



Husky Energy

Well Information

Operator:	Husky Oil Operations Limited
Well Name:	Little Bear N-9
Location:	7208547.76N, 616900.36E
UWI:	300N0965001216300
Pool / Field:	/ Slater River
Well License #:	463
Province / State:	NWT
Country:	Canada

Elevations

Reference:	<u>Ground</u>	Ground:	<u>253.5 m</u>
Cut(-) / Fill(+):	<u>+0.5 m</u>	Kelly Bushing:	<u>258.8 m</u>
K.B. to Ground:	<u>5.3 m</u>	Casing Flange:	<u>m</u>

Total Depth

Measurement Type	Measured Depth	True Vertical Depth
Drillers TD (Tally)	1868 m	1867.49 m
Drillers TD (Strap or SLM)	m	m
Loggers TD	1868 m	1867.49 m

Well Co - Ordinates

	Longitude	Latitude	Well Type:
Surface Co-Ordinates:	126 31'27.1900"	64 58'55.7072"	Vertical
			NS: -320.131m South of 6500N12630W
			EW: 48.34m East of 6500N12630W
Int. Casing Co-Ordinates:			NS:
			EW:
Bottom Hole Co-Ordinates:	126 31'27.1900"	64 58'55.7072"	NS: 143.32m South of 6500N1260W
			EW: 48.34m East of 6500N12630W
UTM Surface Co-Ordinates:	Northing: 7208553.33		Easting: 616894.47

Well Summary

Spud Date:	<u>Jan 27, 2012 @ 15:30hrs</u>
TD Date:	<u>Feb 12, 2012 @ 15:30hrs</u>
Rig Release Date:	<u>Feb 16, 2012</u>
Contractor:	<u>Nabours Drilling</u>

Drilling Fluid Summary

Fluid Type	From	To
Gel Chemical	25 m	639 m
Invert	639 m	1868 m

Casing Summary

Type	Hole Size	Casing Size	Landed
Surface	311 mm	244.5 mm	639 m
Production	222 mm	177.8 mm	1868 m

Work Schedule

Contractor	Geologist	Log Interval	Dates Logged
McGrath Resources Consultants	Hans Papenhoven	0 m - 1867 m	Jan 26, 2012 - Feb 16, 2012

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

Whole Bed	Stringer	Nodule	Breccia	Clast	Pebble	Grain	Rock Type
							Igneous - metamorphic
							Limestone - grain supported
							Limestone - mud supported
							Muddy Inclined Heterolithic Strata
							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 Inclined Heterolithic Strata
							Till - glacial
							Volcanic (Tuff)
							Welded Volcanic (Tuff)

Accessories

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

Miscellaneous Grains

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

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

Cement

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

Core Track

	Indicates Cored Interval
	Indicates Lost Core

Test Track

	Indicates Tested Interval
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Rounding Track

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

Fossils (Rock Builders)

	Aggregate grains		Algae - laminations		Algae-non descript		Algae - ootoid
	Algae - skeletal		Amphipora		Amph / no central canal		
	Belemnite		Bioclast-Idiostroma		Bioclastic		Bivalve-Megalodont
	Bivalve		Brachiopod		Brachiopods Arti		Brachiopods Disarti
	Bryozoa		Bryozoan-Digitate Bioclasts				Bryozoan-Fenestrate
	Calcs Red Alg Rhodophytes		Calciphaera		Cephalopod		
	Chaetetes		Charophyte		Coaly or Woody Fragments		
	Coated grain		Conodont		Coral		Coral Aulopodid
	Coral - branching		Coral - Cerioid favositid		Coral - digitate coenites		
	Coral - Encrusting to massise Alveolitid		Coral - Halysitid		Coral - head		
	Coral - colonial		Coral -massive chaetetid		Coral - Rugose Cerioid		
	Coral - Rugose Fasciculate		Coral - solitary		Coral - Syringoporoid		
	Coral - Thamnoporoid		Crinoid		Crinoid-Pelmatozoan		
	Cyanobacterial material		Diatom		Echnoid		
	Echnoid - spine		Epiphyton		Fish Remains		Euryamphipora
	Foraminifera		Foram- benthic		Foram- pelagic		Fossil
	Fos Molds - undiff cylindrical		Fos Molds - undiff sb spher		Fragmental		
	Gastropod		Gast - high spired		Gast - low spired		Graptolite
	Hydrozoa		Intraclast		Lg Codiacean Alg		Mollusc
	Nautiloid - Orthoconic		Oncolite		Oolite		
	Ostracod		Ost - articulated		Pelecypod		Pellet
	Pisolite		Plant Remains		Plant Spores		Radiolarians
	Renalcis		Rudist - undiff		Scaphopod		S Codiacean Alg
	Spicule		Sponge - undiff		Sponge - Algal encrustations		
	Spg - lse spics		Spg - spicr network		Stachyodes		Stromatolite
	Stromatoporoid		Strom - bulbous		Stromatoporoid - hemispherical		
	Strom - irregularly shaped or encrusting		Strom - massive		Strom - tabular		
	Strom - wafer thin		Tentaculites		Thrombolite		Trilobite
	Vertebrates						

Porosity Type Track

	Earthy - low permeability - crystals / grains less than 1 / 16 mm		
	Fenestral - voids from gas bubbles - shrinkage cracks - birdseye texture		
	Intercrystalline - Interfragmental - Intergranular		
	Fracture		Organic - Bridged - Intrafossil
	Interoolitic - Interpelletoidal		Pinpoint - voids less than 1/ 16 mm
	Moldic		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
	Dead oil staining - asphaltic - bitumen - pyrobitumen etc.
	Fluoresces - no visible oil staining

Textures

	Chalky		Earthy		Microcrystalline
	Cryptocrystalline		Lithographic		Slickenside
	Mudstone		Grainstone		Bafflestone
	Wackestone		Floatstone		Bindstone
	Packstone		Rudstone		Framestone

Sedimentary Structures Bedding / Cross Bedding

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

Sedimentary Structures

	Ball and pillow		Bioturb-churned		Bioturbated-slightly		Bioturb-moderate
	Bioturb-mod well		Bioturbated-well		Boudinage		Burrows
	Churned or chaotic bdg (bdg/cross bdg)		Clastic Dike		Clastic sill		
	Desiccation crack		Dish structure		Fault-Large scale		Fault-Small scale
	Flame structure		Flute mark		Geopetal		Groove casts
	Gutter casts		Imbricated clast fabric		Lamr Fenst Fabric		
	Inclined heterolithic strata		Load casts		Mud chips		
	Mud drapes		Minor Cemented horizon		Neptunian dike		
	Pit marks		Pull-a-part		Rand Fenst Fabric		Reactivation Surface
	Rill marks		Rip up clasts		Roots / root trace		Scour and Fill
	Slump structure		Swash marks		Synersis crack		Teepee structure
	Tool marks		Water Escape				

Sedimentary Structures Laminations / Cross Laminations

	Climbing ripple cross-lams		Contorted / Slumped lams		Current ripple cross-lams
	Flaser laminations		High angle cross-lamination		High angle parallel lams
	Lenticular laminations		Low angle cross-lamination		Low angle parallel lams
	Parallel laminations		Trough cross-laminations		Varved laminations
	Wave ripple cross-lams		Wavy laminations		

Sorting Track

	Very poorly sorted - > 10 phi size grade classes
	Poorly sorted - 6-10 phi size grade classes
	Moderately sorted - 3-6 phi size grade classes
	Moderately well sorted - 2-3 phi size grade classes
	Well sorted - < 2 phi size grade classes

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

Lithology Description Husky Little Bear N-9 NEB # 463

Casing Data

Core

Rounding
Sorting

Grain Size
C₁ sand
m₁ sand
n₁ sand
v₁ sand
v₂ sand
C₂ silt
C₃ silt

Interpreted Lithology

Porosity (%)
Oil Shows
Porosity Type

Depth

Lithology

Slide - Rotate

Drilling Progress

Drill Rate (min/m)
MWD Gamma (gapi)

Mud Gas

Pason Gas (%)
C5 (Total Pentanes) (ppm)
C4 (Total Butanes) (ppm)
C3 (Propane) (ppm)
C2 (Ethane) (ppm)
C1 (Methane) (ppm)
TG (Total Gas) (units)

Date

Jan 27, 2012

Drilling with Gel Chemical

DEN: 1010
VIS: 35
pH: 8.0

DS 0° AZ 0°
TVD 28

WOB: 2.5
ROP: 110
SPM: 96
PP: 1000
PQ: 0.98

Depth Correction

Cmt: off wh.

SS: lt - m gy, sily s&p, vf - f gred, slty ip, modly w srt, sbang - sbrdd, py cons, cly cmt, qtz, tr carb, tr dk lit, tr kao, fr - g (8 - 12%) intgran por.

SH: m gy, sbblky, slty & sdy, tr carb, tr dism pyr, tr kao, sft - frm, grd to Arg Sltst & Ss ip.

SS: off wh, lt gy, vf - f gred, slty ip, modly w srt, sbang - sly sbrdd, py cons, cly cmt, qtz, tr carb, tr dk lit, rr kao, fr - g (8 - 12%) intgran por.

SH: lt - m gy, sbblky, slty & sdy, carb, tr kao, tr mica flks, sft.

SH: lt - m gy, sbblky, slty & sdy ip, tr carb, rr dism pyr, tr dism pyr str, sft.

0.1 1000

0.001 10

30 m

40 m

50 m

60 m

6

x

x

x

x

x

x

x

x

mW a

mW a

mW r

mW a

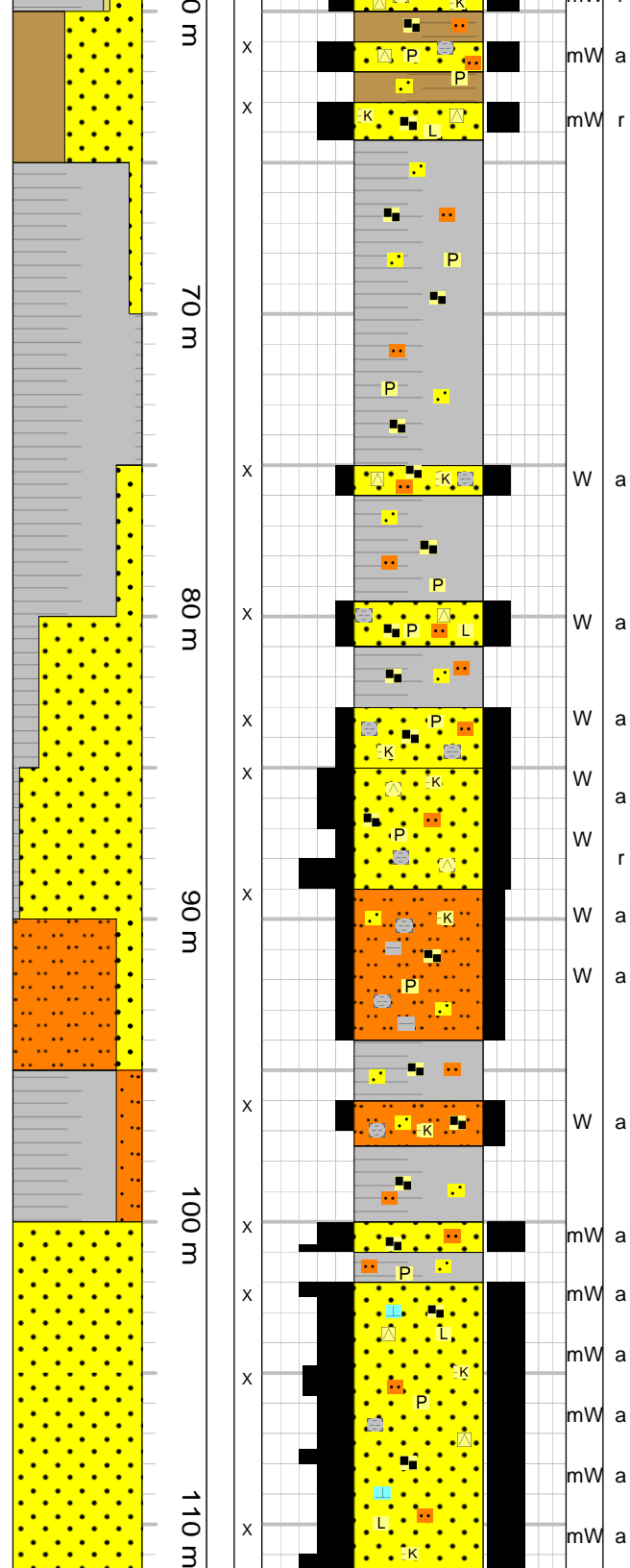
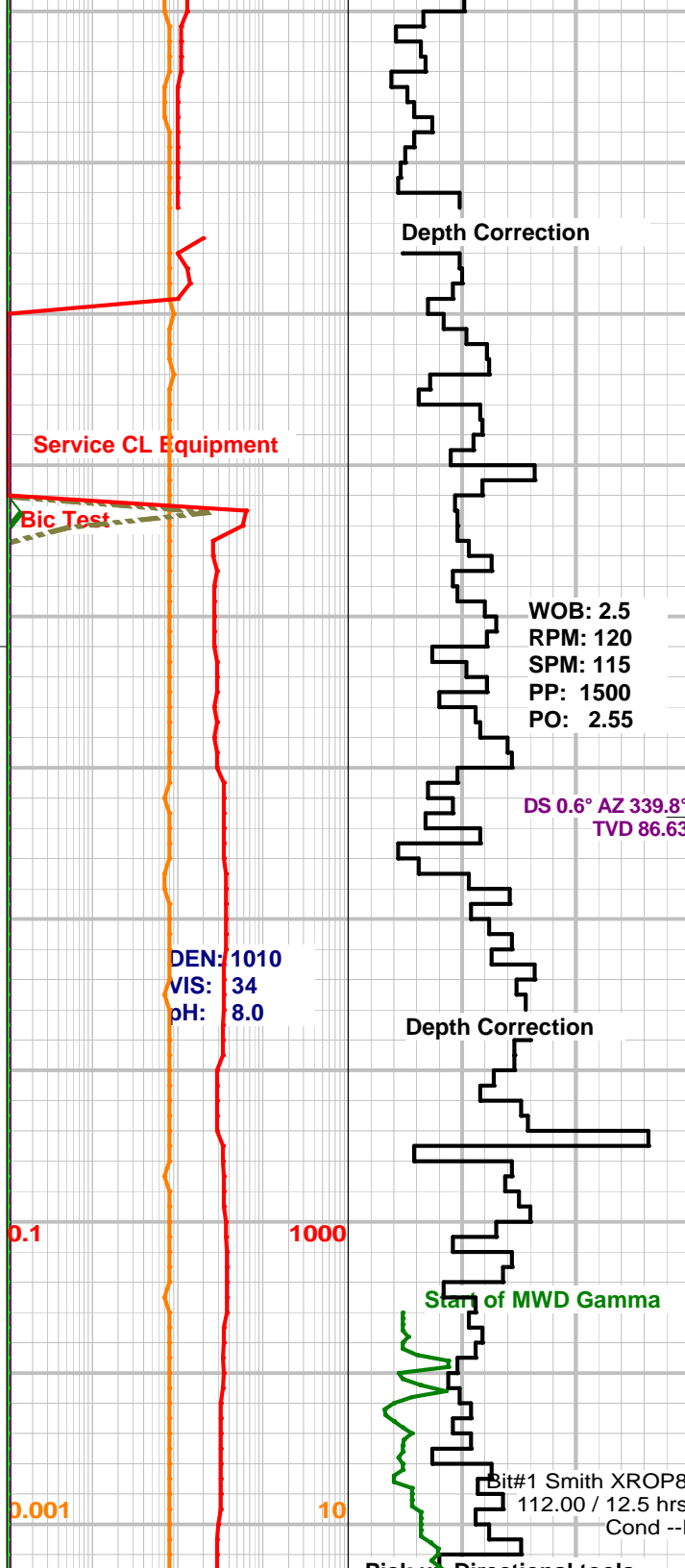
mW a

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Jan 28, 2012



SS: lt gy, lt brn, slt - l f gred, modly w srt, sbang - sbrdd, py - modly cons, sily sils, qtz, occ carb, tr dk lit grs, tr kao, tr dism pyr, rr gn grs, fr - g (5 - 12%) intgran por.

SH: m gy brn, m brn gy, plty - sbbly, sily slty & sdy ip, rr carb, rr dism pyr, sft.

SH: lt - m gy, lt - m brn gy, sbbly, slty & sdy, tr - occ carb, rr dism pyr, tr Slst & Ss strgs, sft.

SH: m brn gy, sbbly, slty & sdy ip, rr carb, bentic ip, rr dism pyr, rr lt cht grs, tr lt gy Ss strgs, sft.

SS: lt gy, lt brn, slt - vf gred, w srt, sbang, py cons, cly cmt, sily sils, qtz, tr kao, tr - occ carb, rr dism pyr, tt - p (0 - 5%) intgran por.

SH: m brn gy, sbbly, slty & sdy ip, rr carb, bentic ip, rr dism pyr, rr lt cht grs, tr lt gy Ss strgs, sft.

SS: lt gy, lt brn, slt - vf gred, w srt, aa.

SS: lt gy, off wh, sily s&p, slt - vf gred, w srt, sbang - sbrdd, py cons, cly cmt, modly cons, sils cmt, qtz, occ carb, tr coal strgs, rr mica, tr dk lit, rr kao, rr dism pyr, p - g (5 - 15%) por.

SLTST: lt - m gy, lt - m brn gy, slt - l vf gred, w srt, sbang, py cons, cly cmt, qtz, carb, arg, rr kao, rr dism pyr, tt - p (0 - 5%) intgran por.

SH: m brn gy, sbbly, slty & sdy ip, rr carb, bentic ip, rr dism pyr, rr lt cht grs, tr lt gy Ss strgs, sft.

SS: off wh, v lt brn, sily s&p, vf - f gred, slty ip, modly w srt, sbang, py cons, tr cly cmt, v sily sils, qtz, occ carb, tr - occ dk lit, tr kao, rr dism pyr, rr calcs grs, g (10 - 15%) intl por.

Pick up Directional tools

NB#2 Smith MI616

DS 0.9° AZ 323.1°
TVD 117.7

WOB: 2.5
RPM: 42 + Motor
SPM: 2 X 85
PP: 3775
PO: 2.04

DEN: 1010
VIS: 31
pH: 9.0

DS 1° AZ 330.3°
TVD 144.8

0.1 1000 0 50 100 150

0.001 10

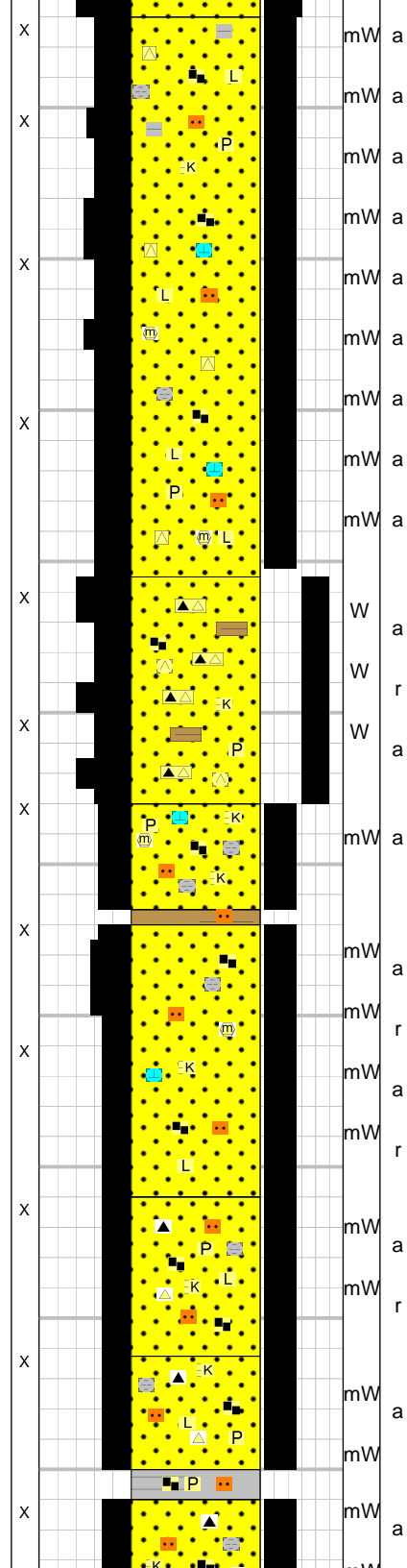
120 m

130 m

140 m

150 m

160 m



SS: v lt brn, off wh, sily s&p, vf - l f gred, slty ip, modly w srt, sbang, py cons, sily calcs ip, sily clyy, qtz, tr - occ carb, occ dk it grs, tr kao, rr dism pyr, v rr gn grs, sily arg, fr - g (8 - 12%) intgran por.

SS: v lt gy brn, off wh, sily s&p, vf - l f gred, slty ip, modly w srt, py cons, sily calcs, sly clyy, qtz, occ carb, tr - occ dk lit, tr dism pyr, rr mica, tr kao, p - fr (8 - 12%) intgran por.

SS: off wh, lt & dk cht grs, m - c gred, w srt, sbang - sbrdd, uncons, tr py cons, sily sils, qtz, lt & dk cht grs, rr dism pyr, tr kao incls, pos grd to Cht Cgl / Sh & Sltst mtx, assumed g (10 - 15%) intgran por.

SS: v lt gy brn, off wh, sily s&p, vf - l f gred, slty ip, modly w srt, sbang, py cons, sily calcs, sly clyy, qtz, occ carb, tr - occ dk lit, r dism pyr, rr mica, tr kao, p - fr (8 - 12%) intgran por.

SH: lt - m gy brn, sbbly, sily slty - slty ip, sily sdy, tr carb, tr dism pyr, sft, grd to arg Slt.

SS: off wh, v lt brn, slt - f gred, modly w srt, sbang - sbrdd, py cons, sily clyy, sily calcs, qtz, occ carb, occ dk lit, tr mica, tr kao, rr gn gs, fr - g (8 - 12%) intgran por.

SS: lt brn, off wh, sily s&p, vf - l f gred, slty ip, modly w srt, sbang - sbrdd, py cons, sily clyy, v rr calc, qtz, tr - occ carb, tr - occ dk cht grs, tr kao, rr dism pyr, fr - g (8 - 12%) intgran por.

SS: lt gy, lt brn, slt - l f gred, modly w srt, sbang - sbrdd, py cons, sily clyy, qtz, tr carb, tr - occ dk lit grs, tr lt & dk cht grs, tr kao, sily arg ip, rr dism pyr, fr - g (8 - 12%) intgran por.

SH: m brn gy, sbbly, slty & sdy, tr carb, tr dism pyr, sft.

Jan 29, 2012

DEN: 1030
VIS: 55
pH: 9.0

WOB: 2.5
RPM: 40 + Motor
SPM: 2 X 85
PP: 4000
PO: 2.09

DS 1.1° AZ 349.1°
TVD 172.58

DS 1.3° AZ 351.7°
TVD 200.3

0.1

1000

0.001

10

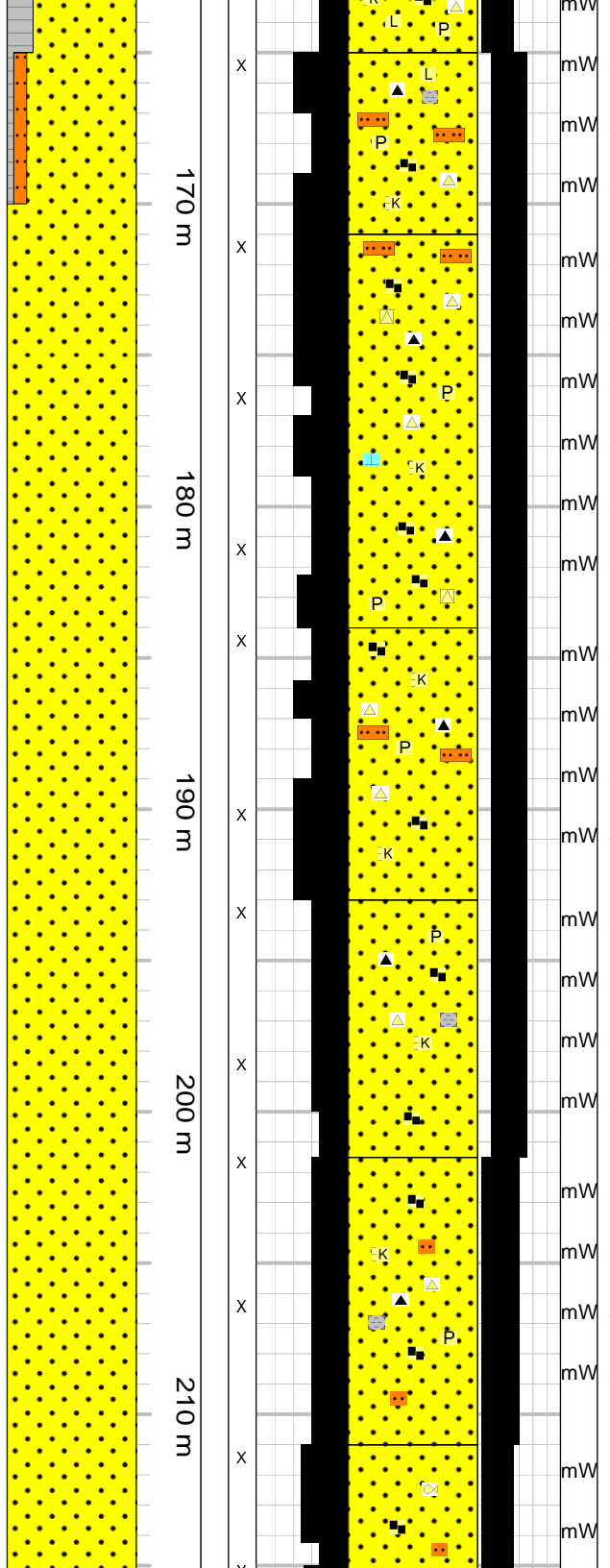
170 m

180 m

190 m

200 m

210 m



mW a
mW a
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mW a
SS: off wh, v lt brn, sily s&p, vf - l m gred, modly w srt, sbang, py cons, sily clyy, qtz, occ carb, tr lt & dk cht grs, rr kao, rr dism pyr, v rr gn grs, fr - g (10 - 15%) intgran por.

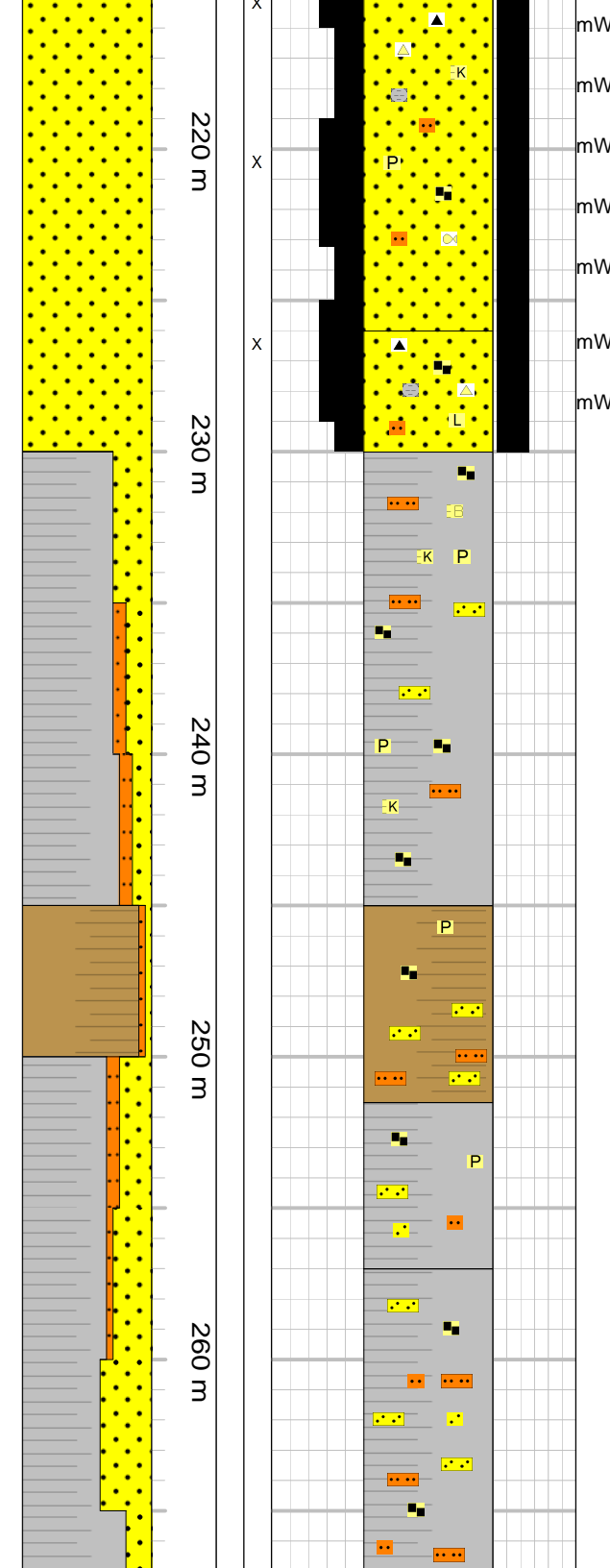
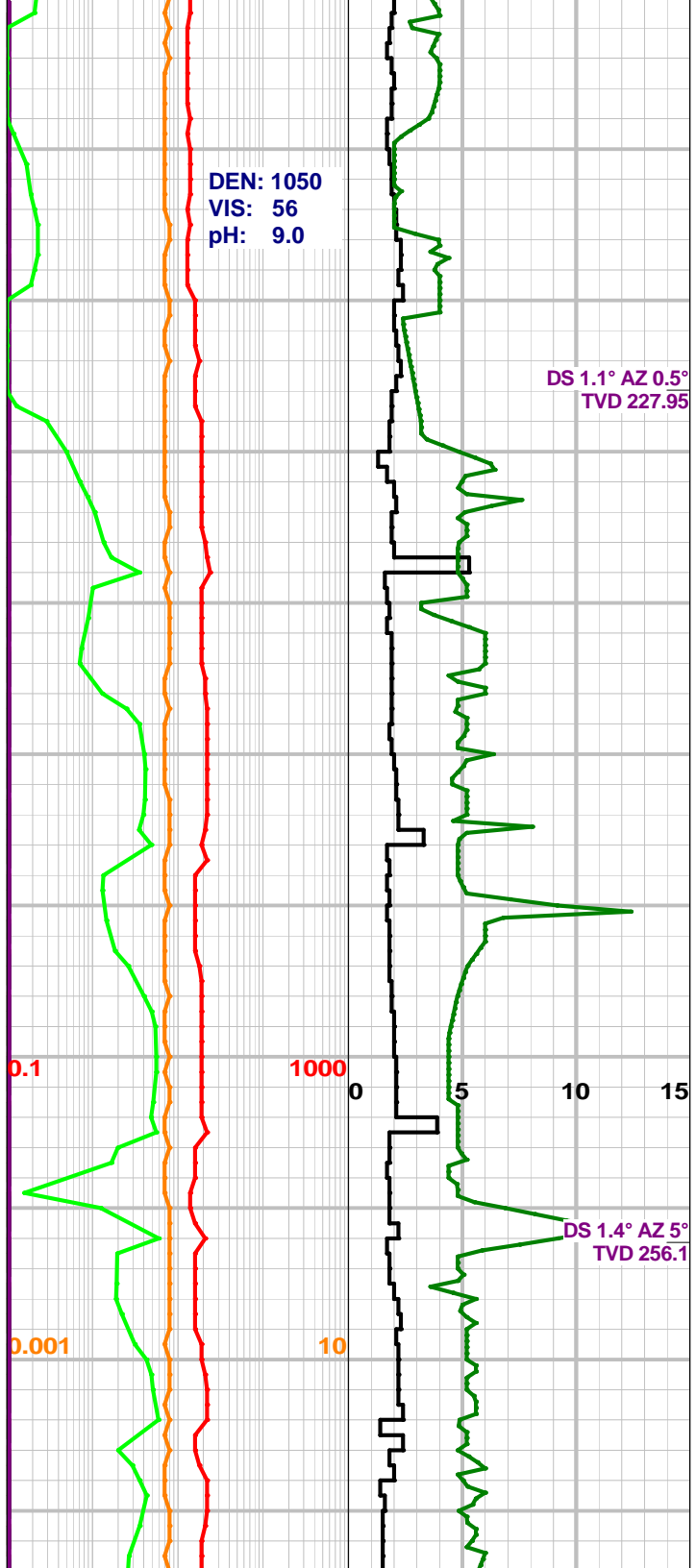
mW a
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SS: off wh, sily s&p, vf - l m gred, modly w srt, sbang, uncon - py cons, qtz, occ carb, occ dk lit grs, tr lt & dk cht grs, tr kao, rr dism pyr, v rr calc grs, tr lt brn Siltst strgs, assumed fr - g (10 - 15%) intgran por.

mW a
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SS: off wh, v lt brn, trnsl, sily s&p, vf - l m gred, modly w srt, sbang, uncon - tr py cons, sily cyy, qtz, tr carb, tr dk lit grs, tr lt & dk cht grs, rr kao, rr dism pyr, assumed fr - g (8 - 12%) intgran por.

mW a
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mW a
mW a
SS: off wh, v lt brn, sily s&p, vf - f gred, sily ip, modly w srt, sbang, py cons, sily clyy, qtz, tr carb, rr pl rmn, tr dk lit grs, rr lt & dk cht grs, rr kao, rr dism pyr, sily arg ip, p - fr (8 - 12%) intgran por.

mW
mW
SS: off wh, trnsl, sily s&p, vf - l f gred, sily ip, modly w srt, sbang, py cons, sily clyy, qtz, tr - occ carb, tr - occ dk lit grs, rr lt & dk cht grs, tr kao, rr dism pyr, rr fish sc, tr Siltst &



On strgs, r' g (0 - 12%) intgran por.

SS: off wh, trnsl, v lt brn, sly s&p, vf - l f gred, slty ip, modly w srt, sbang, py cons, sly clyy, qtz, tr - occ carb, tr - occ dk lit grs, rr lt & dk cht grs, tr kao, rr dism pyr, rr fish sc, sly arg, tr Sltst & Sh strgs, fr - g (8 - 12%) intgran por.

SH: m gy, lt brn, sbbly, rthy, slty & sdy, tr carb, tr kao, grd to arg Sltst ip, sly bentic, sft.

SH: m brn gy, m gy, sbbly, plty ip, rthy, slty & sdy ip, rr mic carb, rr dism pyr, tr Sltst & Ss Inss & strgs, sft - frm.

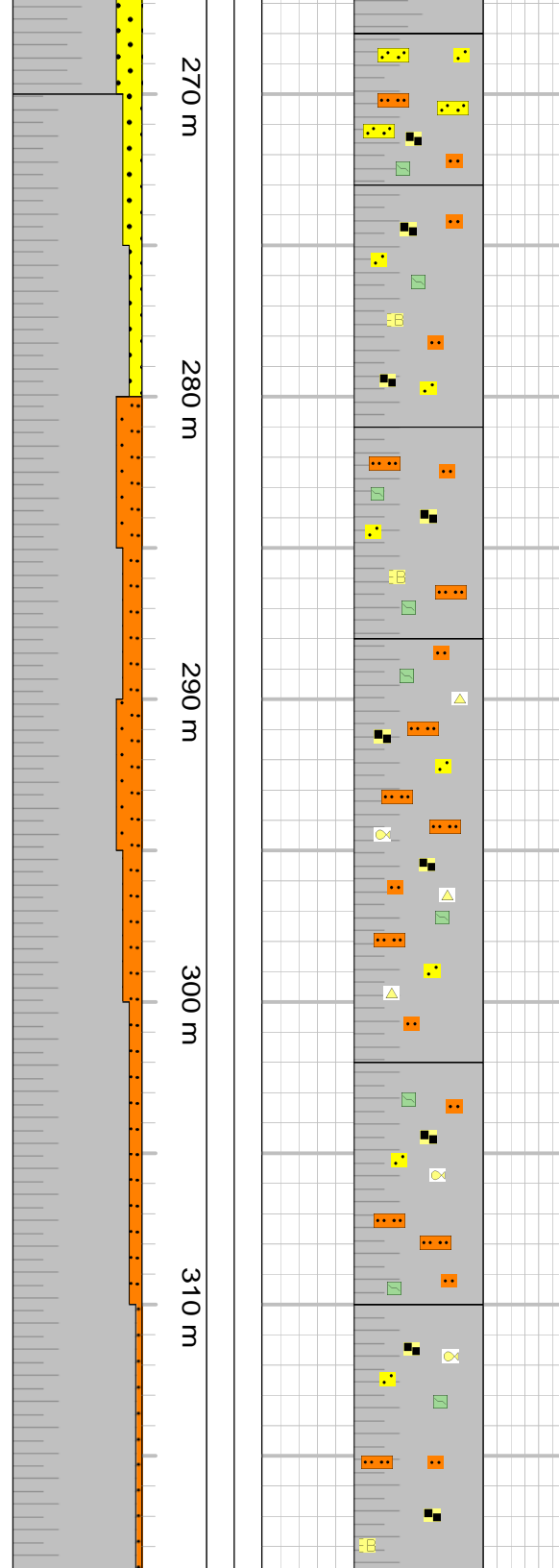
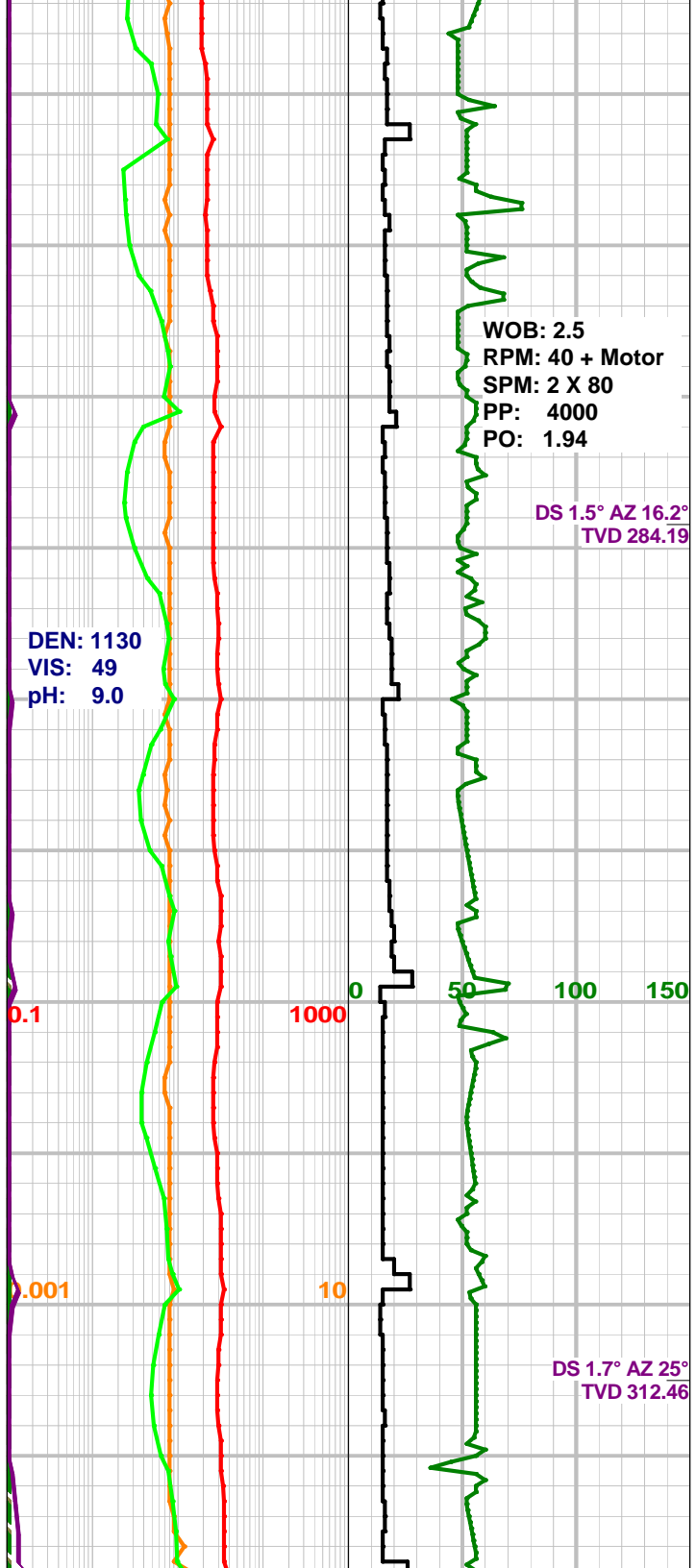
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SH: lt - m gy brn, sbbly, plty ip, rthy, slty & sdy, rr mic carb, rr dism pyr, tr Sltst & Ss strgs & Inss, sft - frm.

SH: m gy, m brn gy, sbbly, rthy, slty & sdy ip, tr mic carb, rr dism pyr, rr kao, tr Sltst & Ss strgs, sft - frm.

SH: m gy, m brn gy, sbbly, rthy, slty & sdy ip, tr mic carb, rr coal flks, rr dism pyr, rr kao, tr Sltst & SS strgs, grd to arg Sltst ip, sft - frm.

SS: lt - m gy, off wh ip, sly s&p, slt - l f gred, modly w srt, sbang, py cons, arg, qtz, tr carb, tr lt & dk cht grs, tr kao, rr coal flks, rr dism pyr, tt - p (0 - 5%) intgran por.



SH: lt - m gy, lt - m brn gy, sbbkly, sily plty, rthy, slty & sdy, sily bentic ip, rr mic carb, rr dism pyr, r lt cht grs, tr lt brn Mdst, sft - frm.

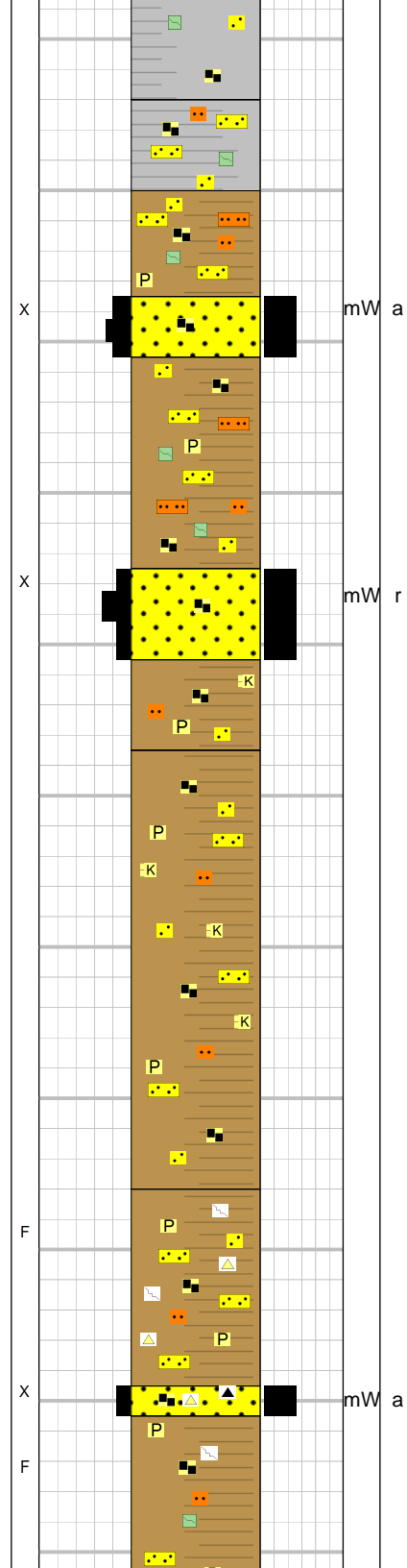
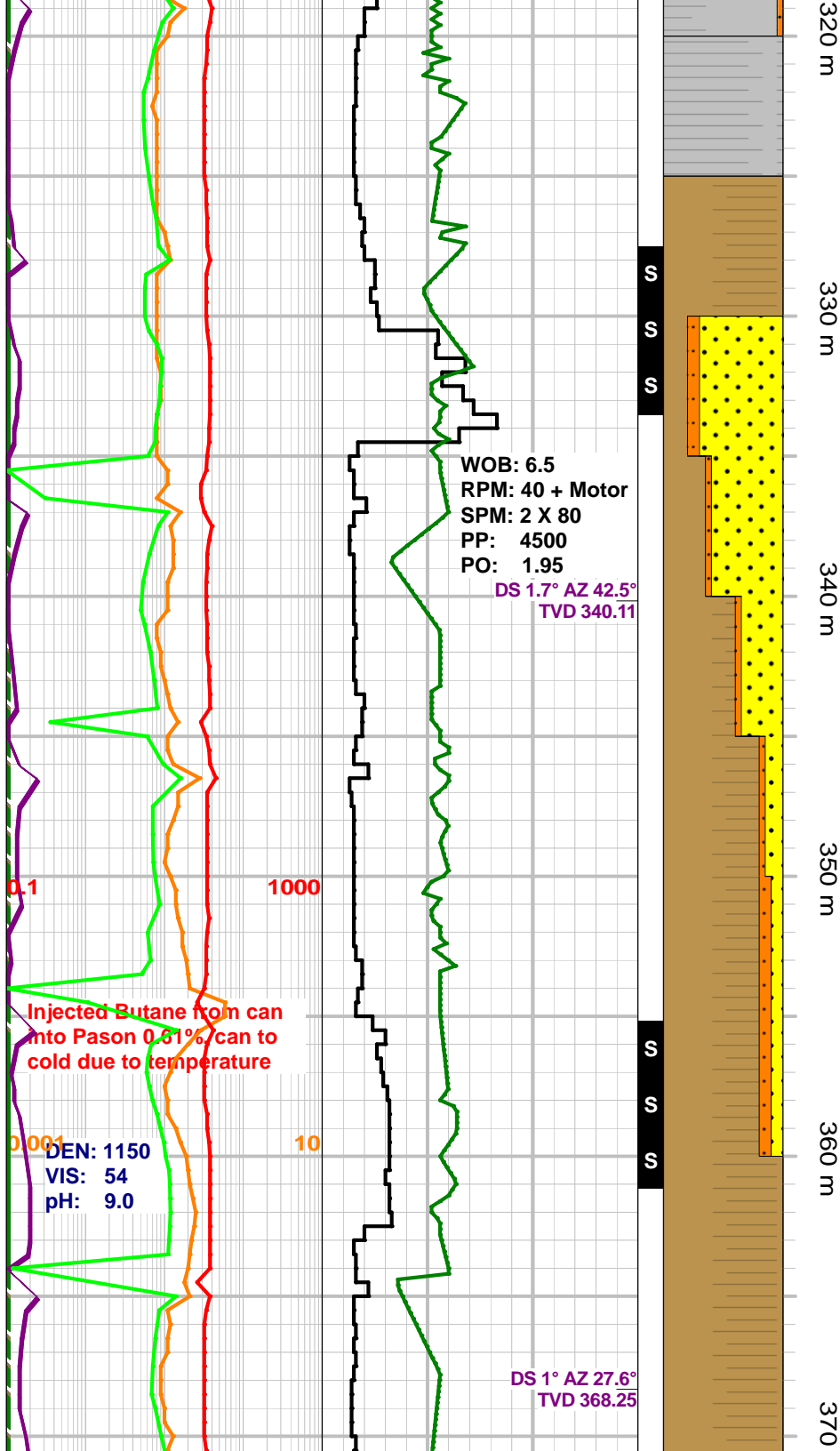
SH: lt brn gy, sbbkly, sily plty, rthy, slty & sdy, sily bentic ip, rr mic carb, rr lt cht grs, tr lt brn Mdst grs, sft - frm.

SH: lt brn gy, sbbkly, sily plty, rthy, slty & sdy, tr dism pyr blebs, tr lt brn Mdst grs, aa.

SLTST: lt brn, sdy, w srt, sbang, py cons, arg, qtz, rr mic carb, rr kao, tr lt & dk cht grs, rr fish sc, grdg to arg Slstst ip, sft - frm.

SH: lt - m gy, sbbkly, rthy, slty & sdy, tr carb - rr coal flks, rr fish sc, rr lt brn Mdst grs, sily bentic, sft - frm.

SH: lt - m gy, sbbkly, rthy, slty & sdy, tr carb - rr coal flks, rr fish sc, rr lt brn Mdst grs, sily bentic, sft - frm.



SH: m - dk gy, m gy brn, sbblky, rthy, slty & sdy, tr cab, rr lt brn Mdst grs, rr pyric blebs, tr - occ Ss strgs, sft - frm.

SH: lt - m gy brn, sbblky, rthy, slty & sdy, tr cab, rr lt brn Mdst grs, rr pyric blebs, tr - occ Ss strgs, sft - frm.

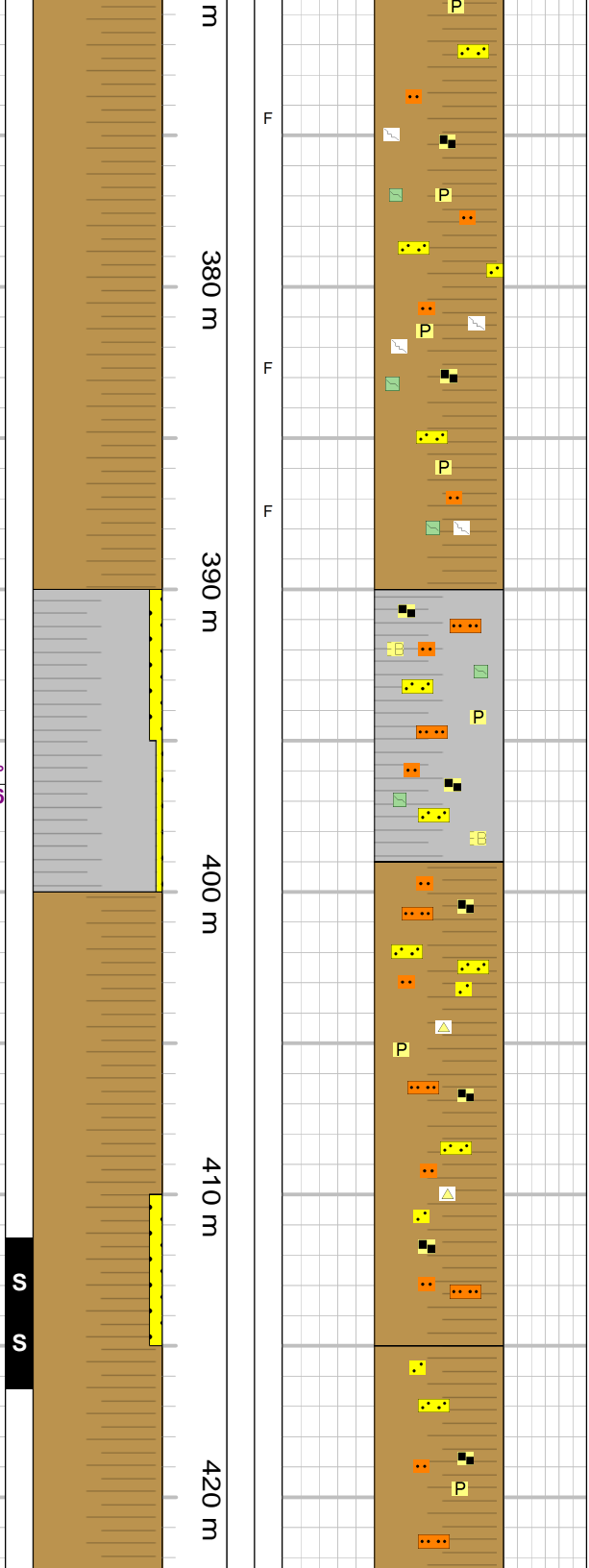
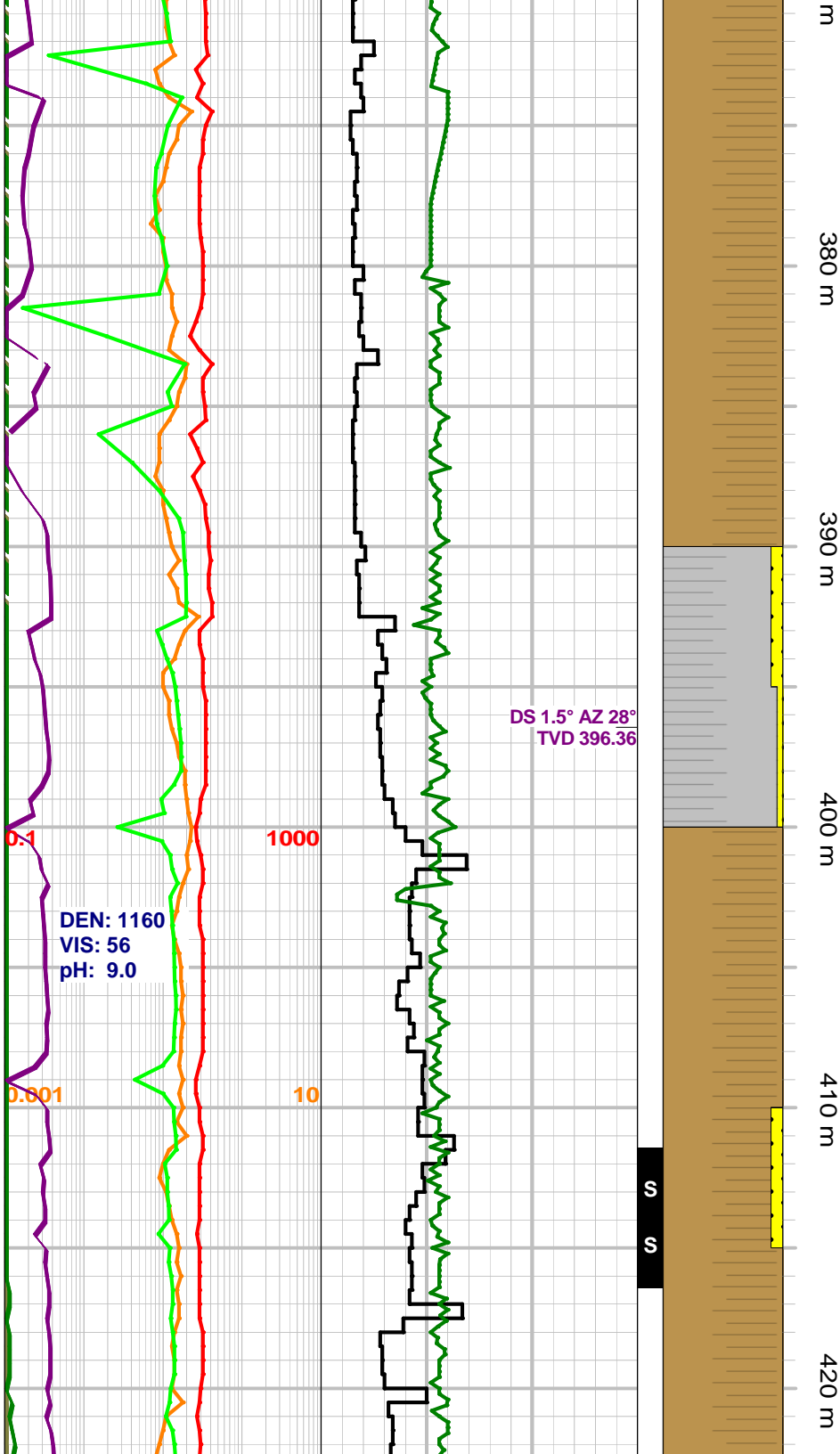
SH: lt - m gy brn, sbblky, rthy, slty & sdy, tr cab, rr lt brn Mdst grs, rr pyric blebs, tr - occ Ss strgs, sft - frm.

SH: lt gy brn, lt brn sbblky, rthy, slty & sdy ip, tr carb - rr coal flks, rr dism pyr, rr kao, sft.

SH: lt gy brn, lt brn sbblky, rthy, slty & sdy ip, tr carb - tr coal flks, rr dism pyr, rr kao, tr Ss strgs, sft.

SH: lt - m brn, lt - m gy brn, sbblky, rthy, slty & sdy, rr mic carb - rr coal flks, tr lt cht grs, tr Mdst grs, rr pyric fld micfracs, rr pyric blebs, tr - occ lt brn Ss strgs, sft.

SH: lt - m brn, lt - m gy brn, sbblky, rthy, slty & sdy, rr mic carb - rr coal flks, tr lt cht grs, tr Mdst grs, rr pyric fld micfracs, rr pyric blebs, tr lt brn Ss strgs, sft.



SH: lt - m brn, lt - m gy brn, sbbly, rthy, slty & sdy, rr mic carb - rr coal flks, tr lt cht grs, tr Mdst grs, rr pyric fld micfracs, rr pyric blebs, tr lt brn Ss strgs, sft.

SH: m gy, m gy brn, sbbly, rthy, slty & sdy, rr mic carb, tr Mdst grs, sly bentic, v rr dism pyr, tr Sltst & Ss strgs, sft.

SH: lt - m brn, lt - m gy brn, rthy, sbbly, rthy, v slty & sdy, rr mic carb, tr lt cht grs, grd to arg Sltst & Ss, sft.

SH: lt - m brn, sbbly, rthy, v slty & sdy, rr mic carb, tr dism pyr blebs, occ Sltst & Ss strgs, sft.

DS 1.4° AZ 44.3°
TVD 424.04

WOB: 6.5
RFM: 40 + Motor
SPM: 2 X 95
PP: 4750
PO: 2.3

Depth Correction
0 50 100 150

DS 1.3° AZ 34.2°
TVD 452.19

0.1 1000

0.001 10

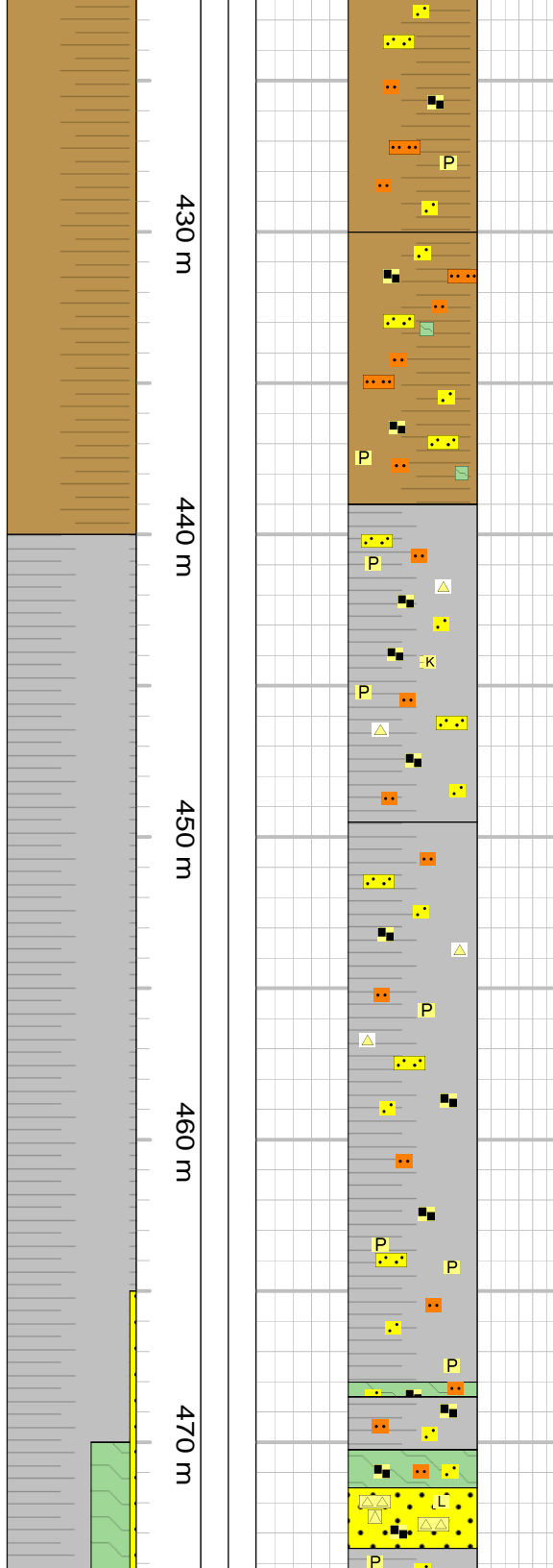
430 m

440 m

450 m

460 m

470 m



SH: lt - m brn, lt - m gy brn, sbblky, rthy, v slty & sdy, rr - tr mic carb, rr dism pyr blebs, rr - tr dism pyr, tr kao, rr lt cht grs, tr Md st, tr lt gy Sltst & Ss strgs, sft.

SH: lt - m brn, lt - m gy brn, bcmg more grey in color, sbblky, rthy, v slty & sdy, rr - tr mic carb, rr dism pyr blebs, rr - tr dism pyr, tr kao, rr lt cht grs, tr Mdst grs, tr lt gy Sltst & Ss strgs, sft.

SH: m brn gy, m gy, rr dk gy, lamd ip, sbblky, rthy, slty & sdy, tr - occ mic carb, tr - occ dism pyr, rr kao, rr lt cht grs, tr lt gy Ss strgs, sft.

SH: m brn gy, m gy, rr dk gy, lamd ip, sbblky, rthy, slty & sdy, tr mic carb, tr dism pyr, rr kao, rr lt cht grs, rr lt gy Ss strgs, sft.

SH: m gy, m gy brn, sbblky, rthy, slty & sdy, rr mic carb, rr dism pyr, tr lt cht grs, tr arg Ss strgs, sft.

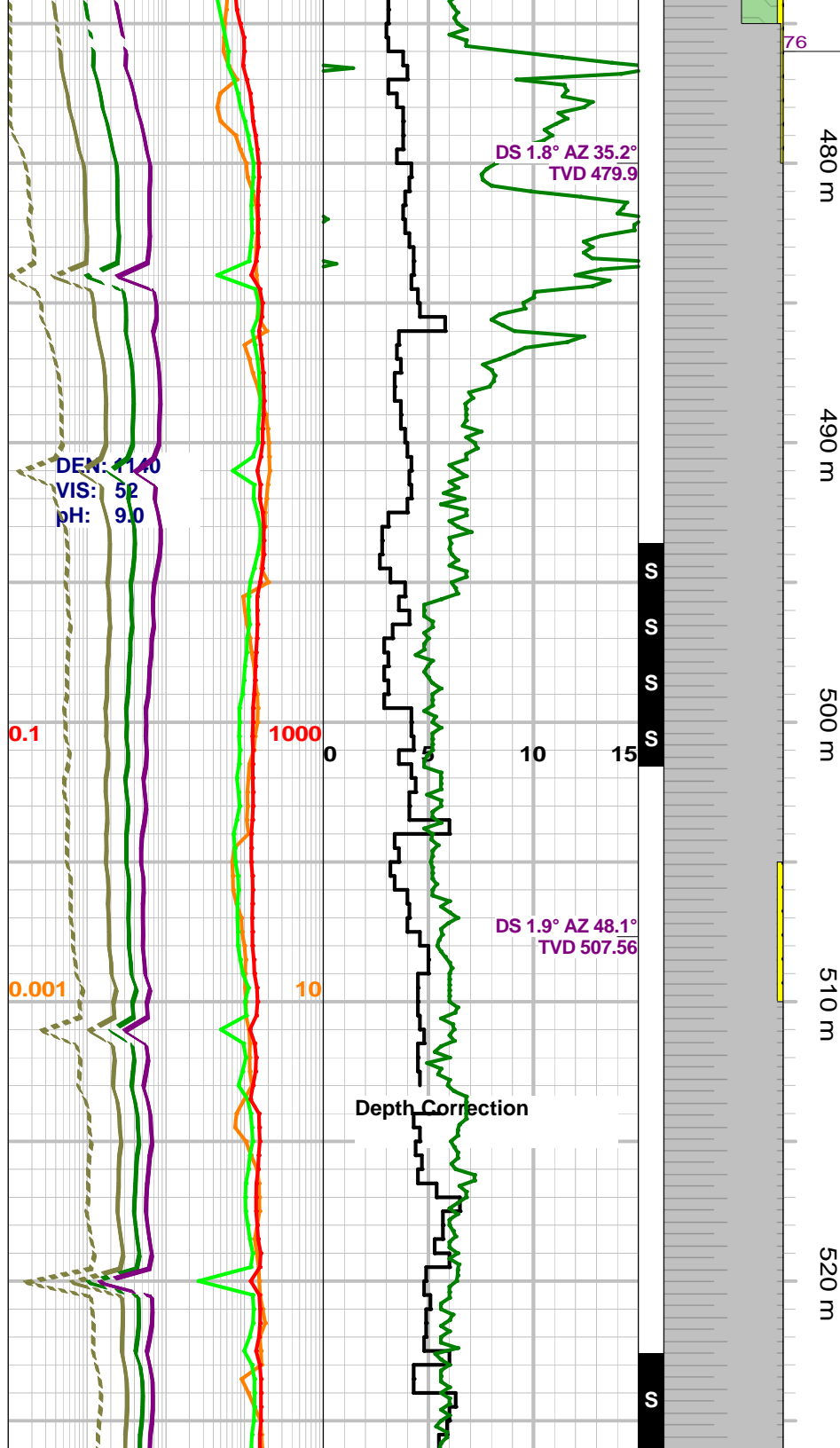
SH: m gy, m gy brn, sbblky, rthy, slty & sdy, rr mic carb, rr dism pyr, tr lt cht grs, tr arg Ss strgs, sft.

SH: m gy, m brn, tr dk gy, sbblky, rthy, slty & sdy, rr mic carb, rr - tr dism pyr, tr pyric strgs, tr lt gy & lt brn Ss strgs, tr lt cht grs, sft.

SH: m gy, m gy brn, sbblky, rthy, slty & sdy, rr mic carb, rr dism pyr, tr lt cht grs, tr arg Ss strgs, sft.

MDST: lt - brn, sbblky, slty slty & sdy, tr - occ mic carb, rr dism pyr, v rr kao, sft.

SS - CHT CGL: lt gy, lt cht grs, f - c gred, sbang - sbrdd, modly srt, uncons, qtz, occ lt



cht grs, tr dism pyr, tr carb, tr dk lit, pos grad to Cht Cgl, assumed 5 - 10% por.

**Slater River
(TVD: 475.90)
(SSL: -217.10)**

SH: m gy, m brn gy, sbbkly, rthy, slty & sdy, tr mic carb, tr dism pyr, sft.

SH: m gy, m brn gy, sbbkly, rthy, slty & sdy, tr mic carb, tr dism pyr, sft.

SH: m gy, m gy brn, sbbkly, rthy, slty & sdy, rr mic carb, rr dism pyr, tr lt cht grs, tr arg Ss strgs, sft.

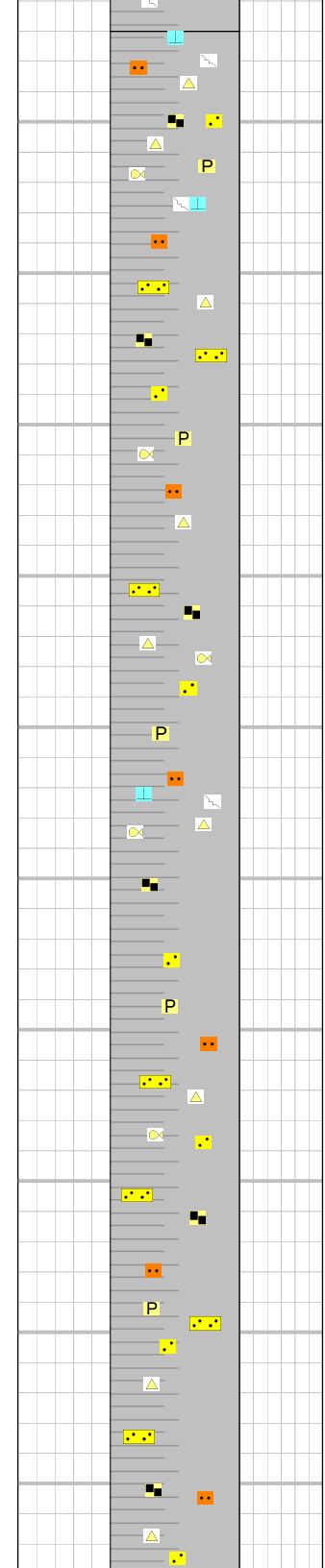
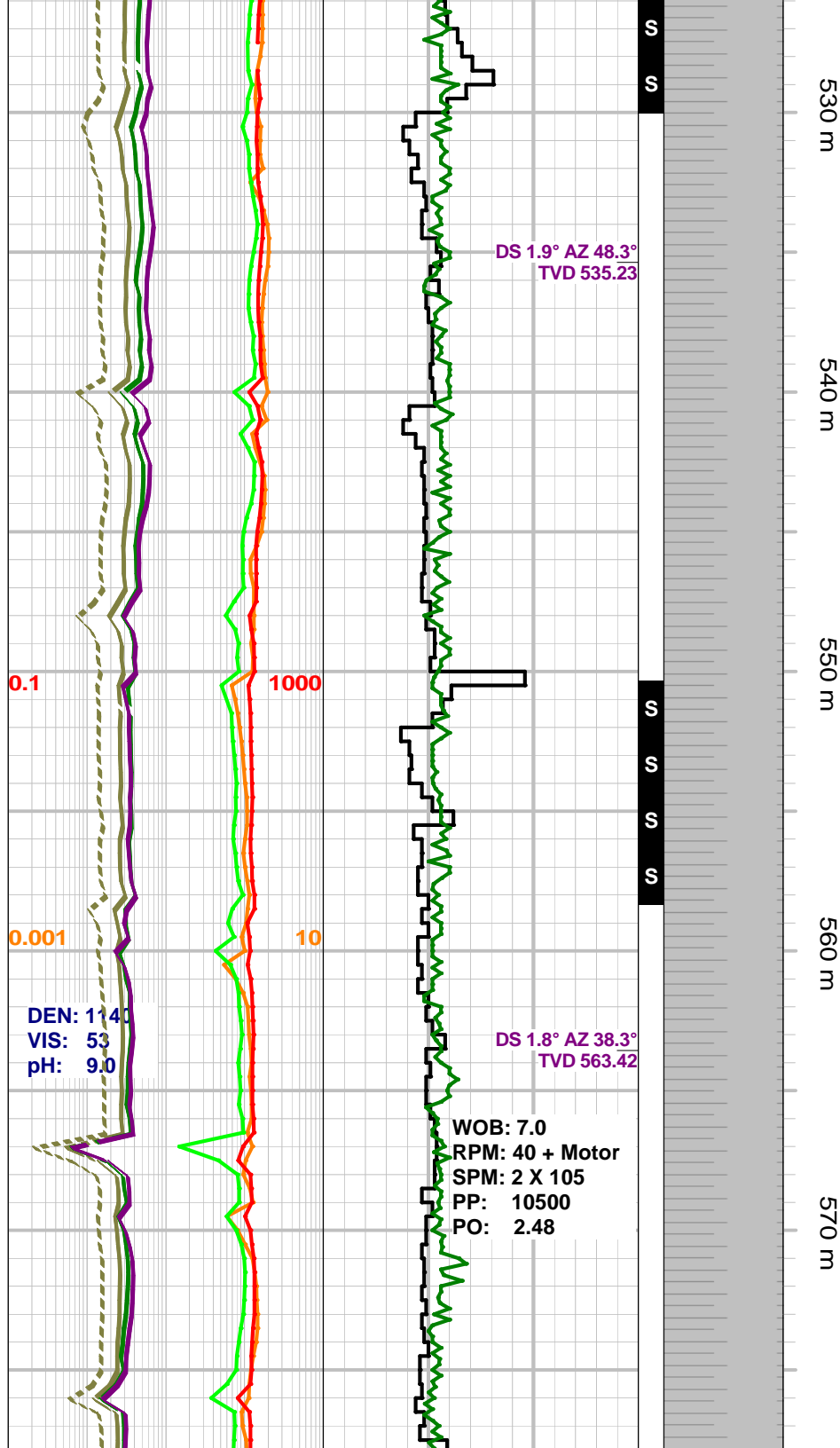
SH: m gy, m gy brn, sbbkly, rthy, slty & sdy, rr mic carb, rr dism pyr, tr arg Ss strgs, sft.

SH: m brn gy, m gy brn, sbbkly, slly sbfis, rthy, slly slty & sdy, tr mic carb - rr coal flks, tr dism pyr, tr lt cht grs, sft.

SH: m brn gy, m gy brn, bcmg more brn in color sbbkly, slly sbfis, aa.

SH: m brn gy - m gy brn, slly sbfis - sbbkly, rthy, tr dk lams, rr mic carb, rr - tr dism pyr, rr lt cht grs, sft.

SH: m brn gy, m gy brn, slly sbfis, sbbkly



SH: m brn gy - m gy brn, sily sbfis - sbbkly, rthy, tr dk lams, rr mic carb, rr - tr dism pyr, rr lt cht grs, v rr calc fldd micfracs, sft.

SH: m brn gy - m gy brn, sily sbfis - sbbkly, rthy, tr dk lams, rr mic carb, rr - tr dism pyr, rr lt cht grs, v rr calc fldd micfracs, rr fish sc, sft.

SH: m brn gy, m gy brn, sbbkly, rthy, slty & sdy, tr mic carb, tr dism pyr, tr lt cht grs, rr lt gy Ss strgs, sft.

SH: m brn gy, m gy, occ m gy brn, sbbkly, rthy, plty ip, slty & sdy, tr mic carb, tr lt cht rs, rr fish sc, rr lt brn Ss strgs, v rr calcs fldd micfracs, sft - frm.

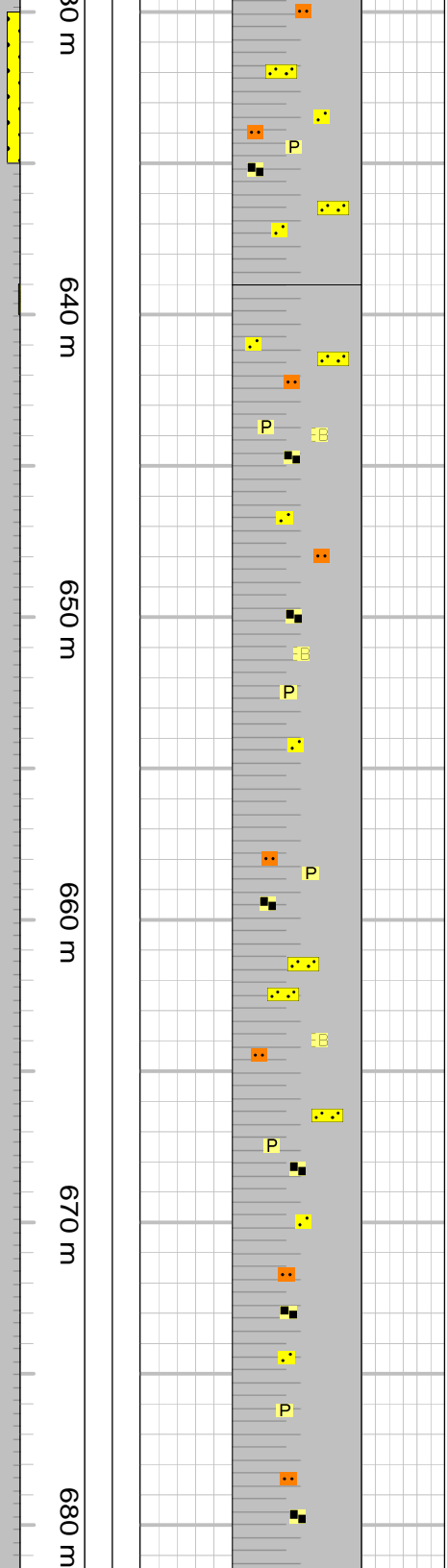
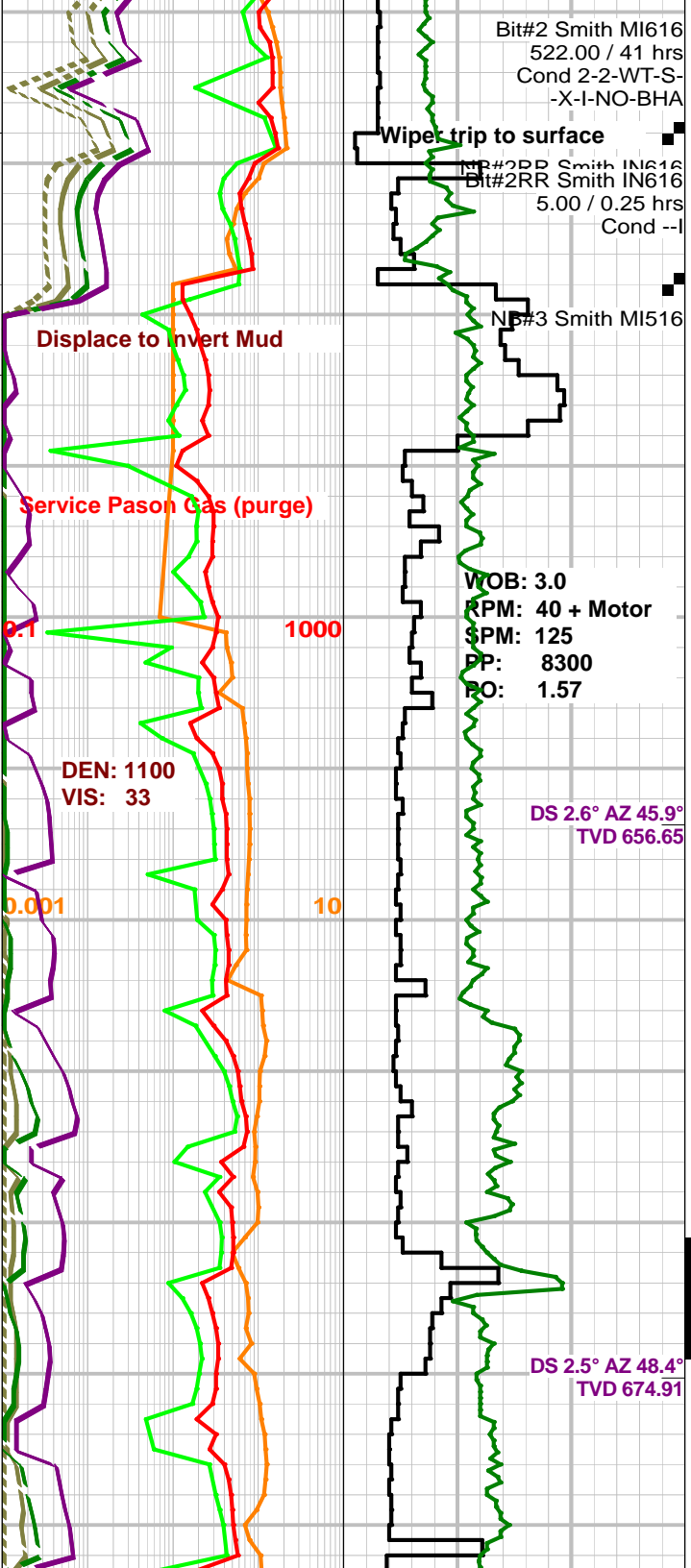
SH: m brn gy, m gy, rthy, sbbkly, sily sbfis, slty & sdy, rr - tr mic carb, rr - tr lt cht grs, rr dism pyr, v rr fish sc, sft - frm.

SH: m brn gy, m gy, rthy, sbbkly, sily sbfis, slty & sdy, rr - tr mic carb, rr - tr lt cht grs, rr dism pyr, v rr fish sc, v rr calc fldd micfracs, sft - frm.

SH: m gy, m brn gy, sbbkly, sily sbfis, rthy, sily slty & sdy - tr slty & sdy, rr mic carb, rr fish sc, tr dism pyr, rr lt cht grs, rr lt brn Ss strgs, sft - frm.

SH: m gy, m brn gy, sbfis - sbbkly, rthy, sily slty & sdy, rr mic carb, rr dism pyr, rr lt cht grs, rr lt gy - lt brn Ss strgs, sft - frm.

Jan 31, 2011 Feb 2 Feb 3, 2012



SH: m gy, m brn gy, sbblky - occ sbfis, rthy, slty & sdy, rr - tr mic carb, rr - tr dism pyr, tr - occ Ss & Slst strgs, sft - frm.

SH: m gy, m brn gy, sbfis - sbblky, slly slty & sdy, rr mic carb, tr dism pyr & pyric strs, bentic, tr lt - m brn Ss strgs, sft.

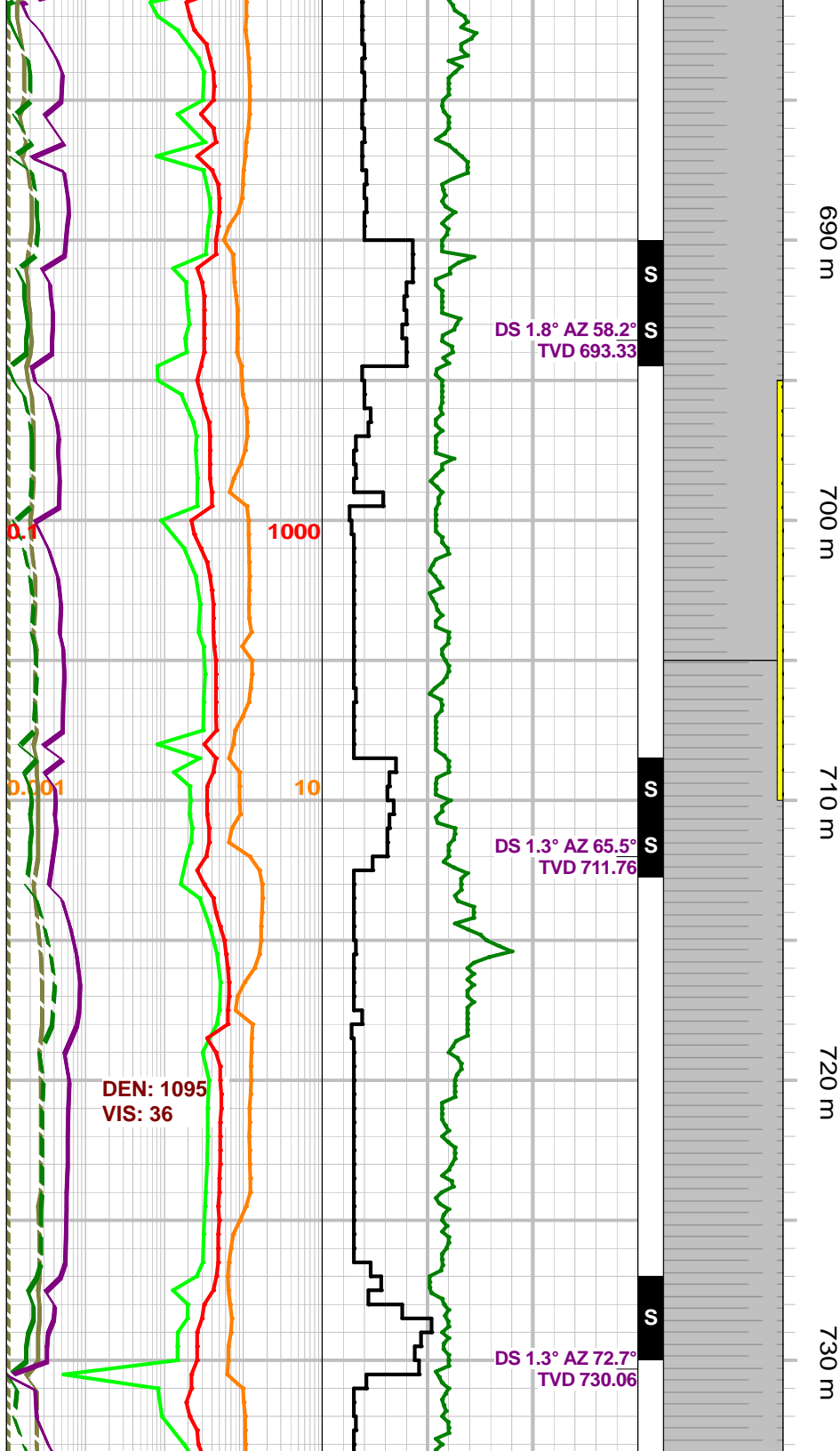
SH: m gy, m brn gy, sbblky, sbfis ip, slly slty & sdy, rr mic carb, rr dism pyr, bentic ip, sft.

SH: m gy, m brn gy, sbfis - sbblky, slly slty & sdy, rr mic carb, rr dism pyr, bentic, sft.

SH: m gy, m brn gy, sbfis - sbblky, slly slty & sdy, rr mic carb, rr dism pyr, bentic, tr lt - m gy Ss strgs, sft.

SH: m gy, m brn gy, sbfis - sbblky, rthy, slly slty & sdy, rr mic carb, v rr coal strs, rr dism pyr, bentic, sft.

Sfc
4.5m
639



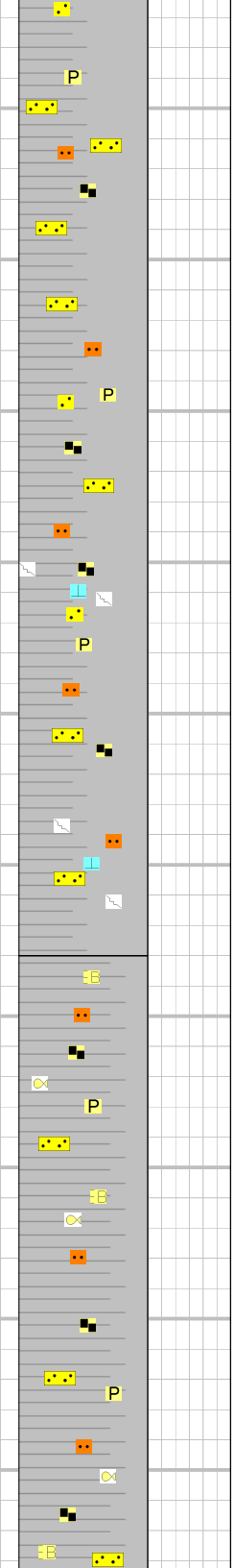
690 m

700 m

710 m

720 m

730 m



SH: m gy, m brn gy, sbfis - sblky, rthy, slly slty & sdy, rr mic carb, v rr coal str, rr dism pyr, bentic, tr lt gy Ss strgs, sft.

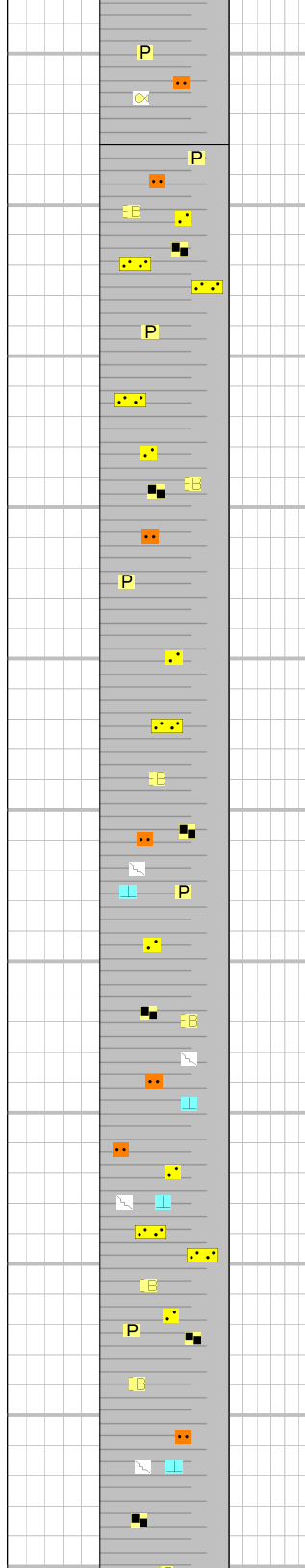
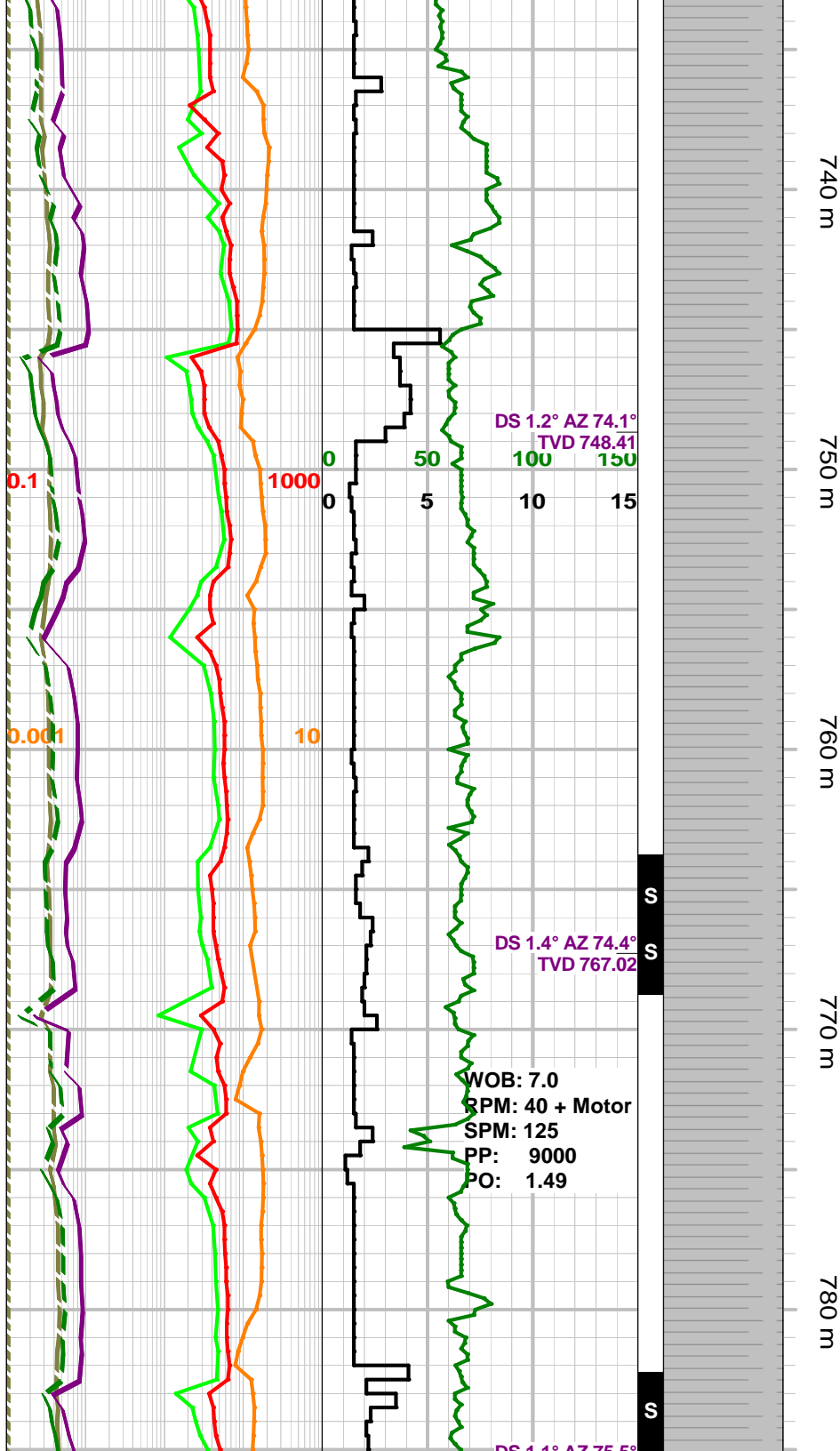
SH: m gy, m brn gy, sbfis - sblky, rthy, slly slty & sdy, rr mic carb, v rr coal str, rr dism pyr, bentic, rr lt gy Ss strgs, sft.

SH: m gy, m brn gy, sbfis- sblky, rthy, slly slty & sdy, rr mic carb, v rr coal str, rr dism pyr, bentic, rr wh calc fld micfracs, rr lt gy Ss strgs, sft.

SH: m - dk gy, m brn gy, sbfis - sblky, rthy, slly slty & sdy, rr mic carb, rr dism pyr, tr fish sc, bentic, rr Ss str, sft.

SH: m - dk gy, m brn gy, sbfis - sblky, rthy, slly slty & sdy, rr mic carb, rr dism pyr, tr fish sc, bentic, rr Ss str, sft.

SH: m - dk gy, m brn gy, sbfis - sblky, rthy, slty & sdy, rr mic carb - rr coal flks, tr dism pyr, rr fish sc, bentic ip, tr lt gy Ss strgs, sft.



SH: m - dk gy, m brn gy, sbfis - sbblky, slty & ss ip, rr mic carb - rr coal flks, tr fish sc, bentic ip, tr Ss lnss & strgs, sft.

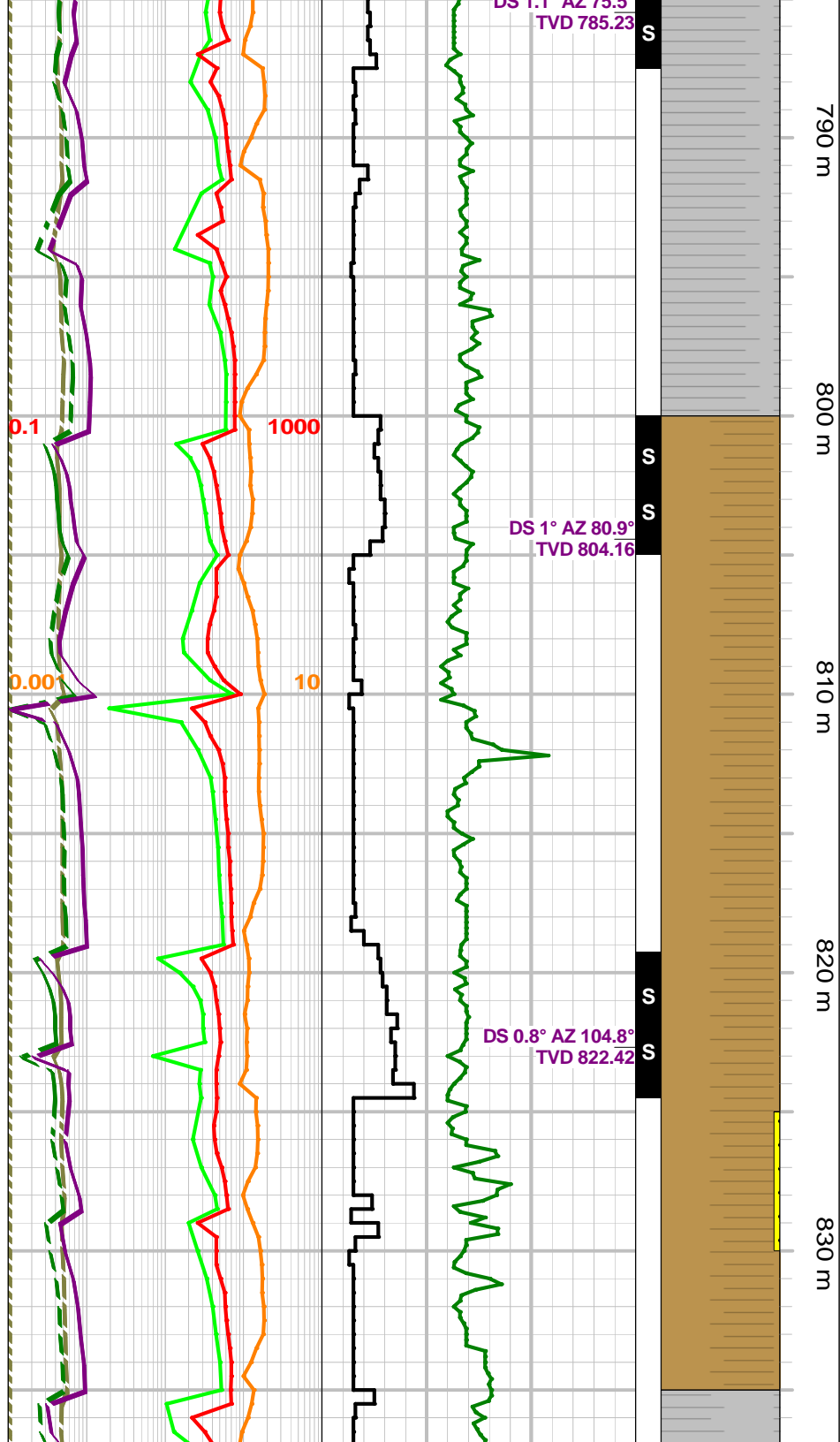
SH: m - dk gy, m brn gy, sbfis - sbblky, rthy, slty & sdy, tr mic carb - rr coal flks, tr dic dism pyr, bentic, tr fish sc, tr Ss strgs, sft.

SH: m - dk gy, m brn gy, sbfis - sbblky, rthy, slty & ss ip, rr mic carb, tr coal strgs, bentic ip, rr Ss lnss & strgs, sft.

SH: m - dk gy, sbfis - sbblky, slly slty & sdy, rthy, rr mic carb, rr - tr coal flks, tr dism pyr, rr fish sc, bentic ip, rr calcs fldd micfracs, sft.

SH: m - dk gy, sbfis - sbblky, rthy, slly slty & sdy, rthy, rr mic carb, rr - tr coal flks, tr dism pyr, rr fish sc, bentic ip, tr calcs fldd micfracs, sft.

SH: m - dk gy, sbfis - sbblky, rthy, slly slty & sdy, rr mic carb - tr coal strgs, tr dism pyr, rr Ss strgs, bentic ip, sft.



SH: m - dk gy, sbfis - sbblky, rthy, slly slty & sdy, rr mic carb - tr coal strrs, tr dism pyr, tr calc fldd micfracs, rr Ss strgs, bentic ip, sft.

SH: m - dk gy brn, sbfis - sbblky, slly lamd, rthy, slly slty & sdy, rr mic carb - tr coal flks, tr dism pyr, rr calcs fldd micfracs, sft - frm.

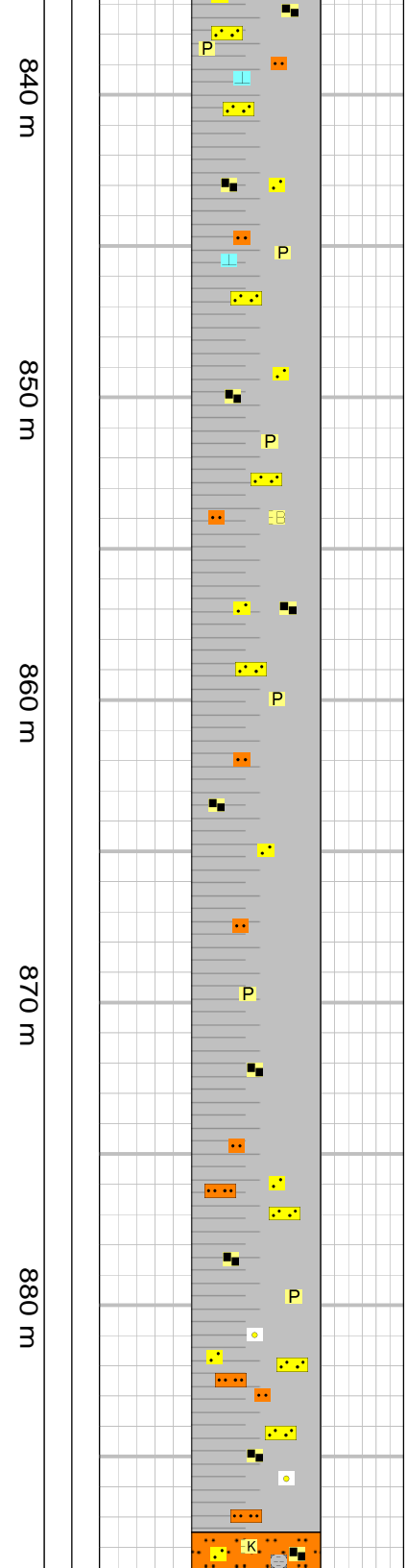
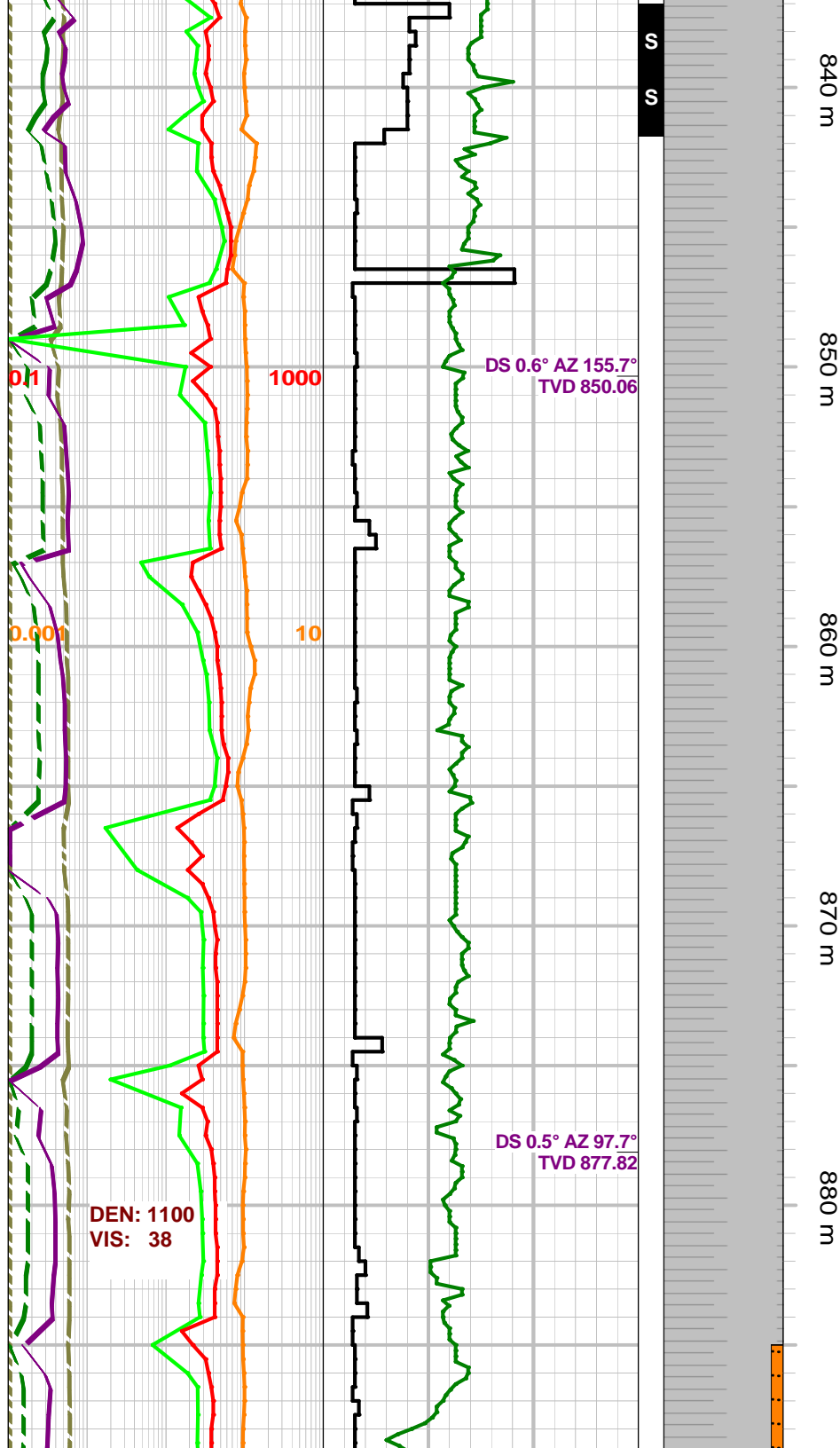
SH: m - dk gy brn, sbfis - sbblky, slly lamd, rthy, slly slty & sdy, rr mic carb - tr coal flks, tr dism pyr, tr calcs fldd micfracs, sft - frm.

SH: m - dk gy brn, sbfis - sbblky, slly lamd, rthy, slly slty & sdy, rr mic carb - tr coal flks, tr dism pyr, rr calcs fldd micfracs, tr lse calc xls, sft - frm.

SH: m - dk gy brn, sbfis - sbblky, rthy, slly slty & sdy, rr mic carb, rr tr dism pyr, slly bentic, tr calcs fldd micfracs, tr lse calc xls, sft - frm,

SH: m - dk gy brn, m - dk gy, sbfis - sbblky, rthy, slly slty & sdy, rr mic carb, rr - tr dism pyr, tr Ss lns & strgs, sft - frm.

SS: lt gy, lt brn, slt - f gred, modly srt, sbang - sbrdd, py cons, slly calcs, cly cmt, qtz, tr - occ dism pyr, occ pyric cmt, rr kao, occ mica flks, tr carb, tt.



SH: m brn gy, m gy brn, sbfis - sblky, rthy, sly slty - slty & sdy ip, rr mic carb, tr dism pyr, tr - occ lt calcs xls, tr Ss Inss, aa, sft - frm.

SH: m brn gy, m gy brn, sbfis - sblky, rthy, sly slty - slty & sdy ip, rr mic carb, tr dism pyr, tr calcs xls, rr Ss Inss, sft - frm.

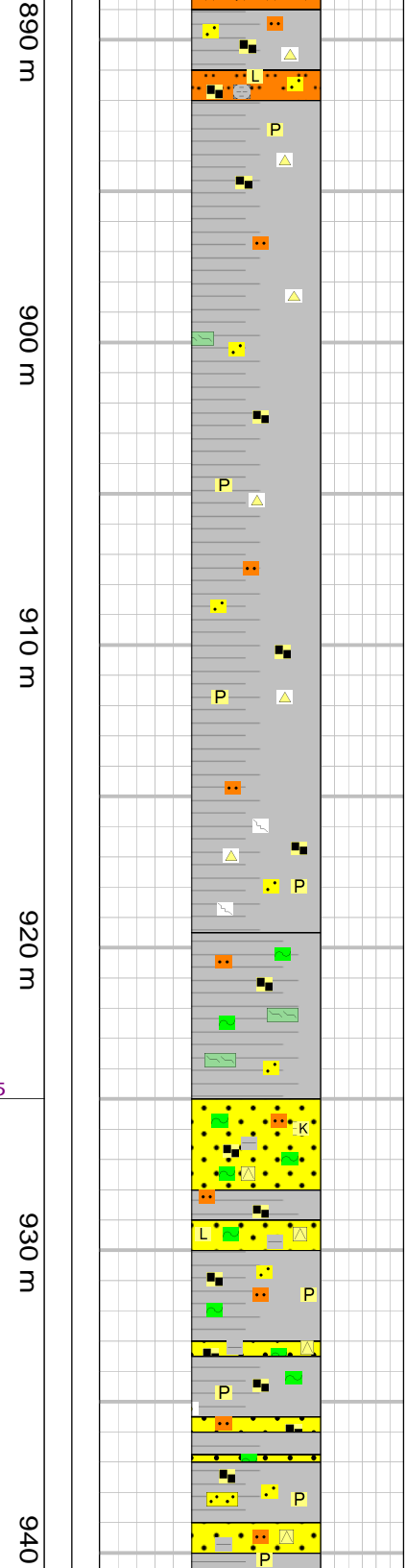
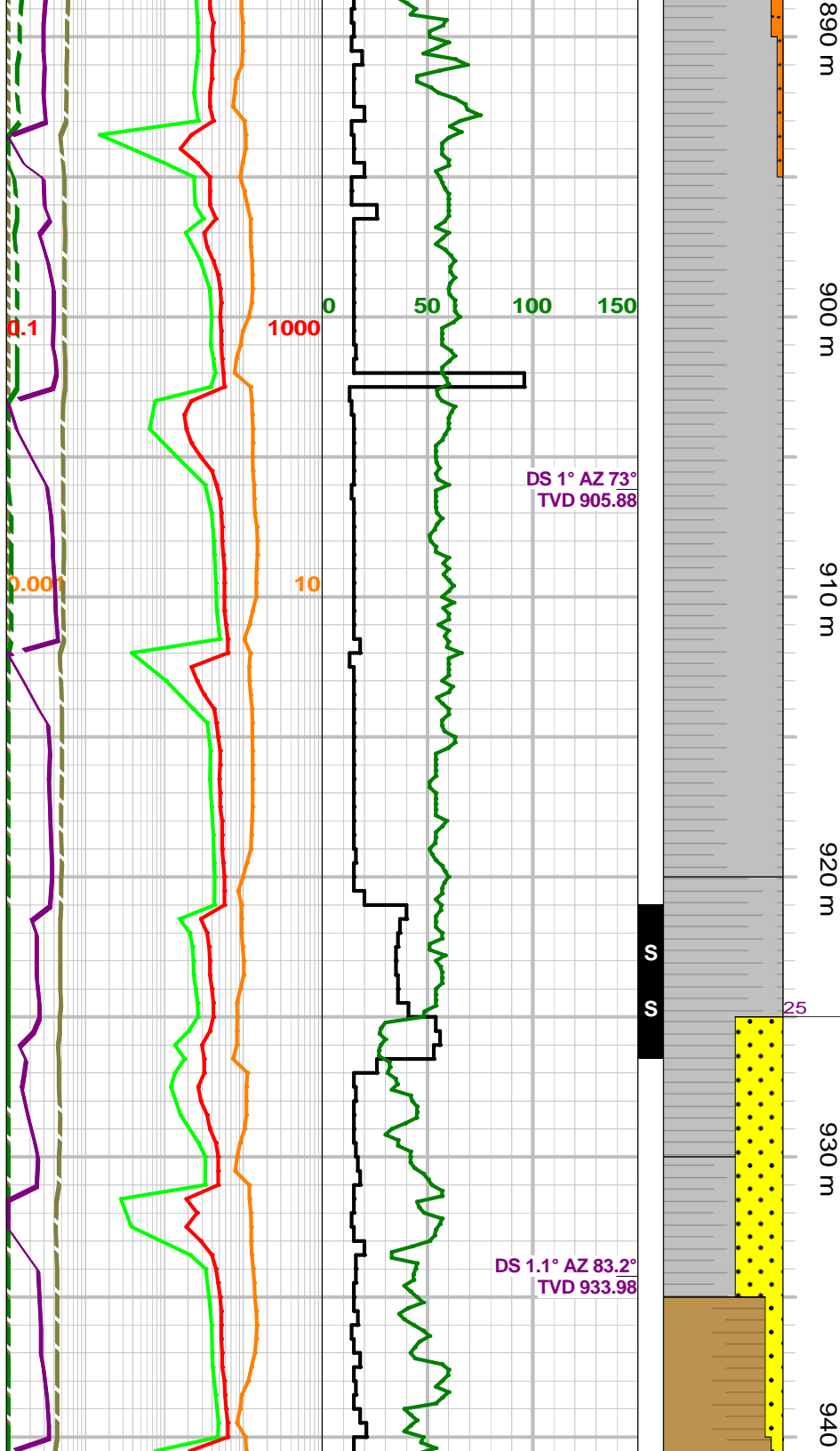
SH: m gy, m brn gy, sbfis - sblky, sly slty & sdy ip, tr dism pyr & pyric blebs, rr Ss strgs, sly bentic, rr lse calc xls, sft.

SH: m gy, m brn gy, sbfis - sblky, rthy, sly slty & sdy, rr mic carb, rr dism pyr, sft - fr.

SH: m gy, m brn gy, sbfis - sblky, rthy, sly slty & sdy, v rr mic carb, v rr dism pyr, rr lt gy Ss & Slst strgs, sft.

SH: m gy, m brn gy, sbfis - sblky, rthy, sly slty & sdy, v rr mic carb, v rr dism pyr & pyric blebs, tr lse calc xls & qtz sd grs, rr lt gy Ss & Slst strgs, sft.

SLTST: lt gy, slt - l vf gred, w srt, sbang -



dk lit grs, rr lt gn grs, tt.
SH: m gy, m brn gy, sbfis - sbbly, rthy, slty & sdy ip, rr - tr mic carb, rr dism pyr, rr lt cht grs, sft - frm.

SH: m gy, m brn gy, sbfis - sbbly, rthy, slty & sdy ip, rr - tr mic carb, rr dism pyr, rr lt cht grs, sft - frm.

SH: m gy, m brn gy, sbfis - sbbly, rthy, slly slty & sdy, rr - tr mic carb, rr - tr dism pyr, rr lt cht grs, sft.

SH: m gy, m brn gy, sbfis - sbbly, rthy, slly slty & sdy, rr - tr mic carb, rr - tr dism pyr, rr lt cht grs, tr lse calc xls, rr calcs fld micfracs, v rr pyric blebs, sft.

SH: m - dk gy, m brn gy, sbfis - sbbly, rthy, slly slty & sdy, rr mic carb, tr - occ glau grs, tr lse sd grs, tr glauc Mdst Inss, sft.

Lower Cretaceous
 (TVD: 924.72)
 (SSL: -665.92)

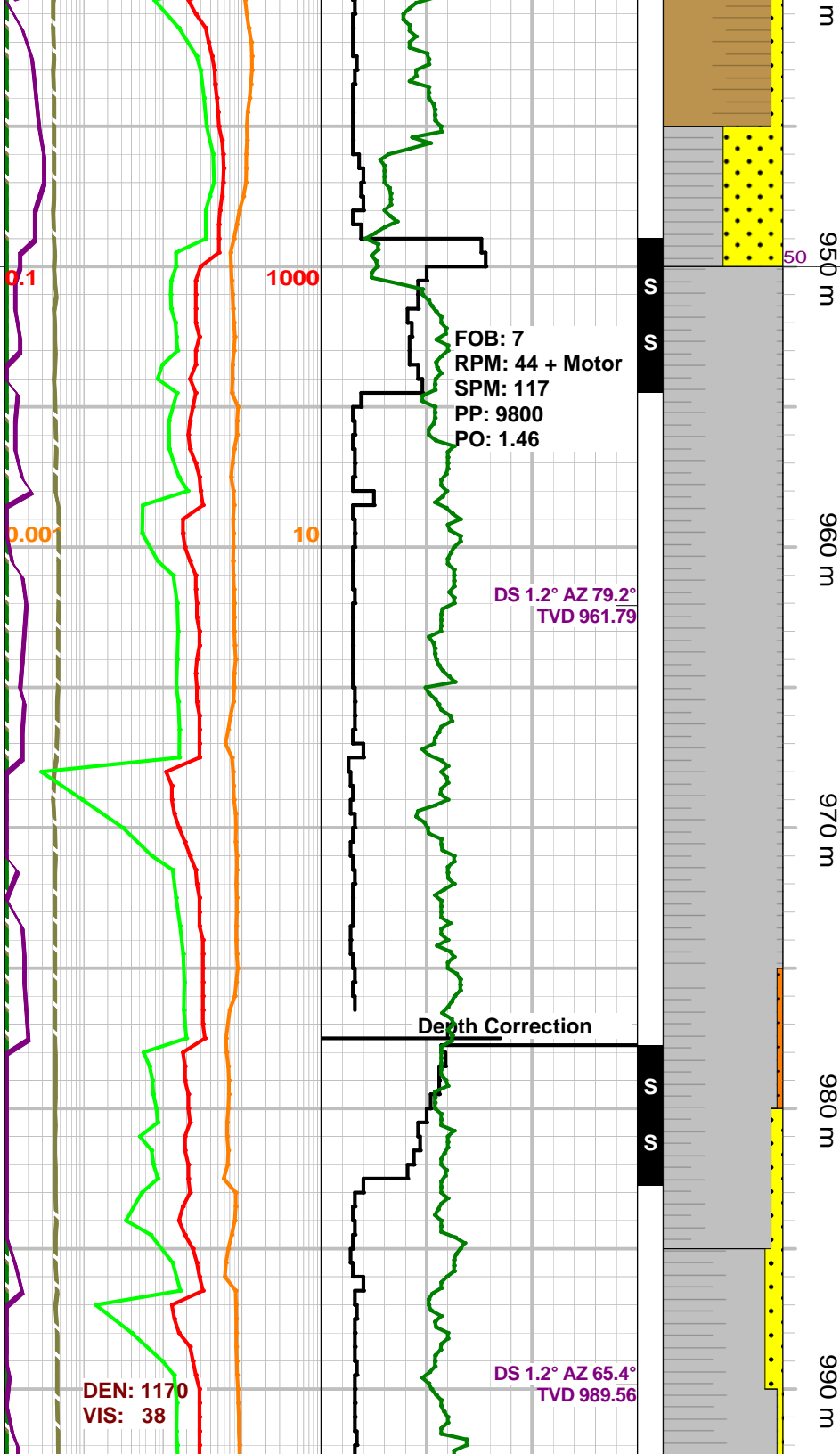
SS: lt - m gy, gnsh ip, slt - l f gred, modly w srt, sbang - sbrdd, slly sils, qtz, occ - com glau grs, arg, rr mic carb, tr kao, tr dk lit, rr dism pyr, rr calcs grs, tt - p (0 - 5%) por.

SH: m gy, lt - m brn gy, sbbly, slty & sdy, rr mic carb, rr dism pyr, rr glau grs, tr lse sd grs, rr pyric strgs, sft.

SS: lt - m brn gy, slt - vf gred, w srt, sbang - sbrdd, py - modly cons, slly arg, qtz, rr - tr glau grs, tr kao, clyy ip, tt.

SH: m gy brn, m brn gy, sbbly, sbfis ip, rthy, sdy, rr mic carb, rr - tr dism pyr, tr - occ Ss strgs, rr pyric blebs, sft.

Feb 4, 2012



FOB: 7
RPM: 44 + Motor
SPM: 117
PP: 9800
PO: 1.46

DS 1.2° AZ 79.2°
TVD 961.79

DS 1.2° AZ 65.4°
TVD 989.56

SS: lt - m brn gy, slt - vf gred, w srt, sbang - sbrdd, py - modly cons, sly arg, qtz, tr glau grs, tr kao, cly ip, tt.

SS: lt gy, off wh, sly s&p, vf - m gred, sbang - sbrdd, uncon - py cons, cly cmt, qtz, tr carb, tr dk lit, rr kao, v rr dism pyr, rr - tr glau, rr - tr gn grs, tt - p (0 - 5% intgran por).

Base Cretaceous
(TVD: 949.71)
(SSL: -690.91)

SH: lt - m gy, lt gn gy, sbfis - sbbly, sly slty sdy, rr mic carb, rr lse sd grs, rr dism pyr, tr lt gn gy Ss strgs, sft.

SH: m gy brn, m brn gy, sbbly, sbfis ip, rthy, sdy, rr mic carb, rr - tr dism pyr, tr - occ lt gy, lt g gy Ss strgs, sft.

SH: m gy brn, m brn gy, sbbly, sbfis ip, rthy, sdy, rr mic carb, rr - tr dism pyr, tr - occ lt gy, lt gn gy Ss strgs, sft.

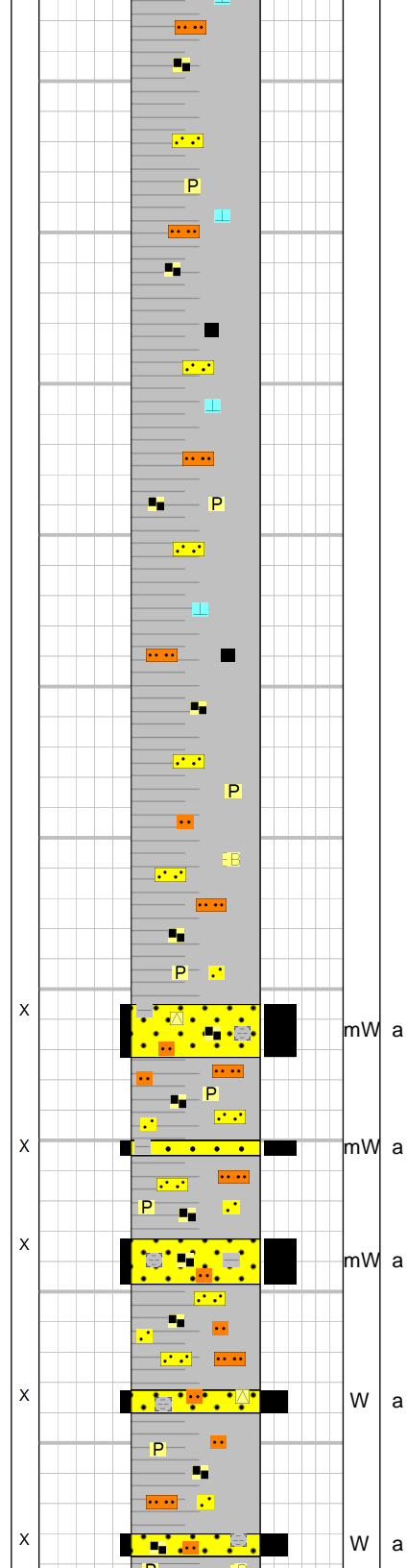
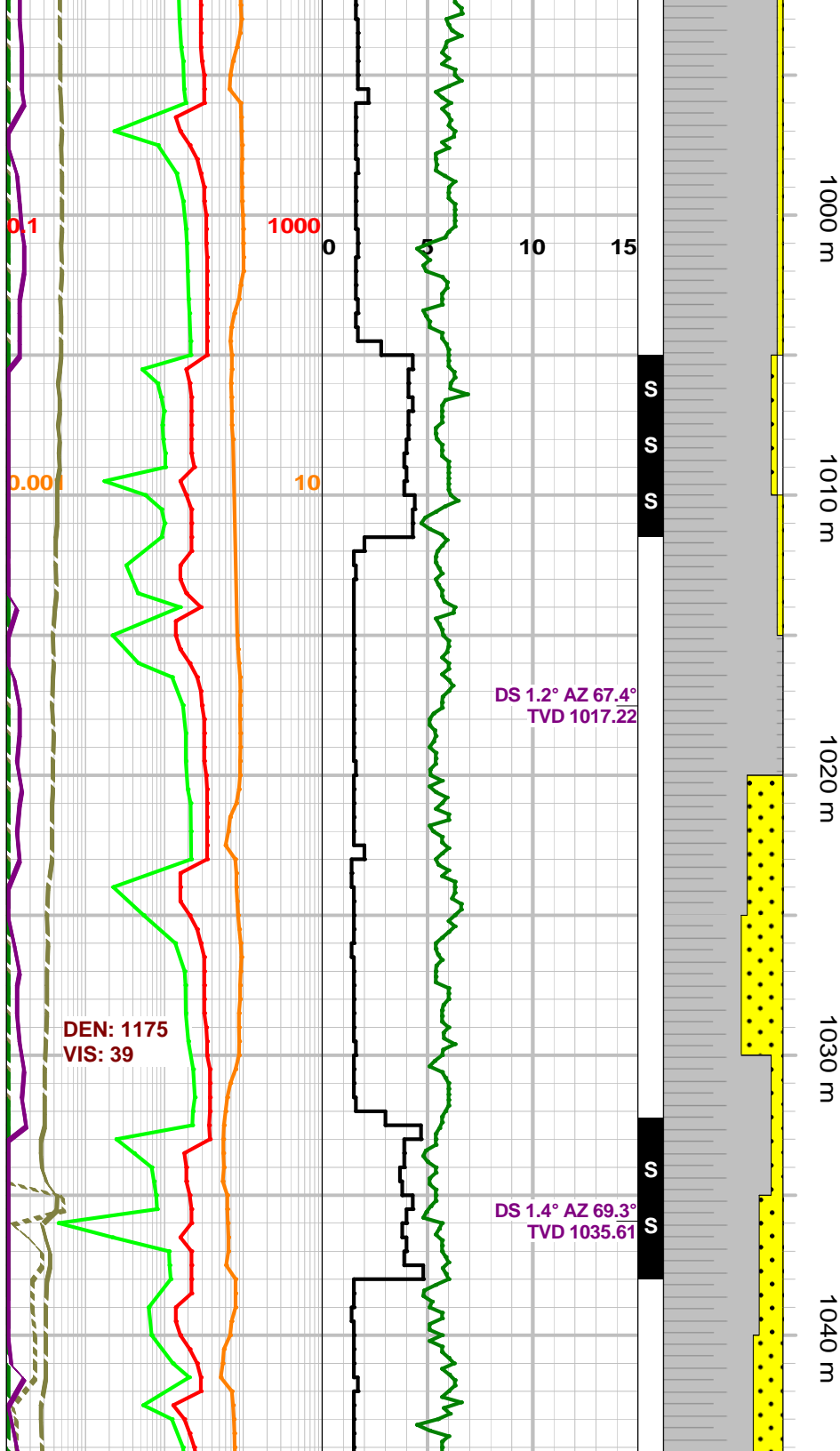
SH: lt - m gy, lt gn gy, sbfis - sbbly, rthy, sly slty & sdy, rr mic carb, rr dism pyr, rr lse calc xls, tr lt gn gy Slst & Ss strgs, sft.

SLTST: lt gn gy, lt gy, slt - vf gred, w srt, sbang, py cons, cly cmt, qtz, tr carb - tr coal flks, rr kao, rr dism pyr, rr dk lits, tt, grdg to slty Ss ip.

SH: lt - m gy, lt gn gy, sbfis - sbbly, rthy, sly slty & sdy, rr mic carb, rr dism pyr, rr lse calc xls, tr lt gn gy Slst & Ss strgs, tr m brn Sh strgs, sft.

SS: lt gn gy, lt gy, slt - vf gred, bcmg more vf gred, w srt, sbang, py cons, cly cmt, qtz, tr carb - tr coal flks, rr kao, rr dism pyr, rr mica flks, rr fld grs, arg, rr dk lits, tt, grdg to slty Ss ip.

SH: m gy, m gn gy, sbfis - sbbly, rthy, slty &



sdyl, rr mic carb, rr dism pyr, rr lse calcs xls, tr Sltst & Ss Inss & strgs, sft - frm.

SH: m gy, m gn gy, sbfis - sbbkly, rthy, slty & sdy, rr mic carb, rr dism pyr & dism pyr blebs, rr lse calcs xls, tr Sltst & Ss Inss & strgs, sft - frm.

SH: m gy, m gn gy, sbfis - sbbkly, rthy, slty & sdy, tr - occ mic carb, tr coal flks, rr dism pyr & dism pyr blebs, rr lse calcs xls, tr Sltst & Ss Inss & strgs, sft - frm.

SH: m gy, m gn gy, sbfis - sbbkly, rthy, slty & sdy, tr mic carb, tr coal flks, rr dism pyr & dism pyr blebs, rr lse calcs xls, tr Sltst & Ss Inss & strgs, sft - frm.

SH: m gy, m gn gy, bcmg more brnsh in color, sbfis - sbbkly, rthy, slty & sdy, tr - occ mic carb, tr coal flks, rr dism pyr & dism pyr blebs, rr lse calcs xls, tr Sltst & Ss Inss & strgs, sft - frm.

SH: lt - m gy, sbfis - sbbkly, rthy, slly slty & sdy - slty & sdy ip, tr mic carb - tr coal flks, rr dism pyr, slly bentic, tr Sltst & Ss strgs, sft - frm.

SS: lt gy, trnsl ip, lt gn gy ip, slly s&p, slt - l f gred, modly w srt, sbang, py cons, slly calcs, cly cmt, modly cons, slly sils, qtz, tr mic carb - tr coal flks, tr kao, rr dk lit grs, rr dism pyr, arg ip, tt - vp (0 - 3%) intgran por.

SH: lt - m gy, sbfis - sbbkly, slly slty & sdy, rr mic carb, rr dism pyr, tr dk gy with brn specs, rr dism pyr, tr Ss Inss & strgs, sft - frm.

SS: off wh, v lt - lt gy, slt - vf gred, w srt, sbang, py cons, cly cmt, modly cons, sils cmt, qtz, tr mic carb, tr kao, rr dk lit grs, rr mica flks, rr dism pyr, arg, tt.

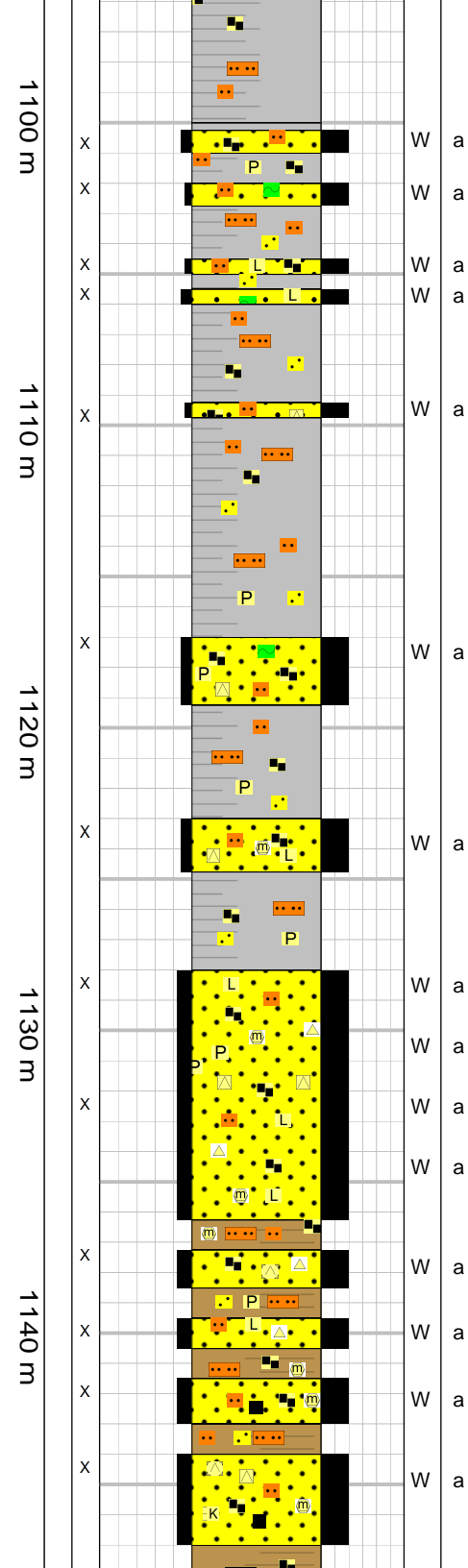
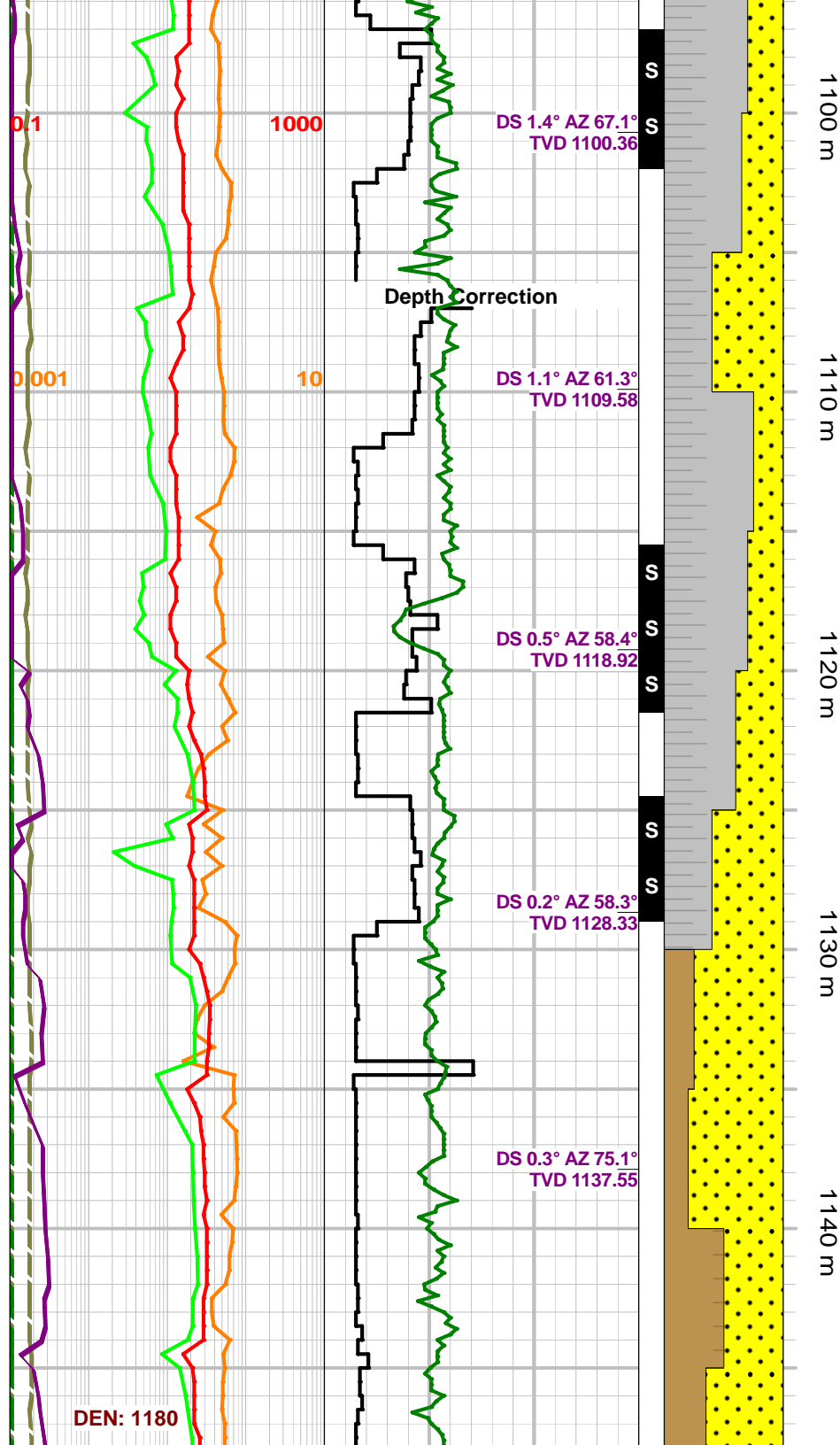
mW a

mW a

mW a

W a

W a



SH: lt brn gy, lt gy, sbfis - sbbly, rthy, slty & sdy ip, tr mic carb, rr dism pyr, v sly bentic, grdg to arg Slst ip, sft - frm.

SH: lt gy, lt brn, lt brn gy, sbfis - sbbly, rthy, slty & sdy, tr mic carb - tr coal flks, rr dism pyr, tr Slst strgs, sft - frm.

SS: lt gy, lt gn gy, off wh, sly s&p, slt - vf gred, w srt, sbang, modly cons, sil cmt, py cons, cly cmt, qtz, carb, tr - occ dk lit grs, tr kao, rr flds, rr dism pyr, rr glau grs, arg ip, tt - p (0 - 3%) intgran por.

SS: lt gy, lt gn gy, off wh, sly s&p, slt - vf gred, w srt, sbang, modly cons, sil cmt, py cons, cly cmt, qtz, carb, tr - occ dk lit grs, tr kao, rr flds, rr dism pyr, rr glau grs, arg ip, tt - p (0 - 3%) intgran por.

SH: lt gy, lt brn, lt brn gy, sbfis - sbbly, rthy, slty & sdy, tr mic carb - tr coal flks, rr dism pyr, tr mica flks, tr Slst strgs, sft - frm.

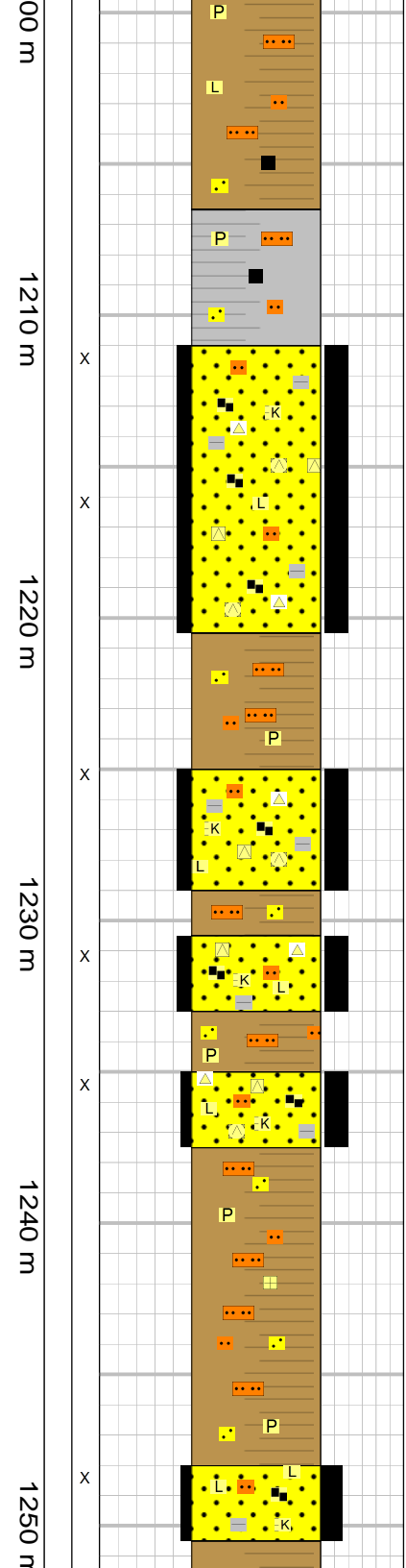
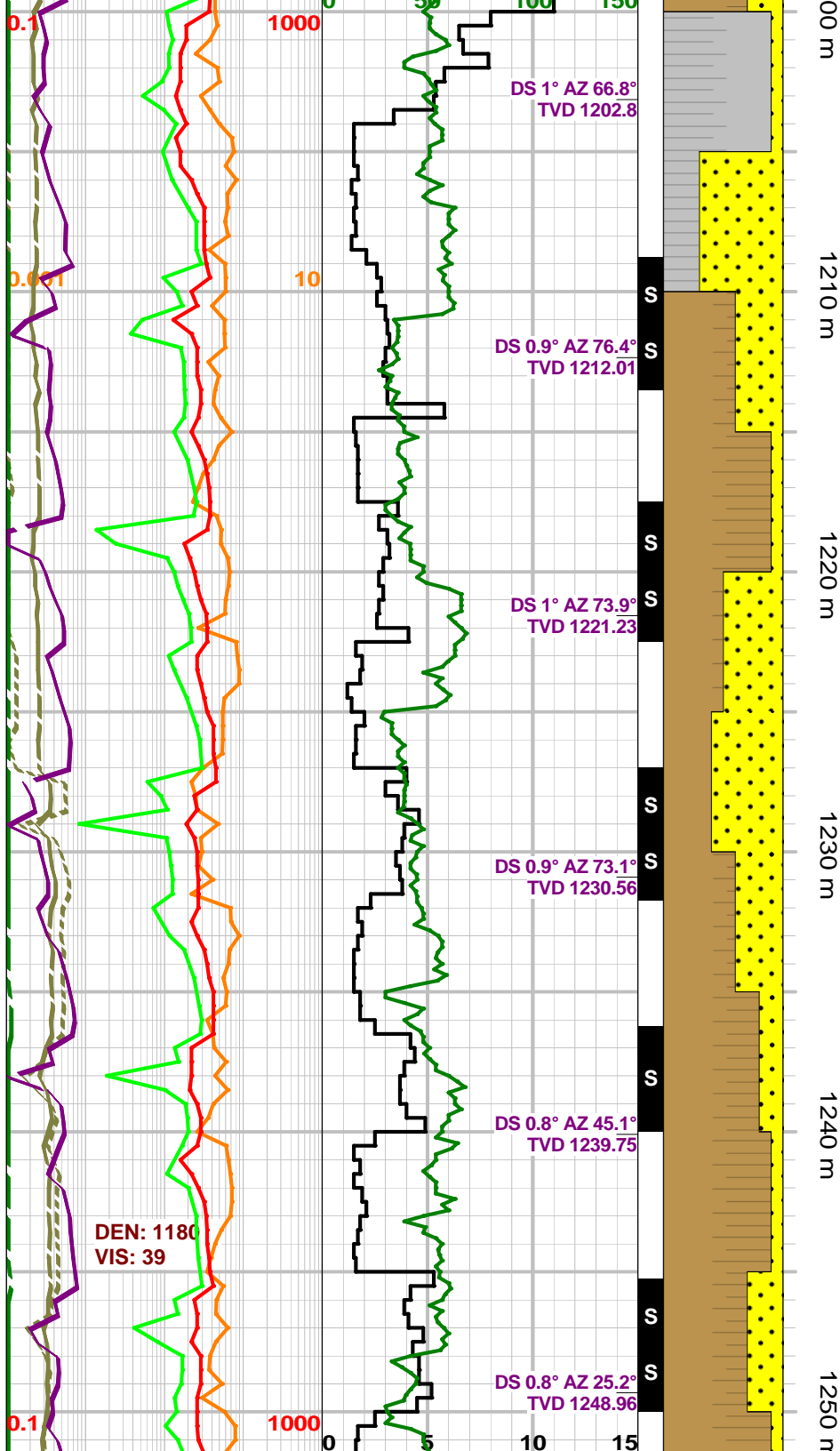
SH: lt gy, lt brn, lt gn gy, sbfis - sbbly, rthy, sly slty & sdy, rr mic carb, v rr dism pyr, sft - frm.

SS: lt gy, v lt brn, off wh, slt - vf gred, w srt, sbang, modly cons, sly sils, py cons, qtz, tr - occ carb - tr coal flks, tr kao, tr dk lit, tr lt cht grs, rr mica flks, tt - p (0 - 4%) intgran por.

SH: lt brn, lt brn gy, lt gn gy, sbbly, sly sbfis, rthy, rr mic carb, rr dism py, tr mica flks, grdg to arg Slst, sft - frm.

SS: lt gy, v lt brn, off wh, slt - vf gred, w srt, sbang, modly cons, sly sils, py cons, qtz, tr - occ carb - tr coal flks, tr kao, tr dk lit, tr lt cht grs, rr mica flks, tt - p (0 - 4%) intgran por.

SH: lt brn, lt brn gy, lt gn gy, sbbly, sly sbfis, rthy, rr mic carb, rr dism py, tr mica



W a
W a
W a
W a
W a
W a
W a
W a
W a

SH: lt - m gy, lt - brn gy, sbfis - sbbly, rthy, slty & sdy, tr carb, rr coal flks, v rr dism pyr, grd to arg Slstst, sft - frm.

SH: lt - m gy, lt - brn gy, tr lt brn, sbfis - sbbly, rthy, slty & sdy, tr carb, rr coal flks, v rr dism pyr, grd to arg Slstst, sft - frm.

SS: lt gy, tr m gy, tr off wh, slt - vf gred, w srt, sbang, modly cons, slly sils, qtz, tr - occ mic carb, tr kao, arg, rr dk cht grs, rr lt cht grs, tt - p (0 - 4%) intgran por.

SH: lt brn, lt - m gy, lt - m brn gy, sbfis - sbbly, rthy, tr mic carb, rr dism pyr, v rr flds, grd to arg Slstst, sft - frm.

SS: lt gy, lt gn gy, slt - vf gred, w srt, sbang, modly cons, slly sils, qtz, tr - occ mic carb, tr kao, rr dk lit grs, rr lt cht grs, arg, tt - p (0 - 4%) intgran por.

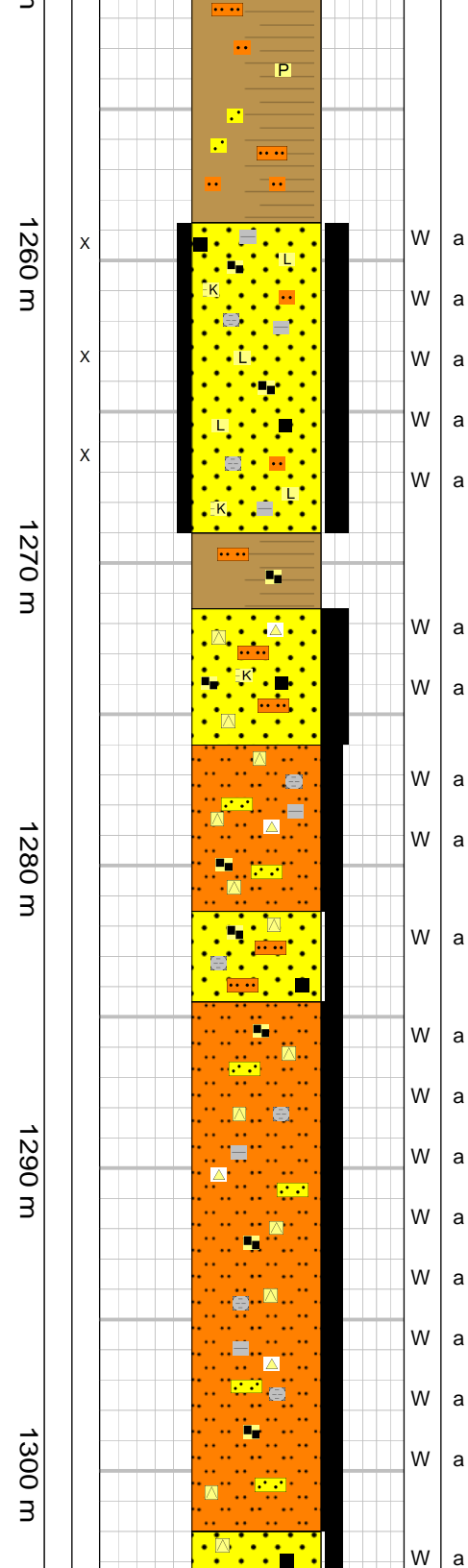
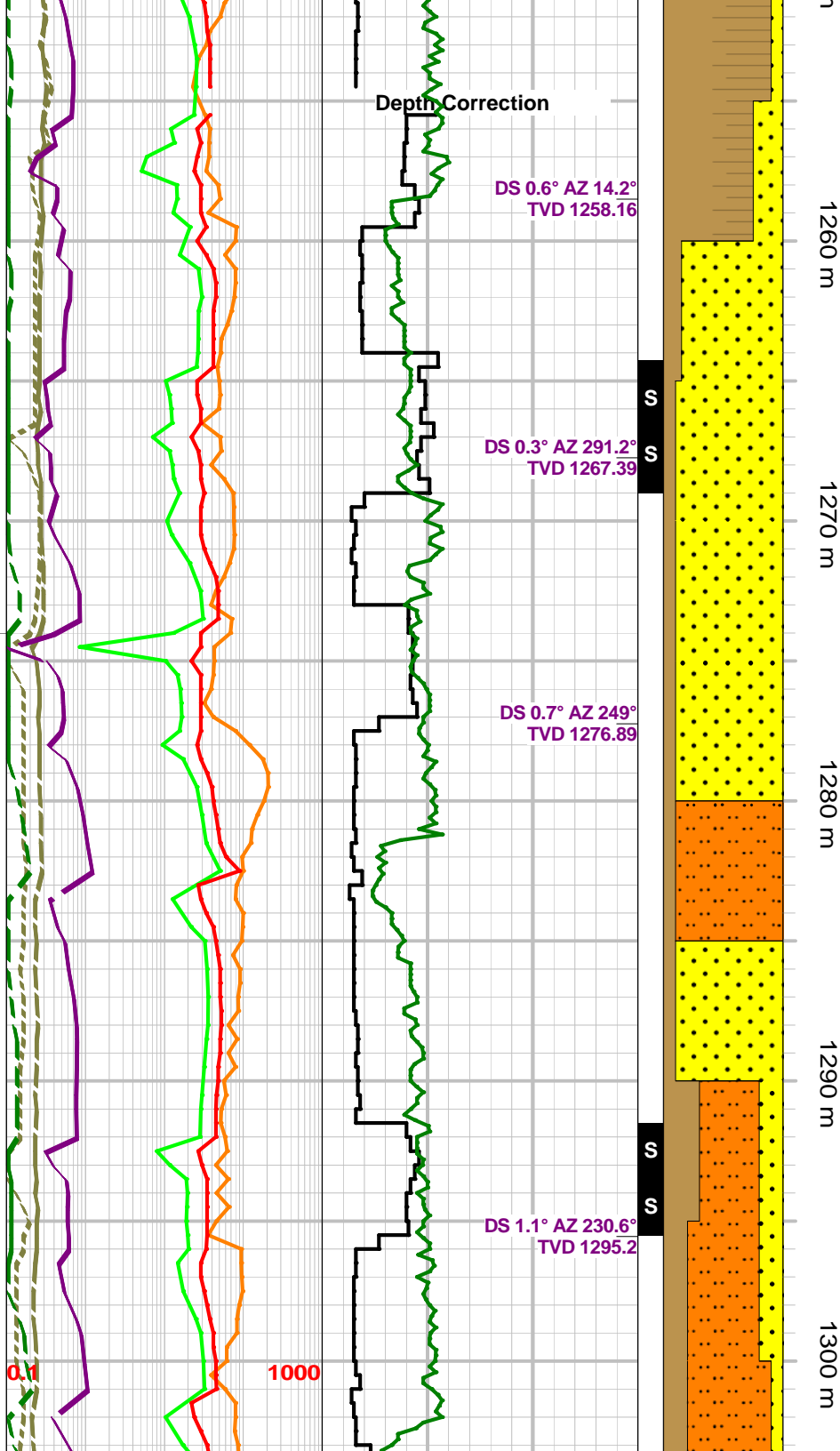
SH: lt brn, lt - m gy, lt - m brn gy, sbfis - sbbly, rthy, tr mic carb, rr dism pyr, v rr flds, grd to arg Slstst, sft - frm.

SS: lt gy, lt gn gy, slt - vf gred, w srt, aa.

SH: lt brn, lt - m gy, lt - m brn gy, sbfis - sbbly, rthy, tr mic carb, rr dism pyr, v rr flds, grd to arg Slstst, sft - frm.

SS: lt gy, lt brn, slly s&p, slt - l vf gred, sbang, modly cons, slly sils, qtz, arg, tr clyy, tr mic carb, tr kao, rr coal flks, grd to sdy

Feb 5, 2012



Slstst ip, tt.

SH: lt brn, lt gy brn, sbfis - sbbly, rthy, sly sly & sdy ip, rr - tr mic carb, v rr dism pyr, rr kao, grd to arg Slstst ip, sft - frm.

SH: lt brn, lt gy brn, sbfis - sbbly, rthy, v sly & sdy ip, rr - tr mic carb, v rr dism pyr, rr kao, grd to arg Slstst ip, sft - frm.

SS: lt gy, lt brn gy, lt gn gy, sly s&p, slt - vf gred, sbang, modly cons, sly sils, qtz, arg, tr clyy, tr mic carb, tr kao, rr coal flks, tt - p (0-4%) intgran por.

SS: lt gy, lt brn, sly s&p, slt - l vf gred, sbang, modly cons, sly sils, qtz, arg, tr clyy, tr mic carb, tr kao, rr coal flks, grd to sdy Slstst ip, tt.

SH: lt brn, lt gy brn, sbfis - sbbly, rthy, aa.

SS: lt gy, lt brn, sly s&p, slt - l vf gred, sbang, modly cons, sly sils, qtz, arg, tr clyy, tr mic carb, tr kao, rr coal flks, grd to sdy Slstst ip, tt.

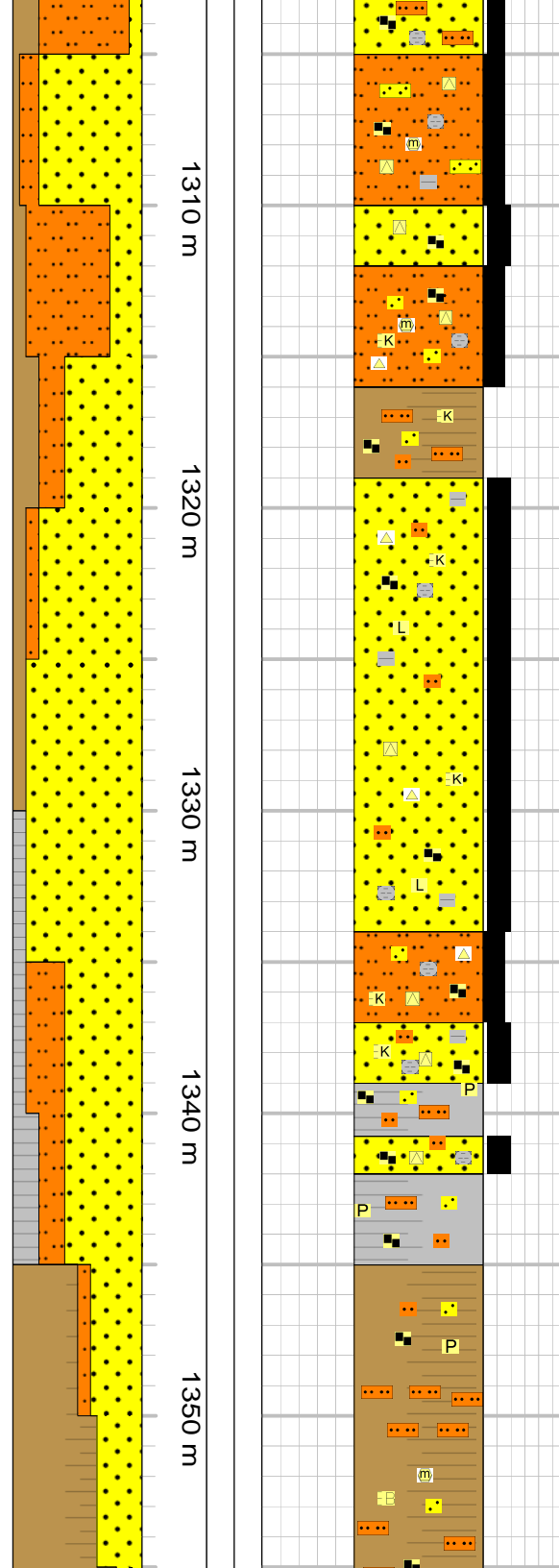
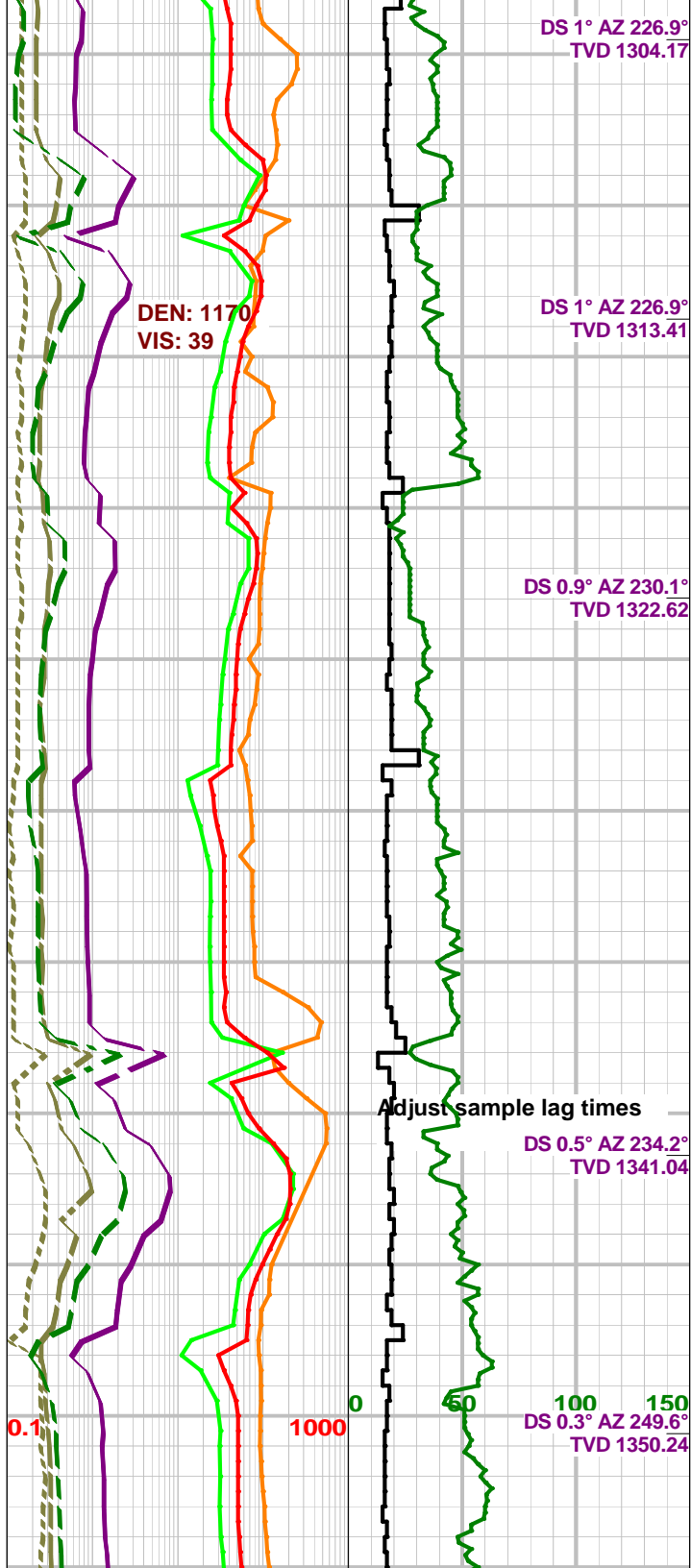
SLTST: lt brn, lt gy, slt - l vf gred, w srt, sbang, py cons, cly mtx, qtz, tr mic carb, rr lt cht grs, grd to sly Ss, tt.

SS: lt - m brn, lt gy brn, sly s&p, slt - l vf gred, sbang, py cons, cly cmt, qtz, tr mic carb - tr coal flks, tr dk lit, rr kao, rr lt cht grs, grd to sdy Slstst ip,

SLTST: lt brn, lt gy, slt - l vf gred, w srt, sbang, py cons, cly mtx, qtz, tr mic carb, rr lt cht grs, grd to sly Ss, tt.

SLTST: lt brn, lt gy brn, sdy, w srt, sbang, py cons, cly mtx, qtz, rr mic carb, rr mica flks, arg, tt.

SS: lt - m brn, lt gy brn, sly s&p, slt - l vf



W a gred, sbang, py cons, cly cmt, qtz, tr mic carb - tr coal flks, tr dk lit, rr kao, rr lt cht grs, grd to sdy Sltst ip,

W a **SLTST:** lt brn, lt gy brn, sdy, w srt, sbang, py cons, cly mtx, qtz, rr mic carb, rr mica flks, arg, tt.

W a **SS:** lt gy, slt - vf gred, w srt, sbang, py cons, cly mtx, qtz, tr mic carb, tr kao, tr dk lit grs, rr lt cht grs, tt.

W a **SLTST:** lt brn, lt gy brn, sdy, w srt, sbang, aa.

SH: lt brn, lt gy brn, sbblky, rthy, slty & sdy, rr mic carb, rr kao grd to arg Sltst ip, sft.

W a **SS:** v lt gy, v lt brn, lt gn gy ip, slt - vf gred, sbang - sbrdd, py cons, cly mtx, qtz, rr mic carb, tr kao, rr lt cht grs, tr dk lit, arg, tt.

W a

W a

W a

W a

W a

W a **SS:** lt gy, occ m gy, slt - vf gred, w srt, sbang, py cons, cly mtx, qtz, tr mic carb, rr lt cht grs, tr kao, rr dk lit grs, grd to sdy Sltst, tt.

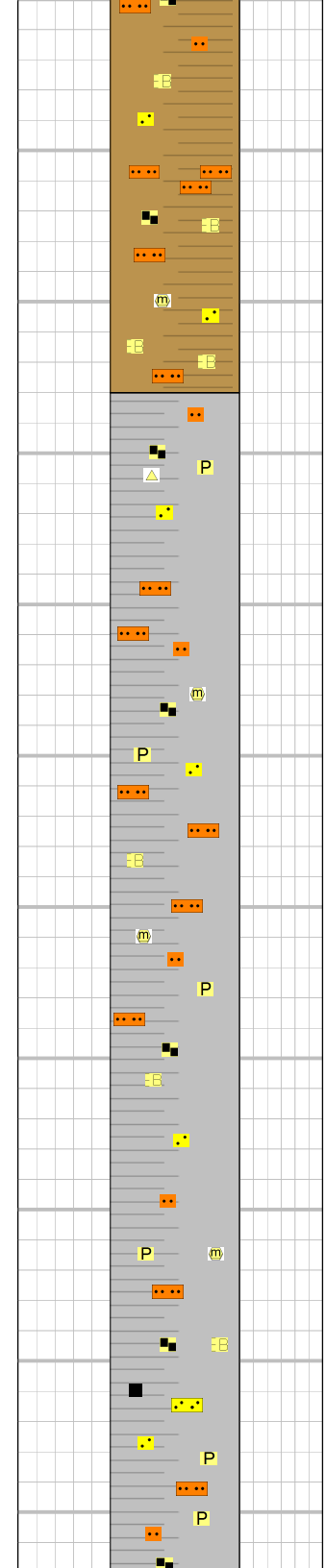
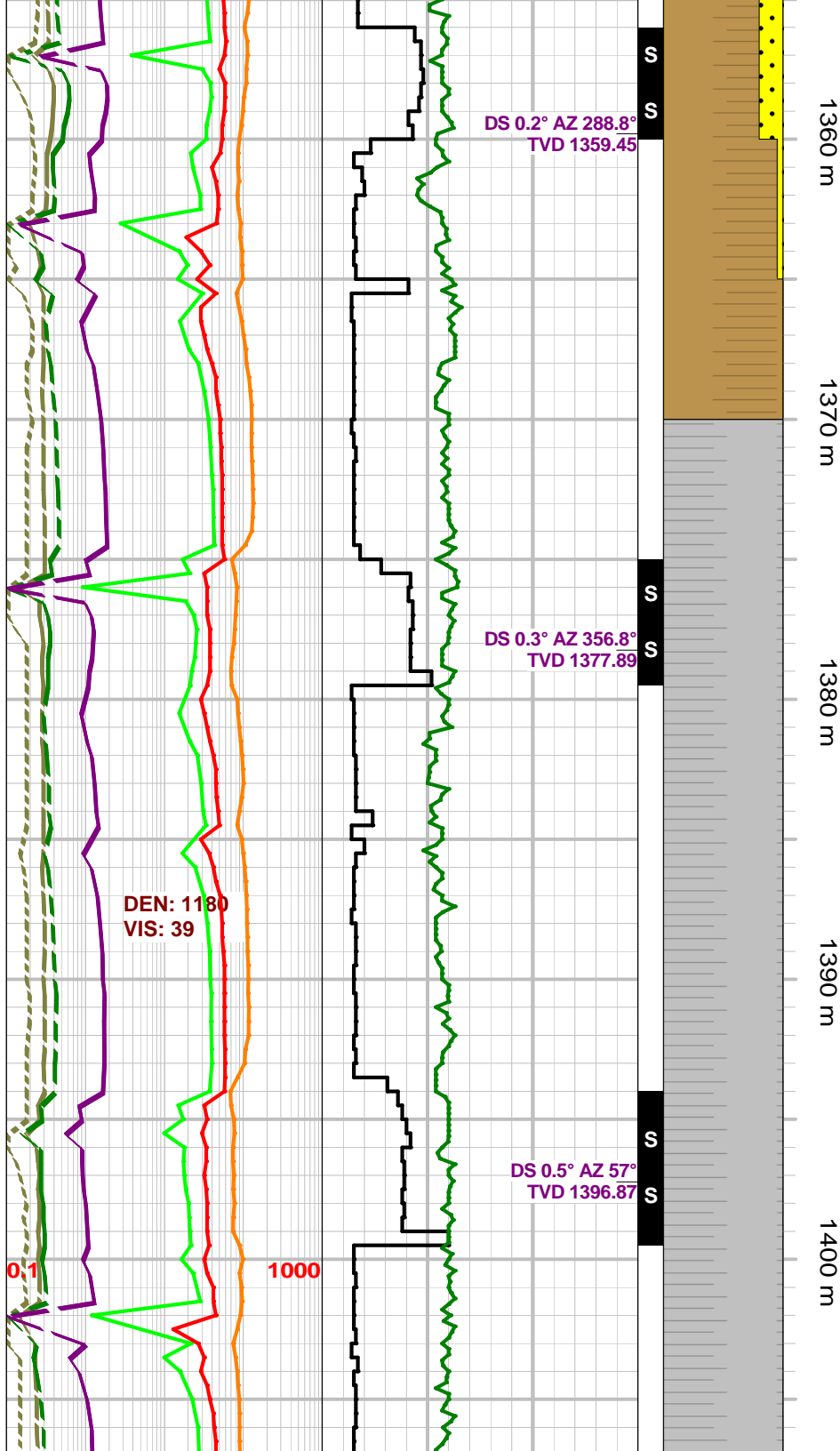
W a **SLTST:** lt gy, sdy, w srt, sbang, py cons, cly mtx, qtz, rr - tr mic carb, tr kao, rr lt cht grs, arg, grd to slty Ss, tt.

W a **SS:** lt gy, occ m gy, slt - vf gred, w srt, aa.

W a **SH:** m gy, lt - m gy brn, sbfis - sbblky, rthy, slty & sdy, rr - tr mic carb, rr dism pyr, grd to arg Sltst, sft.

SH: lt brn, lt gy brn, sbblky, occ sbfis, rthy, rr mic carb, rr mica flks, rr dism pyr, grd to arg Sltst Inss, sft - frm.

SH: lt brn, lt gy brn, sbfis - sbblky, rthy, slty & sdy, tr mic carb - tr coal flks, bentic ip, grd to arg Sltst ip, sft - frm.



SH: v lt - lt brn, lt - m gy, sbfis - sbblky, occ slty & sdy ip, rr kao, bentic ip, grdg to arg Slstst ip, sft - frm.

SH: v lt - lt brn, lt - m gy, sbfis - sbblky, occ slty & sdy ip, rr - tr mic carb, rr kao, bentic ip, grdg to arg Slstst ip, incrg from abv, sft - frm.

SH: lt - m gy, lt brn, lt gy brn, sbfis - sbblky, rthy, occ slty & sdy, rr - tr mic carb, rr kao, rr lt cht grs, grdg to arg Slstst strgs, sft - frm.

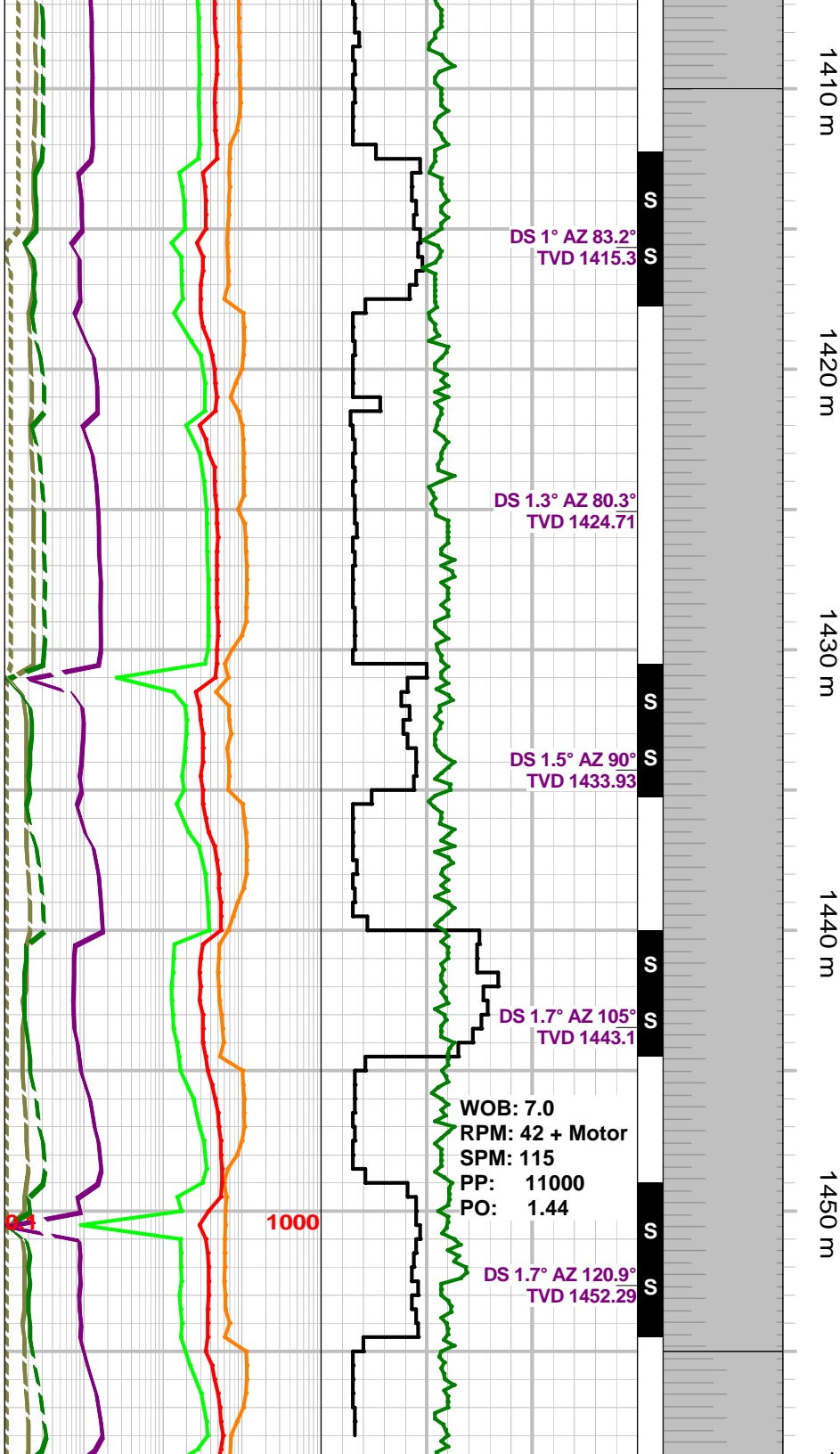
SH: lt - m brn gy, lt gy brn, sbfis - sbblky, rthy, slty & sdy, rr - tr mic carb, rr mica flks, bentic ip, grdg to arg Slstst strgs, sft - frm.

SH: lt - m brn gy, lt gy brn, sbfis - sbblky, rthy, slty & sdy, rr - tr mic carb, rr mica flks, bentic ip, sft - frm.

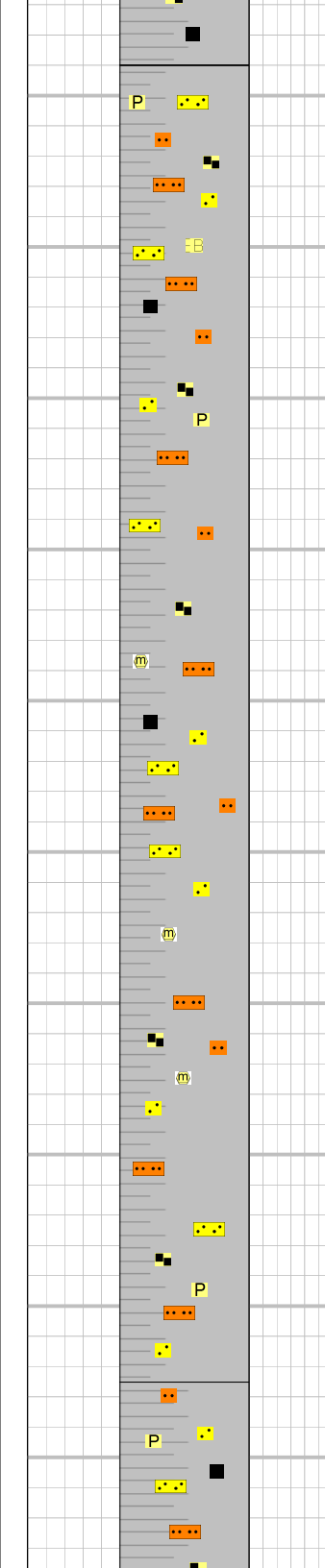
SH: lt - m brn gy, lt gy brn, sbfis - sbblky, rthy, slty & sdy, rr - tr mic carb, rr mica flks, bentic ip, tr arg Slstst Inss, sft - frm.

SH: m gy, sbfis - sbblky, rthy, tr slty & sdy, tr mic carb - tr coal flks, rr dism pyr, bentic ip, tr Slstst & Ss Inss, sft - frm.

SH: lt - m gy, lt brn gy, sbfis - sbblky, rthy, tr



1410 m
1420 m
1430 m
1440 m
1450 m



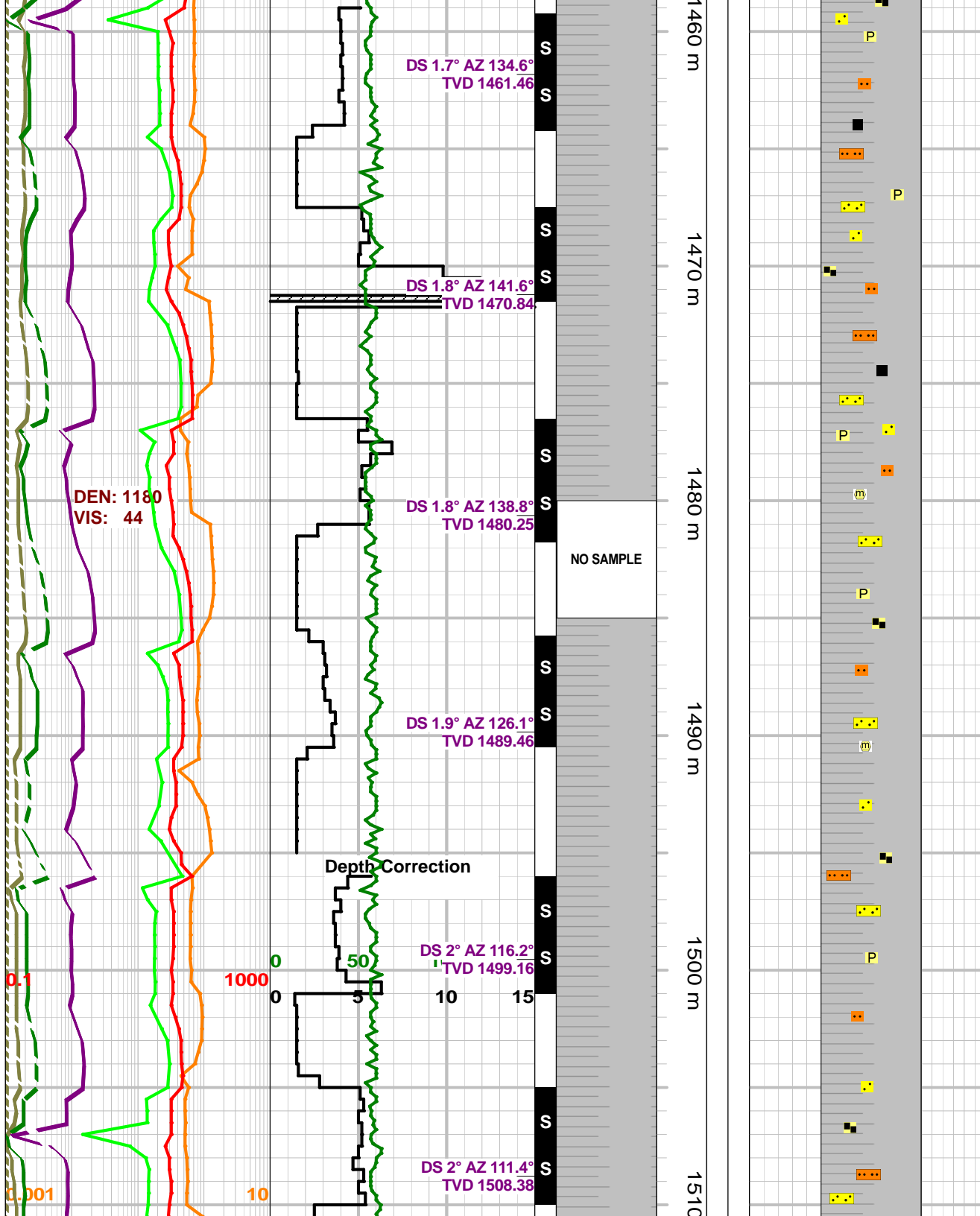
city & sdy, tr mic carb - tr coal flks, tr chrt pyr, bentic ip, tr - occ Slst & Ss Inss, sft - frm.

SH: lt - occ m gy, lt gy brn, sbfis - sbblky, rthy, tr - occ slty & sdy, tr mic carb - tr coal flks, v rr dism pyr, rr kao, sily bentic, tr Slst & Ss Inss & strgs, sft - frm.

SH: lt gy, lt gy brn, sbfis - sbblky, rthy, occ slty & sdy, rr mic carb - rr coal flks, tr mica flks, rr - tr Slst & Ss Inss & strgs, sft - frm.

SH: lt gy, lt brn gy, sbfis - sbblky, rthy, tr - occ slty & sdy, rr - tr mic carb - tr coal flks, v rr dism pyr, r lt cht grs, rr kao, tr Slst & Ss Inss & strgs, sft - frm.

SH: lt - m gy, tr lt brn, sbfis - sbblky, rthy, tr slty & sdy, rr - tr mic carb - rr coal flks, rr dism pyr, rr - tr Slst & Ss Inss & strgs, sft - frm.

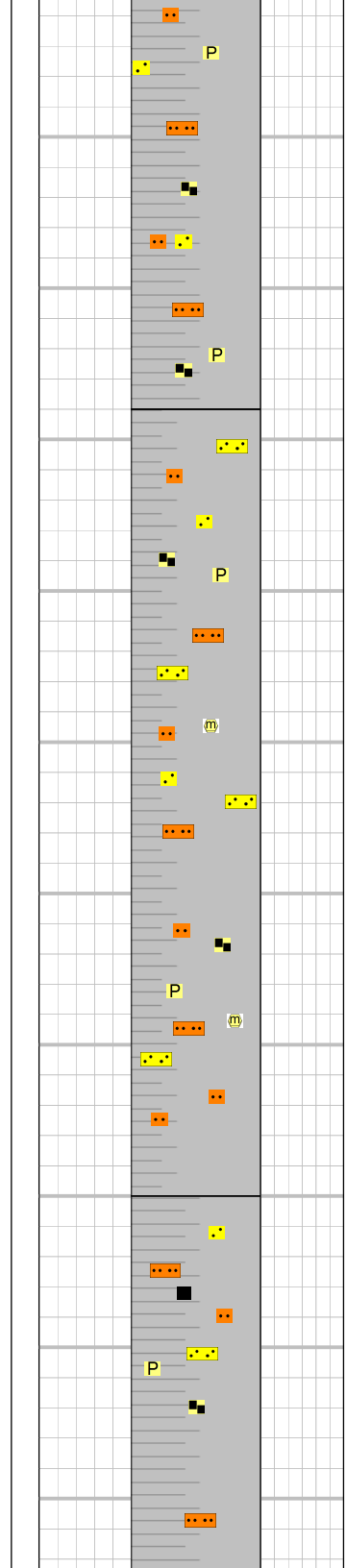
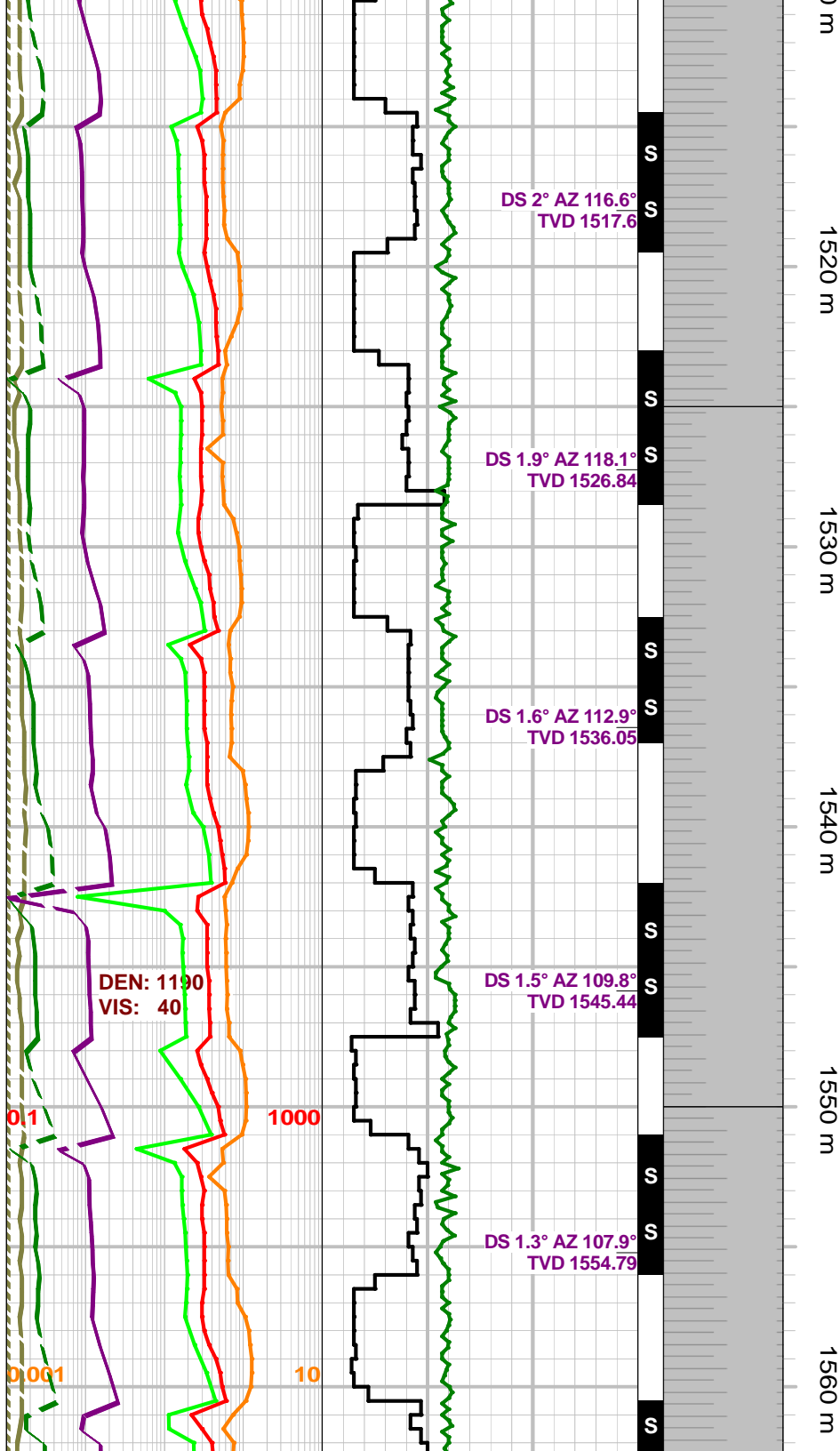


SH: lt - m gy, tr lt brn, sbfis - sbbky, rthy, tr slty & sdy, rr - tr mic carb - rr coal flks, decrg from abv, rr dism pyr, rr - tr Slst & Ss Inss & strgs, sft - frm.

SH: lt - m gy, tr lt brn, sbfis - sbbky, rthy, tr slty & sdy, rr mic carb - rr coal flks, rr dism pyr, rr - tr Slst & Ss Inss & strgs, sft - frm.

SH: m gy, m brn gy, rr lt brn, sbfis - sbbky, rthy, slly slty & sdy, rr mic carb, v rr dism pyr, rr mica flks, rr Slst & Ss Inss & strgs, sft - frm.

SH: lt - m gy, lt m - brn gy, v rr lt brn, sbfis - sbbky, rthy, slly slty & sdy, rr mic carb, rr dism pyr, rr Slst Inss, sft - frm.



SH: lt - m gy, lt m - brn gy, v rr lt brn, sbfis - sbblky, aa.

SH: lt gy, lt - m brn gy, v rr lt brn, sbfis - sbblky, rthy, slly slty & sdy, rr mic carb, rr dism pyr, v rr mica flks, tr lt gy Slst & Ss Inss, sft - frm.

SH: lt gy, lt - m brn gy, v rr lt brn, sbfis - sbblky, rthy, slly slty & sdy, rr mic carb, rr dism pyr, v rr mica flks, rr lt gy Slst & Ss Inss, sft - frm.

SH: lt - m gy, v rr lt brn, sbfis - sbblky, rthy, tr - occ slty & sdy, rr mic carb, v rr dism pyr, v rr mica flks, rr - tr Slst & Ss Inss & strgs, sft - frm.

SH: lt - m gy, lt brn gy, v rr lt brn, sbfis - sbblky, rthy, tr slty & sdy, rr mic carb, rr coal flks, rr - tr lt gy Slst & Ss Inss, more carb than Sh, sft - frm.

Feb 6, 2012

DS 1° AZ 98.9°
TVD 1564.03

DS 1° AZ 100.8°
TVD 1573.24

WOB: 7.0
RPM: 43 + Motor
SPM: 114
PP: 11300
PO: 1.42

DS 1° AZ 95.6°
TVD 1582.59

DS 0.8° AZ 107.8°
TVD 1591.89

DS 0.5° AZ 132.6°
TVD 1601.09

DS 0.7° AZ 154.9°
TVD 1610.29

Depth Correction

0.1

1000

DEN: 1200
VIS: 41

0.00

10

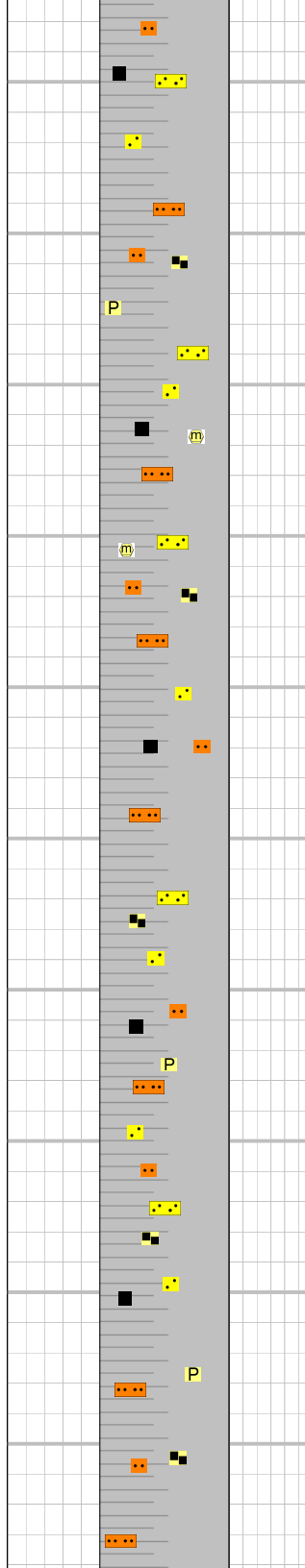
1570 m

1580 m

1590 m

1600 m

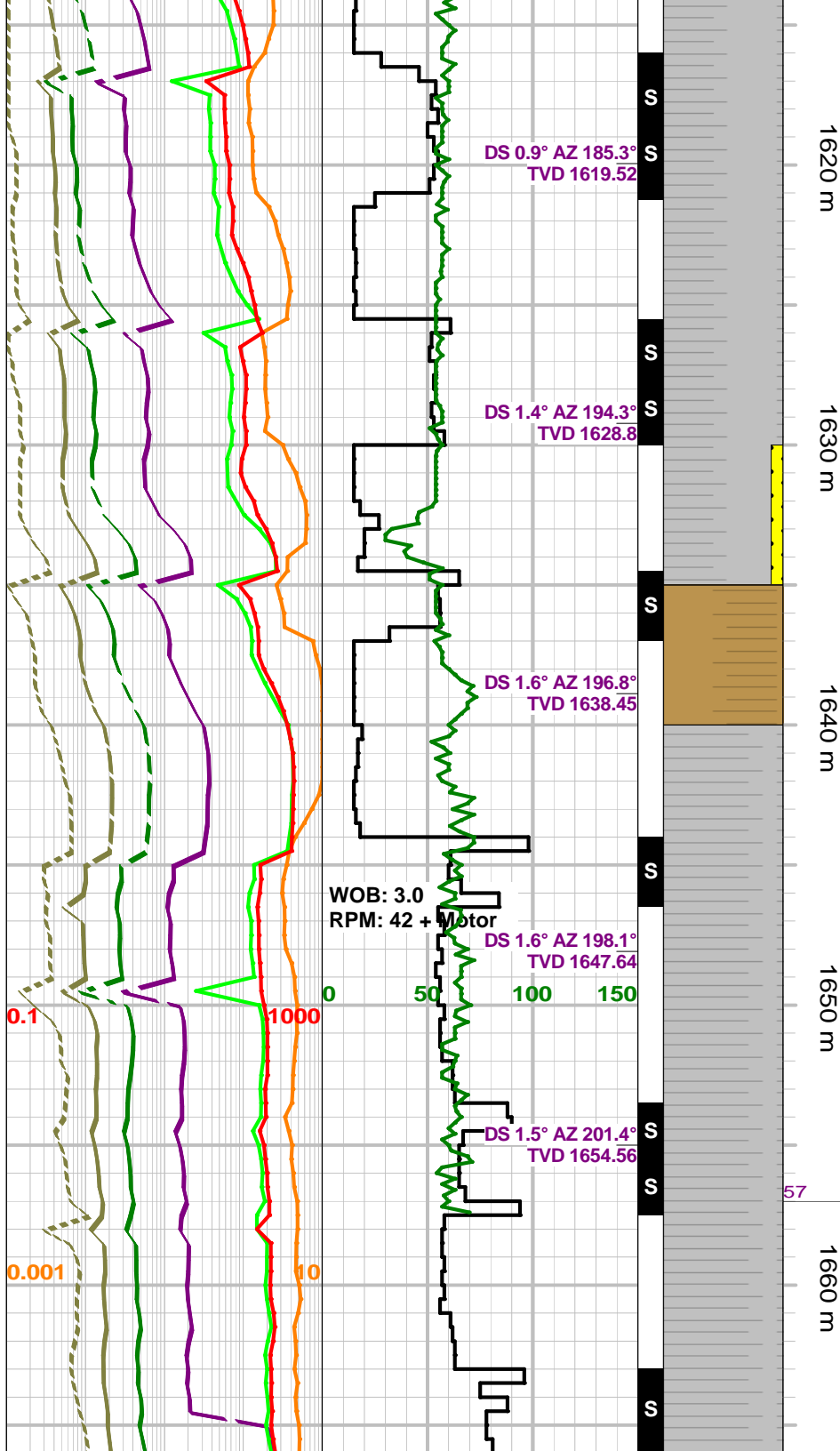
1610 m



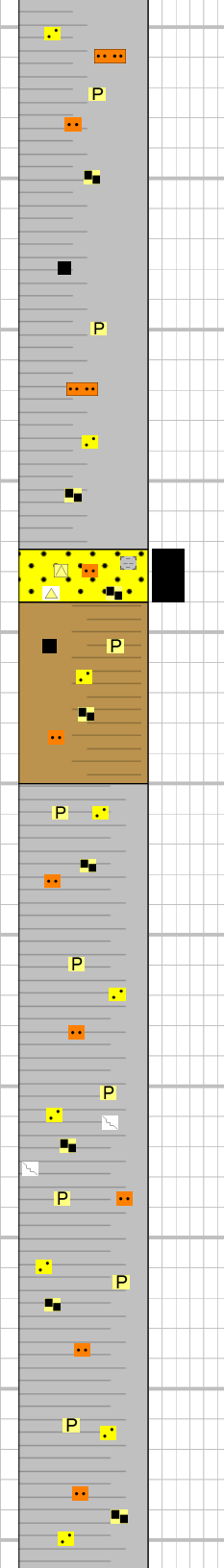
SH: lt - m gy, v rr lt brn, sbfis - sbblky, rthy, tr - occ slty & sdy, rr mic carb, v rr dism pyr, v rr mica flks, rr - tr Sltst & Ss Inss & strgs, sft - frm.

SH: lt - m gy, tr lt brn, sbfis - sbblky, rthy, tr - occ slty & sdy, rr mic carb, rr coal flks, v rr dism pyr, rr Sltst Inss, sft - frm.

SH: lt - m gy, tr lt brn, sbfis - sbblky, rthy, tr slty & sdy, rr mic carb, rr coal flks, v rr dism pyr, rr Sltst Inss, sft - frm.



1620 m
1630 m
1640 m
1650 m
1660 m



mW a

SH: lt - m gy, tr lt brn, sbfis - sbbkly, rthy, tr slty & sdy, rr mic carb, rr coal flks, v rr dism pyr, rr Sltst Inss, sft - frm.

SS: lt gy, tr m gy, lt brn ip, slt - l f gred, modly w srt, sbang, py cons, cly cmt, qtz, rr mic carb, tr lt cht grs, tr dism pyr, rr dk lit, tt.

SH: m - dk gy brn, tr dk gy, sbfis - sbbkly, rthy, slly - occ slty & sdy ip, rr mic carb, rr coal flks, tr dism pyr, sft - frm.

SH: m - dk gy, m brn gy, sbfis - sbbkly, rthy, slty & sdy, v rr mic carb, tr dism pyr, rr lt cht grs, sft.

SH: m - dk gy, m brn gy, sbfis - sbbkly, rthy, slty & sdy, v rr mic carb, tr - occ dism pyr, rr lt cht grs, sft.

SH: m - dk gy, sbfis - sbbkly, rthy, slty & sdy, rr mic carb, tr - occ mic dism pyr, rr calcs fldd micfracs, rr pyr pos filling fracs, sft.

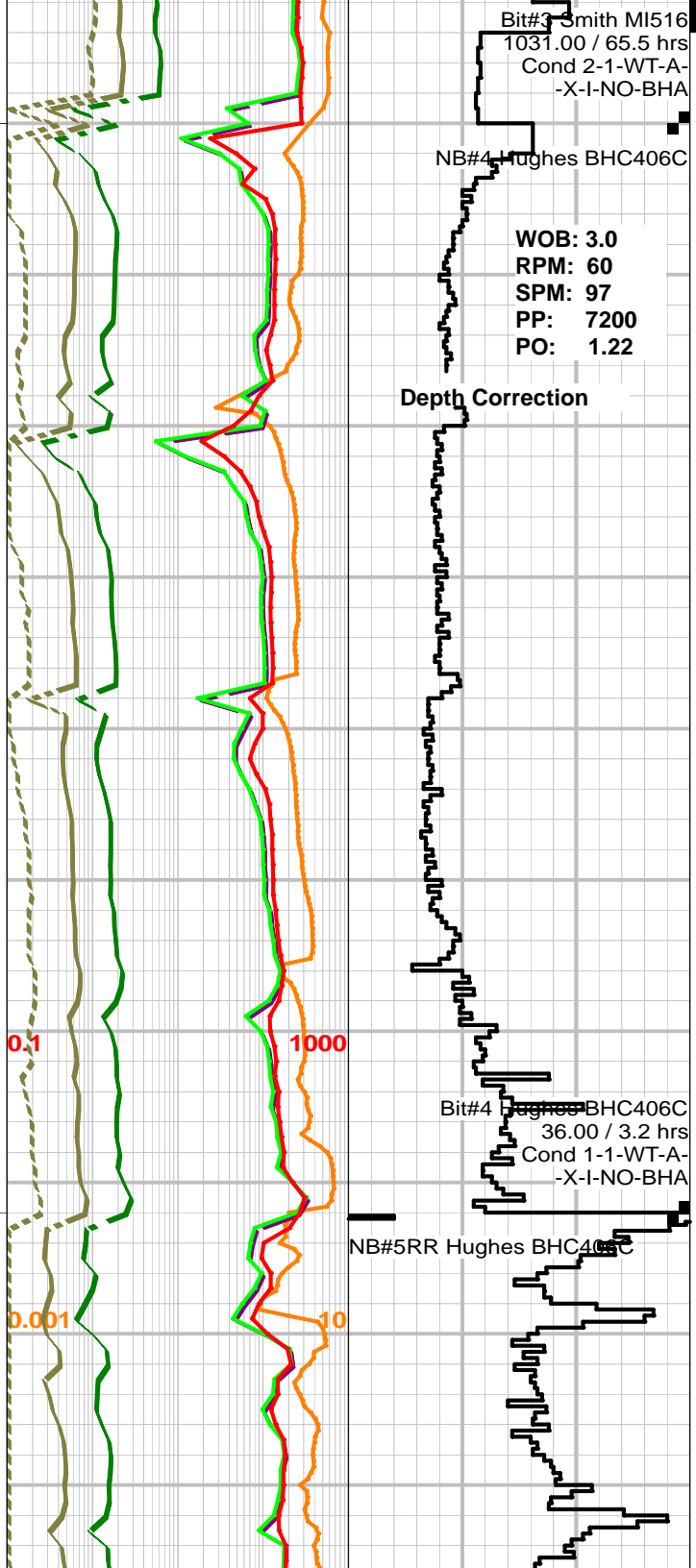
SH: m - dk gy, dkr than abv, sbfis - sbbkly, rthy, slty & sdy ip, rr mic carb, tr - Occ mic dism pyr, tr - occ dism pyr, sft.

Upper Canol
(TVD: 1656.56)
(SSL: -1397.76)

SH: m - dk gy, slly dkr than abv, sbfis - sbbkly, rthy, slty & sdy ip, rr mic carb, tr - occ mic dism pyr, sft.

Feb 7, 2012

Feb 8, 2012



Bit#3 Smith MI516
 1031.00 / 65.5 hrs
 Cond 2-1-WT-A-
 -X-I-NO-BHA

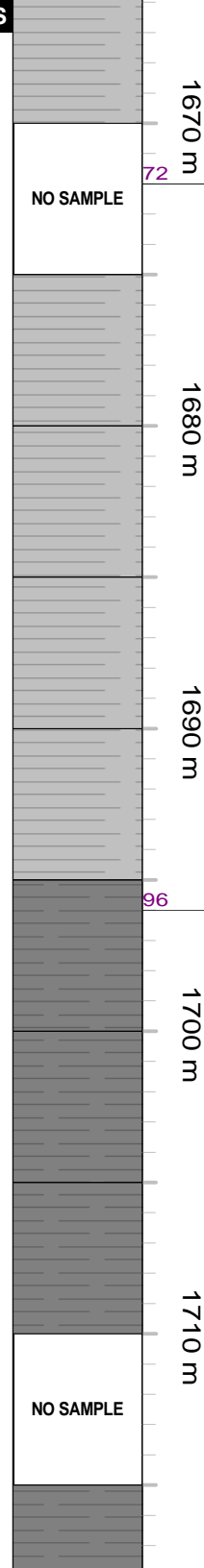
NB#4 Hughes BHC406C

WOB: 3.0
 RPM: 60
 SPM: 97
 PP: 7200
 PO: 1.22

Depth Correction

Bit#4 Hughes BHC406C
 36.00 / 3.2 hrs
 Cond 1-1-WT-A-
 -X-I-NO-BHA

NB#5RR Hughes BHC406C



1670 m

1680 m

1690 m

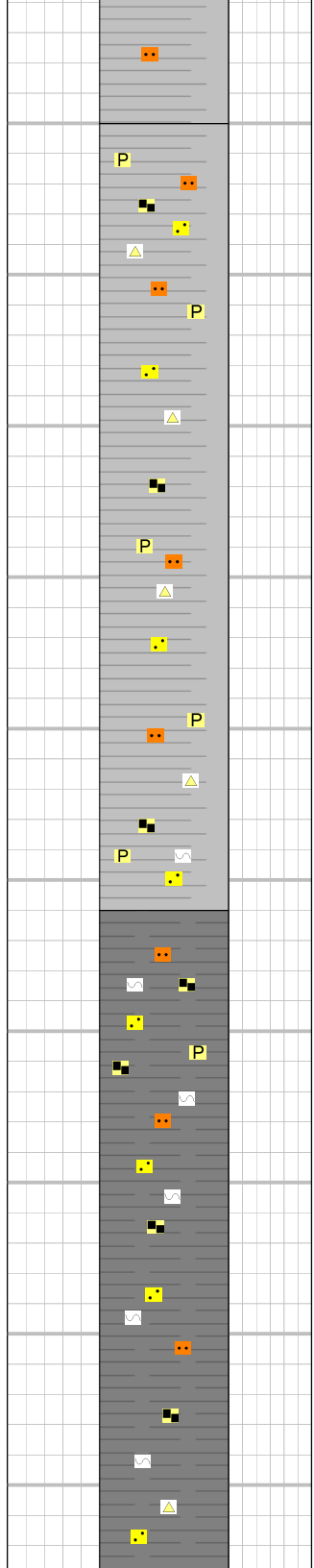
1700 m

1710 m

NO SAMPLE

96

NO SAMPLE



SH: m - dk gy, blk ip, bcmg dkr than abv, sbfis - sblbky, slty & sdy, tr mic carb, tr - occ dism pyr, sft - frm id.

Middle Canol
 (TVD: 1671.55)
 (SSL: -1412.75)

SH: m - dk brn gy, rr blk, sbfis - sblbky, rthy, slty & sdy, rr mic carb, tr mic dism pyr, tr pyr spots & str, tr lt cht grs, sft - frm.

SH: dk gy, dk brn gy, sllly sbfis - sblbky, rthy, slty & sdy, rr mic carb, tr dism pyr, tr dism pyr, com pyric spots, tr lt cht grs, sft - frm.

SH: m - dk brn gy, rr blk, sbfis - sblbky, rthy, slty & sdy, rr mic carb, tr dism pyr, rr pyric spots, tr lt cht grs, sft - frm.

SH: m - dk brn gy, tr blk, bcmg dkr than abv, sbfis - sblbky, rthy, slty & sdy, rr mic carb, tr dism pyr, rr pyric spots, tr lt cht grs, sft - frm.

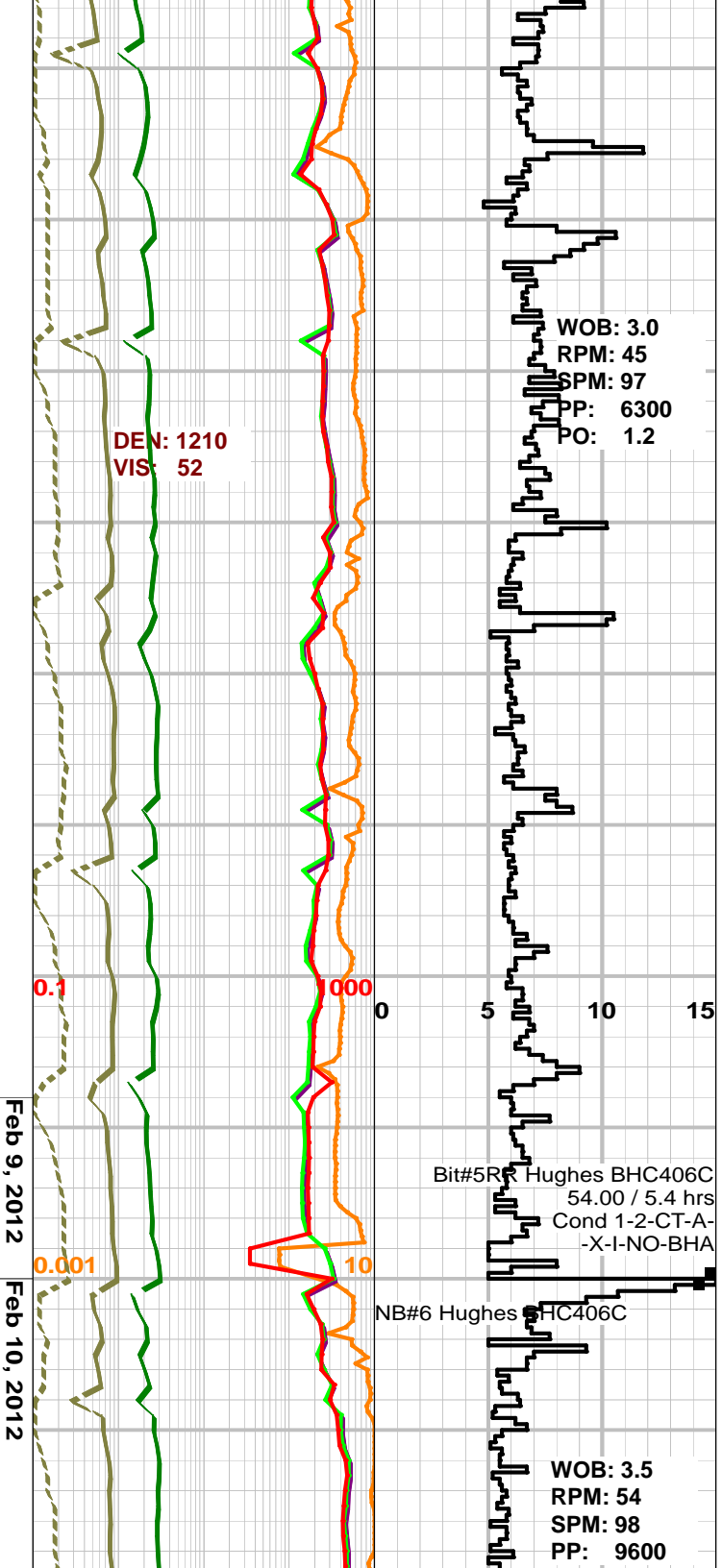
Lower Canol
 (TVD: 1695.55)
 (SSL: -1436.75)

SH: dk gy - blk, sbfis - sblbky, rthy, slty & sdy, carb, tr dism pyr, rr pyric blebs, v sft, no flor, slow bri yel blong cut, faster than abv Sh, v sft.

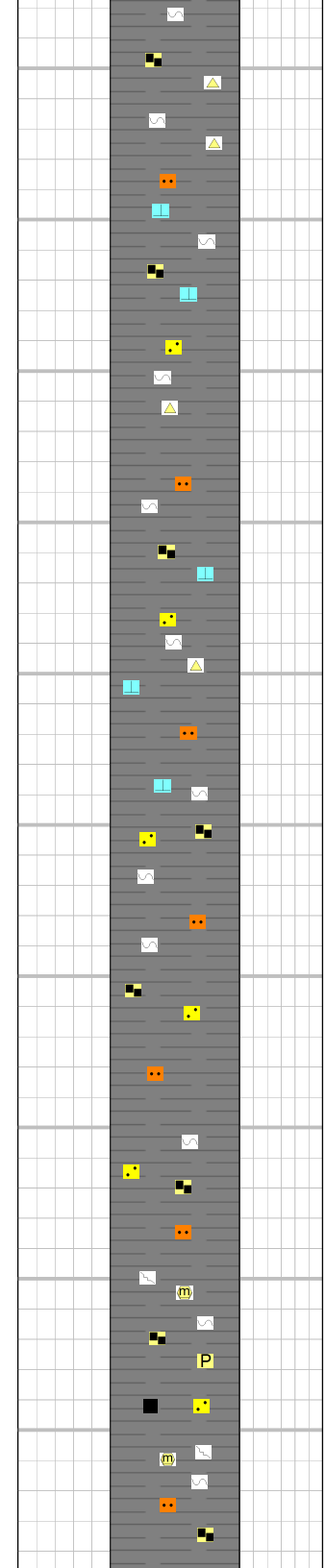
SH: dk gy - blk, sbfis - sblbky, rthy, sllly slty & sdy, carb, rr lt cht grs, tr dism pyr, sft - frm.

SH: blk, dk gy, dkr than abv, sbfis - sblbky, rthy, sllly slty & sdy, carb, rr lt cht grs, tr dism

1 (99.44%)



1720 m
1730 m
1740 m
1750 m
1760 m
1770 m



SH: blk, dk gy, sbfis - sbbkly, rthy, sly slty & sdy, carb, tr dism pyr, lt cht grs, sft - frm.

SH: blk, dk gy, sbfis - sbbkly, rthy, sly slty & sdy, carb, tr dism pyr, tr calcs fld voids, rr calc xls, sft - frm.

SH: dk gy, blk, sbfis - sbbkly, rthy, sly slty & sdy, carb, tr dism pyr, rr pyr strs, rr lt cht grs, sft - frm.

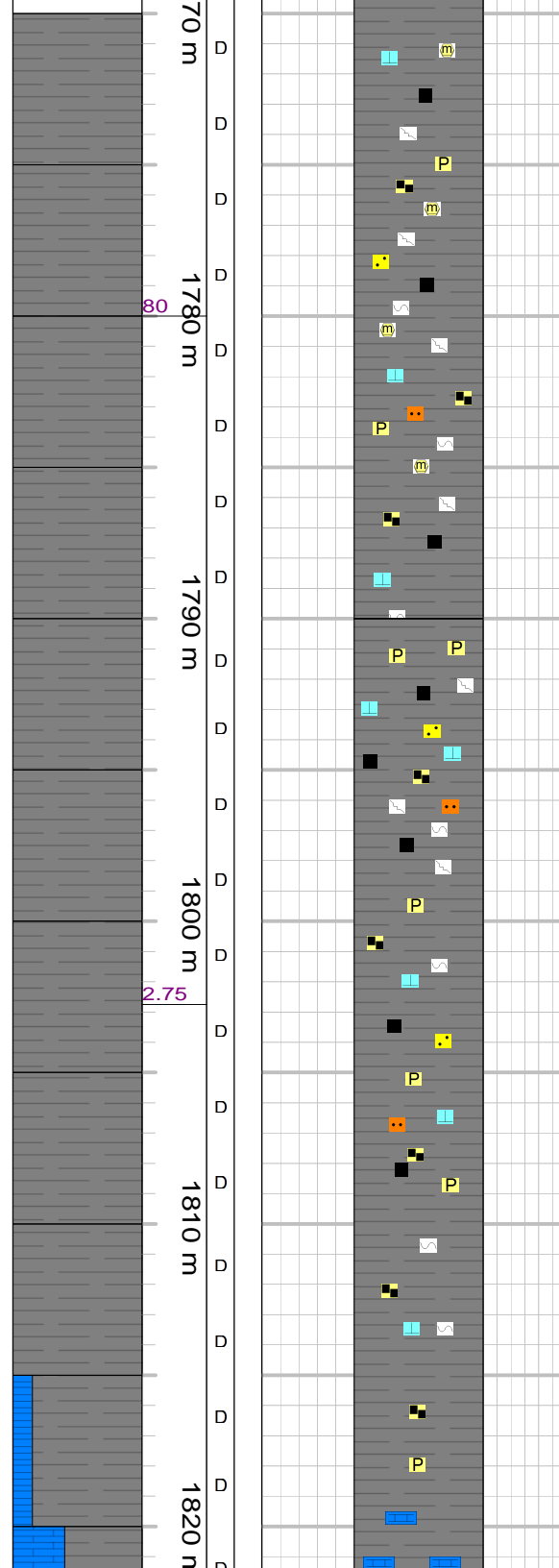
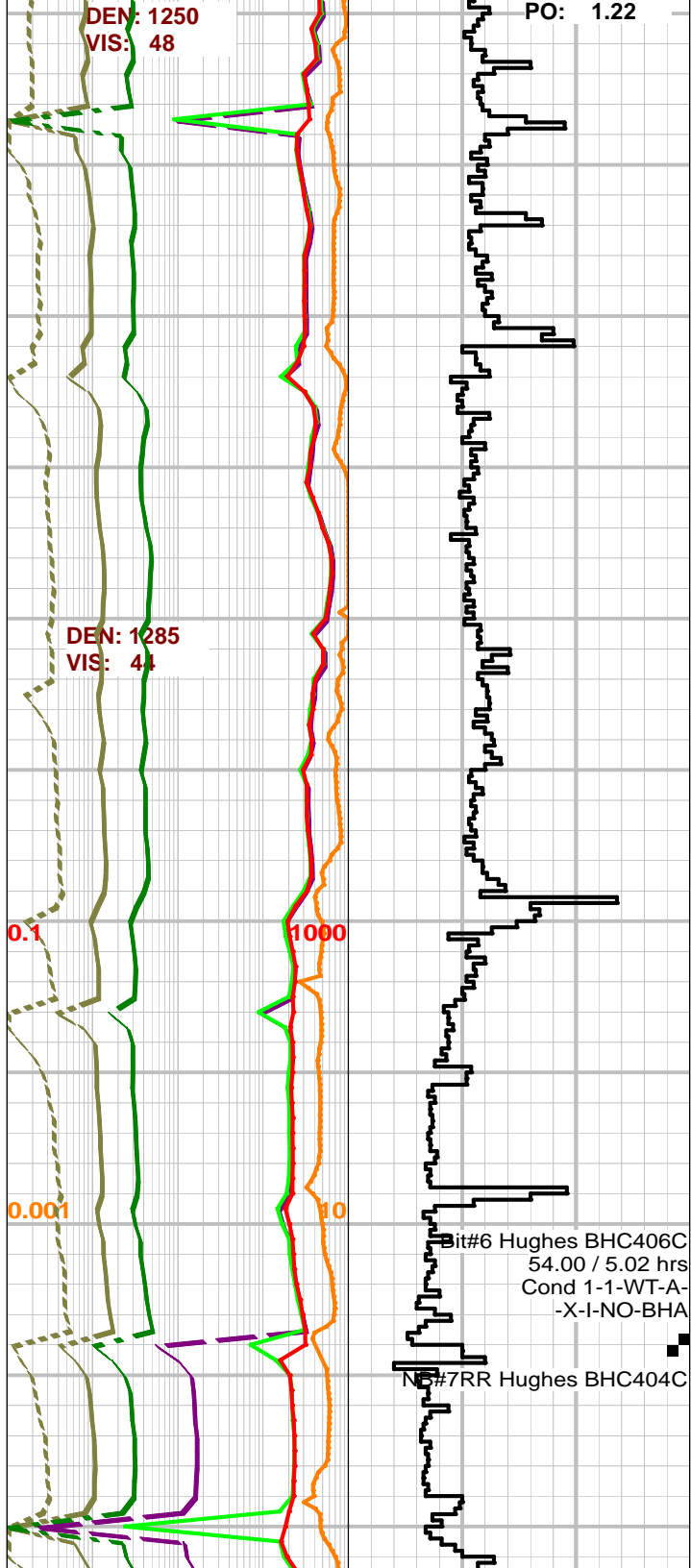
SH: dk gy, blk, sbfis - sbbkly, rthy, sly slty & sdy, carb, tr - occ dism pyr, v rr pyr strs & rr fld voids, rr lt cht grs, sft - frm.

SH: dk gy - blk, sbfis - sbbkly, rthy, sly slty & sdy, carb, tr dism pyr, sft.

SH: dk gy - blk, sbfis - sbbkly, rthy, slty & sdy, carb, occ dism pyr, tr - occ dk cht grs, sft - frm.

SH: blksh, dk gy, dk brn, sbfis - sbbkly, rthy, carb, com coal flks, tr dism pyr, rr pyric blebs, sks, fracs, tr mica flks, v sft - sft, no flor, fairly quick milky yel stmg & blomg cut, occ m brn o resd.

2 (100.93%)



SH: blksh, dk gy, dk brn, sbfis - sbbly, rthy, carb, com coal flks, tr dism pyr, rr pyric blebs, occ sks, fracs, tr mica flks, v sft - sft, no flor, fairly quick milky yel stmg & blong cut, m brn o resd.

Hare Indian
(TVD: 1779.52)
(SSL: -1520.72)

SH: blksh, dk gy, dk brn, sbfis - sbbly, rthy, carb, com coal flks, tr dism pyr, tr pyric str, occ sks, fracs, tr mica flks, rr calcs str, v sft - sft, no flor, fairly quick milky yel stmg & blong cut, m brn o resd.

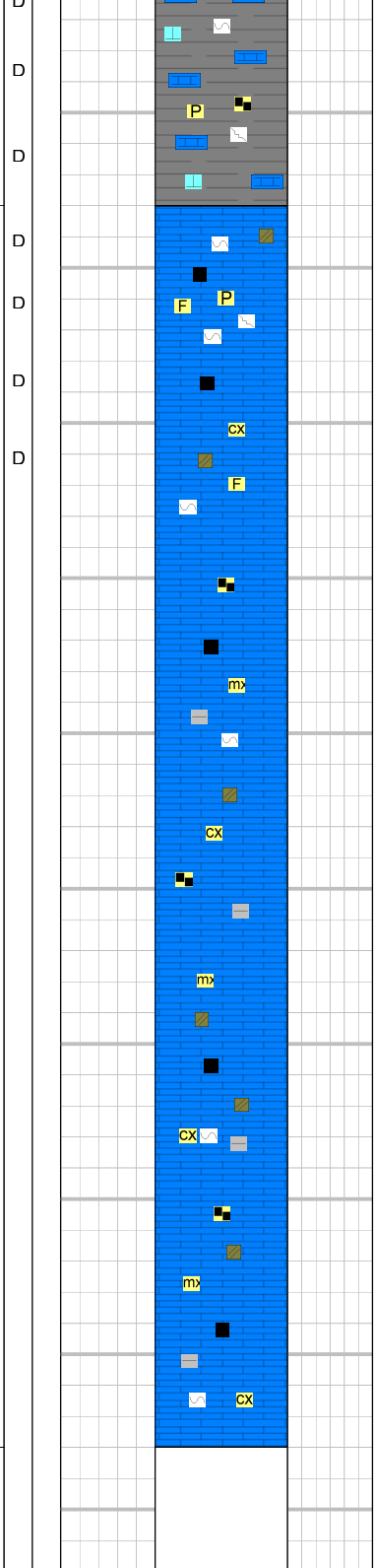
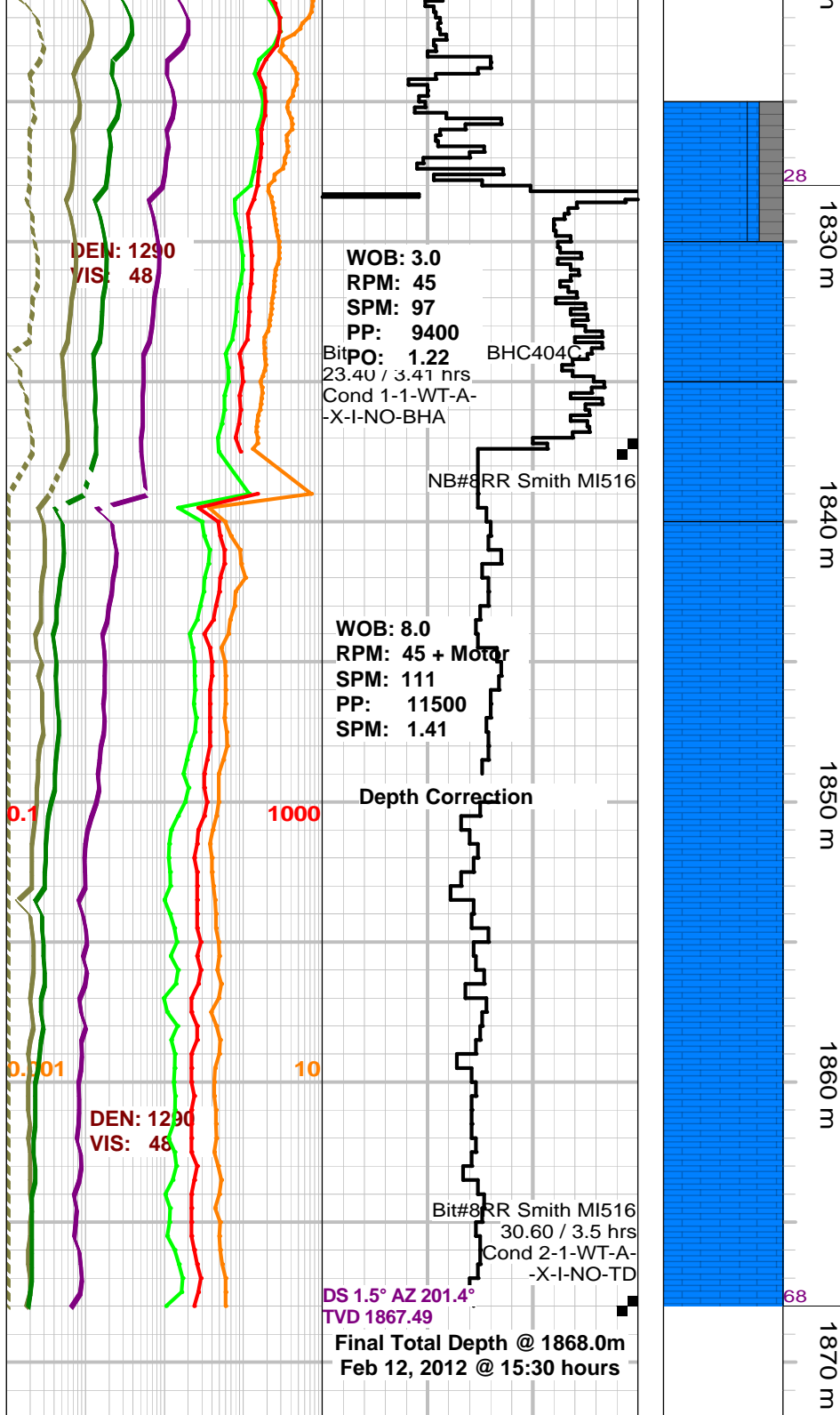
SH: dk brn, dk gy, blksh, sbfis - sbbly, rthy, carb, coal flks, tr dism pyr, tr pyric str pos fracs, tr calcs, str, v sft - sft, no flor, fairly fast milky yel stmg & blong cut, m brn o resd.

Bluefish
(TVD: 1802.26)
(SSL: -1543.46)

SH: dk brn, dk gy, occ blksh, sbfis - sbbly, rthy, carb, coal flks, tr dism pyr, tr pyr fld fracs, tr calcs str, sily calcs, v sft - sft, no flor, fairly fast milky yel stmg & blong cut, m brn o resd.

SH: dk brn, dk gy, occ blksh, sbfis - sbbly, aa.

3 (100%)



LS: brnsh, wh ip, mot, micxl - vf xln, v arg, rr
dism pyr, fos, v sft, tt - p (0 - 4%) intxl por.

Hume
(TVD: 1827.50)
(SSL: -1568.70)

LS: lt brn, off wh, sily mot, micric, chky, arg,
occ fos frags, rr dism pyr, rr coal flks - bits, tt
- p (0- 4%) intxl por.

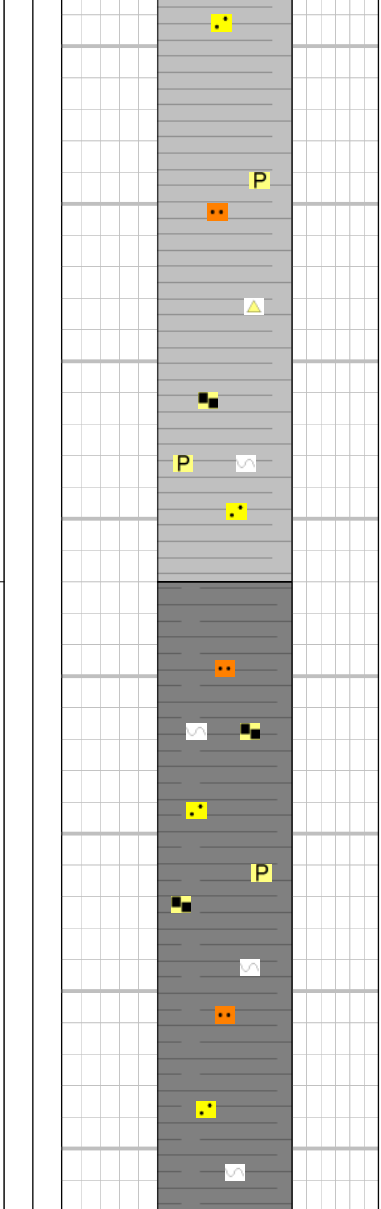
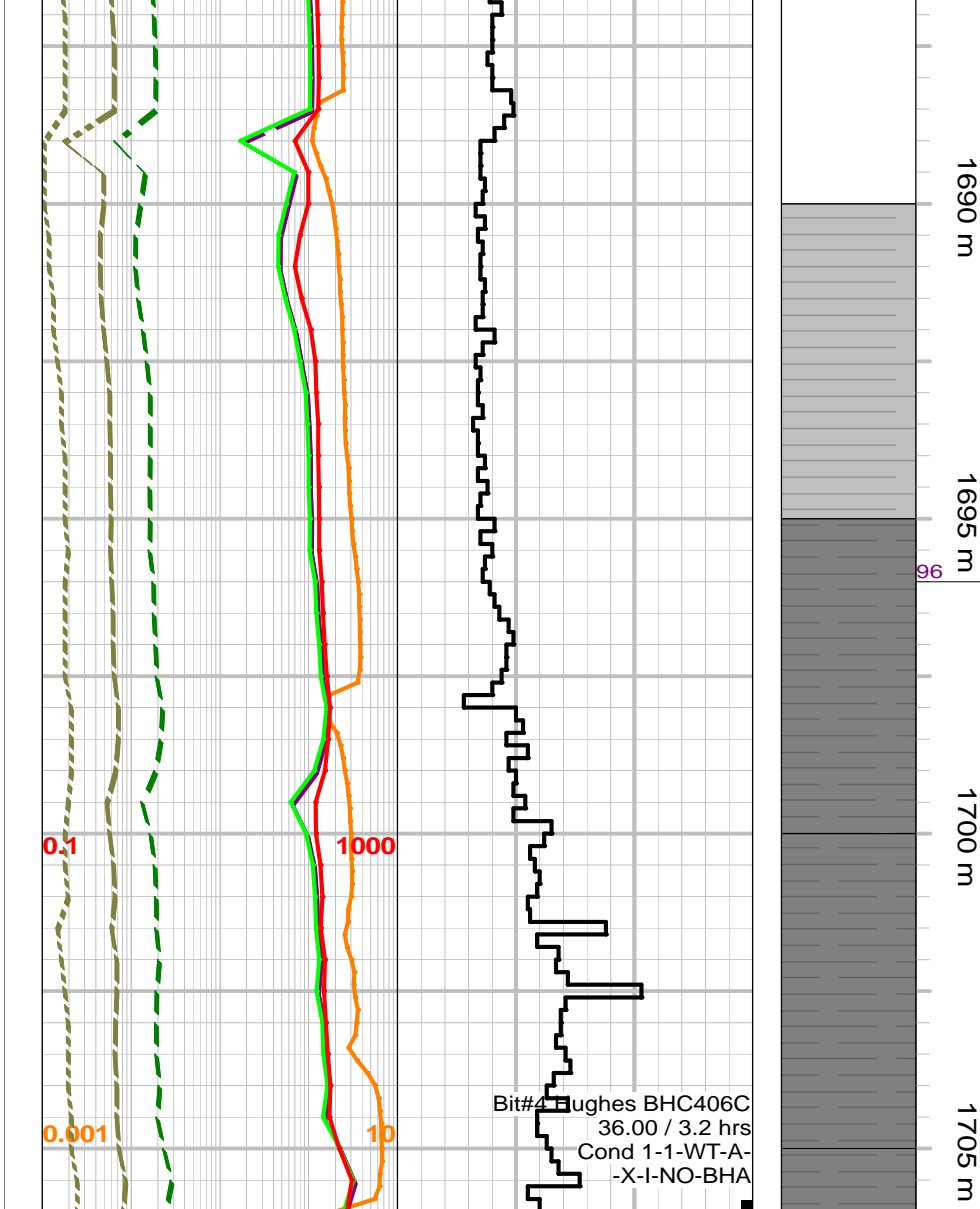
LS: lt brn, sily mot, crpxl - micxl, chky, sily
arg, rr dk Sh strs, rr anhy xls, rr anhy fldd
micfracs, rr coal flks, v rr bits matl, tt.

LS: lt brn, sily mot, crpxl - micxl, chky, sily
arg, rr dk Sh strs, rr anhy xls, tr carb - tr coal
flks, rr bits matl, tt.

LS: lt brn, sily mot, crpxl - micxl, chky, sily
arg, rr dk Sh strs, tr anhy xls, tr carb - tr coal
flks, rr bits matl, tt.

LS: lt brn, sily mot, crpxl - micxl, chky, sily
arg, tr carb - tr coal flks, tr bits, incrg from
abv, tr anhy xls, sily anhyic, tt.

Final Total Depth
(TVD: 1867.49)
(SSL: -1608.69)



1688.65 - 1688.65m SH: dk gy, dk brn, blksh, sbfis - sbblky, rthy, slty & sdy, tr mic carb, tr dism pyr, rr lt cht grs, sft - frm.

1690.15 - 1690.15m SH: dk gy, dk brn, blksh, sbfis - sbblky, rthy, slty & sdy, tr mic carb, tr dism pyr, tr pyric nods, sft - frm.

SH: m - dk brn gy, tr blk, bcmg dkr than abv, sbfis - sbblky, rthy, slty & sdy, rr mic carb, tr dism pyr, rr pyric spots, tr lt cht grs, sft - frm.

1696.3 - 1696.3m SH: dk gy, dk brn, blksh, sbfis - sbblky, rthy, slly slty & sdy, tr mic carb - tr coal flks, bits ip, tr dism pyr, sft - frm.

**Lower Canol
(TVD: 1695.55)
(SSL: -1436.75)**

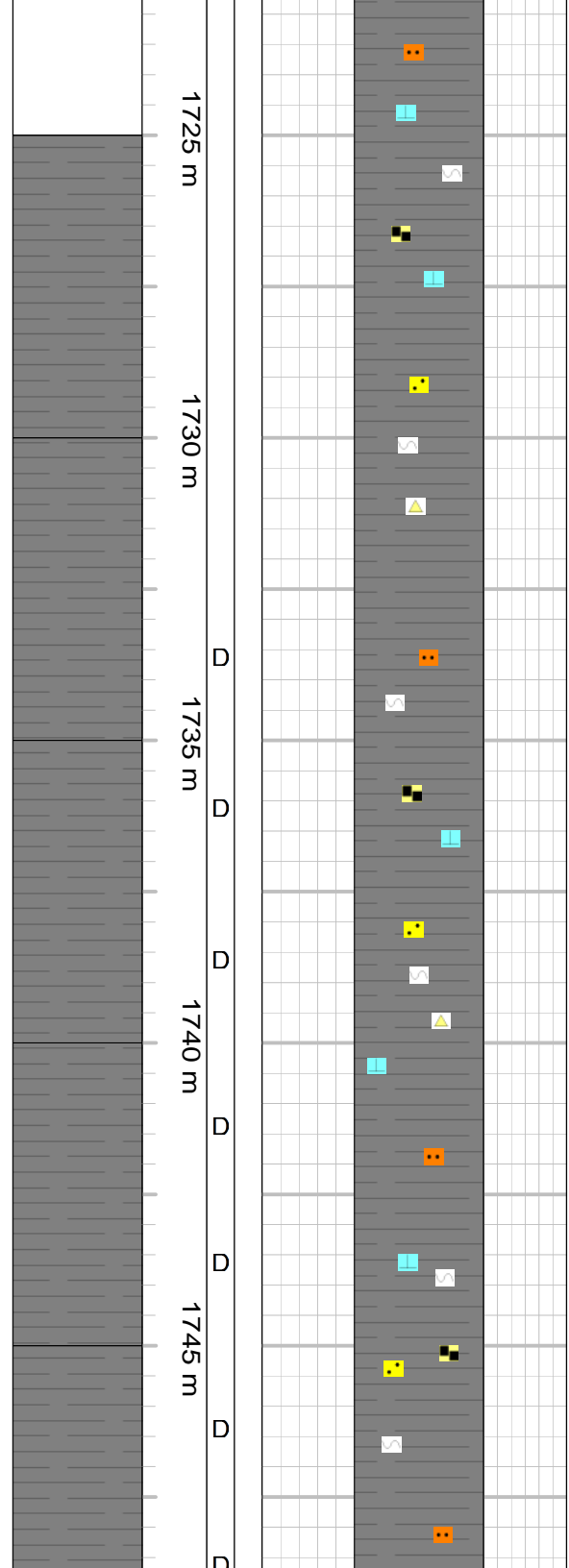
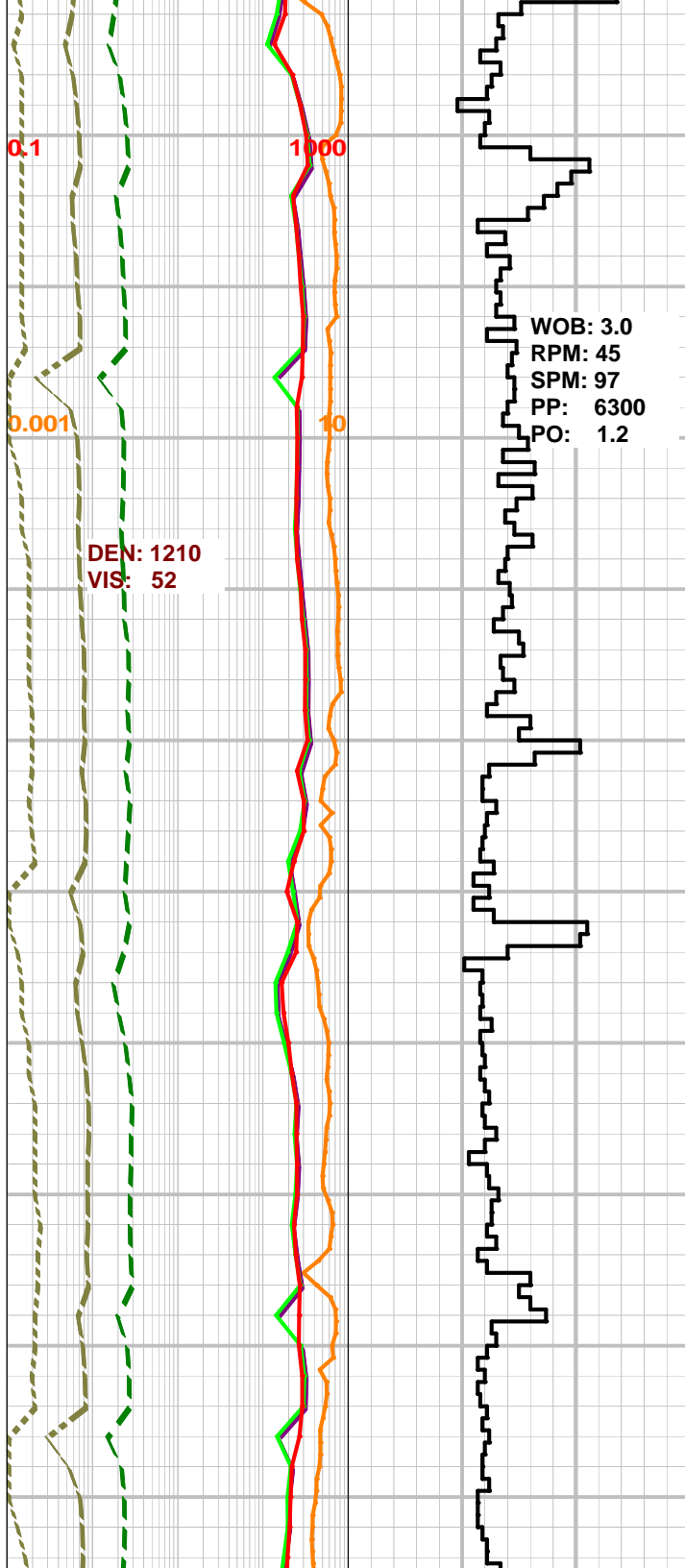
1696.3 - 1696.3m SH: dk gy, dk brn, blksh, sbfis - sbblky, rthy, slly slty & sdy, tr mic carb - tr coal flks, bits ip, tr dism pyr, sft - frm.

1700.8 - 1700.8m SH: dk gy, dk brn, blksh, sbfis - sbblky, rthy, slly slty & sdy, tr mic carb - tr coal flks, bits, tr dism pyr, sft - frm.

SH: dk gy - blk, sbfis - sbblky, rthy, slty & sdy, carb, tr dism pyr, rr pyric blebs, v sft, no flor, slow bri yel blomg cut, faster than abv Sh, v sft.

1705.8 - 1705.8m SH: dk gy, dk brn, blksh, sbfis - sbblky, rthy, slly slty & sdy, tr mic carb - tr coal flks, bits, tr dism pyr, sft - frm.

SH: dk gy - blk, sbfis - sbblky, rthy, slly slty &



1725 m

1730 m

1735 m

1740 m

1745 m

D

D

D

D

D

D

D

1728.2 - 1728.2m SH: dk gy, blk, sily hockey pucks, sily sbfis, carb, occ coal flks, occ bits, tr - occ dism pyr, sft - frm,

SH: blk, dk gy, sbfis - sbblky, rthy, sily slty & sdy, carb, tr dism pyr, tr calcs flld voids, rr calc xls, sft - frm.

1729.7 - 1729.7m SH: dk gy, blk, sily hockey pucks, sily sbfis, carb, occ - com coal flks, v bits, tr - occ dism pyr, sft - frm,

SH: dk gy, blk, sbfis - sbblky, rthy, sily slty & sdy, carb, tr dism pyr, rr pyr str, rr lt cht grs, sft - frm.

1734.4 - 1734.4m SH: dk gy, blk, sily hockey pucks, sily sbfis, carb, tr - occ coal flks, v bits, tr - occ dism pyr, sft - frm,

SH: dk gy, blk, sbfis - sbblky, rthy, sily slty & sdy, carb, tr - occ dism pyr, v rr pyr str & rr flld voids, rr lt cht grs, sft - frm.

1737.4 - 1737.4m SH: dk gy, blk, sily hockey pucks, sily sbfis, carb, occ - com coal flks, v bits, tr - occ dism pyr, sft - frm,

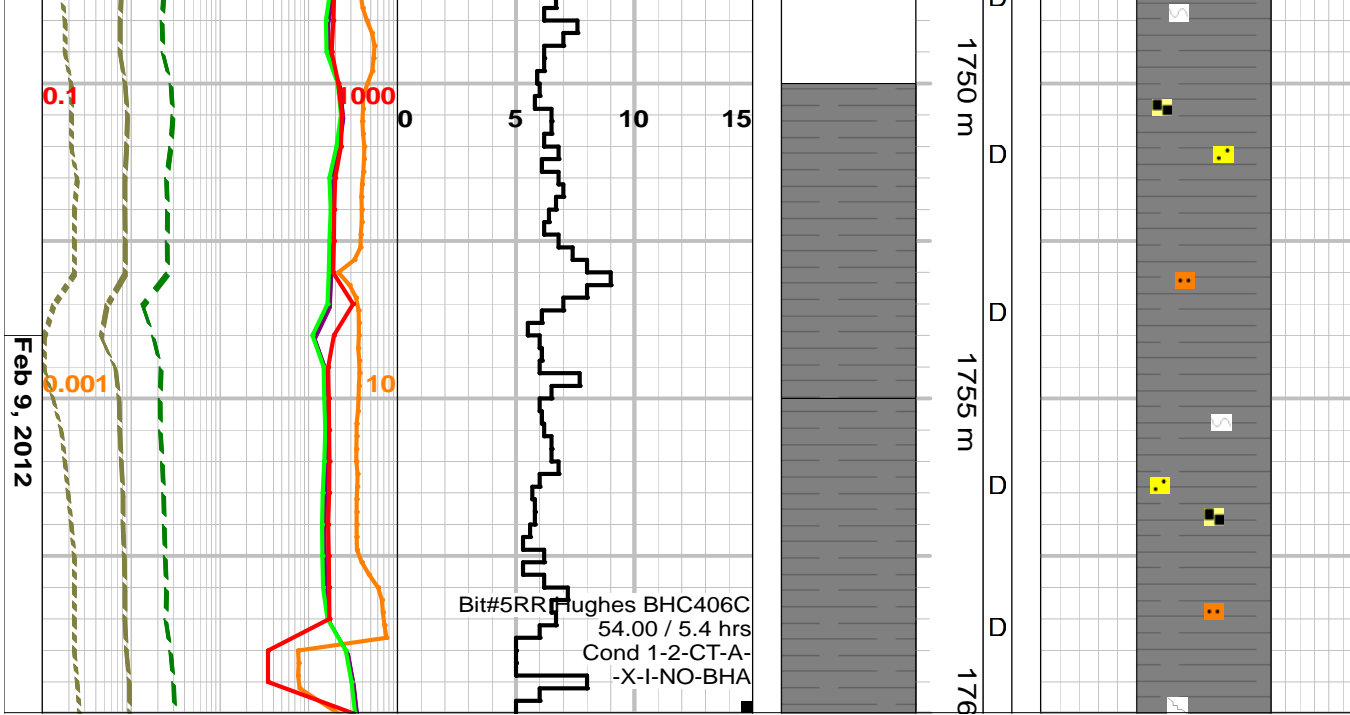
1741.4 - 1741.4m SH: dk gy, blk, sily hockey pucks, sily sbfis, carb, occ - com coal flks, v bits, tr - occ dism pyr, sft - frm,

1745.1 - 1745.1m SH: dk gy, blk, sily hockey pucks, sily sbfis, carb, com coal flks, v bits, tr dism pyr, sft - frm,

SH: dk gy - blk, sbfis - sbblky, rthy, sily slty & sdy, carb, tr dism pyr, sft.

1748.1 - 1748.1m SH: blk, dk gy, sily hockey

2 (100.93%)



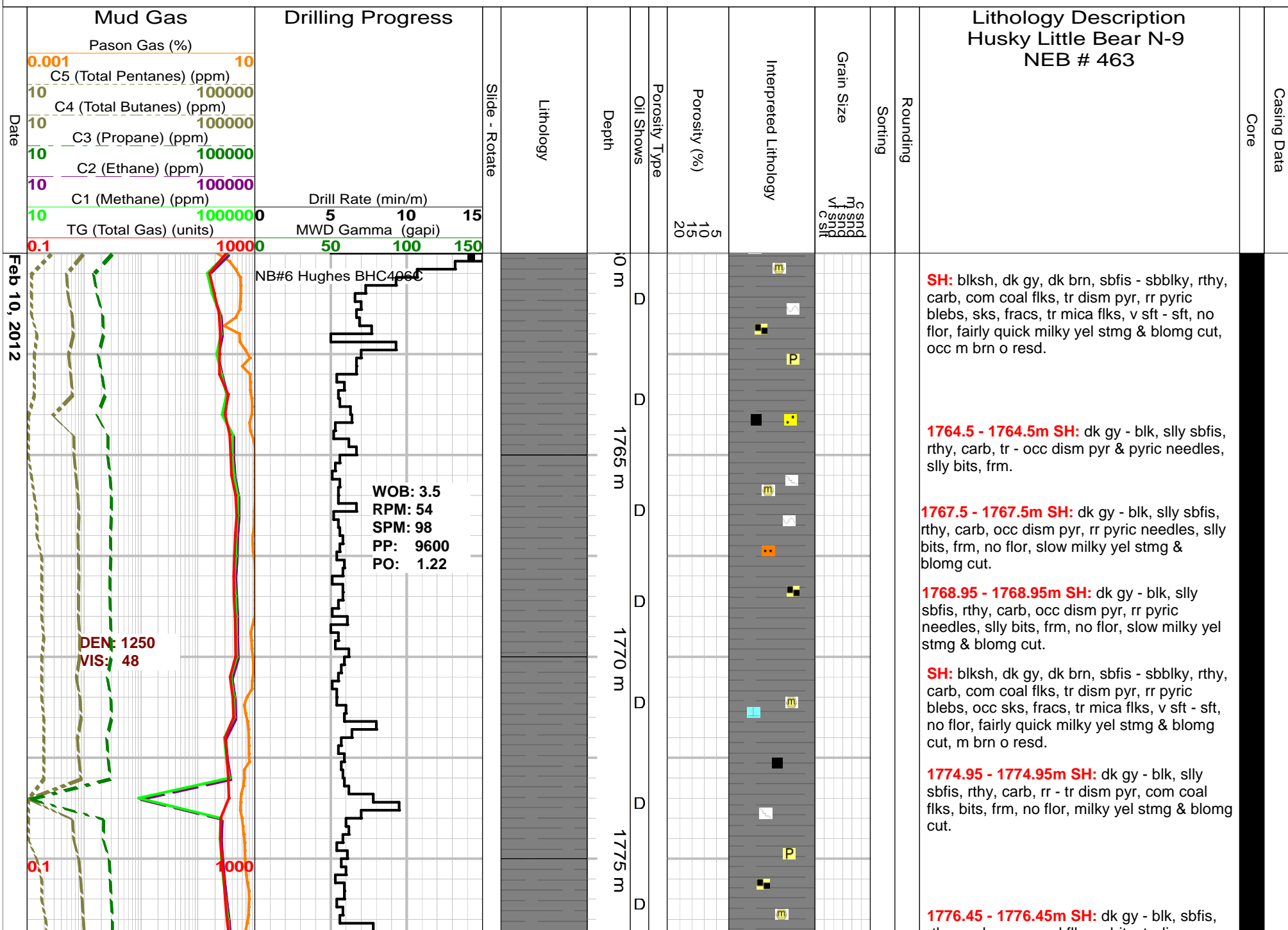
pucks, sly sbfis, carb, occ - com coal flks, v bits, tr - occ dism pyr, sft - frm,

SH: dk gy - blk, sbfis - sbblky, rthy, slty & sdy, carb, occ dism pyr, tr - occ dk cht grs, sft - frm.

1752.8 - 1752.8m SH: blk, dk gy, sbfis, sly hockey pucks, carb, v coaly, v bits, tr dism pyr, sft - frm.

1758.8 - 1758.8m SH: blk, dk gy, sbfis, sly hockey pucks, carb, v coaly, v bits, tr dism pyr, sft - frm.

Expanded Core Log (1:120) Feb 10, 2011
Core #3 Interval: 1760.00m to 1814.00m Cut: 54m Recovered: 54m (100%)

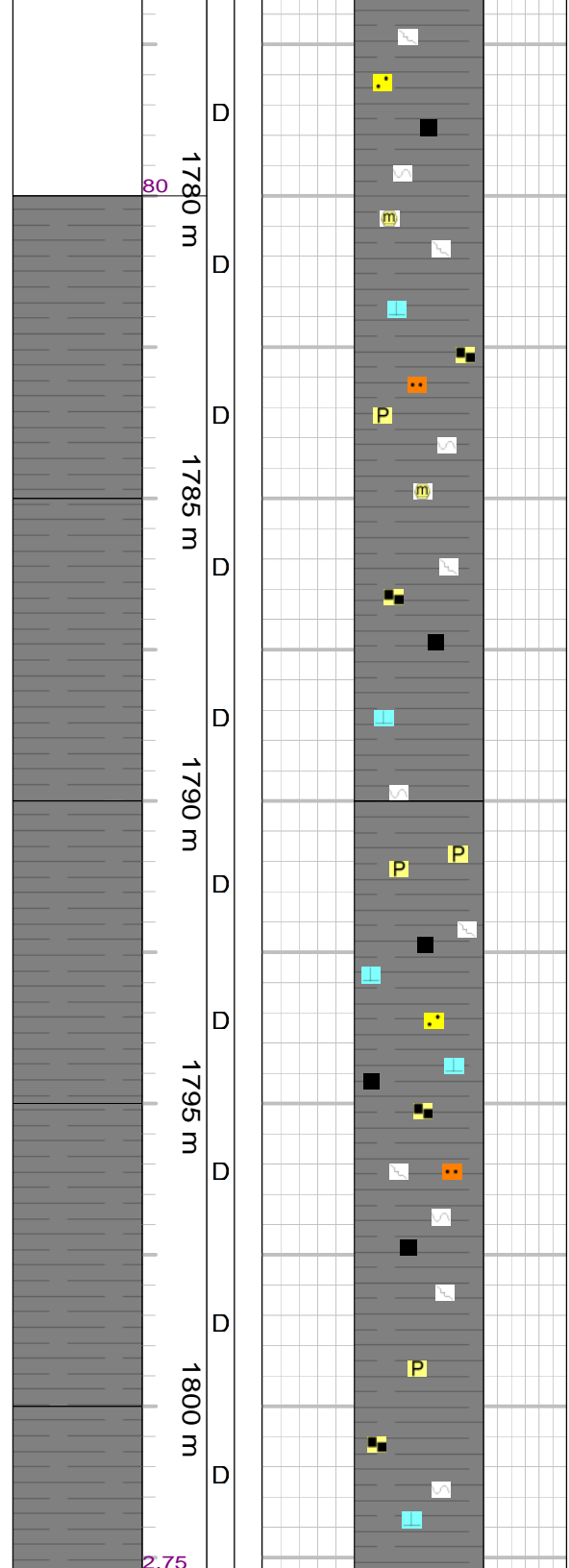
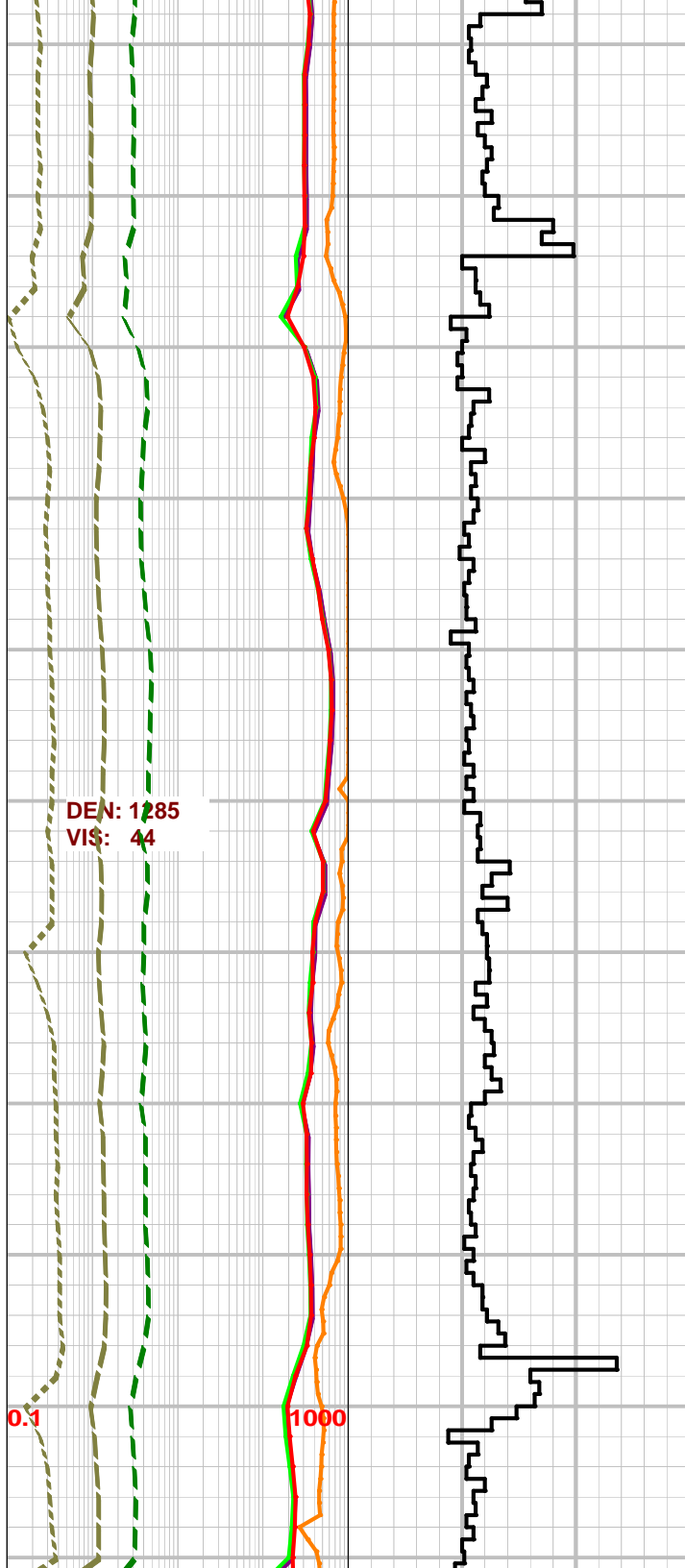


NB#6 Hughes BHC466C

WOB: 3.5
RPM: 54
SPM: 98
PP: 9600
PO: 1.22

DEN: 1250
VIS: 48

Feb 10, 2012



rthy, carb, com coal flks, v bits, tr dism pyr, sly calcs, sft - frm, no flor, fairly fast milky yel blomg & stmg cut.

1777.45 - 1777.45m SH: dk gy - blk, sbfis, rthy, carb, com coal flks, v bits, tr dism pyr, bcmg more calcs, sft - frm, no flor, fairly fast milky yel blomg & stmg cut.

Hare Indian
(TVD: 1779.52)
(SSL: -1520.72)

1781.2 - 1781.2m SH: dk gy - blk, sly sbfis, rthy, carb, com coal flks, v bits, v sly calcs, sft - frm, no flor, fairly fast bri milky yel blomg & stmg cut.

1784.2 - 1784.2m SH: dk gy - blk, sbfis, rthy, carb, com coal flks, v bits, occ dism pyr, sft - frm, no flor, fairly fast bri milky yel stmg & blomg cut.

SH: blksh, dk gy, dk brn, sbfis - sbblky, rthy, carb, com coal flks, tr dism pyr, tr pyric strs, occ sks, fracs, tr mica flks, rr calcs strs, v sft - sft, no flor, fairly quick milky yel stmg & blomg cut, m brn o resd.

1787.55 - 1787.55m SH: dk gy - blk, sly sbfis, rthy, carb, rr dism pyr, com coal flks, sly calcs, bits, sft - frm, no flor, fairly fast bri milky yel stmg & blomg cut.

SH: dk brn, dk gy, blksh, sbfis - sbblky, rthy, carb, coal flks, tr dism pyr, tr pyric strs pos fracs, tr calcs, strs, v sft - sft, no flor, fairly fast milky yel stmg & blomg cut, m brn o resd.

1792.05 - 1792.05m SH: dk gy - blk, sbfis, rthy, carb, com coal flks, v bits, v pyric ip, pyric strs, sft - frm,

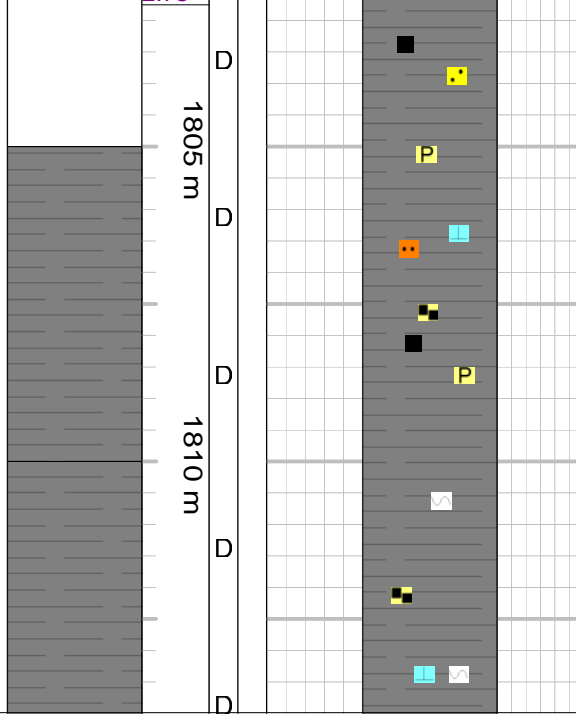
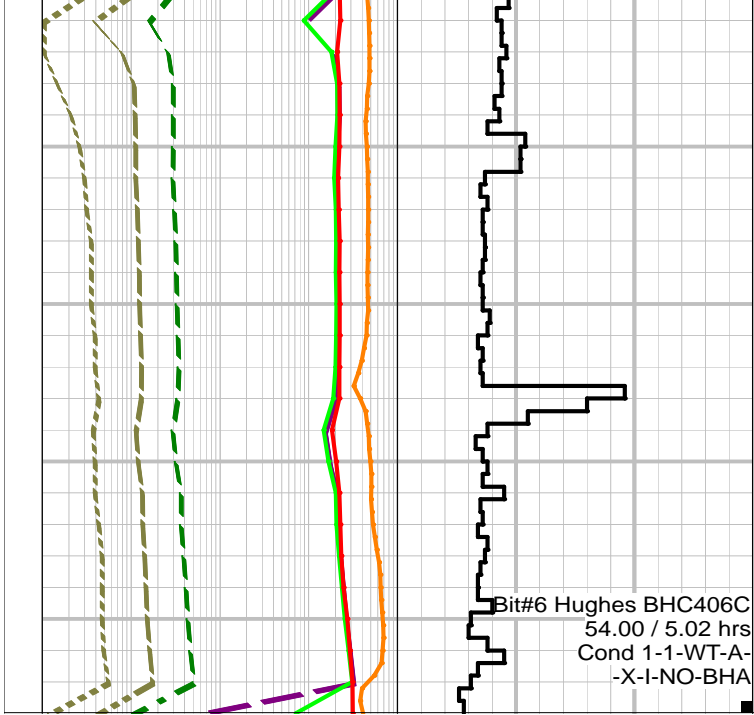
1795.05 - 1795.05m SH: dk gy - blk, sly sbfis, rthy, cab, occ - com coal flks, v bits, rr dism pyr, v sly calcs, sft - frm.

1796.05 - 1796.05m SH: dk gy - blk, sly sbfis, rthy, cab, occ coal flks, v bits, tr dism pyr, v sly calcs, sft - frm, no flor, fairly fast milky yel blomg & stmg cut.

1798.25 - 1798.25m SH: dk gy - blk, sly sbfis, rthy, carb, occ coal flks, v bits, tr dism pyr, v sly calcs, sft - frm, no flor, fairly fast milky yel blomg & stmg cut.

1801.25 - 1801.25m SH: dk gy - blk, sly sbfis, rthy, carb, occ coal flks, v bits, rr - tr dism pyr, v sly calcs, sft - frm, no flor, fairly fast milky yel blomg & stmg cut.

3 (100%)



Bluefish
(TVD: 1802.26)
(SSL: -1543.46)

SH: dk brn, dk gy, occ blksh, sbfis - sbbkly, rthy, carb, coal flks, tr disp pyr, tr pyr fld fracs, tr calcs strcs, silly calcs, v sft - sft, no flor, fairly fast milky yel stmg & blong cut, m brn o resd.

1808.95 - 1808.95m SH: dk brn, dk gy - blk, silly mot, silly sbfis, rthy, tr - occ lt cht grs, tr coal flks, bits ip, tr - occ disp pyr, sft - frm, no flor, fairly fast bri milky yel stmg & blong cut.

1811.95 - 1811.95m SH: dk brn, dk gy, blksh, silly mot, sbfis, rthy, tr disp pyr, tr coal flks, bits ip, tr - occ disp pyr, sft - frm, no flor, fairly fast bri milky stmg & blong cut.

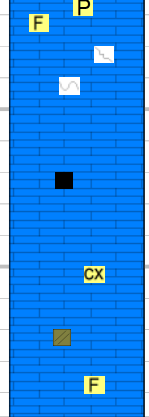
1814.35 - 1814.35m SH: dk brn, dk gy, blksh, sbfis, rthy, abnt coal flks, v bits, tr disp pyr, tr lt cht grs, sft - frm, no flor, fairly

SPM: 97
PP: 9400
PO: 1.22

Bit#7RR Hughes BHC404
23.40 / 3.41 hrs
Cond 1-1-WT-A-
-X-I-NO-BHA

1835 m

D
D
D



LS: lt brn, off wh, sly mot, micric, chky, arg, occ fos frags, rr dism pyr, rr coal flks - bits, tt - p (0- 4%) intxl por.

1830 - 1830m LS: m - dk brn, crpxl, sly arg, occ coal flks - bits, com fos frags, pyric fos frags, rr mic frags, tt.

1833 - 1833m LS: m brn, crpxl, mas dns, sly arg, occ coal flks - bits, com fos frags, pyric fos frags, tr dolc fild micfracs, dolc ip, grdg t to Dolc Ls, tt.