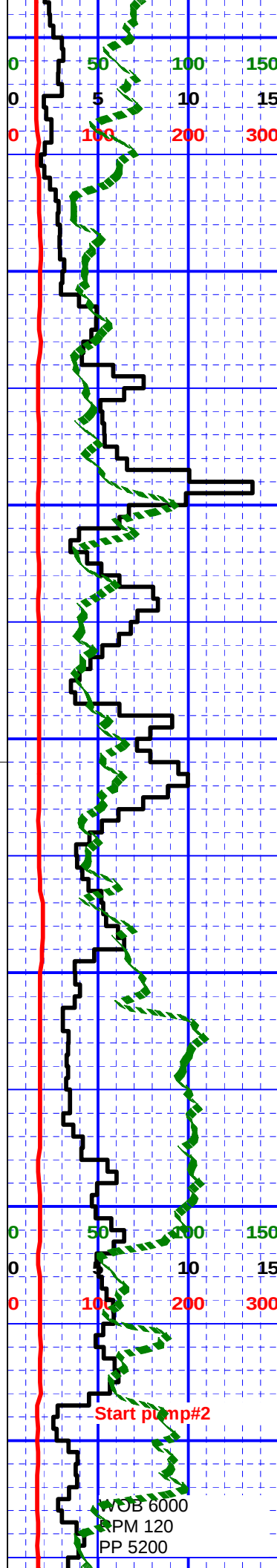
Sedimentary Structures Bedding / Cross Bedding

	Centimeter bedding		Inverted graded bedding
	Decimeter bedding		Massive bedding
	Millimeter bedding		Normal graded bedding
	Chevron x-bedding		Herringbone x-bedding
	Sigmoidal x-bedding		Hummocky x-bedding
	Swaley x-bedding		Planar/Tabular x-bedding
	Trough x-bedding		

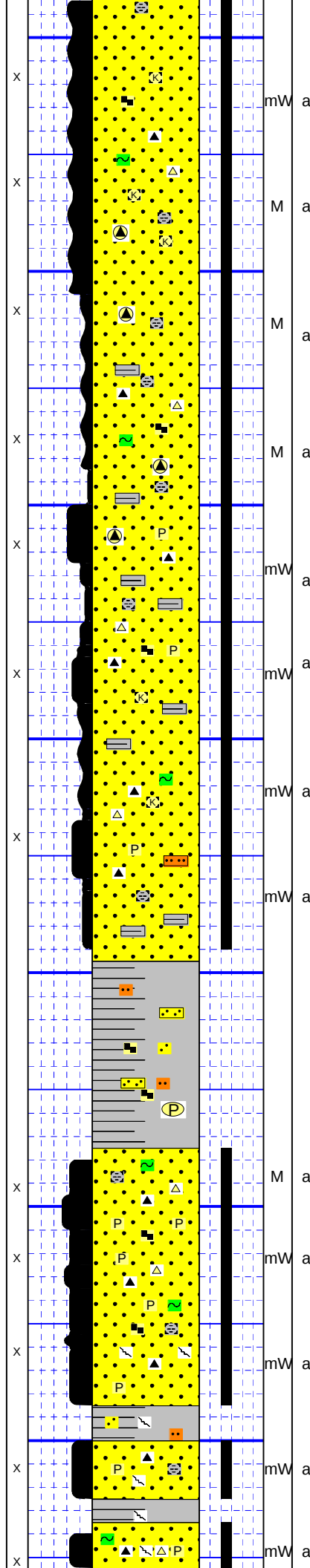
Sedimentary Structures Laminations / Cross Laminations

	Climbing ripple xlam		Contorted/Slumped lams
	Current ripple xlam		Flaser laminations
	High angle xlam		High angle parallel lams
	Lenticular lams		Low angle xlam
	Low angle para lam		Parallel laminations
	Trough xlam		Varved laminations
	Wave ripple xlam		Wavy laminations

Feb 26, 2013



50 m
60 m
70 m
80 m
90 m
100 m
110 m



shows.

Ss: s&p, u f gred, sb ang, modly w srt, qtz & gy cht, mntr kao cmt, slly sils, abnt uncon, carb lit grs, p tr glaucic, 12% por? no vis shows.

Ss: s&p, u f gred, sb ang, m srtg, qtz & gy cht, mntr kao cmt, slly sils, predly uncon, carb lit grs, p tr glaucic, tr occ gy cht pbl frags, 15% intgran por? no vis shows.

Ss: aa / mntr Sh lams, lt gy, blkly, slty, sdy ip, tr pyr.

Ss: lt gy, f gred, sb ang, m srtg, cly cmt, abnt uncon, carb lit grs, tr pyric, tr glaucic, occ vcol cht pbls, 10% por? no vis shows / mntr Sh lams aa.

Ss: aa / Ss v lt gy, vit qtzs, mntr lt gy cht, f gred, sb ang, modly w srt, cly cmt, tr mntr dk lit grs, tr pyric, p intgran por 4-7%, no vis shows.

Ss: aa

Ss: v lt gy aa / Ss s&p, u f gred, sb ang, modly w srt, kao cmt, dk lit grs, tr pyric, tr glaucic, mntr carb mat, p - fr intgran por 4-9%, no vis shows.

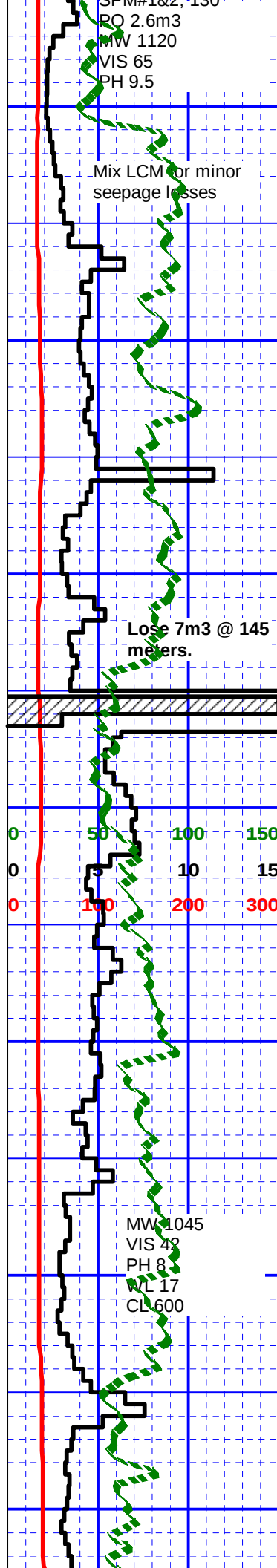
Ss: s&p aa / 10% Sh lams, lt gy, blkly, slty, sdy ip, occly grds to shy vf gred ss ip, carb mat.

Sh: lt - m gy, blkly, occly slty, slly sdy ip, tr carb mat, p tr pyr nods.

Ss: lt gy, s&p, u f gred, sb ang, m srtg, slly sils, mntr kao cmt, abnt uncon, dk lit grs, pyric, tr glaucic, fr intgran por? 14%, no vis shows.

Ss: lt gy, s&p, u f gred, sb ang, modly w srt, cly cmt, abnt pyr, carb mat, tr glaucic, g tr fros calc from vugs or fracs? fr intgran por? 10%, no vis shows / 10% sh lams aa.

Ss: lt gy, s&p, u f gred, sb ang, modly w srt, cly cmt, abnt pyr, carb mat, tr glaucic, g tr fros calc from vugs or fracs? fr intgran por? 10%, no vis shows



120 m

130 m

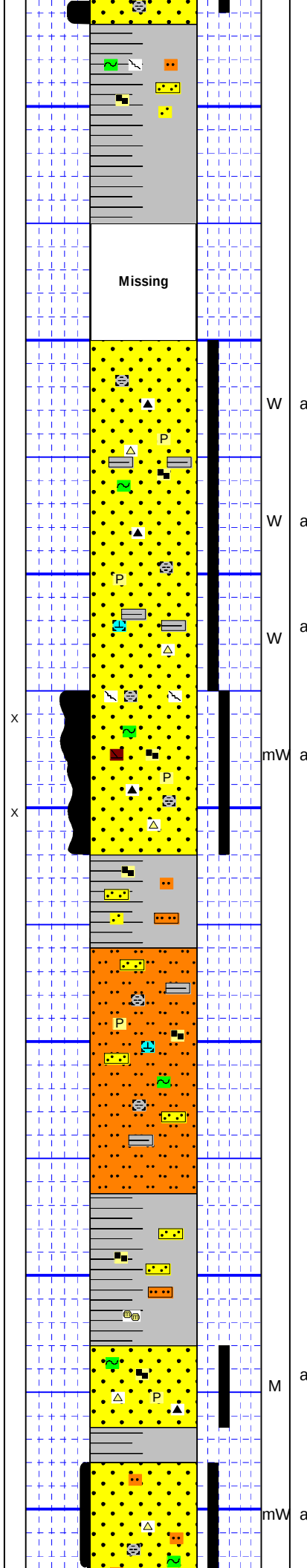
140 m

150 m

160 m

170 m

180 m



Sh: lt - m gy, blkly, slty, sdy, grds to shy sltst ip, tr glauic, tr carb specs.

Missed Sample

Ss: lt - m gy, vf gred, grds to sdy sltst ip, sb ang, w srt, cly cmt, slty, shy, carb specs & mat, tr glauic, tr pyric, tr fros calc aa, no vis por, no shows / 20% Sh lams aa.

Ss: aa / Ss v lt gy, u vf gred, sb ang, w srt, cly cmt, slly calcs, dk lit grs, slty, tr pyric, tr shy, predly tt, no shows.

Ss: p sample abnt LCM, lt gy, l f gred, sb ang, modly w srt, cly cmt, abnt uncons, tr glauic, dk lit grs, mnf fer, tr fros calc, fr intgran por? no vis shows / 10% Sh aa.

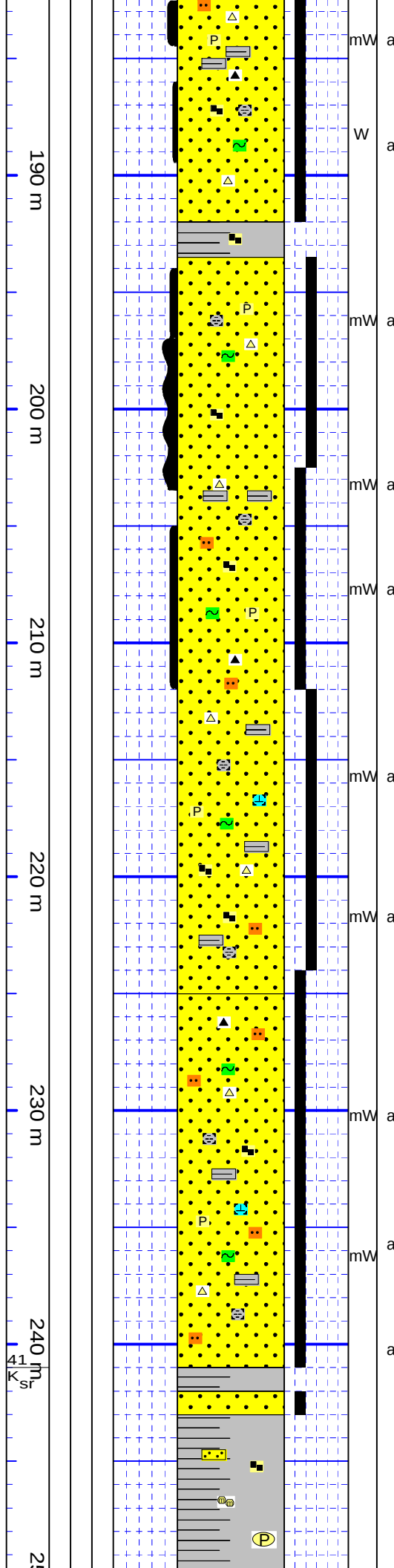
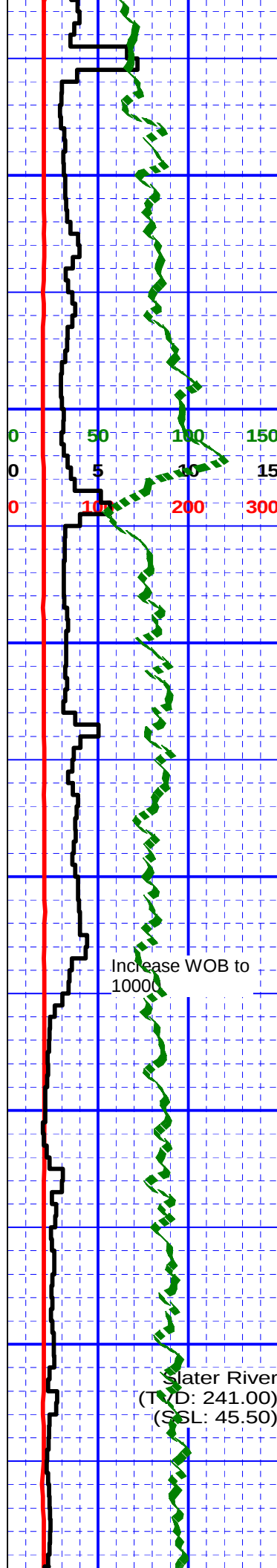
Sh: m gy, blkly, slly mmca, occlly slty, tr sdy, tr carb specs & mat.

Sltst: lt gy, occlly grds to vf gred ss ip, cly cmt, tr calcs, dk lit grs, tr pyric, tr glauic, predly tt, no shows.

Sh: m gy, blkly, slty, occlly sdy, occlly grds to shy sltst, carb specs & mat, tr pyr.

Ss: lt gy, s&p, f gred, sb ang, m srtg, abnt uncons, cly cmt ip, dk lit grs, tr glauic, tr pyric, p por? no vis shows.

Ss: lt gy, vf gred, sb ang, modly w srt, abnt uncons, cly cmt, dk lit grs, tr glauic, slty, slly shy



ip, tr pyric, tt - p intgran por, no vis shows.

Ss: lt gy, l vf gred, sb ang, w srt, w cmt / cly cmt, sly calcs, dk lit grs, slty, tr glauc, shy ip, tt, no shows.

Ss: s&p, f gred, sb ang, modly w srt, cly cmt, occ uncons, dk lit grs, tr glauc, dism pyr, tr fros calc, p intgran por 7%, no vis shows

Ss: aa / Ss lt gy, vf gred, sb ang, modly w srt, cly cmt, slty, shy ip, tr glauc, tr pyric, tt, no vis shows

Ss: s&p, lt gy aa.

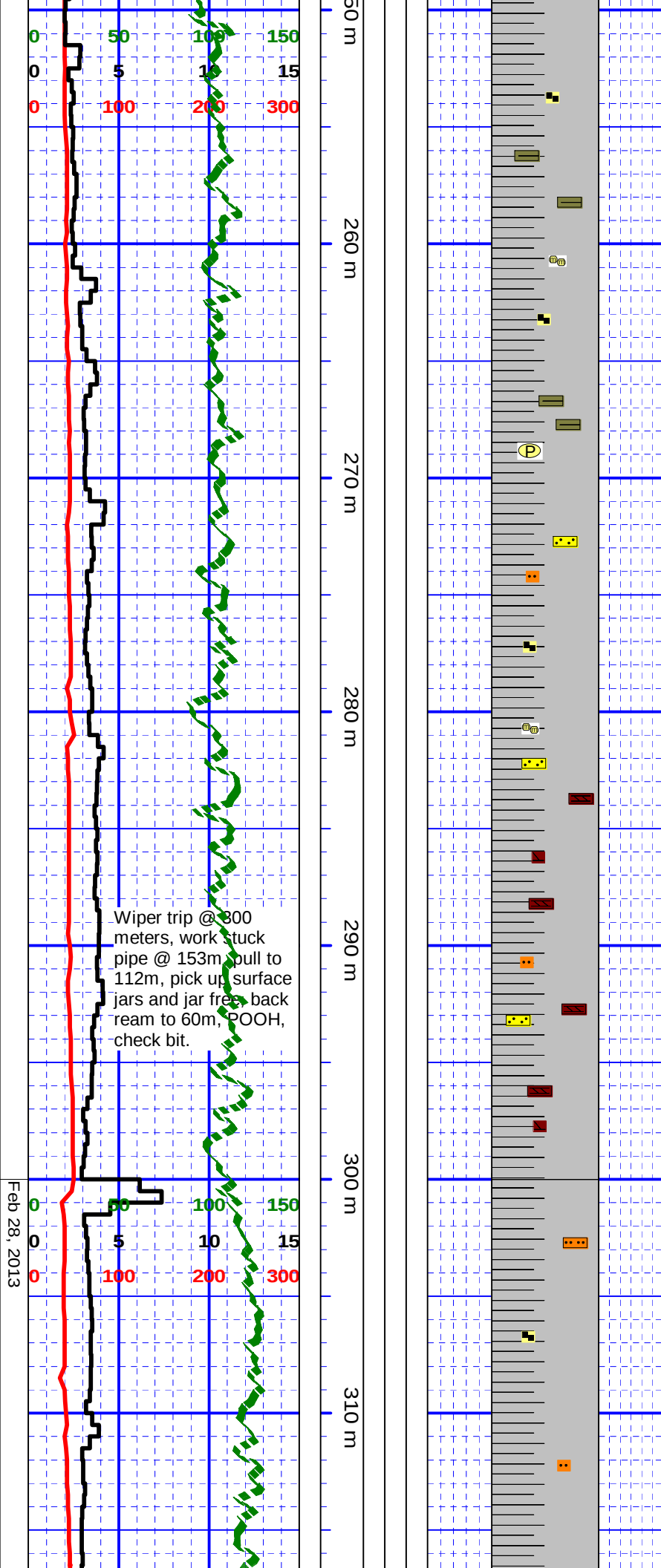
Ss: lt gy, f gred, sb ang, modly w srt, cly cmt, sly calcs, dk lit grs, tr glauc, tr pyric, mnrcarb mat, slty ip, occly shy, tt - p intgran por 4%, no vis shows.

Ss: lt gy, vf gred, sb ang, modly w srt, cly cmt, sly calcs, dk lit grs, tr glauc, tr pyric, mnrcarb mat, slty ip, occly shy, predly tt, no vis shows.

Ss: lt gy, vf gred, sb ang, modly w srt, cly cmt, sly calcs, dk lit grs, tr glauc, tr pyric, mnrcarb mat, slty ip, occly shy, predly tt, no vis shows.

Sh: lt - m gy, blk, sly mmca, slty ip, tr carb mat, tr pyr nods.

Slater River (TVD: 241.00) (SSL: 45.50)



Sh: predly m gy, blkly, slly mmca, slty ip, tr carb mat, tr pyr nods / 10% Ss strgs aa.

Sh: aa / mn r Sh blue gn, blkly, flat wxy tex / 5% Ss strgs aa.

Sh: aa

Sh: predly m gy, blkly, slly mmca, tr slty, tr carb mat, tr pyr nods / mn r gn sh aa.

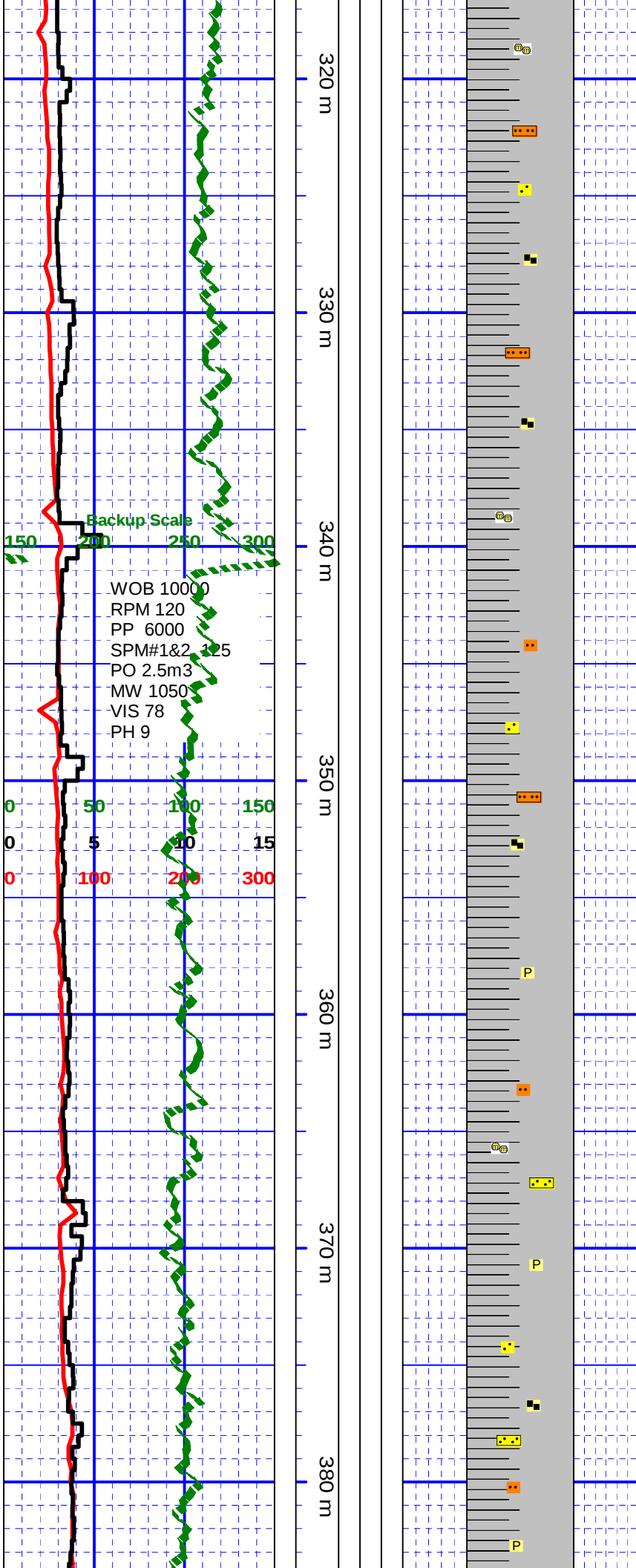
Sh: predly m gy, mn r dk gy, sbfis ip, slly mmca, slty ip, tr carb mat, tr blue gn sh aa / 10% Ss strgs aa.

Sh: predly m gy, mn r dk gy, sbfis ip, slly mmca, slty ip, tr carb mat, bcmg sidic / brn sid frags.

Sh: m gy, gy brn ip, tr dk gy, mn r sb fis, occlly sidic, slly mmca, tr slty, abnt brn sid frags / tr mn r Ss strgs aa.

Sh: m gy, blkly, slly mmca, tr slty, mn r sdy ip, tr carb specs / mn r Sltst strgs, lt gy, sdy ip, tr dk lit grs, cly cmt, no vis por, no shows.

Sh: m gy, blkly, slly mmca, tr slty, mn r sdy ip, tr



carb specs / mnr Sltst strgs, lt gy, sdy ip, tr dk lit
grs, cly cmt, no vis por, no shows.

Sh: m gy, blkly, slly mmca, tr slty, mnr sdy ip, tr
carb specs / mnr Sltst strgs, lt gy, sdy ip, tr dk lit
grs, cly cmt, no vis por, no shows.

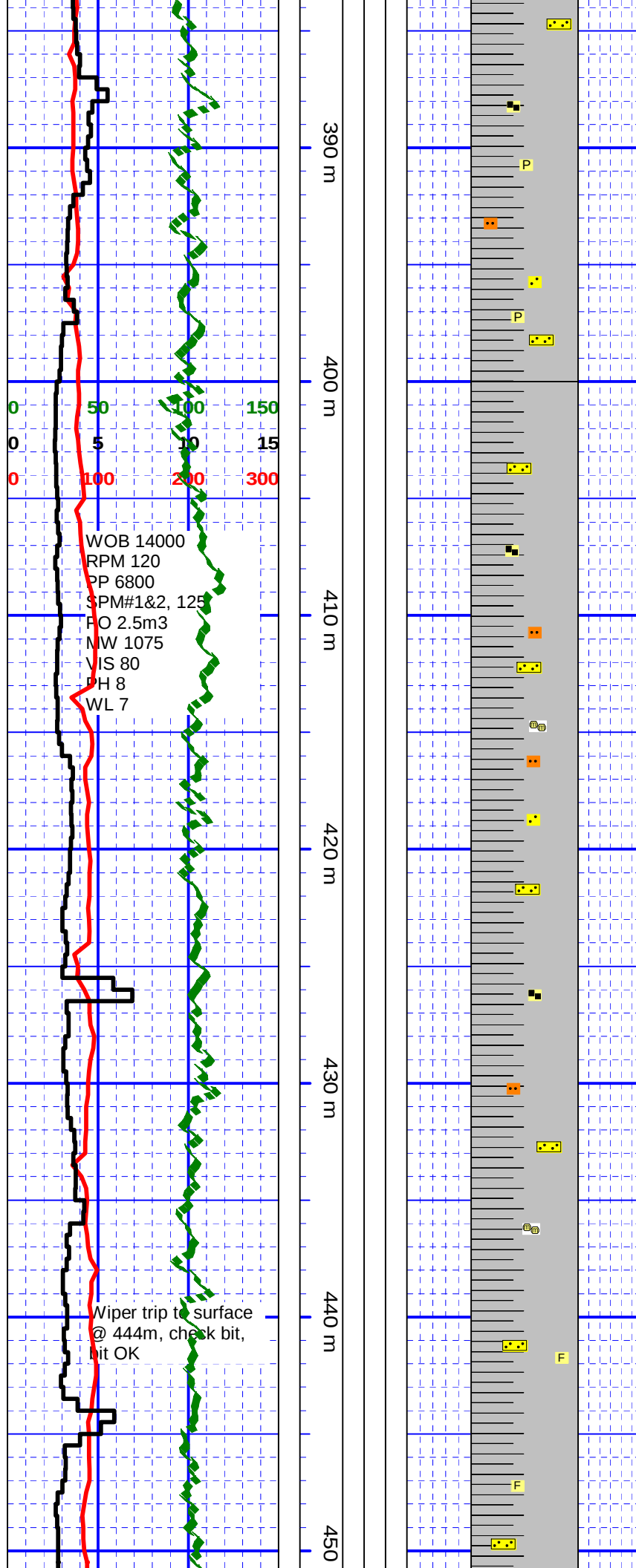
Sh: m gy, blkly, slly mmca, tr slty, mnr sdy ip, tr
mnr carb mat / tr Sltst strgs aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr
sdv ip, tr mnr carb mat / tr Sltst strgs aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr
sdv ip, tr mnr carb mat, g tr dism pyr / tr Sltst
strgs aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr
sdv ip, tr mnr carb mat, g tr dism pyr / 5% Ss
strgs, lt gy, l f gred, sb ang, m srtg, cly cmt, slly
calcs, dk lit grs, slty ip, tt, no shows.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr
sdv ip, tr mnr carb mat, g tr dism pyr / mnr Ss
strgs aa



Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr sdy ip, tr mnr carb mat, g tr dism pyr / mnr Ss strgs, lt gy, vf gred, sb ang, m srtg, cly cmt, slly calcs, dk lit grs, slty ip, tt, no shows.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr sdy ip, tr mnr carb mat, g tr dism pyr / mnr Ss strgs, lt gy, vf gred, sb ang, m srtg, cly cmt, slly calcs, dk lit grs, slty ip, tt, no shows.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr sdy ip, tr mnr carb mat, / 3% Ss strgs, lt gy, vf gred, sb ang, m srtg, cly cmt, v slly calcs, dk lit grs, slty ip, tt, no shows.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr sdy ip, tr mnr carb mat, / 3% Ss strgs, lt gy, vf gred, sb ang, m srtg, cly cmt, v slly calcs, dk lit grs, slty ip, tt, no shows.

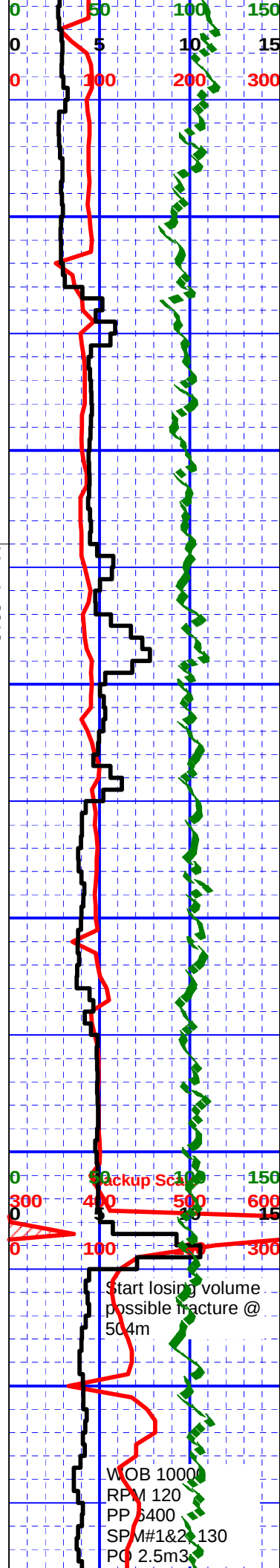
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Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr sdy ip, tr mnr carb mat, / occ Ss strgs aa.

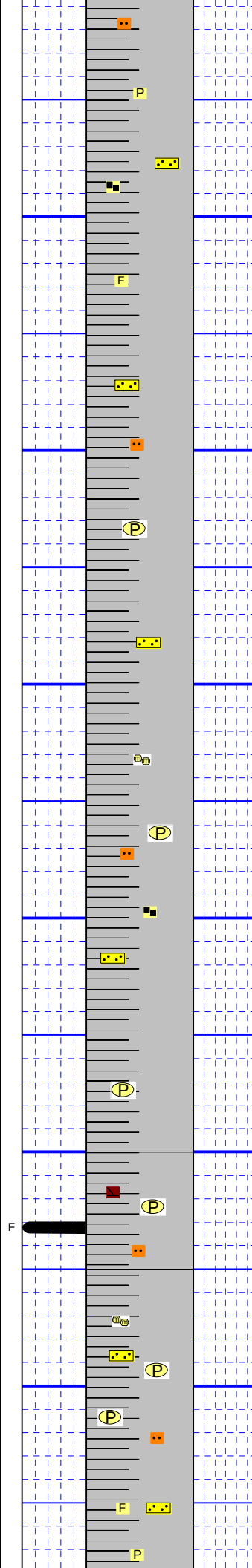
Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr sdy ip, tr mnr carb specs, tr inoc / occ Ss strgs aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mnr sdy ip, tr mnr carb specs, tr inoc / occ Ss strgs aa.

Mar 1, 2013



m
460 m
470 m
480 m
490 m
500 m
510 m



Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mn^r sdy ip, tr mn^r carb specs, tr inoc, tr dism pyr / occ Ss strgs aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mn^r sdy ip, tr mn^r carb specs, tr sidic, tr inoc / occ Ss strgs aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mn^r sdy ip, tr mn^r carb specs, tr sidic ip, tr inoc, pyr nods / mn^r Ss strgs m gy, vf gred, sb ang, w srt, cly cmt, dk lit grs, tr pyric, tr glauic, slty, shy, no vis por, no shows.

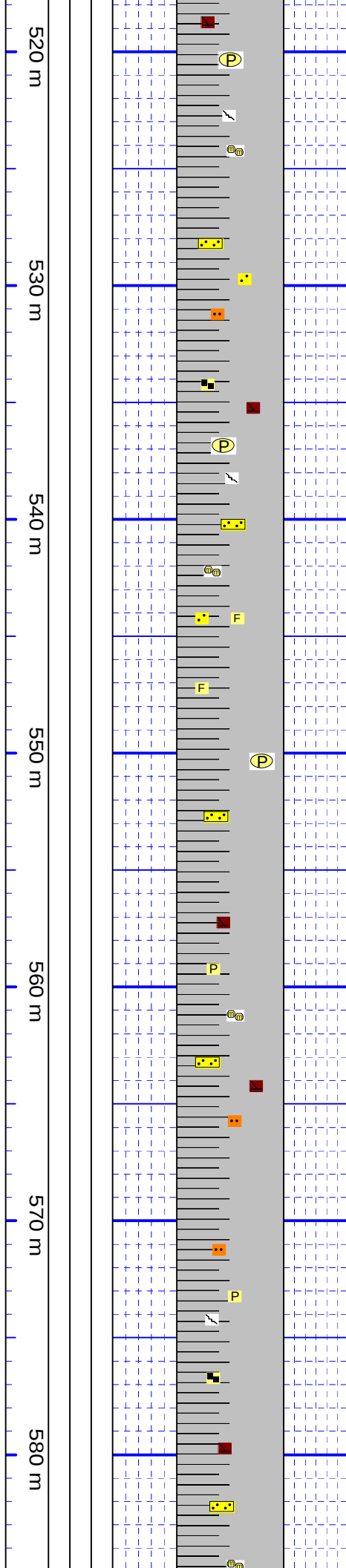
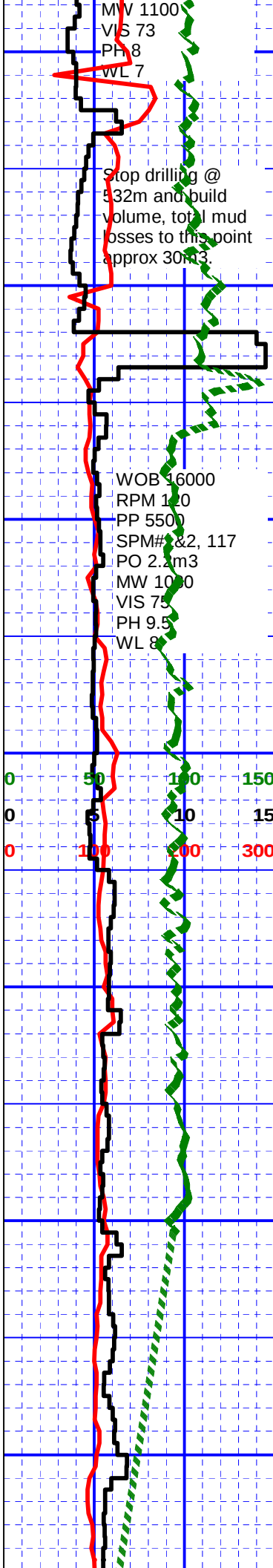
Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mn^r sdy ip, tr mn^r carb specs, tr sidic ip, tr inoc, pyr nods / mn^r Ss strgs m gy, aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mn^r sdy ip, tr mn^r carb specs, tr sidic ip, tr inoc, pyr nods / mn^r Ss strgs aa.

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mn^r sdy ip, tr mn^r carb specs, tr sidic ip, tr inoc, pyr nods / 5% Ss strgs aa.

Sh: aa, g tr pyr nods

Sh: m gy, blkly, sft - frm, slly mmca, tr slty, mn^r sdy ip, tr mn^r carb specs, tr sidic ip, tr inoc, pyr



nods / mnr Ss strgs aa.

Sh: m - occly dk gy aa.

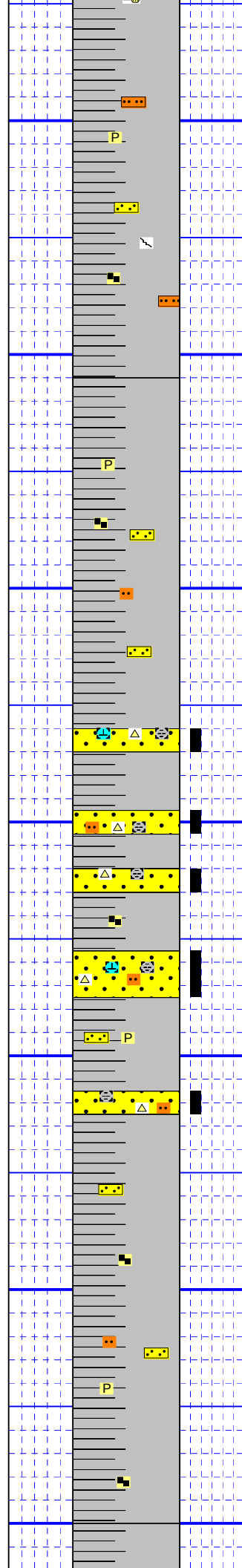
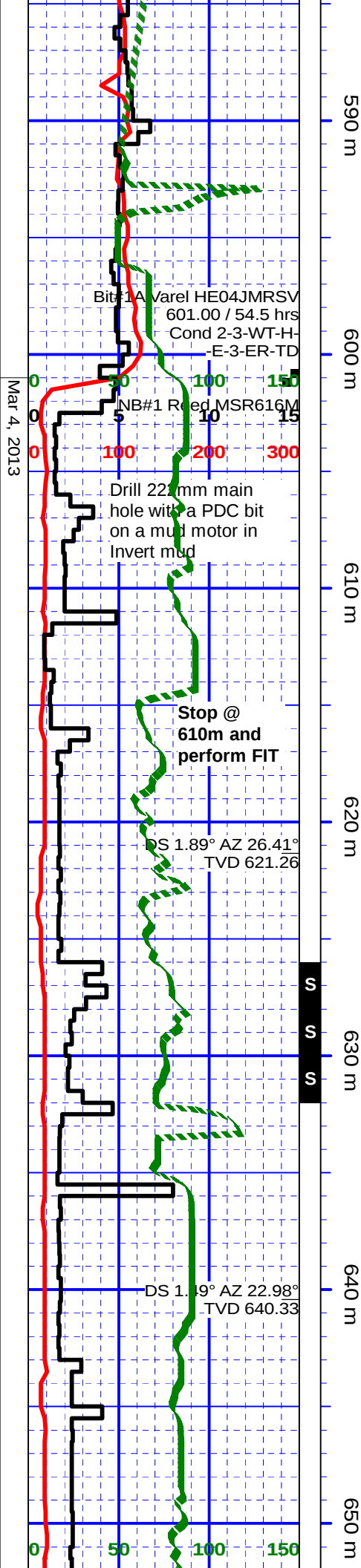
Sh: m - occly dk gy, blk, sft - frm, sly mmca, tr slty, mn sd ip, tr mn carb specs, tr sidic ip, tr inoc, pyr nods, tr mn micro fracs infilled /calc / 5% Ss strgs aa.

Sh: m - occly dk gy, blk, modly frm, sly mmca, tr slty, tr sd ip, sly carb ip, tr sidic ip, tr inoc, pyr nods & dis pyr, tr mn fros calc aa / 5% Ss strgs aa.

Sh: m - occly dk gy, gy brn ip, mn sb fis, sly mmca, sly carb, occly sidic, dis pyr, tr fros calc aa, / 3% Ss strgs, m gy, vf gred, sb ang, modly w srt, cly cmt, sly calcs, dk lit grs, tr pyric, slty, shy, no vis por or shows.

Sh: m - occly dk gy, gy brn ip, mn sb fis, sly mmca, sly carb, occly sidic, dis pyr, tr fros calc aa, / occ Ss strgs aa.

Sh: m - occly dk gy, mn sb fis, sly mmca, sly carb, tr sidic, pyr, tr cl c xln calc / mn Ss strgs aa.



Sh: m - occlly dk gy, tr sb fis, slly mmca, slly carb,
p tr sidic, tr dism pyr / mnR Ss strgs aa, occlly grds
to sltst ip.

Sh: m - occlly dk gy, sb fis ip, slly mmca, slly carb,
p tr sidic, tr dism pyr, tr fros calc / mnR Ss strgs &
lams aa, occlly grds to sltst ip.

Surface hole TD @ 601 meters.
244.5mm csg set @ 598 meters.
Drill out Mar 4 @ 14:00 hrs.

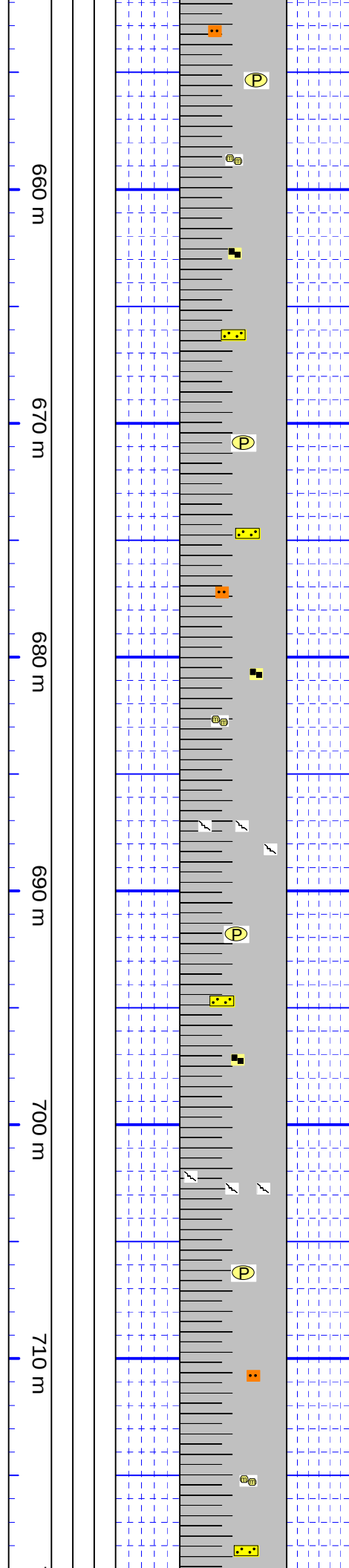
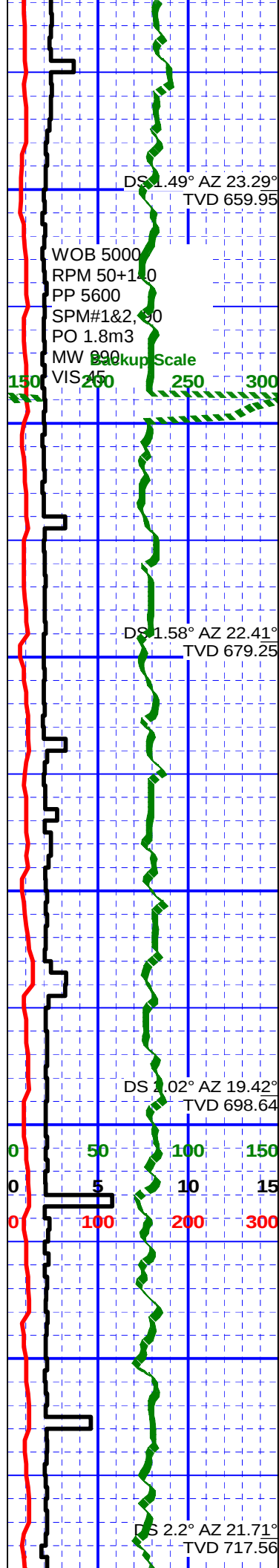
Sh: m - dk gy, slly mmca, sbfis ip, tr carb specs, tr
slty, tr pyr / mnR intbd Ss strgs & lams, lt - m gy, vf
gred, sb ang, modly w srt, cly cmt, slly calcs, tr
glauic, slly slty, shy, no vis por, no shows.

SS: lt - m gy, vf gred, sb ang, modly w srt, cly
cmt, slly calcs, tr glauic, slly slty, shy, no vis por,
no shows

SS: lt - m gy, vf gred, sb ang, modly w srt, cly
cmt, slly calcs, tr glauic, slly slty, shy, no vis por,
no shows

Sh: m - dk gy, slly mmca, sbfis ip, tr carb specs, tr
slty, tr pyr / mnR intbd Ss strgs & lams, lt - m gy, vf
gred, sb ang, modly w srt, cly cmt, slly calcs, tr
glauic, slly slty, shy, no vis por, no shows.

Sh: m - dk gy, slly mmca, sbfis ip, tr carb specs, tr
slty, tr pyr / mnR intbd Ss lams aa.



Sh: m - dk gy, sily mmca, sbfis ip, tr carb specs, tr slty, tr fros cxln calc / mntr intbd Ss lams aa.

Sh: m - dk gy, sbfis ip, sily carb, mntr slty / occ Ss lams aa.

Sh: m - dk gy, sbfis ip, sily carb, mntr slty / occ Ss lams aa.

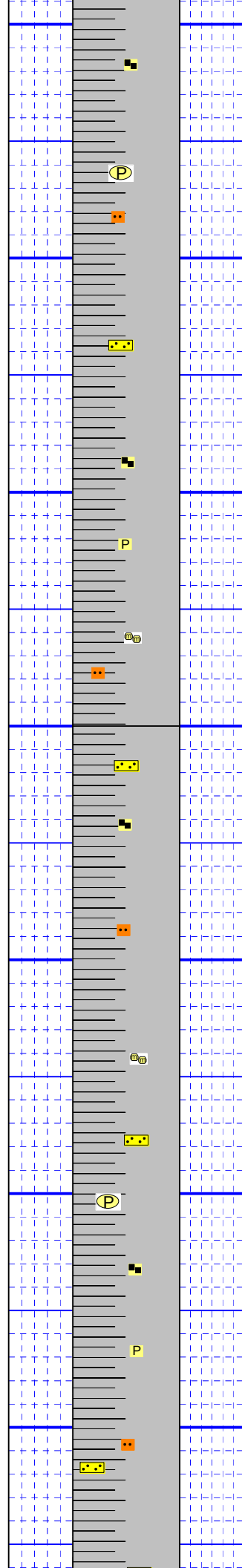
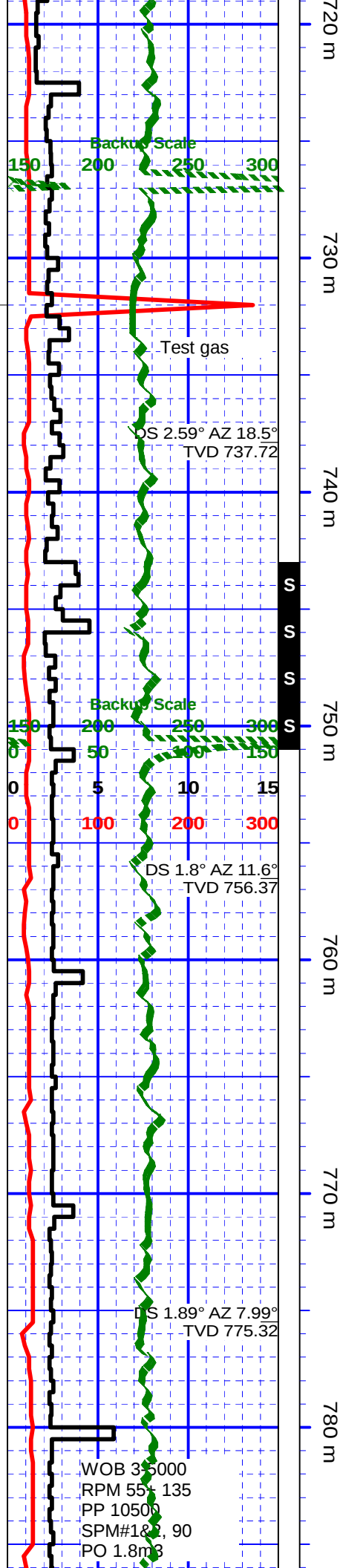
Sh: aa / abnt c xln fros calc (frac?)

Sh: m - dk gy, sbfis ip, sily carb, tr slty, sily mmca, tr pyr, mntr calc aa, tr mntr Ss lams aa.

Sh: m - dk gy, sbfis ip, sily carb, tr slty, sily mmca, tr pyr, abnt fros c xln calc, tr mntr Ss lams aa.

Sh: m - dk gy, sbfis ip, sily carb, tr slty, sily mmca, tr pyr, mntr calc aa, tr mntr Ss lams aa.

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Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly
mmca, tr pyr, mnr calc aa, tr mnr Ss lams aa.

Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly
mmca, tr pyr, mnr calc aa, tr mnr Ss lams aa.

Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly
mmca, tr pyr, mnr calc aa, tr mnr Ss lams, lt - m
gy, vf gred, sb ang, modly wsrt, cly mtx, sllly
calcs, tr glaucic, tr dk lit grs, slty ip, no vis por, no
shows.

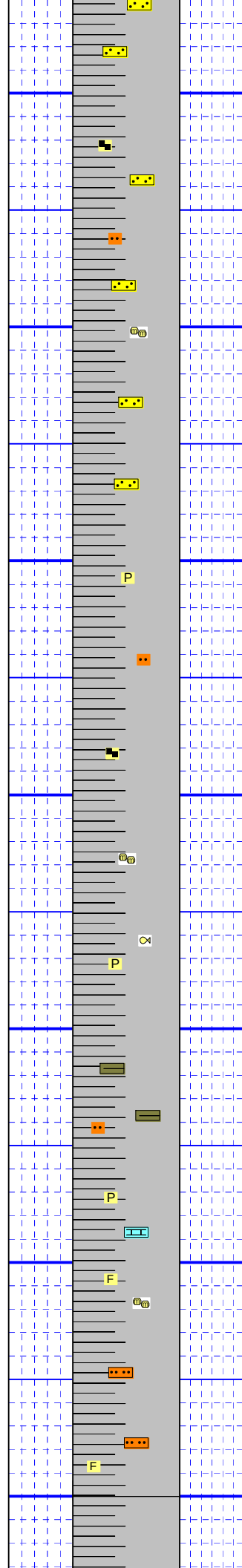
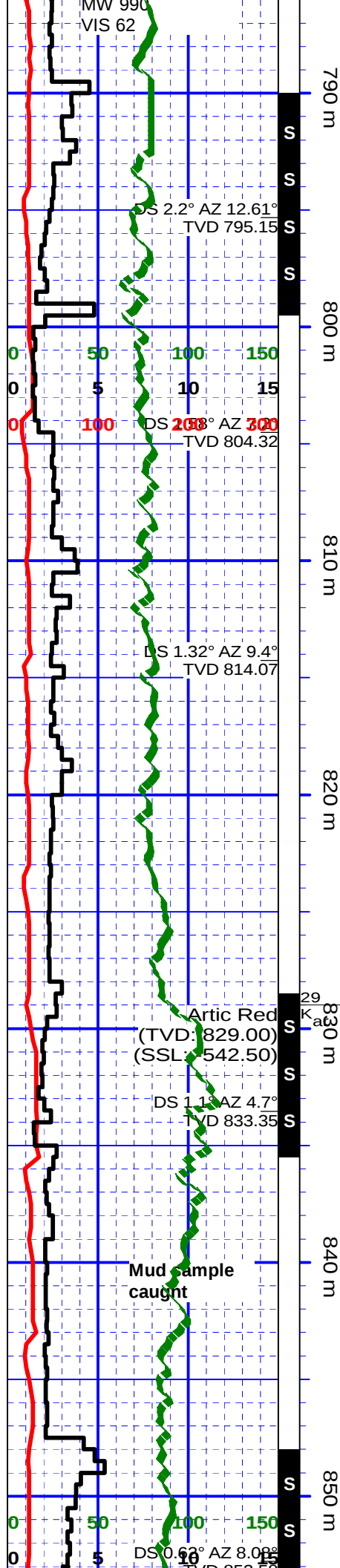
Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly
mmca, tr pyr, mnr calc aa, tr mnr Ss lams, lt - m
gy, vf gred, sb ang, modly wsrt, cly mtx, sllly
calcs, tr glaucic, tr dk lit grs, slty ip, no vis por, no
shows.

Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly
mmca, tr pyr, mnr calc aa, tr mnr Ss lams, lt - m
gy aa.

Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly
mmca, tr pyr, mnr calc aa, tr mnr Ss lams, lt - m
gy aa.

Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly
mmca, tr pyr, mnr calc aa, tr mnr Ss lams, lt - m
gy aa.

Sh: m - dk gy, sbfis ip, sllly carb, tr slty, sllly



Sh: m - dk gy, sbfis ip, sly carb, tr slty, sly
mmca, tr pyr / 10% Ss lams, lt - m gy, vf gred, sb
ang, modly w srt, cly mtx, sly calcs, slty, shy ip, tr
pyric, dk lit grs, no vis por, no shows.

Sh: m - dk gy, sbfis ip, sly carb, tr slty, sly
mmca, tr pyr / 5% Ss lams, lt - m gy, vf gred, sb
ang, modly w srt, cly mtx, sly calcs, slty, shy ip, tr
pyric, dk lit grs, no vis por, no shows.

Sh: m - dk gy, sbfis ip, sly carb, tr slty, sly
mmca, tr pyr / 5% Ss lams, lt - m gy, vf gred, sb
ang, modly w srt, cly mtx, sly calcs, slty, shy ip, tr
pyric, dk lit grs, no vis por, no shows.

Sh: aa

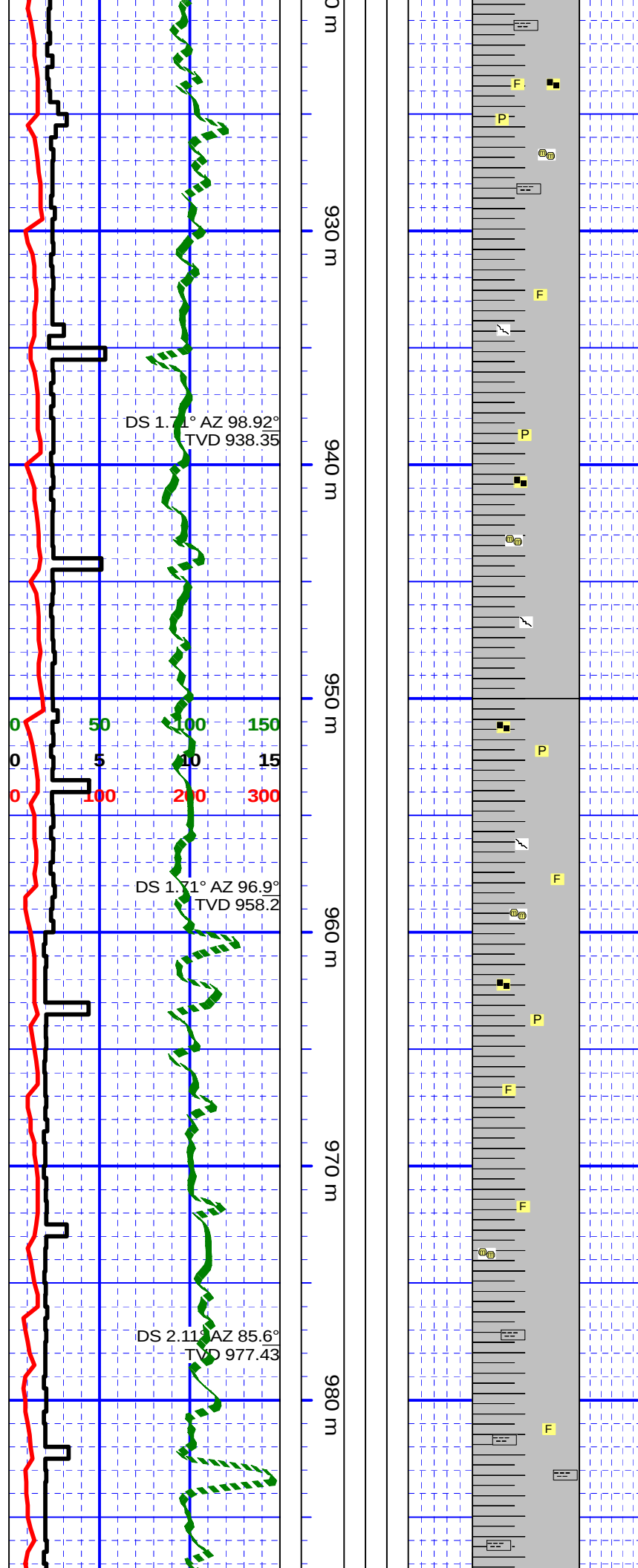
Sh: m - dk gy, sbfis ip, sly carb, tr slty, sly
mmca, tr dism pyr, tr fish scales / tr mnr Ss lams
aa / tr Ls strgs, bf fragal wkest, tr pyric, dns, no
shows.

Artic Red
(TVD: 829.00)
(SSL: -542.50)

Sh: m - dk gy, plty, fis, sly mmca, tr pyr, tr ls aa /
tr lt bue clyst, sft, wxy tex.

Sh: m - dk gy, plty ip, occlly fis, sly mmca, sly
carb, tr pyr, tr mnr Ls lams aa.

Sh: m - dk gy, sbfis, sly mmca, sly carb, tr pyr, tr
slty ip, tr inoc / mnr 2% Slst strgs, lt - m gy, cly &
calcs cmt, grds to vf gred ss ip, tt, no shows.



Sh: aa / tr mnr Clyst lt gy, wxy, tr mica flks, dism pyr.

Sh: m gy, occlly dk gy, sb fis, slly carb, slly mmca, inoc, tr micro fracs infilled / wh calc, tr mnr clyst aa.

Sh: m - dk gy, sb fis, carb, slly mmca, tr pyr, tr inoc, tr micro fracs infilled / wh calc.

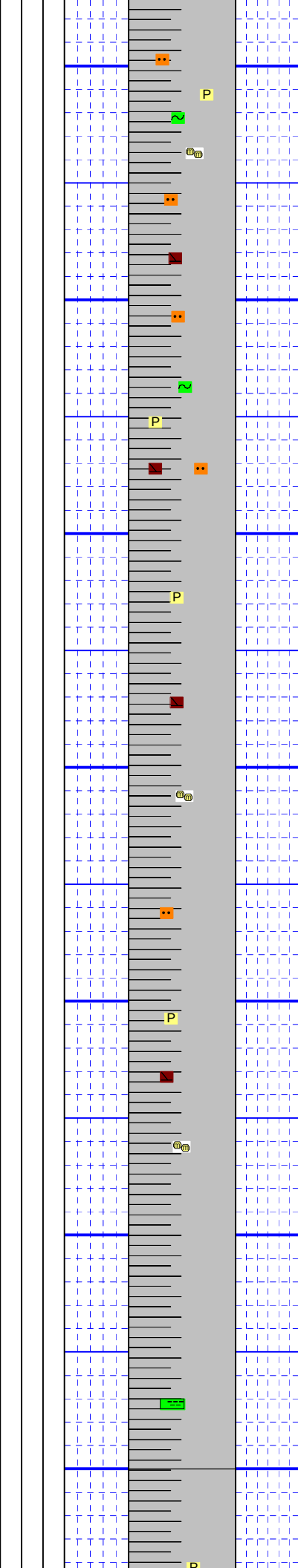
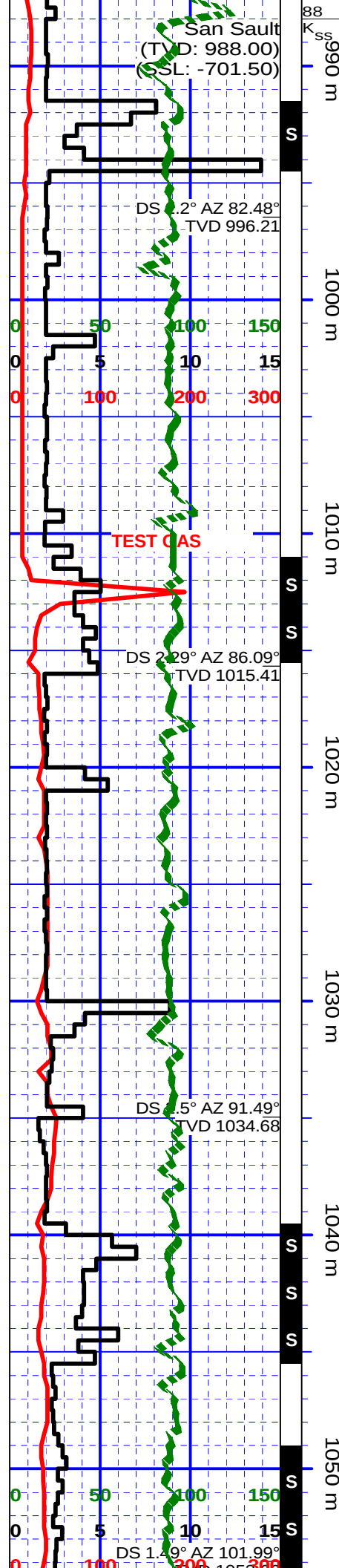
Sh: m - dk gy, sb fis, carb, slly mmca, tr pyr, tr inoc, p tr sidic ip.

Sh: m - dk gy, sb fis, carb, slly mmca, tr pyr, tr inoc, tr micro fracs infilled / wh calc.

Sh: m - dk gy, sb fis, carb, slly mmca, tr pyr, tr inoc, tr micro fracs infilled / wh calc.

Sh: m - dk gy, sb fis, carb, slly mmca, tr pyr, tr inoc, tr lt gy clyst, wxy, tr sdy, mica flks.

Sh: m - dk gy, sb fis, carb, slly mmca, tr pyr, tr inoc, incrg lt gy clyst, wxy, tr sdy, mica flks.



San Sault
(TVD: 988.00)
(SSL: -701.50)

Sh: m gy, dk gy ip, sb fis, incrg slty, tr glauic, tr pyric, slly mmca,

Sh: m gy, dk gy ip, sb fis, slly slty, tr glauic, tr pyric, slly sidic.

Sh: m gy, dk gy ip, sb fis, slly slty, tr glauic, tr pyric, slly sidic.

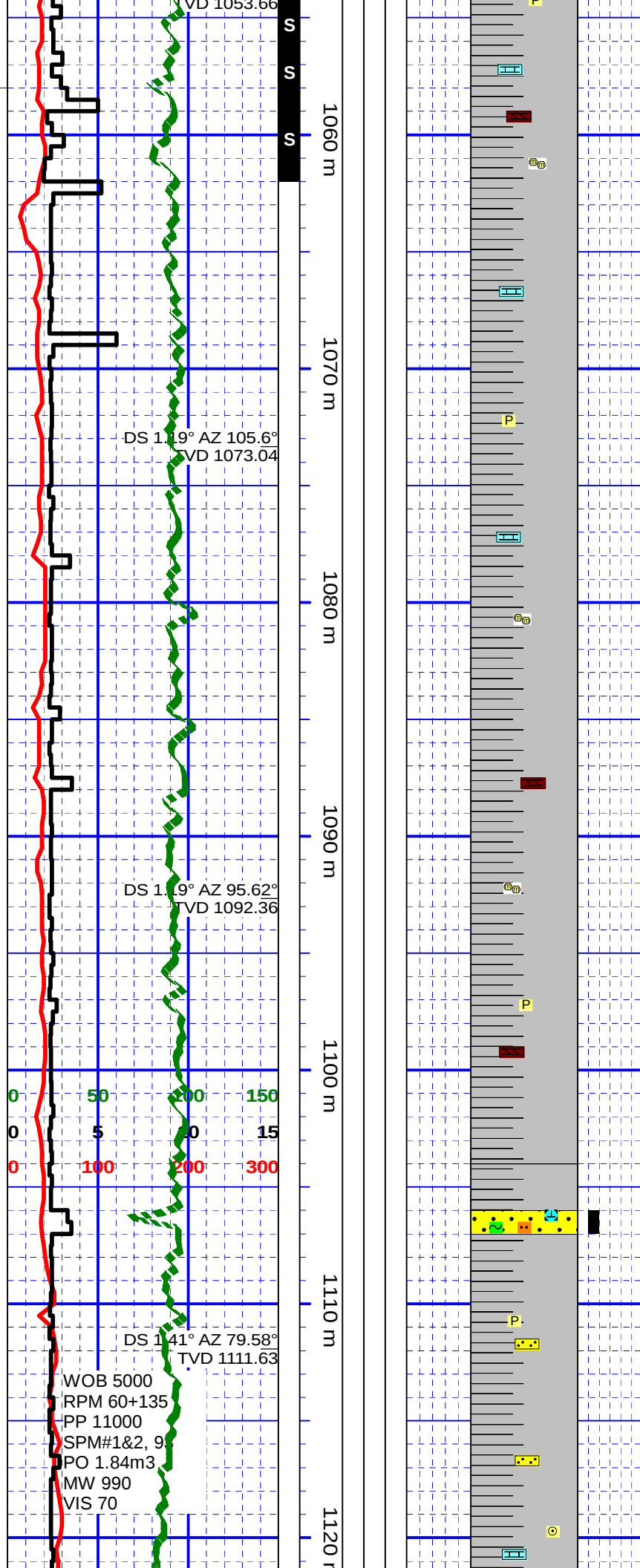
Sh: m gy, dk gy ip, sb fis, slly slty, tr pyric, slly sidic.

Sh: m gy, dk gy ip, sb fis, slly slty, tr pyric, slly sidic.

Sh: m gy, dk gy ip, sb fis, slly slty, tr pyric, slly sidic.

Sh: aa / mnr lt gn clyst lams, sft, wxy tex. c xln calc (mud add?)

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Sh: m gy, dk gy ip, sb fis, p tr slly slty, tr pyric, sidic ip / tr brn sid frags / tr mntr Ls strgs lt brn, mdst, arg, grds to mrlst ip, dns, no show.

Sh: m gy, sb fis, slly mmca, tr pyr, tr mntr Ls strgs aa.

Sh: m gy, sb fis, slly mmca, tr pyr, tr mntr Ls strgs aa.

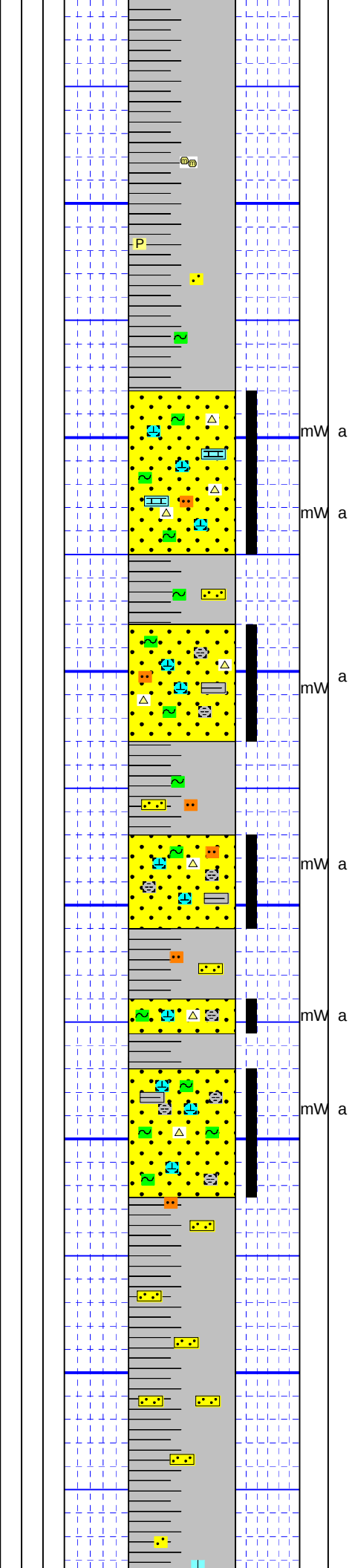
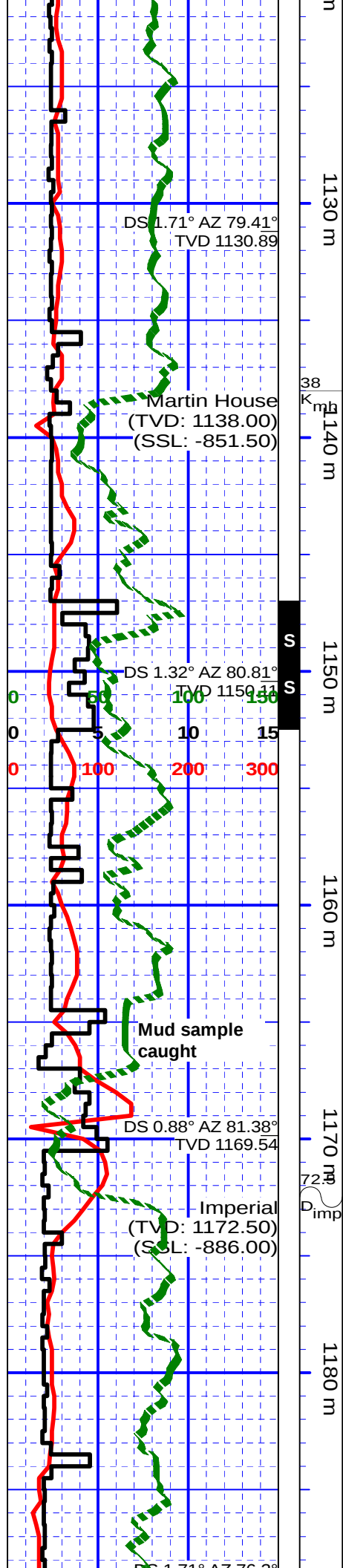
Sh: predly m gy, sb fis, slly mmca, tr pyr, tr mntr ls strgs aa / tr mntr lt brn sid frags.

Sh: predly m gy, sb fis, slly mmca, tr pyr, tr mntr ls strgs aa / tr mntr lt brn sid frags.

Ss: lt gy, vf gred, sb ang, modly w srt, calcs, slty, tr glauc, tr mntr dk lit grs, tt, no shows.

Sh: m gy, mntr dk gy, sb fsi, slly mmca, tr pyr, p tr ss strgs aa.

Sh: m gy, sb fis, slly mmca, tr pyr, p tr ss strgs aa, tr crins / tr mntr Ls strgs aa.



Sh: m gy, mn r dk gy, sb fis, modly frm, sly mmca, pyr.

Sh: aa, sdy & glauc.

Martin House
(TVD: 1138.00)
(SSL: -851.50)

Ss: lt gy, u vf gred, sb ang, modly w srt, v calcs, grds to sdy ls ip, v glauc, tr mn r dk lit grs, sly slty, no vis por, no shows.

Ss: crm - lt gy, u vf gred, sb ang, modly w srt, calcs & cly cmt, grds to sdy ls ip, v glauc, tr mn r dk lit grs, sly slty, tr sh lams, no vis por, no shows.

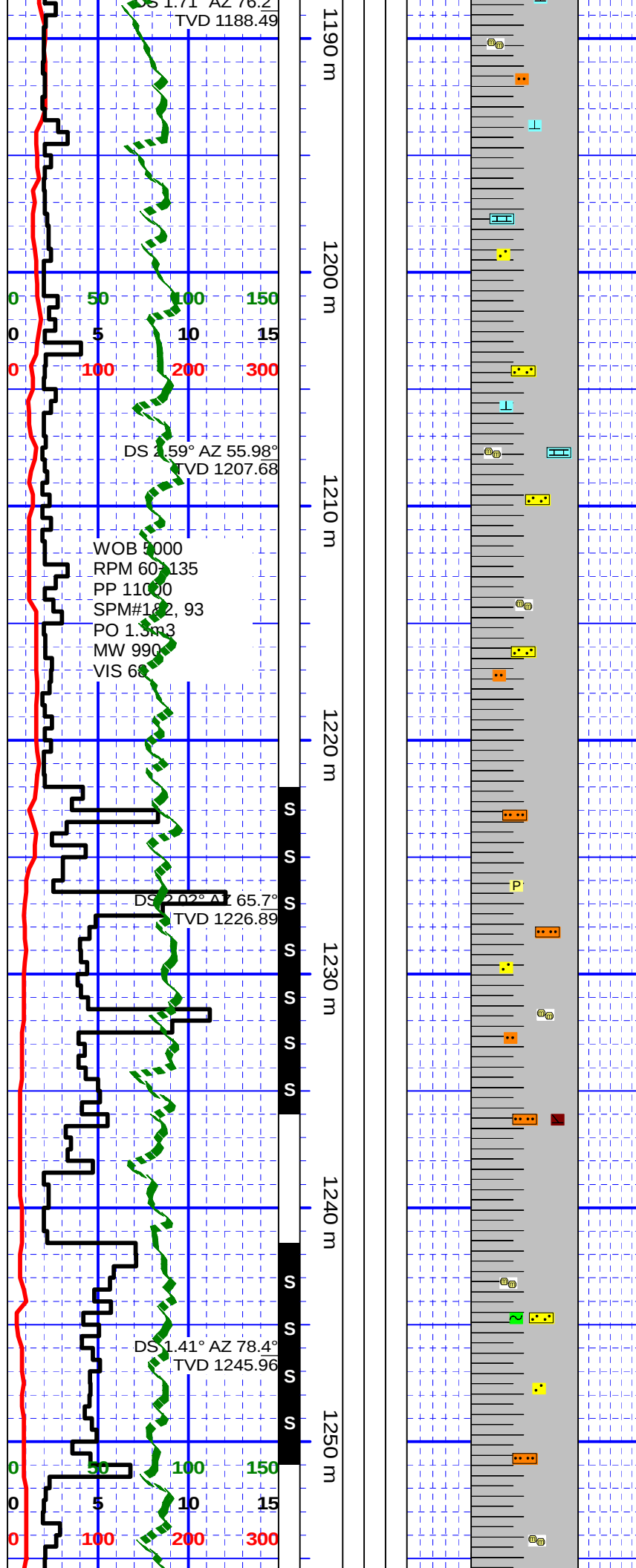
Ss: aa, m gy ip aa, shy.

Ss: crm - lt gy, l vf gred, sb ang, modly w srt, calcs & cly cmt, grds to sdy ls ip, v glauc, tr mn r dk lit grs, sly slty, tr sh lams, no vis por, no shows.

Imperial
(TVD: 1172.50)
(SSL: -886.00)

Sh: predly aa / tr lt gy gn sh lams, sly mmca, tr pyric, sly wxy tex ip.

Sh: lt gy gn, sly mmca, sb fis ip, sly wxy tex, tr slty & mn r sdy ip.



Sh: lt gy gn, slly mmca, sb fis ip, slly wxy tex, tr slty & mnr sdy ip / lt gy - bf mrlst, sft, chky, dns.

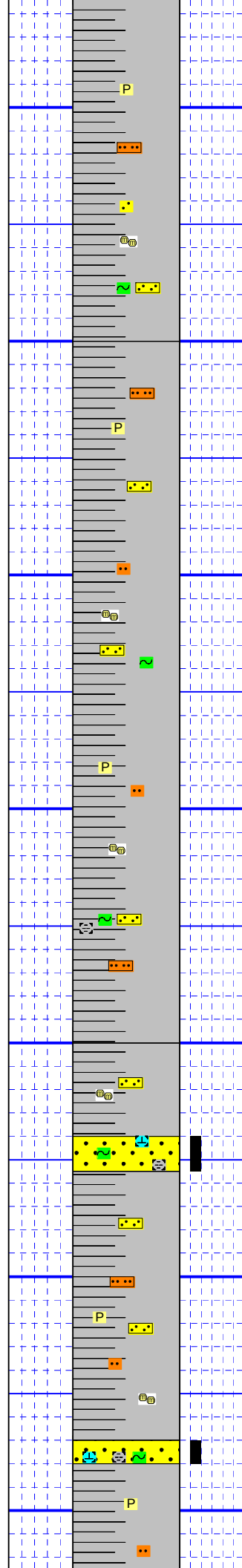
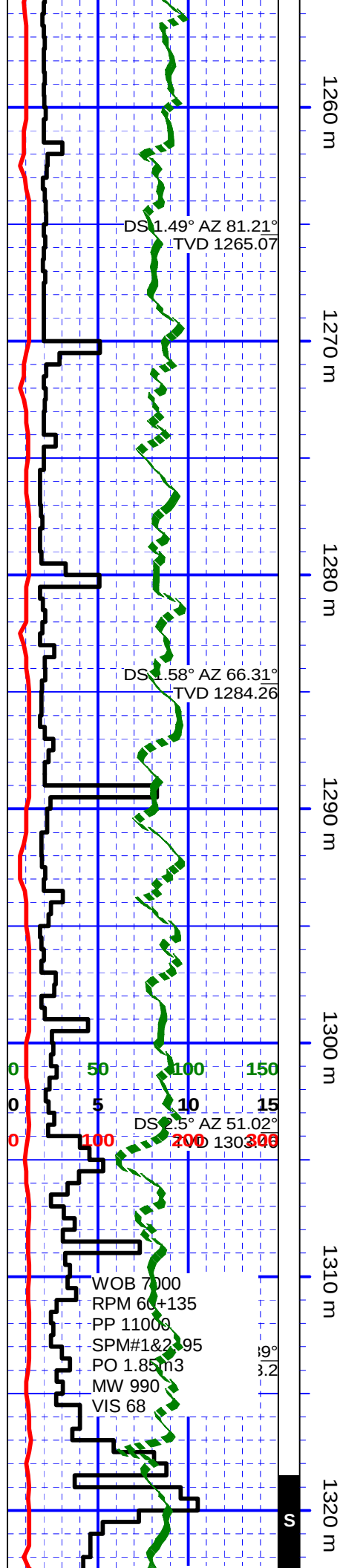
Sh: gy gn, m gy, sb fis, slly mmca, slly calcs, slly wxy tex ip, occlly sdy, tr slty ip / mnr Ss strgs, lt gy, gy gn, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy, tr sidic ip, tt, no shows.

Sh: gy gn, m gy, sb fis, slly mmca, slly calcs, slly wxy tex ip, occlly sdy, tr slty ip / mnr Ss strgs, lt gy, gy gn, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy, tr sidic ip, tt, no shows.

Sh: gy gn, m gy, gy brn ip, sb fis, slly mmca, slly wxy tex ip, pyr, occlly sdy, tr slty ip / mnr Sltst strgs gy, gy gn, cly cmt, sdy, grds to vf gred ss ip, shy, occlly slly sidic, tt, no shows.

Sh: gy gn, m gy, gy brn ip, sb fis, slly mmca, slly wxy tex ip, pyr, occlly sdy, tr slty ip / mnr Sltst strgs gy, gy gn, cly cmt, sdy, grds to vf gred ss ip, shy, occlly slly sidic, tt, no shows.

Sh: aa / tr Ls strgs, bf, lt brn, mdst - wkest, mic mtx, arg, sdy, dns, no shows



Sh: predly gy gn, sb fis, sly mmca, sly wxy tex ip, tr pyr, tr sdy, tr slty ip / mnrtst strgs gy, gy gn, cly cmt, sdy, grds to vf gred ss ip, shy, ocly sly sidic, tt, no shows.

Sh: predly gy gn, sb fis, sly mmca, sly wxy tex ip, tr pyr, tr sdy, tr slty ip / mnrtst strgs aa / Ss strgs, lt gy, vf gred, sb ang, modly w srt, calcs & cly cmt, tr glaucic, shy, slty, tt, no shows.

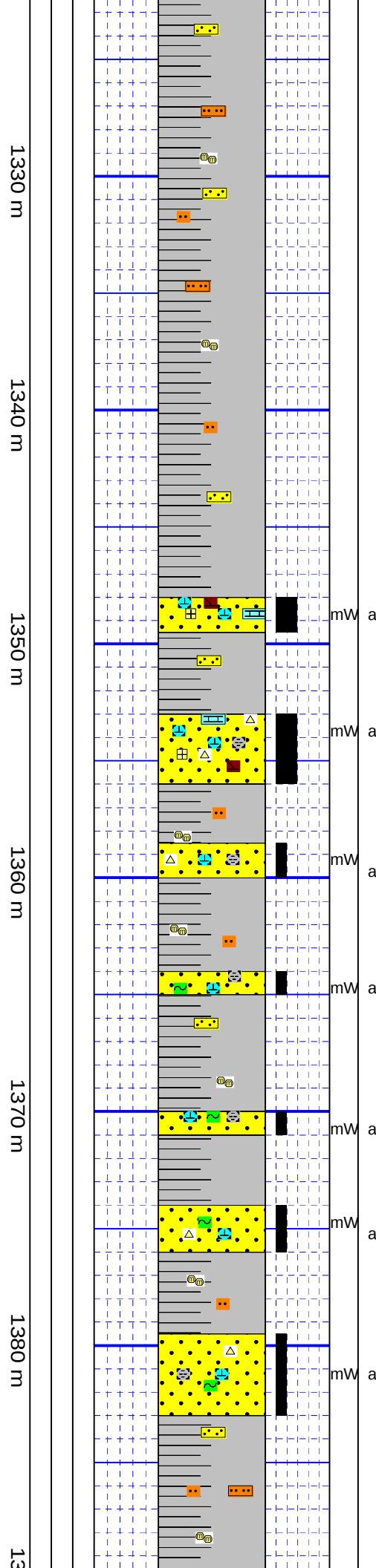
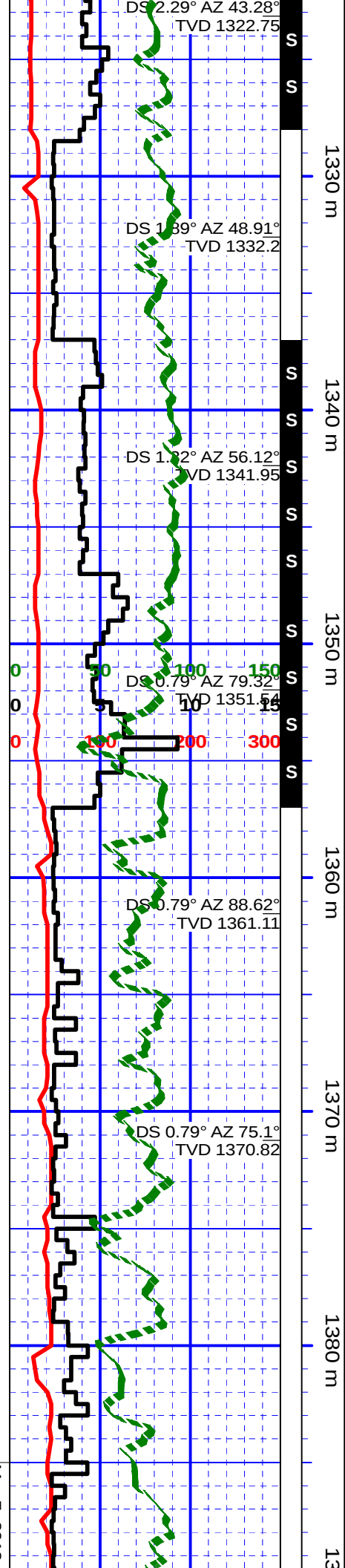
Sh: gy gn, gy, sb fis, sly mmca, sly wxy tex ip, tr pyr, tr sdy, tr slty ip / mnrtst strgs aa / Ss strgs, lt gy, vf gred, sb ang, modly w srt, calcs & cly cmt, tr glaucic, shy, slty, tt, no shows.

Sh: gy gn, gy, sb fis, mmca, sly wxy tex ip, tr pyr, tr sdy, tr slty ip / mnrtst strgs aa / Ss strgs, lt gy, vf gred, sb ang, modly w srt, calcs & cly cmt, tr glaucic, shy, slty, tt, no shows.

Sh: gy gn, gy, sb fis, mmca, sly wxy tex ip, tr pyr, tr sdy, tr slty ip / mnrtst strgs aa / Ss strgs, lt gy, vf gred, sb ang, modly w srt, calcs & cly cmt, tr glaucic, shy, slty, tt, no shows.

Sh: gy gn, gy, sb fis, mmca, sly wxy tex ip, tr pyr, tr sdy, tr slty ip / mnrtst strgs aa / Ss strgs, lt gy, vf gred, sb ang, modly w srt, calcs & cly cmt, tr glaucic, shy, slty, tt, no shows.

Sh: gy gn, gy, sb fis, mmca, sly wxy tex ip, tr pyr, tr sdy, tr slty ip / mnrtst strgs aa / Ss strgs, lt gy, vf gred, sb ang, modly w srt, calcs & cly cmt, tr glaucic, shy, slty, tt, no shows.



Sh: lt - m gy, gy gn, sb fis, mmca, sly wxy tex ip, tr sdy, tr slty ip / mnr Ss & Sltst strgs aa.

Sh: lt - m gy, gy gn, sb fis, mmca, sly wxy tex ip, tr sdy, tr slty ip.

Sh: lt - m gy, gy gn, sb fis, mmca, sly wxy tex ip, tr sdy, tr slty ip.

Ss: lt gy, lt gy brn, vf gred, sb ang, modly w srt, calcs & cly cmy, grds to sdy ls ip, tr arkic ip, tr sidic, no vis por, no shows.

Ss: lt gy, lt gy brn, vf gred, sb ang, modly w srt, calcs & cly cmy, grds to sdy ls ip, tr arkic ip, tr sidic, no vis por, no shows.

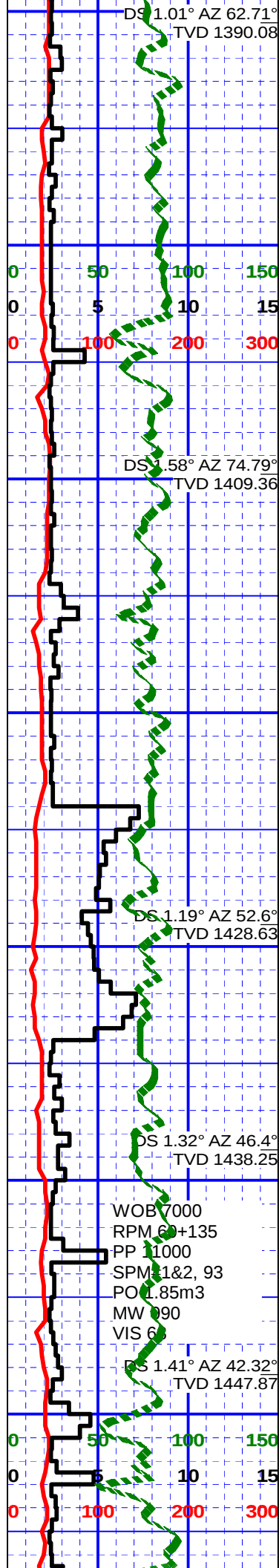
Ss: aa

Ss: aa

Ss: lt - m gy, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy ip, tr arkic, tr glaucic, no vis por, no show.

Ss: lt - m gy, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy ip, tr arkic, tr glaucic, no vis por, no show.

Sh: lt - m gy, gy gn, sb fis ip, sly mmca, tr sdy, tr slty ip / lt gy Clyst, sft, calcs, grds to mrlst ip / mnr



90 m

1400 m

1410 m

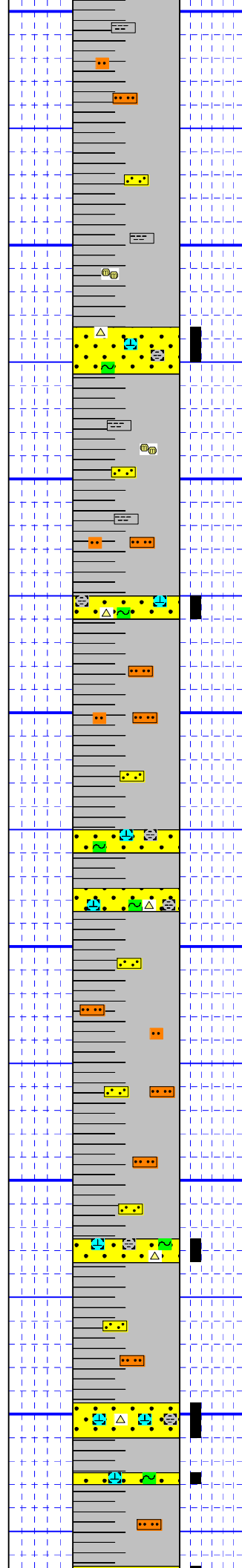
1420 m

1430 m

1440 m

1450 m

S
S
S
S
S



mW

a

mW

a

a

a

mW

a

mW

a

mW

a

Ss strgs aa.

Sh: lt - m gy, gy gn, sb fis ip, slly mmca, tr sdy, tr slty ip / lt gy Clyst, sft, calcs, grds to mrlst ip.

Ss: lt gy, crm, lt rust ip, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy ip, tr arkic, te fer ip, tr dk lit grs, no vis por, no shows.

Ss: lt gy, crm, lt rust ip, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy ip, tr arkic, te fer ip, tr dk lit grs, no vis por, no shows.

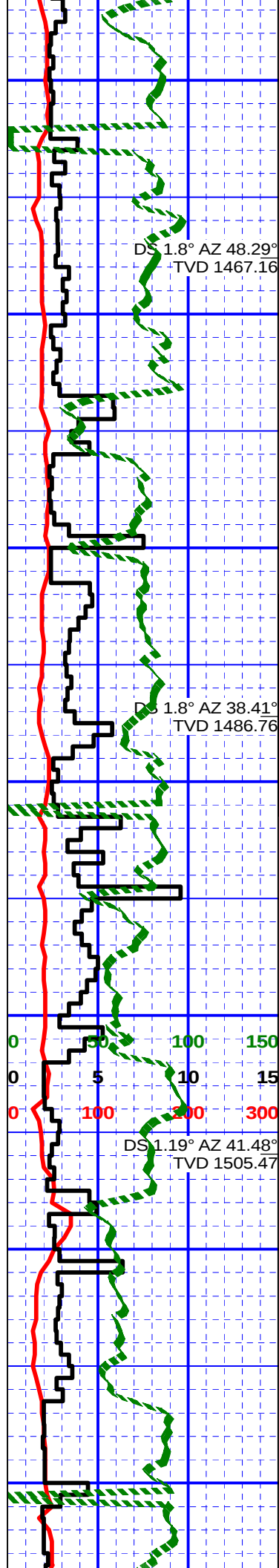
Sh: lt - m gy, gy gn, sb fis ip, slly mmca, tr sdy, tr slty ip / lt gy Clyst, sft, calcs, grds to mrlst ip / 20% Sltst strgs, lt - m gy, cly cmt, sdy, shy, tt, no shows.

Ss: lt gy, crm, lt rust ip, vf gred, sb ang, modly w srt, calcs & cly cmt, slty, shy ip, tr arkic, te fer ip, tr dk lit grs, no vis por, no shows.

Sh: lt - m gy, slly mmca, occlly slty, sft - modly frm, sb fis ip / abnt Sltst strgs & lams, lt - m gy, gy gn ip, cly mtX, slly calcs, shy, sdy ip, tt, no shows.

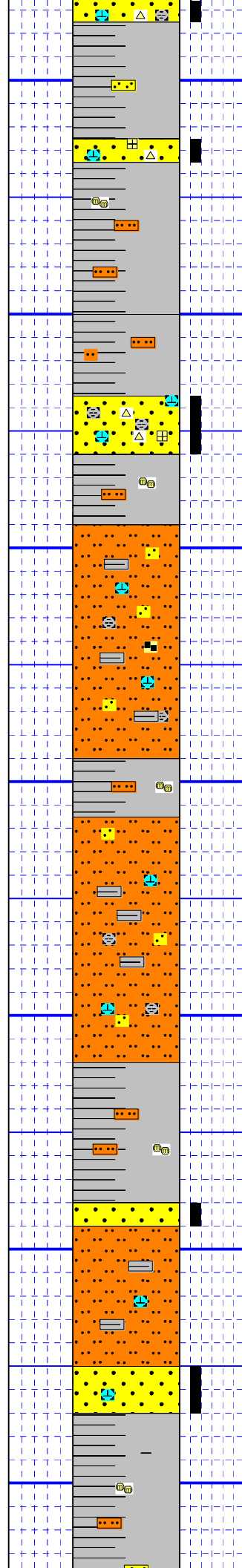
Ss: lt gy, vf gred, sb ang, modly w srt, sb ang, calcs & cly cmt, tr glaucic, tr arkic, tr dk lit grs, slty, shy, tt, no shows.

Ss: lt gy, vf gred, sb ang, modly w srt, sb ang, calcs & cly cmt, tr glaucic, tr arkic, tr dk lit grs, slty, shy, tt, no shows.



1460 m
1470 m
1480 m
1490 m
1500 m
1510 m
1520 m

S
S
S
S



Sh: lt - m gy, sily mmca, occly slty, sft - modly frm, sb fis ip / abnt Slst strgs & lams, lt - m gy, gy gn ip, cly mtz, sily calcs, shy, sdy ip, tt, no shows.

Ss: lt gy, vf gred, sb ang, modly w srt, sb ang, calcs & cly cmt, tr glauc, tr arkic, tr dk lit grs, slty, shy, tt, no shows.

Sh: predly m gy, sily mmca, sily slty, sft - modly frm, sb fis ip / abnt Slst strgs & lams, lt - m gy, gy gn ip, cly mtz, sily calcs, shy, sdy ip, tt, no shows.

Ss: crm, lt - m gy, vf gred, sb ang, modly w srt, qtz / lt cold cht, calcs & cly cmt, slty, shy ip, tr mnr dk lit grs, p tr arkic, v sily sidic? ip, no vis por or show.

Slst: lt - m gy, cly cmt, sily calcs, tr sdy, grds to slty sh ip, tr dk lit grs, tr carb mat, tt, no shows.

Slst: lt - m gy, cly cmt, sily calcs, tr sdy, grds to slty sh ip, tr dk lit grs, tr carb mat, tt, no shows.

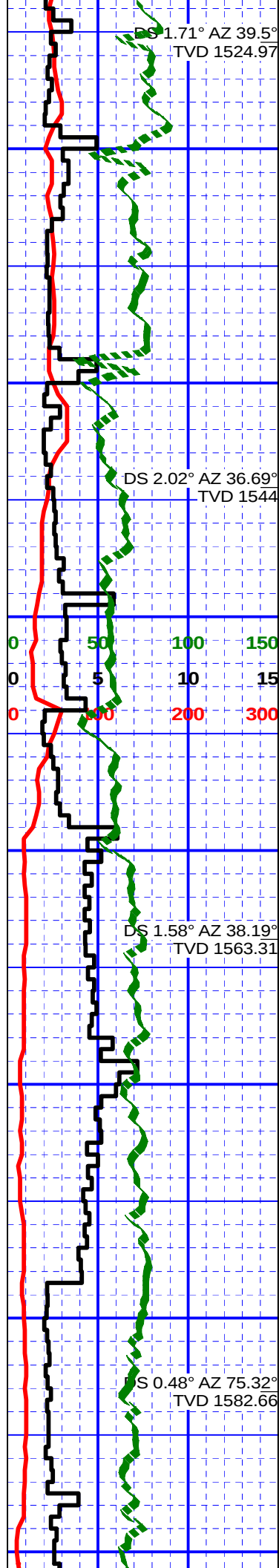
Slst: lt - m gy, cly cmt, sily calcs, tr sdy, grds to slty sh ip, tr dk lit grs, tr carb mat, tt, no shows.

Sh: lt - m gy, blk, v slty, sily mmca, grds to shy slst ip, sbfis ip.

Slst: lt - m gy, cly cmt, sily calcs, tr sdy, grds to slty sh ip, tr dk lit grs, tr carb mat, tt, no shows.

Ss: crm - lt gy, vf gred, sb ang, w srt, calcs & cly cmt, tr dk lit grs, tr glauc, slty, tt, no shows.

Sh: lt - m gy, blk, v slty, sbfis ip, sily mmca, tr



1530 m

1540 m

1550 m

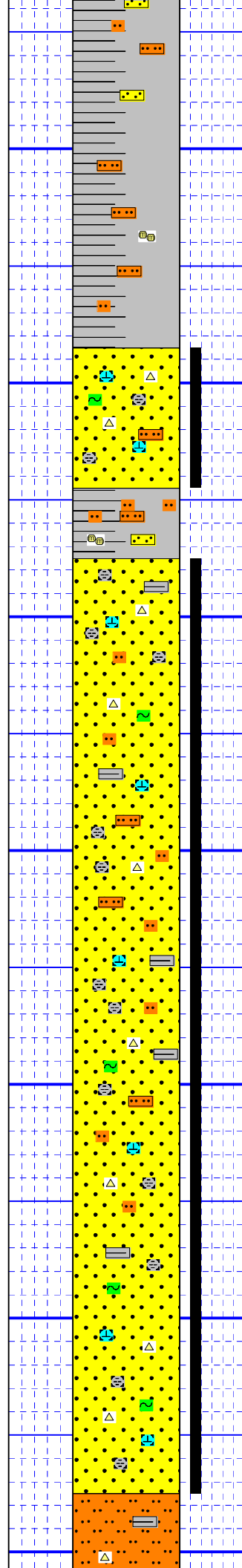
1560 m

1570 m

1580 m

1590 m

S
S
S
S
S
S
S
S



W a

W a

W a

W a

W a

W a

W a

W a

W a

Sh: m gy, sily mmca, sbfis ip, occly slty, tr sily sidic ip / abnt Slst strgs aa / occ Ss strgs aa.

Sh: m gy, sily mmca, sbfis ip, occly slty, tr sily sidic ip / abnt Slst strgs aa / occ Ss strgs aa.

Ss: lt gy, l vf gred, sb ang, w srt, calcs & cly cmt, tr glauc, slty, grds to sltst ip, occly shy, tt, no shows.

Sh: aa

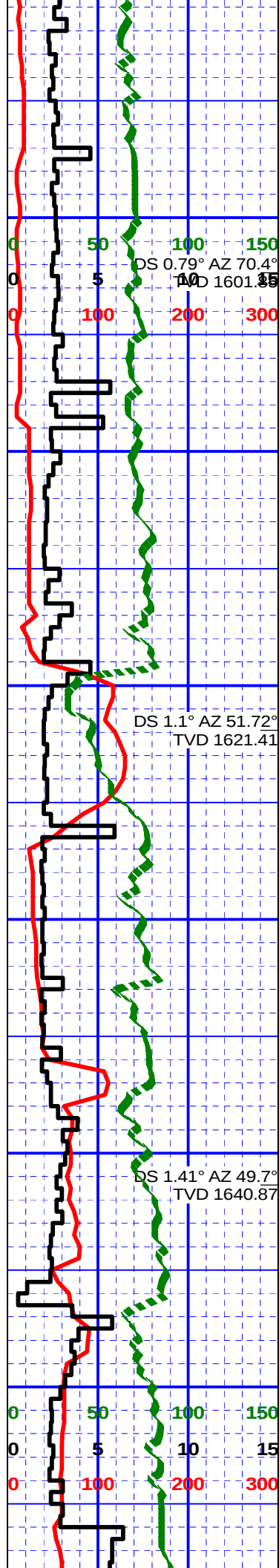
Ss: v lt gy, l vf gred, sb ang, w srt, calcs & cly cmt, tr glauc, slty, tr dk lit grs, grds to sltst ip, tr shy ip, tt, no shows.

Ss: v lt gy, l vf gred, sb ang, w srt, calcs & cly cmt, tr glauc, slty, tr dk lit grs, grds to sltst ip, tr shy ip, tt, no shows / mnr Sh lams aa.

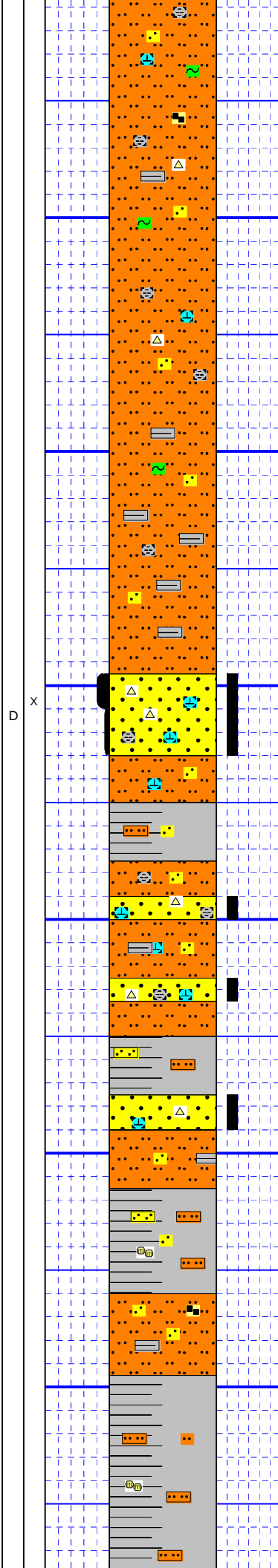
Ss: v lt gy, l vf gred, sb ang, w srt, calcs & cly cmt, tr glauc, slty, tr dk lit grs, grds to sltst ip, tr shy ip, tt, no shows / mnr Sh lams aa.

Ss: v lt gy, l vf gred, sb ang, w srt, calcs & cly cmt, tr glauc, slty, tr dk lit grs, grds to sltst ip, tr shy ip, tt, no shows / mnr Sh lams aa.

Ss: v lt gy, l vf gred, sb ang, w srt, calcs & cly cmt, tr glauc, slty, tr dk lit grs, grds to sltst ip, tr shy ip, tt, no shows / mnr Sh lams aa.

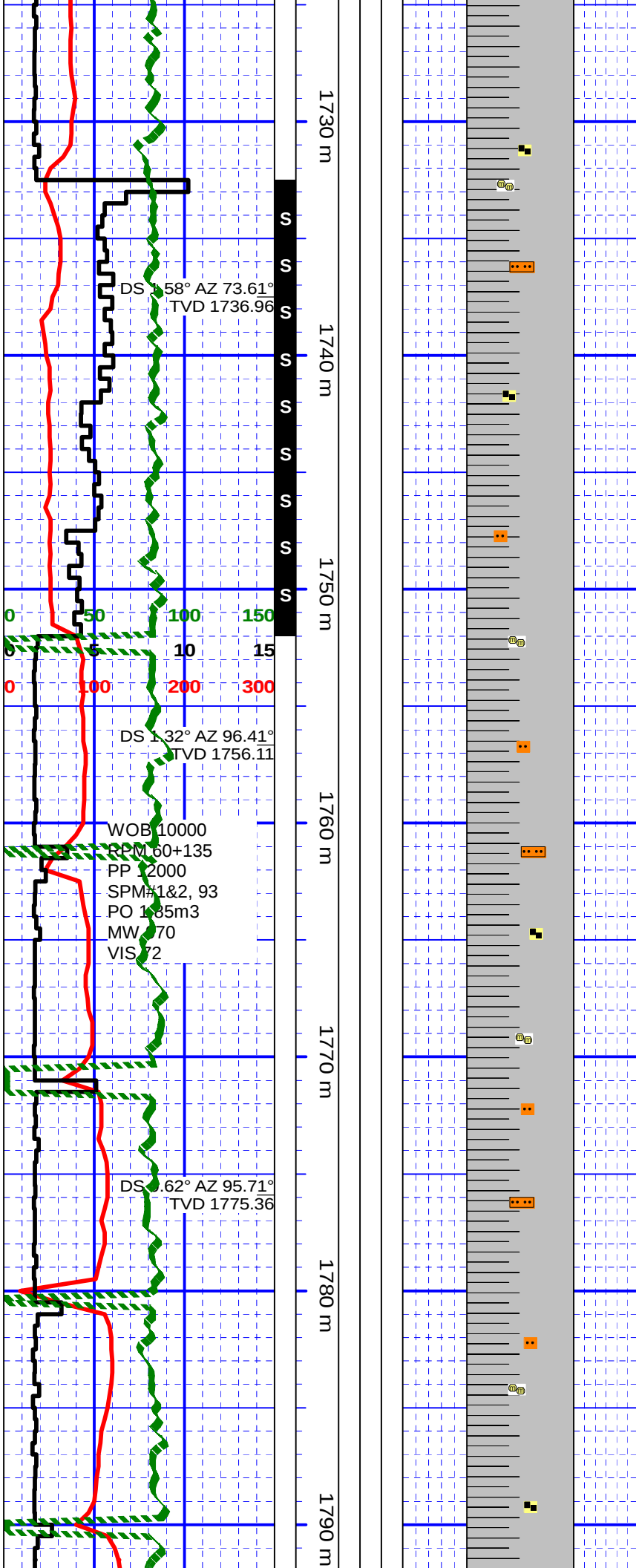


m 1600 m 1610 m 1620 m 1630 m 1640 m 1650 m



W a W a W a W a

- Sltst:** lt gy, calcs & cly mtx, sdy, silly shy, tr carb specs, tt, no show.
- Sltst:** lt gy, calcs & cly mtx, tr carb specs, tr glauic, sdy & shy ip, tt, no shows.
- Sltst:** lt gy, calcs & cly mtx, tr carb specs, tr glauic, sdy & shy ip, tt, no shows / mnr Sh aa.
- Sltst:** lt gy, calcs & cly mtx, tr carb specs, tr glauic, sdy & shy ip, tt, no shows / 10% sh lams.
- Ss:** crm - lt gy, spy lt tan, vf gred, sb ang, w srt, qtzs, mnr lt cold cht, calcs, cly cmt ip, tr dk lit grs, tt - p intgran por 3%, spy lt brn dd o stn, no vis flr.
- Sh:** m - occlly dk gy, sb fis ip, slly mmca, slty ip, tr sdy ip.
- Sltst:** lt gy, m gy ip, calcs & cly mtx, occlly sdy, shy ip, tt, no shows.
- Ss:** lt gy, l vf gred, sb ang, w srt, aa.
- Sh:** m - occlly dk gy, sb fis ip, slly mmca, slty ip, tr sdy ip.
- Sltst:** lt gy, m gy ip, calcs & cly mtx, occlly sdy, shy ip, tt, no shows.
- Sh:** m gy, slly mmca, sbfis ip, occlly slty, grds to shy sltst ip, p tr carb specs / 10% Sltst strgs aa.



Sh: m - occly dk gy, sly mmca, sbfis, tr slty, p tr carb specs.

Sh: predly m gy, sly mmca, sbfis, tr slty, p tr carb specs.

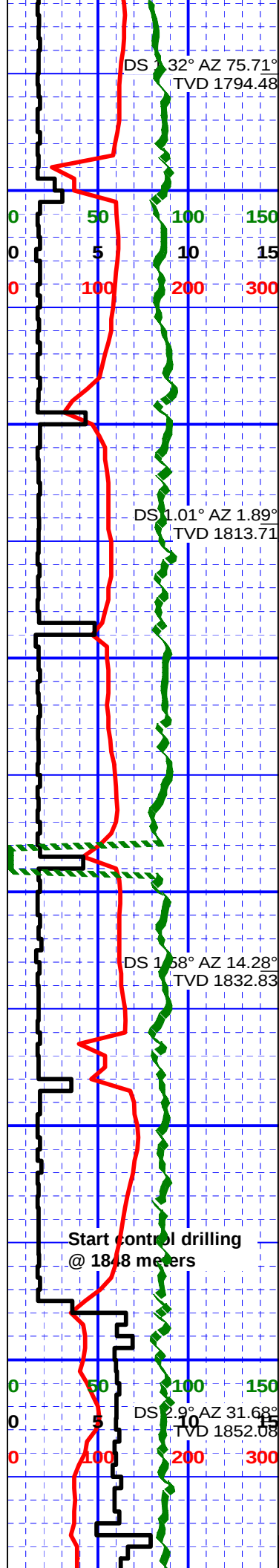
Sh: predly m gy, sly mmca, sbfis, tr slty, p tr carb specs.

Sh: predly m gy, sly mmca, sbfis, tr slty, p tr carb specs / tr mnr Sltst strgs, m gy, cly cmt, sly calcs, shy, tt, no shows.

Sh: predly m gy, sly mmca, sbfis ip, tr slty, p tr carb specs / tr mnr Sltst strgs, m gy, cly cmt, sly calcs, shy, tt, no shows.

Sh: predly m gy, sly mmca, sbfis ip, tr slty, p tr carb specs / tr mnr Sltst strgs, m gy, cly cmt, sly calcs, shy, tt, no shows.

Sh: predly m gy, sly mmca, sbfis ip, slty ip, p tr carb specs / tr mnr Sltst strgs, m gy, cly cmt, sly calcs, shy, tt, no shows.



1800 m

1810 m

1820 m

1830 m

1840 m

1850 m

S

Sh: predly m gy, sly mmca, sbfis ip, slty ip, p tr carb specs / tr mntr Slst strgs, m gy, cly cmt, sly calcs, shy, tt, no shows.

Sh: predly m gy, mntr dk gy, sly mmca, sbfis ip, slty ip, p tr carb specs.

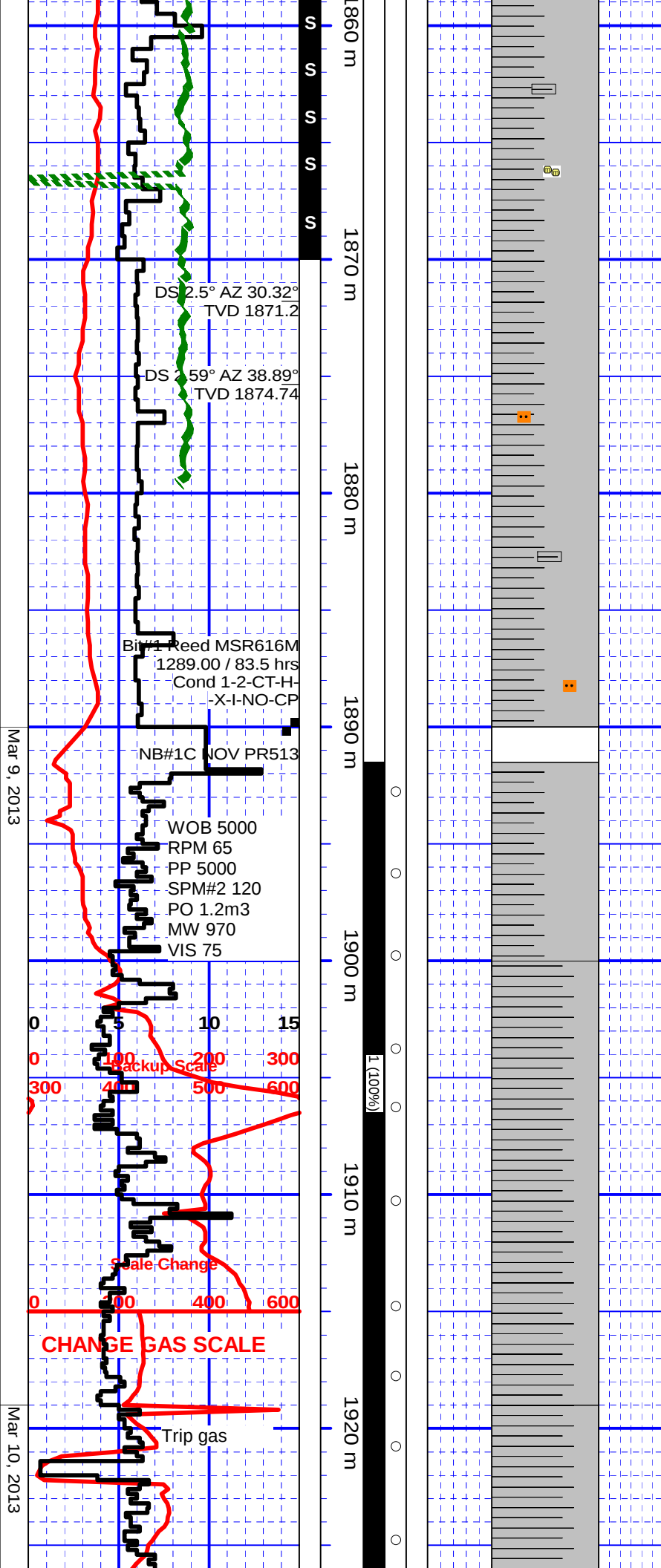
Sh: predly m gy, tr dk gy, sly mmca, sbfis ip, p tr slty ip, p tr carb specs.

Sh: predly m gy, tr dk gy, sly mmca, incrg sbfis, p tr slty ip, p tr carb specs.

Sh: predly m gy, incrg dk gy, sly mmca, sbfis, p tr slty ip, p tr carb specs.

Sh: predly m gy, mntr dkr gy, sbfis, sly mmca, tr slty ip / tr mntr Slst lams, m gy, cly mtz, sly calcs, shy, tt, no shows.

Sh: predly m gy, mntr dkr gy, sbfis, modly frm, sly mmca, tr slty ip.



Sh: predly m gy, mnr dkr gy, sbfis, modly frm, slly mmca, tr slty ip.

Sh: predly m gy, mnr dkr gy, sbfis, modly frm, slly mmca, tr slty ip.

Sh: predly m gy, mnr dkr gy, sbfis, modly frm, slly mmca, tr slty ip.

Make 1.5 meter depth correction

Sh: m gy, frm, sbfis, slly mmca, slly slty, tr unident fos casts (bracs?) tr dk carb mat, no dry
Sh: aa, slly dkr, tr dk carb mat (pl rmns?), flor aa.

Sh: m gy, frm, sbfis, slly mmca, slly slty, tr unident fos casts (bracs?) tr dk carb mat, flor aa.

Sh: aa, grdg to dk gy.
Corepoint marker 1900m

Sh: dk gy, bcmg carb, aa / abnt fos casts aa & occ carb mat aa, flor aa

Sh: m - dk gy, slly mmca, sb fis, incrg slty? tr dk carb mat aa, show aa.

Sh: dk gy, decrg fos casts, p tr carb mat, show aa.

Sh: dk gy, modly frm, sbfis, slly mmca, slly slty, p tr dk carb mat, sl hydrc odor, show aa

Sh: dk gy aa, abnt fos casts (bracs?) aa / carb mat aa, no dry flor, v faint pale wh cut.

Sh: dk gy, modly frm, sbfis, slly mmca, slly slty, tr fos casts, tr dk carb mat, show aa.

Sh: dk gy, slly mmca, slly slty, tr fos & carb mat aa, flor aa.

Sh: dk gy, slly mmca, slly slty, sbfis, modly frm, no dry flor, v faint lt wh cut.

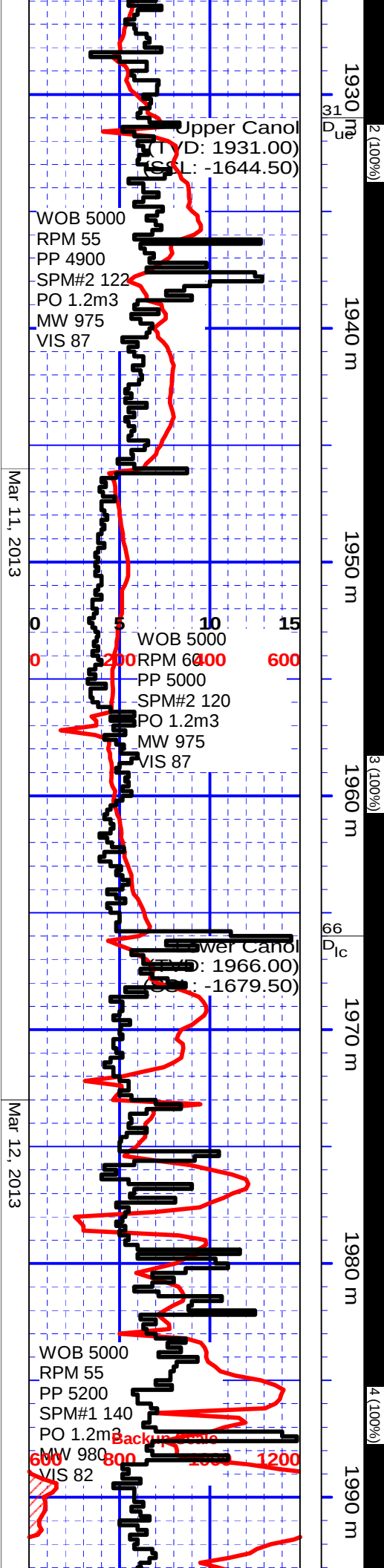
Sh: dk gy, incrg mmca, incrg slty, sbfis, modly frm, no dry flor, v faint lt wh yel cut.

Sh: dk gy, incrg mmca, slty, sbfis, modly frm, no dry flor, v faint lt wh cut.

Sh: dk gy, sb fis, slly mmca, slty, tr dism pyr, tr v pale wh slow cloudy flor.

Sh: dk gy, sb fis, slly mmca, slty, tr dk carb specs (mat) show aa

Sh: dk gy, sb fis, slly mmca, bcmg frm (slly sils?), show aa
Sh: dk gy, sb fis, modly frm, slly mmca, tr slty,



Sh: dk gy, sb fis, modly frm, slyly mmca, tr slty, mnr dk carb mat tr nvr show aa

Sh: dk gy, sb fis, modly frm, slyly mmca, tr slty, incrn dk carb mat abnt snons spics tr nl rms?

Sh: dkr gy, sb fis, modly frm, slyly mmca, slyly slty, tr dk carb mat tr snics slow nalc flor cut aa

Sh: slyly dkr gy, sb fis, slyly mmca, slyly slty, tr blk carb mat, no dry flor (TVD: 1931.00) (SSL: -1644.50)

Sh: v dk gy, sb fis, slyly mmca, slyly slty, sft - frm tr blk carb mat show aa

Sh: v dk gy - blk, sb fis, slyly mmca, slyly slty, sft - modly frm tr blk carb mat show aa

Sh: dk gy, sb fis, slyly mmca, slyly slty, sft - modly frm tr blk carb mat occ snics show aa

Sh: dk gy - dk gy brn, sb fis, slyly slty, slyly mmca, v abnt snics tr dk carb mat (nl rms) show aa

Sh: dk gy - dk gy brn, sb fis, pyric, slyly slty, slyly mmca, v abnt spics, tr dk carb mat (pl rms), fos

Sh: dk gy - dk gy brn, sb fis, slyly slty, slyly mmca, tr pyric, p tr spics, show aa.

Sh: dk gy, sb fis, slyly slty, slyly mmca, tr pyric, tr dk carb mat (pl rms), tr spics aa, show aa.

Sh: aa / abnt fos casts (pels or ools) infilled / pyr, no dry flor, pale wh stmg cut.

Sh: dk gy, sb fis, slyly mmca, slyly slty, tr mnr carb mat (pl rms?), no dry flor, v pale lt wh cut flor.

Sh: dk gy, sb fis, slyly mmca, slyly slty, tr mnr carb mat (nl rms?) no dry flor v faint to no show

Sh: aa / fos casts (pels?) infilled / pyr.

Sh: dk gy, sb fis, slyly mmca, slyly slty, tr mnr carb mat (pl rms?), no dry flor, predly no show.

Sh: dk gy, sb fis, slyly mmca, slyly slty, tr mnr carb mat (pl rms?), faint to no show.

Sh: dk gy, sb fis, slyly mmca, slyly slty, modly frm, tr mnr carb mat (pl rms?), no dry flor, faint to no

Sh: dk gy, sb fis, slyly mmca, slyly slty, tr mnr carb mat (nl rms?) show aa

Sh: dk gy, sb fis, slyly mmca, slyly slty, tr mnr carb mat (pl rms?), show aa.

Sh: dk gy, sb fis, slyly mmca, slyly slty, tr mnr carb mat (pl rms?), show aa.

Sh: dk gy, sb fis, slyly mmca, slyly slty, abnt dism pyr, tr mnr carb mat (pl rms?), show aa.

Sh: dk gy, sb fis, slyly mmca, modly frm, slyly sils, tr mnr carb mat (pl rms?), show aa

Sh: dk gy, sb fis, slyly mmca, modly frm, slyly sils, carb, slyly slty, no dry flor, faint pale wh cloudy cut.

Sh: aa, dism pyr.

Sh: dk gy - blk, slyly mmca, frm - hd, sils? carb, tr slty tr dism nvr show aa

Sh: aa, abnt carb mat.

Sh: dk gy - blk, slyly mmca, frm - hd (sils), carb / abnt carb mat.

Sh: aa / abnt pyr, tr unident fos casts (pl rms)

Sh: dk gy - blk, fis, splty, slyly mmca, frm - hd (sils), tr pyric, no dry flor, faint pale slow wh

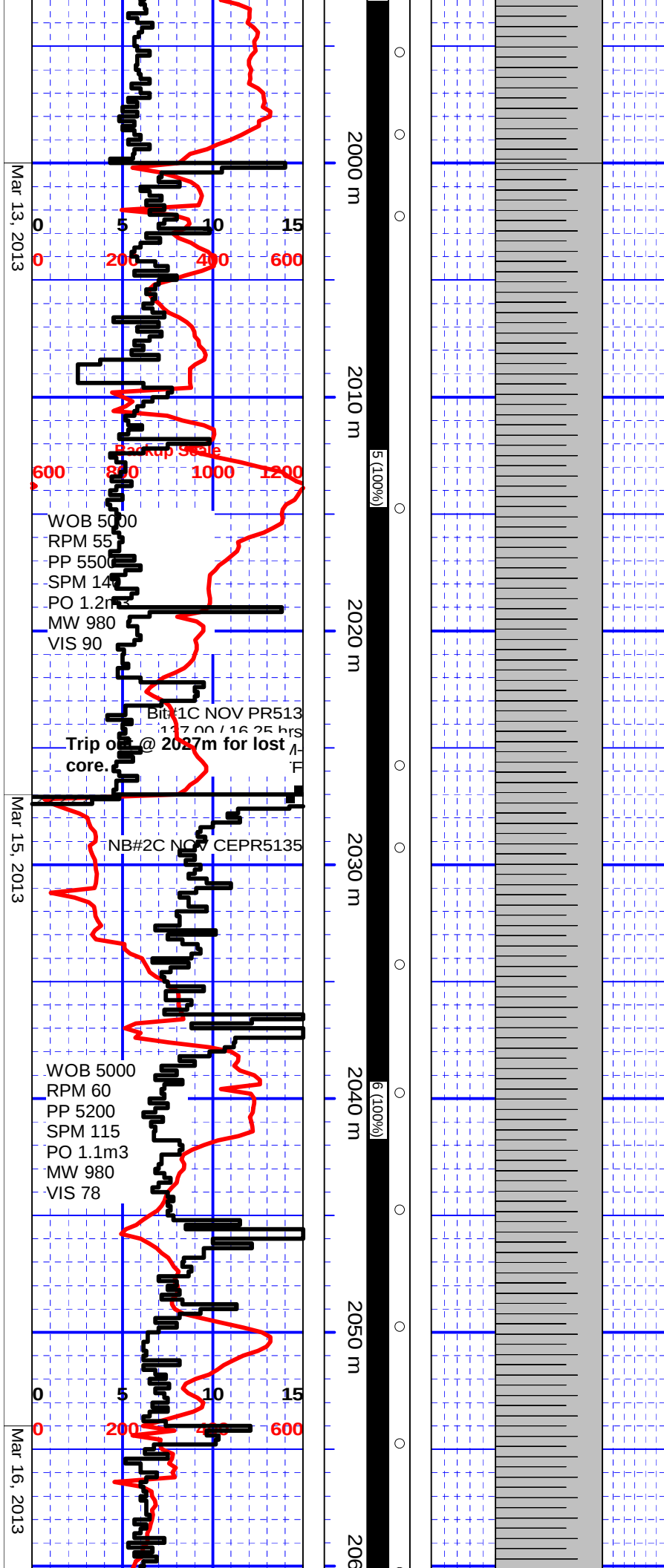
Sh: dk gy - blk, fis, splty, slyly mmca, frm - hd (sils) tr nvr no dry flor faint pale slow wh

Sh: aa, occ carb mat, tr micro fracs infilled / carb mat & calc & tr pyr, shows aa.

Sh: dk gy, splty, slyly mmca, frm - hd (sils), tr pyric, no dry flor, faint pale slow wh cloudy cut.

Sh: dk gy, frm - hd, sils, slyly mmca, occ carb mat, show aa.

Sh: dk gy, hd, sils? slyly mmca, occ carb mat (fos



casts & pl rmns?) show aa.

Sh: dk gy, hd, sils? sly mmca, tr pyr, occ carb mat, show aa.

Sh: dk gy, hd, sils? sly mmca, tr pyr, occ carb mat, v thin pyric lam, show aa.

Sh: dk gy, hd, sils? sly mmca, tr pyr, occ carb mat, show aa.

Sh: dk gy, hd, sils? sly mmca, tr pyr, occ carb mat, show aa.

Core# 5: No recovery at surface. Upper shoe backed off from bottom of inner tubes and core emptied out of tubes. Schlumberger wireline lost 200 lbs @ 1500m, then they lost 1200 lbs of weight @ 110 meters. Started recovering core from drill pipe after 3 stands. Core was mixed up in the first four tubes due to unorthodox lay down procedures (tubes & core possibly reversed). Tubes 5-10 were relatively in order, tubes 11-13 are mixed up as they were recovered from mouse hole after the core fell out of the drill pipe while in the mouse hole. The core was jammed in the pipe and we had to hit the pipe with a sledge hammer to free the core and the thread protector we had screwed on the bottom of the drill pipe to catch the core failed. We then pulled the mouse hole out and laved it down on the nine racks and had

Sh: dk gy, hd, sils? sly mmca, pyric / thin lamd pyr and occ pyr nods, no dry flor, v pale slow cloudy wh cut flor.

Core# 6: The tubes as seen in the core racks at surface were recovered from the outer core barrels at surface on the drill floor after the bit was removed and are relatively in order. Estimate almost full recovery.

Sh: dk gy, hd, sils? sly mmca, bcmg v sly calcs, diss pyr, occ carb mat, no dry flor, v pale wh slow cloudy cut.

Sh: dk gy, frm, sly sils, sly mmca, diss pyr, occ carb mat, no dry flor, v pale wh slow cloudy cut.

Sh: dk gy - blk, sly mmca, frm bcmg brit, sils? v sly calcs, carb mat (pl rmns?), no dry flor, v faint

Sh: dk gy - blk, sly mmca, frm bcmg brit, sils? v sly calcs, carb mat (pl rmns?), no dry flor, v faint

Sh: dk gy - blk, sly mmca, carb, frm, brit, sils? v sly calcs, carb mat (pl rmns?), no dry flor, v faint

Sh: dk gy - blk, sly mmca, carb, frm, brit, sils? v sly calcs, carb mat (pl rmns?), no dry flor, v faint slow wh cloudy cut.

Sh: blk, frm, brit, splty, sly sils, sly mmca, carb, tr pyric, mud invasion along sh lams, hydc odor? shows aa.

Sh: blk, frm, brit, splty, sly sils, sly mmca, carb, tr pyric, mud invasion along sh lams, hydc odor? shows aa.

Sh: dk gy - blk, frm, brit, splty, sly sils?, sly mmca, carb, incrg calcs, tr pyric, shows aa.

Sh: dk gy - blk, frm, brit, splty, sly sils?, sly mmca carb calcs tr pyric shows aa

Sh: dk gy - blk, frm, brit, splty, sly sils?, sly mmca, carb, calcs, tr pyric, dk carb mat (pl

Sh: dk gy - blk, frm, brit, splty, sly sils?, sly mmca, carb, calcs, bcmg slty, dk carb mat (pl

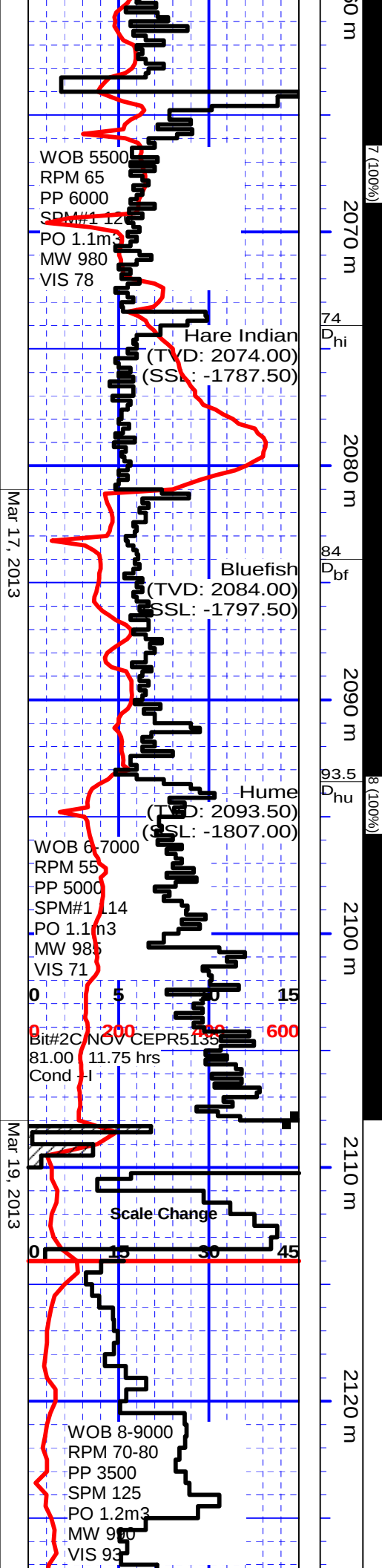
Sh: dk gy - blk, frm, brit, splty, sly sils?, sly mmca, carb, v sly calcs, tr pyric, dk carb mat (pl

Sh: v dk gy, frm, brit, sly sils?, sly mmca, carb, tr pyric, tr dk carb mat (pl rmns?), shows aa.

Sh: v dk gy - blk, frm, brit, sly sils?, sly mmca, carb, tr dk carb mat (pl rmns?), shows aa

Sh: v dk gy - blk, frm, brit, sils?, sly mmca, carb, tr diss pyr, tr dk carb mat (pl rmns?), shows aa

Sh: v dk gy - blk, frm, brit, sly sils?, sly mmca, tr



pyr, carb, tr dk carb mat (pl rmns?), shows aa

Sh: v dk gy - blk, frm, brit, sllly sils?, sllly mmca, carb, tr dk carb mat (pl rmns?), shows aa

Sh: v dk gy - blk, frm, brit, sllly sils?, sllly mmca, dism pyr, carb, tr dk carb mat (pl rmns?), no dry flor, faint slow pale wh cloudy cut.

Sh: v dk gy - blk, frm, brit, sllly sils?, sllly mmca, dism pyr, carb, tr dk carb mat (pl rmns?), show

Sh: v dk gy, frm, splty, brit, sils? v sllly mmca, carb, show aa.

Sh: v dk gy, frm, splty, brit, sils? v sllly mmca, carb, sllly slty, show aa.

Sh: v dk gy, frm, splty, brit, sils? v sllly mmca, carb, sllly slty, show aa. (TVD: 2074.00)

Sh: v dk gy, frm, splty, brit, sils? (SSL: -1787.50)

Sh: v dk gy, frm, splty, brit, sils? v sllly mmca, dk carb mat (pl rmns?), sllly slty, show aa.

Sh: v dk gy, frm, splty, brit, sils? v sllly mmca, v abnt spotted (pels?) dk carb mat (grds to bit?), show aa but sllly brierter.

Sh: aa

Sh: v dk gy, bcmg less brit, sllly mmca, carb, sllly slty, dk carb mat, tr unident fos casts, shows aa

Sh: v dk gy, modly brit, plty, frm, sllly sils, Bluefish mmca, abnt rdd carb snots, show (TVD: 2084.00)

Sh: aa / dism pyr. (SSL: -1797.50)

Sh: v dk gy, plty, sb fis, sllly mmca, carb, v sllly calcs, show aa

Sh: dk gy, plty, fis, sils, incrg calcs, carb, abnt fos casts infilled / pyr, carb mat aa, show aa.

Sh: aa, incrg calcs.

Sh: v dk gy, modly brit, plty, frm, calcs, sllly sils, sllly mmca, abnt fos casts occly infilled / pyr, carb

Sh: aa, v calcs.

Ls: lt brn, fragal wkest, rexld ip f m vln cllk Hume unident fos casts (cor) infilled w (TVD: 2093.50)

Ls: lt brn, fltst, micr mtz, rexld ip (SSL: -1807.00)

Ls: amph, unident fos casts (cor) infilled with cxln fros

Ls: aa

Ls: lt brn, mdst - wkest, sllly arg, unident fos shad, dns, no shows

Ls: brn, fltst? aa, shy, (mud comtaminated)

Ls: lt brn, wkest? unident fos shad, sllly arg, dns, no shows

Ls: brn, wkest, occ unident fos frags, gasts? unident cor casts infilled / calc, sllly arg, dns, no vis shows.

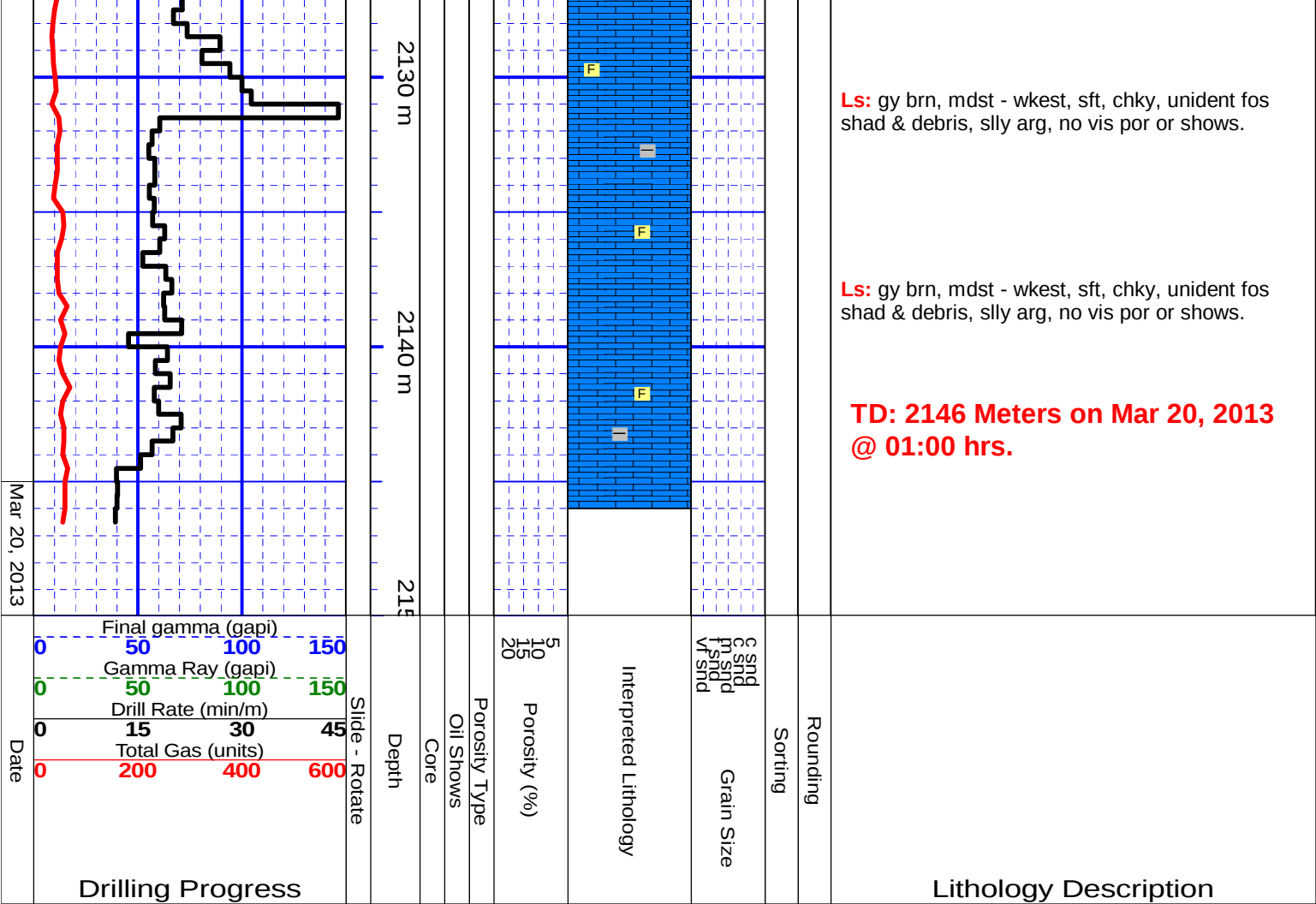
Ls: brn, mdst - wkest, occly rexld f xln, mntr unident fos shad, dns, no shows.

Ls: gy brn, mdst - wkest, unident fos shad & debris, sllly arg, no vis por or shows.

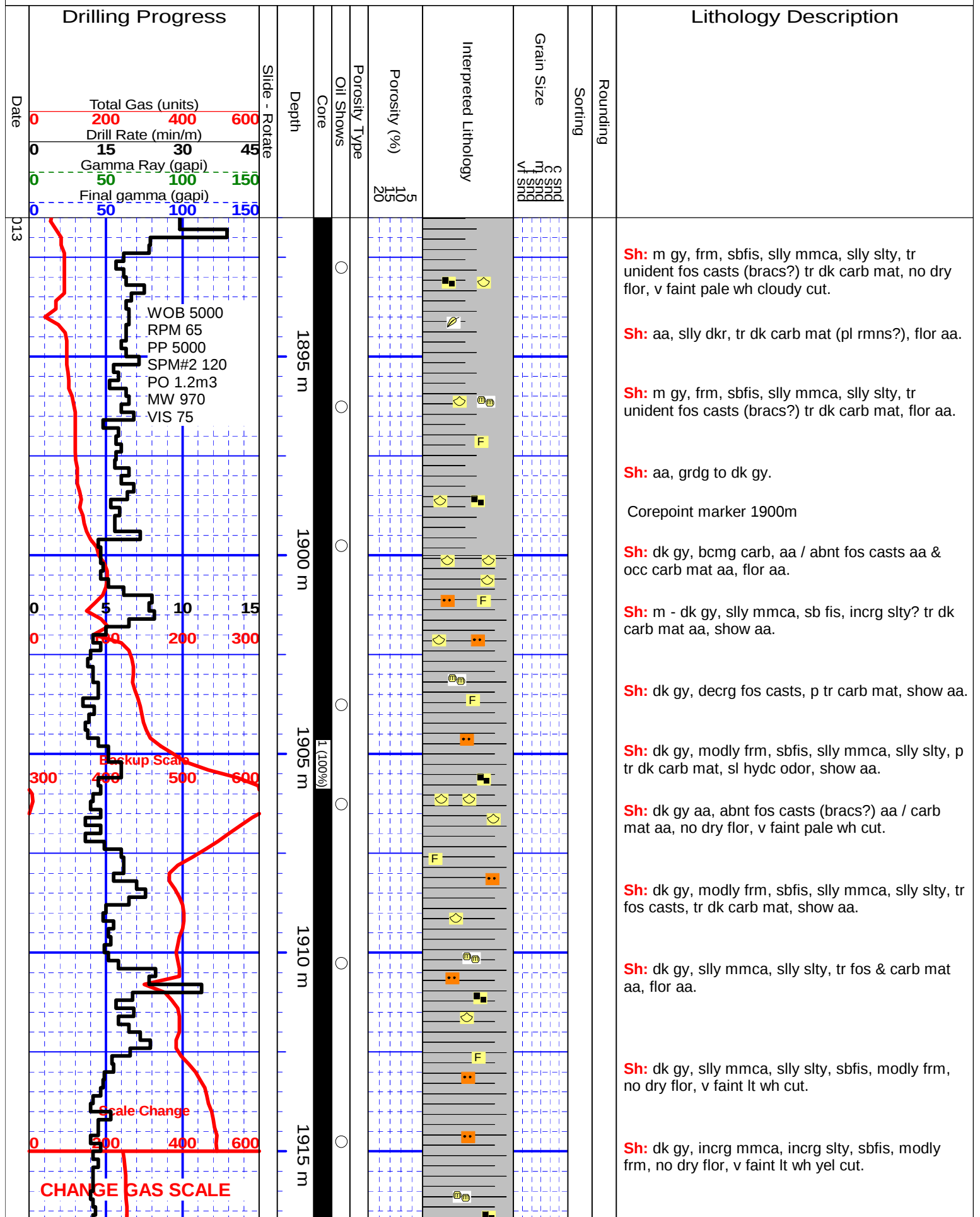
Ls: gy brn, mdst - wkest, unident fos shad & debris, sllly arg, no vis por or shows.

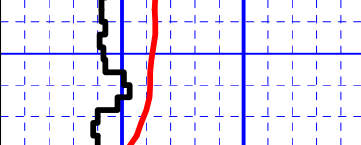
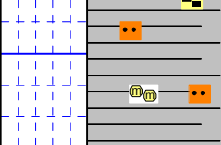
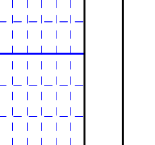
Ls: gy brn, mdst - wkest, unident fos shad & debris, sllly arg, no vis por or shows.

Ls: gy brn, mdst - wkest, unident fos shad & debris, sllly arg, no vis por or shows.

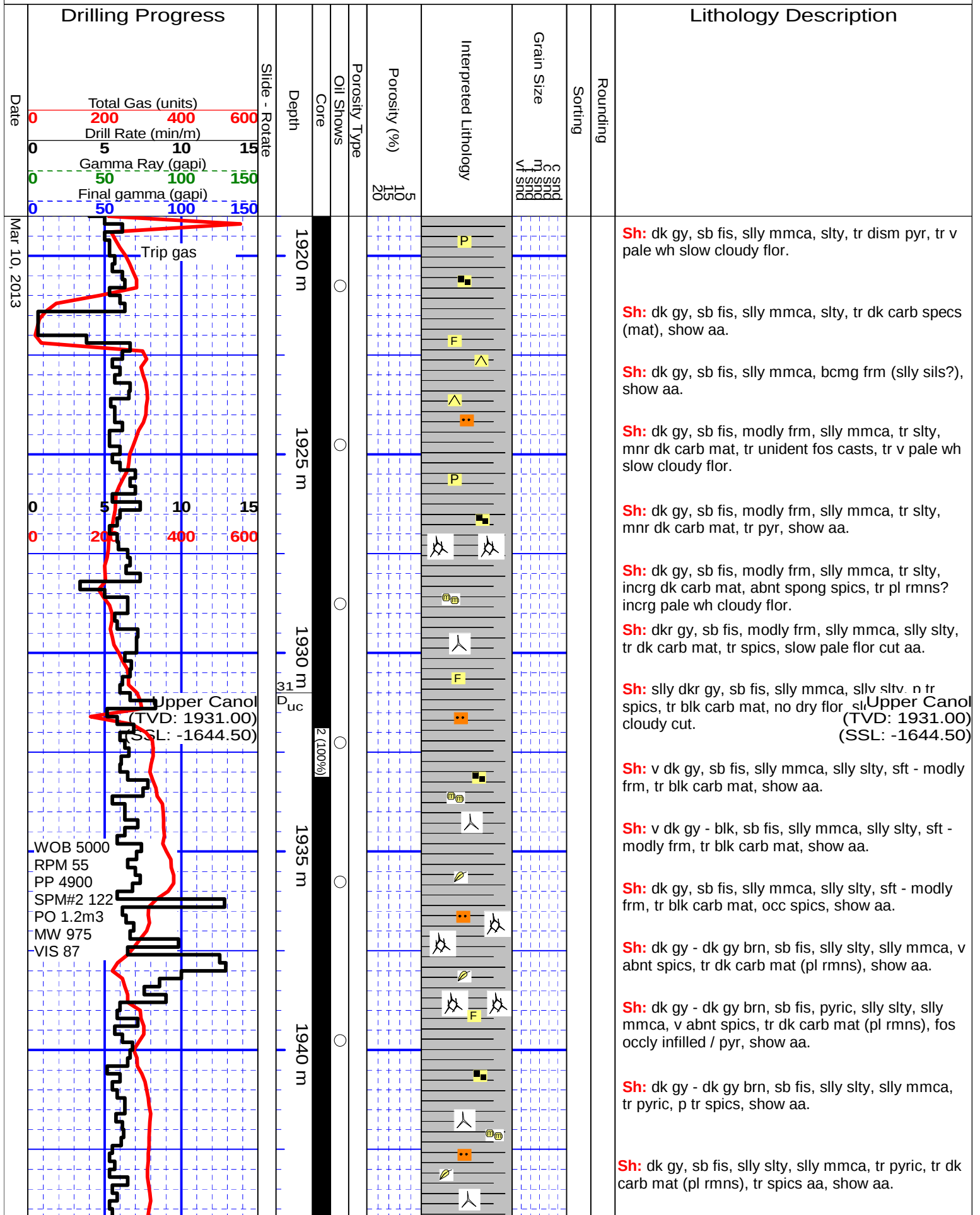


Expanded Core Log (1:120) Mar 9, 2013
Core #1 Interval: 1891.50m to 1919.00m Cut: 27.5m Recovered: 27.5m (100%)

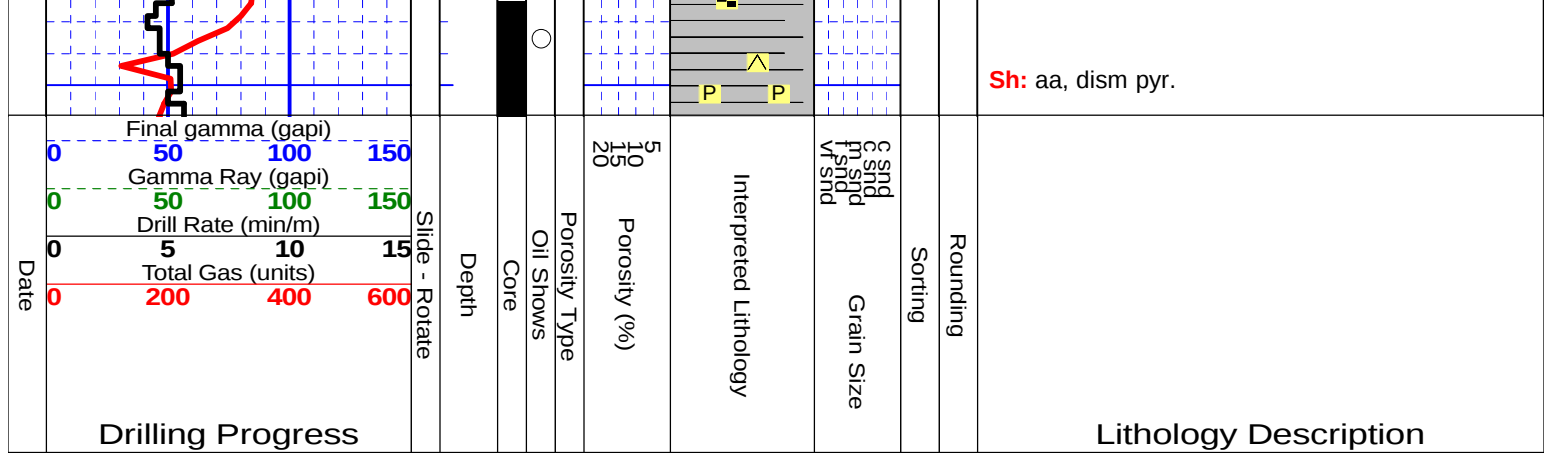


						Sh: dk gy, incrg mmca, slty, sbfis, modly frm, no dry flor, v faint lt wh cut.	
Drilling Progress		Slide - Rotate		Rounding		Lithology Description	
Date		Depth		Sorting			
		Core		Grain Size			
		Oil Shows		Interpreted Lithology			
		Porosity Type		Porosity (%)			

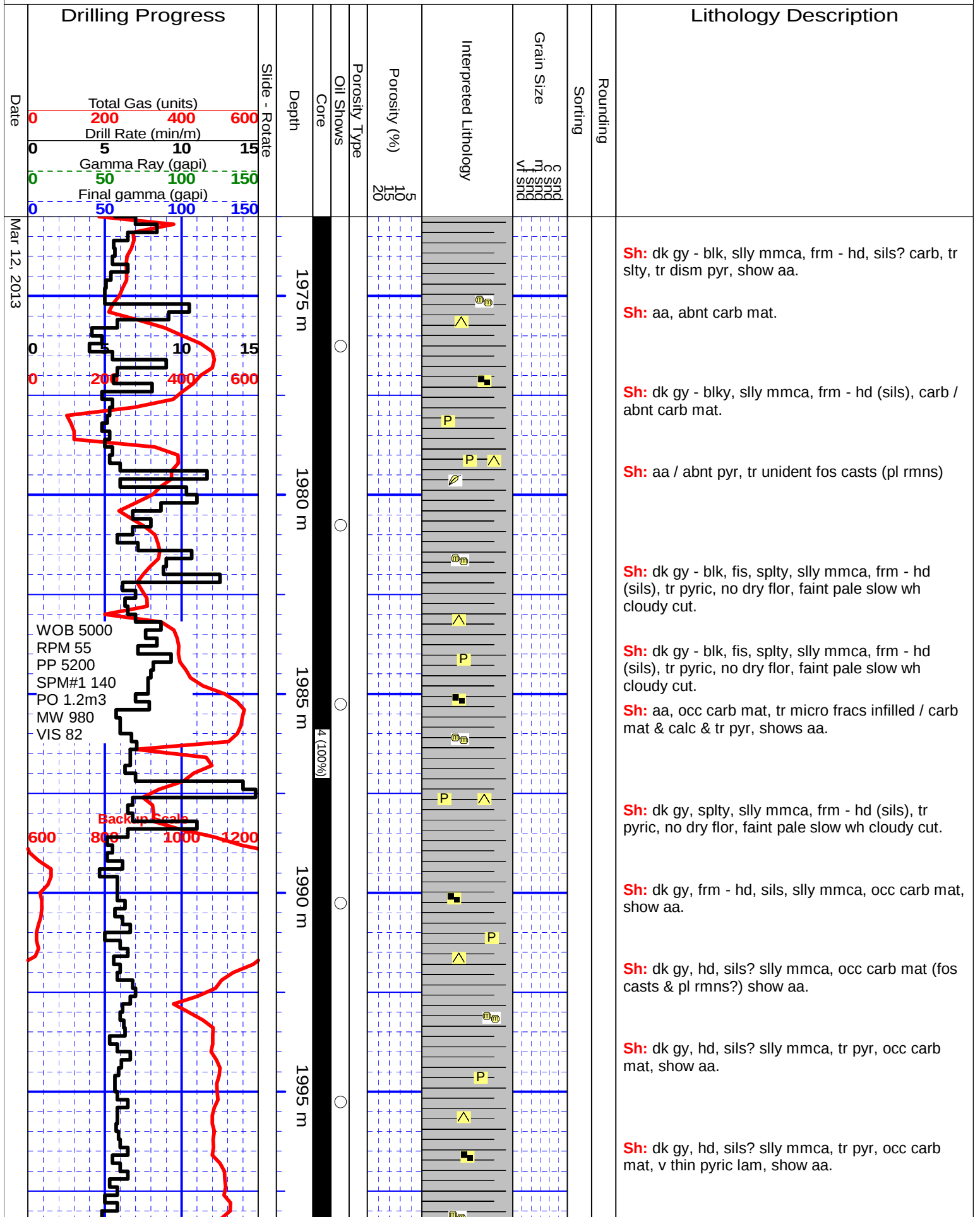
Expanded Core Log (1:120) Mar 10, 2013
Core #2 Interval: 1919.00m to 1946.00m Cut: 27m Recovered: 27m (100%)



WOB 5000
RPM 55
PP 4900
SPM#2 122
PO 1.2m3
MW 975
VIS 87

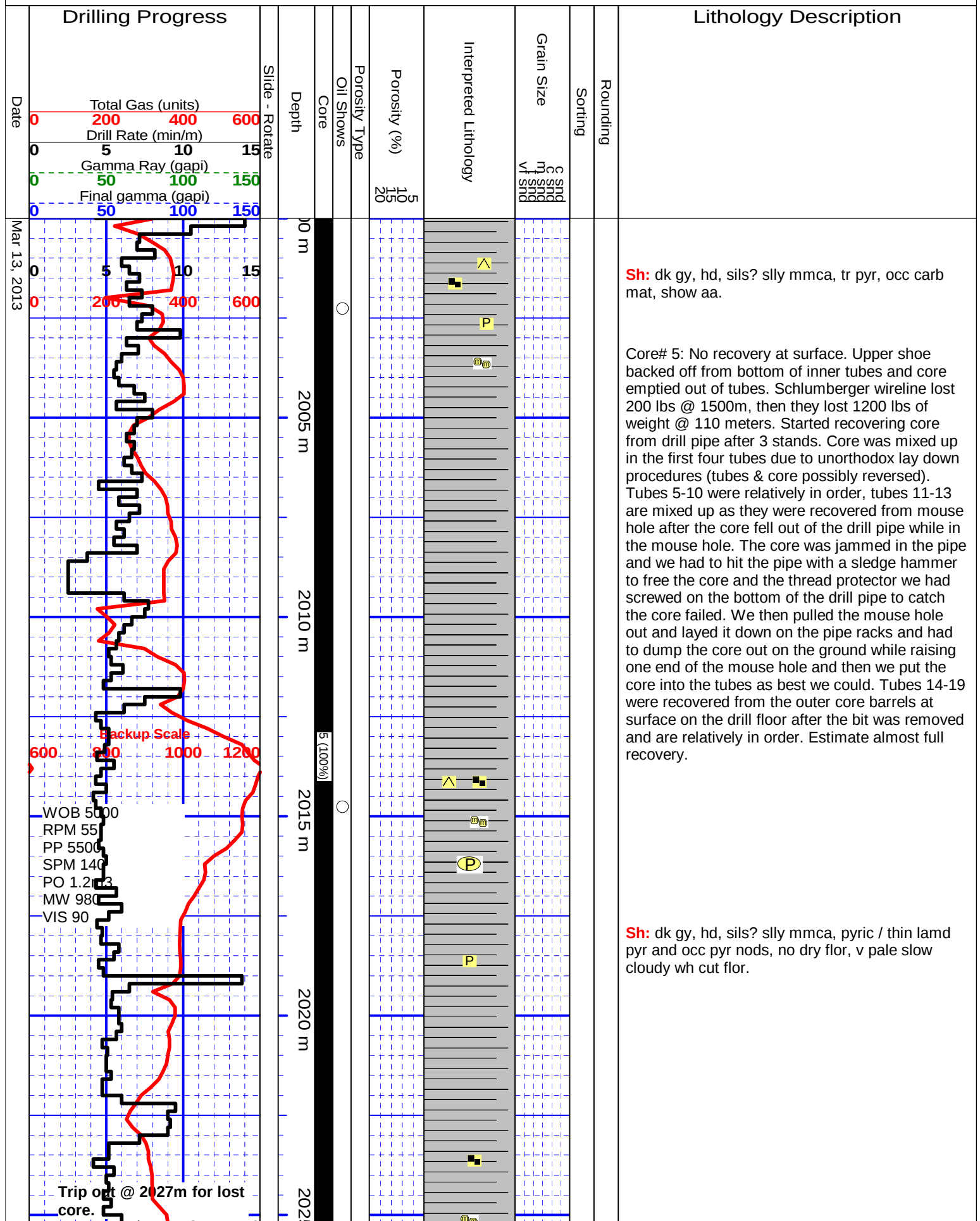


Expanded Core Log (1:120) Mar 12, 2013
Core #4 Interval: 1973.00m to 2000.00m Cut: 27m Recovered: 27m (100%)



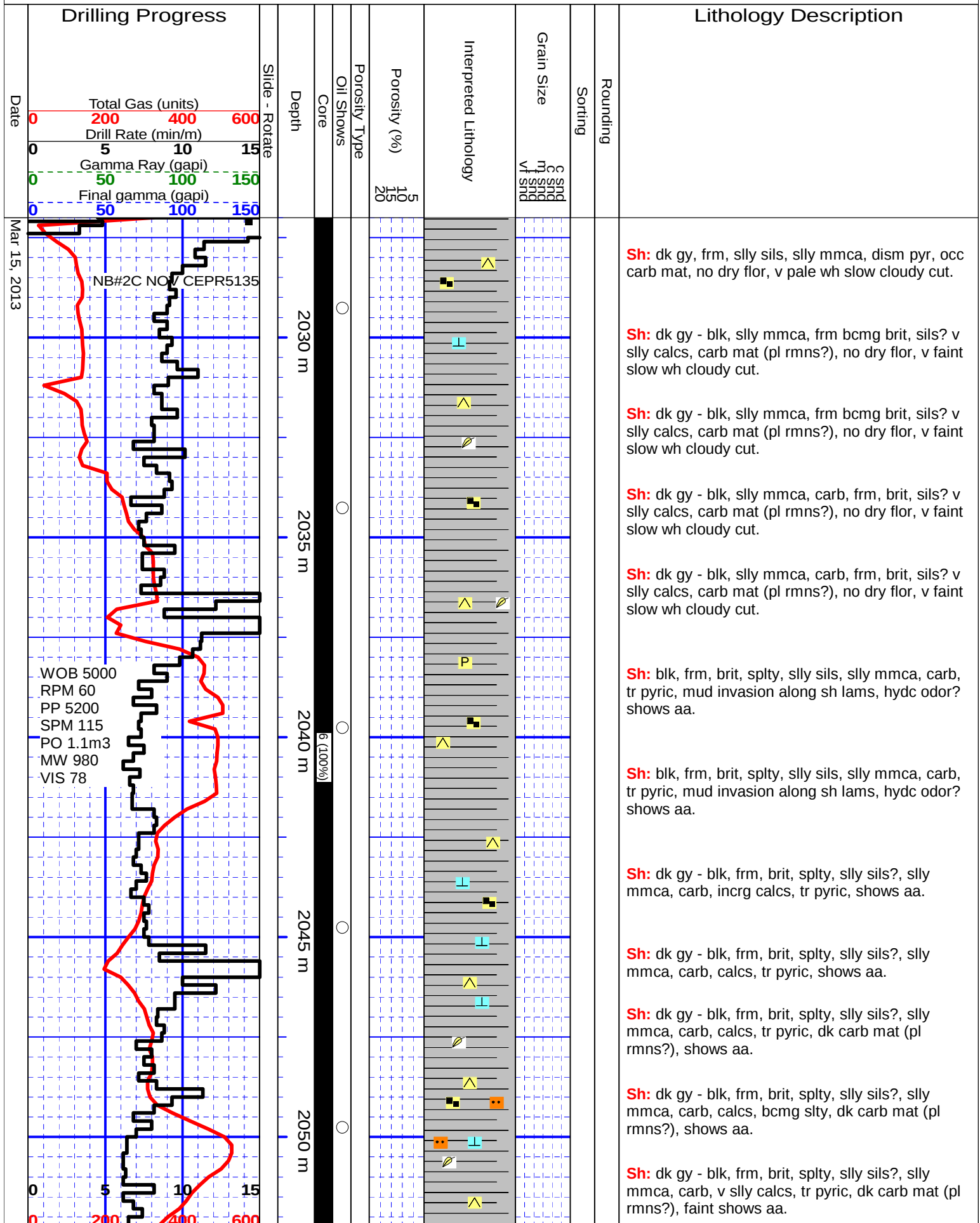
Expanded Core Log (1:120) Mar 13, 2013

Core #5 Interval: 2000.00m to 2027.00m Cut: 27m Recovered: 27m (100%)



[illegible]

Expanded Core Log (1:120) Mar 15, 2013
Core #6 Interval: 2027.00m to 2054.00m Cut: 27m Recovered: 27m (100%)



WOB 5000
RPM 60
PP 5200
SPM 115
PO 1.1m3
MW 980
VIS 78

NB#2C NOV CEPR5135

Date								Sh: v dk gy, frm, brit, slly sils?, slly mmca, carb, tr pyric, tr dk carb mat (pl rmns?), shows aa.
	Final gamma (gapi) Gamma Ray (gapi) Drill Rate (min/m) Total Gas (units)							
	Slide - Rotate							
	Depth							
	Core							
	Porosity Type							
	Porosity (%)							
	Interpreted Lithology							
	Grain Size							
	Sorting							
	Rounding							
	Lithology Description							

Core #7 Interval: 2054.00m to 2081.00m Cut: 27m Recovered: 27m (100%)

Core #7 Interval: 2054.00m to 2081.00m Cut: 27m Recovered: 27m (100%)

Drilling Progress				Lithology Description			
Date	Total Gas (units)	Drill Rate (min/m)	Slide - Rotate	Depth	Core	Oil Shows	Porosity Type
	0 200 400 600	0 5 10 15					
	Gamma Ray (gapi)	Final gamma (gapi)					
	0 50 100 150	0 50 100 150					
Mar 16, 2013				2055 m			
				2060 m			
				2065 m			
				2070 m			
				2075 m			

Expanded Core Log (1:120) Mar 17, 2013
Core #8 Interval: 2081.00m to 2108.00m Cut: 27m Recovered: 27m (100%)

Drilling Progress				Lithology Description									
Date	Total Gas (units)	Drill Rate (min/m)	Gamma Ray (gapi)	Final gamma (gapi)	Slide - Rotate	Depth	Core	Porosity Type	Porosity (%)	Interpreted Lithology	Grain Size	Rounding	
	0 200 400 600	0 5 10 15	0 50 100 150	0 50 100 150							C sand M sand Vt sand Vl sand		
Mar 17, 2013													
						2085 m				F			Sh: aa
													Sh: v dk gy, bcmg less brit, sly mmca, carb, sly slty, dk carb mat, tr unident fos casts, shows aa.
													Sh: v dk gy, modly brit, plty, frm, sly sils, sly mmca, abnt rdd carb spots, shows aa
													Bluefish (TVD: 2084.00) (SSL: -1797.50)
													Sh: aa / dism pyr.
													Sh: v dk gy, plty, sb fis, sly mmca, carb, v sly calcs, show aa.
													Sh: dk gy, plty, fis, sils, incrg calcs, carb, abnt fos casts infilled / pyr, carb mat aa, show aa.
						2090 m							Sh: aa, incrg calcs.
													Sh: v dk gy, modly brit, plty, frm, calcs, sly sils, sly mmca, abnt fos casts occly infilled / pyr, carb mat (pl & fos rmn), no dry flor, v pale faint wh cloudy cut.
													Sh: aa, v calcs.
						2095 m							Ls: lt brn, fragal wkest, rexld ip f m xln sils, unident fos casts (cor) infilled w dns, no shows.
													Hume (TVD: 2093.50) (SSL: -1807.00)
													Ls: lt brn, fltst, micr mtz, rexld ip f - m xln, sly arg, amph, unident fos casts (cor) infilled with cxln fro calc, sly shy ip, dns, no shows.
													Ls: aa
													Ls: lt brn, mdst - wkest, sly arg, unident fos shad, dns, no shows.
													Ls: brn, fltst? aa, shy, (mud comtaminated)
						2100 m							Ls: lt brn, wkest? unident fos shad, sly arg, dns, no shows.
													Ls: brn, wkest, occ unident fos frags, gasts? unident cor casts infilled / calc, sly arg, dns, no vis shows.
						2105 m							Ls: brn, mdst - wkest, occly rexld f xln, mnr

