

LO6-32D

MASTERLOG TVD

SCALE: 1 : 500

WELL DATA

WELL NAME / CLASIFICACION	LO6-32D / DEVELOPMENT
CONTRACT	SERVICIOS
TOTAL MEASURED DEPTH, f	8209.0
TOTAL VERTICAL DEPTH (TVD), f	4120.0
COMPANIES: OPERATOR / PARTNERS	SAVIA / TGT LAB SAC
COUNTRY / COUNTY	PERU / PIURA
FIELD	LOBITOS OFFSHORE
SURFACE COORDINATES	9 508 658.67 / 459 048.46
SPUD DATE	07-Oct-13
T. D. DATE	15-Nov-13
INTERVAL LOGGED	455 - 8209 ft
DRILLING RIG	PEPESA 40
DRILL FLOOR ELEVATION, f	50.00
GROUND LEVEL ELEVATION (GL), f	-335.00
BOTTOM COORDINATES	
CREW	L. AGURTO/R. OTOYA/G.CARDOZA/E. SANTISTE...
WITNESSED BY	Augusto ORTEGA
NOTE	MUD TYPE: CLAYSEAL/BARADRIL-N



Rock Types

	Shale		Claystone		Siltstone
	Sandstone		Conglomerate		Sand
	Limestone		Dolomite		Argillite
	Phyllite		Slate		Quartzite
	Intrusive		Quartz		Anhydrite
	Schist		Volcanic		Tuff
	Volcanic Breccia		Others		

Mud Abbreviations

MW	Mud Weight (ppg)	NB	New Bit
V	Viscosity (Sec/qt)	ST	Short Trip
PV	Plastic Viscosity (cp)	DST	Drill Steam Test
YP	Yield Point (lb/100ft^2)	LAT	Logger After Trip
WL	Filtrate (cc)	WOB	Weight on Bit (klbsf)
Gel	Gel (10 sec/10 min)	RPM	Revolutions per Minute (rpm)
MC	Mud Cake (API)	PP	Pump Pressure (psi)
Sal	Salinity (mg/lit)	SPM	Strokes per Minute (spm)
pH	Hydrogen Potential (pH)	GPM	Galons per Minute
Rm	Mud Resistivity (Ohm*m)	FG	Formation Gas
Rmf	Mud Filtrate Resistivity (Ohm*...)	TG	Trip Gas
Rmc	Mud Cake Resistivity (Ohm*m)	GC	Connection Gas
LC	Lost Circulation (Bbls)	SG	Swab Gas
O/W	Oil / Water Ratio (%)	SWC	Side Wall Core

Drilling Abbreviations

Traces

	ANHYDRITE		CALCITE		CHERT
	CHLORITE		COAL		DOLOMITE
	FELDSPAR		FIBROUS CALCITE		FOSSIL
	GLAUCONITE		GYPSUM		HEMATITE
	SHELL FRAG		IRON OXIDES		KAOLINITE
	LIGNITE		LIMESTONE		LIMONITE
	MARL		SLICKENSIDE		MICA
	MUSCOVITE		OPALE		PELLETS
	PHOSPHATES		PLANTS REMAINS		PYRITE
	BENTONITE		SIDERITE		ASPHALT
	MILONITE		FORAMINIFEROUS		SHELL FRAGMENT

Oil Shows

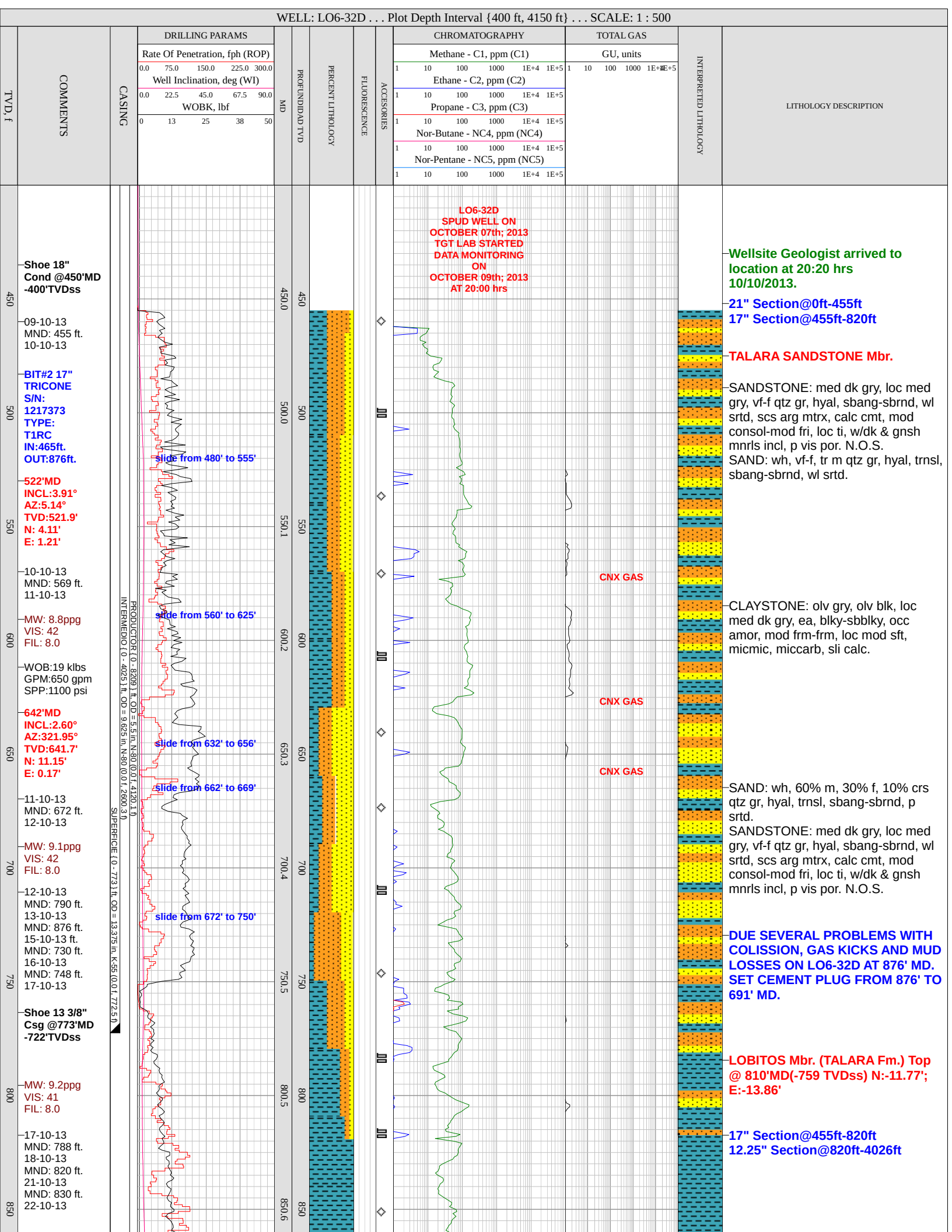
	TRACES		POOR		FAIR
	GOOD		VERY GOOD		

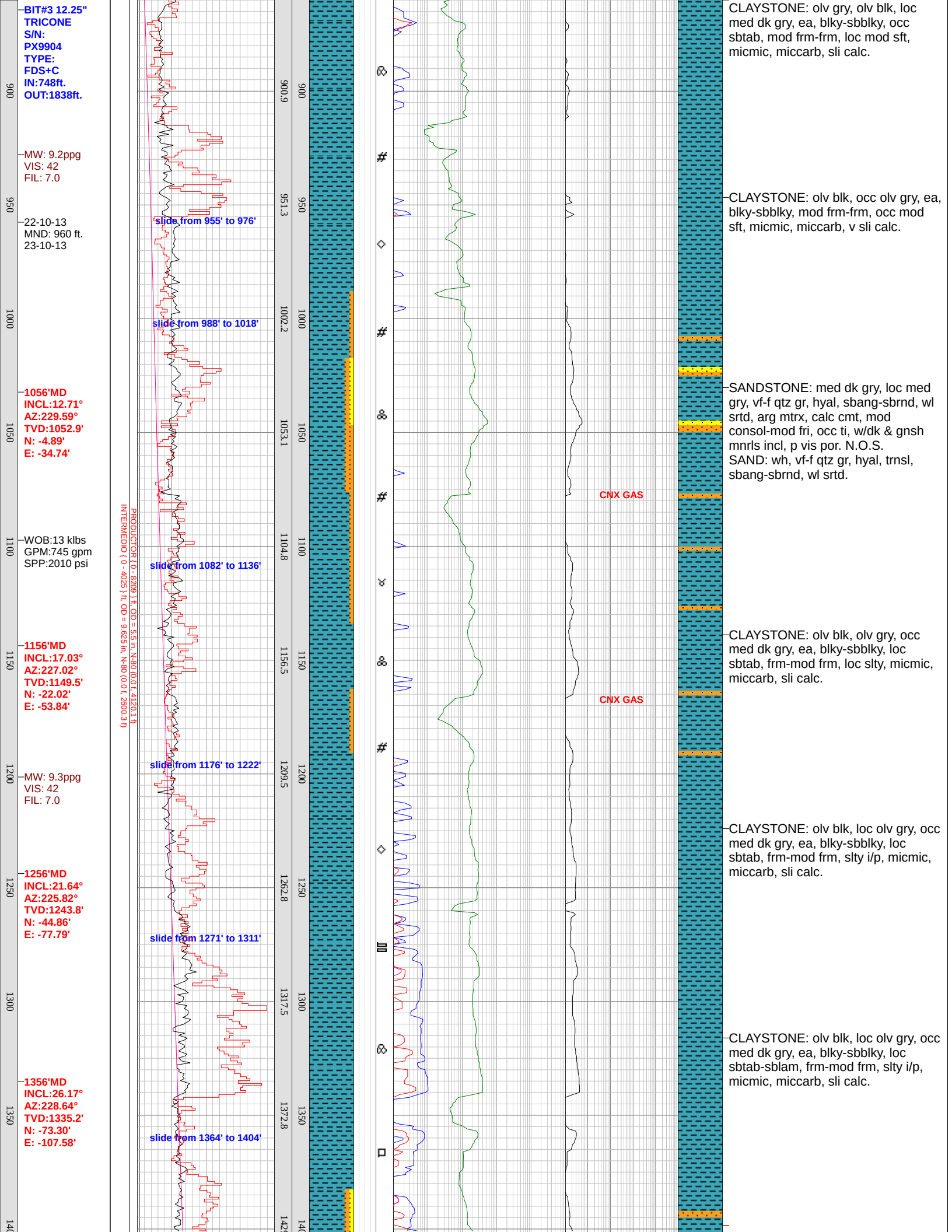
Contaminated Sample

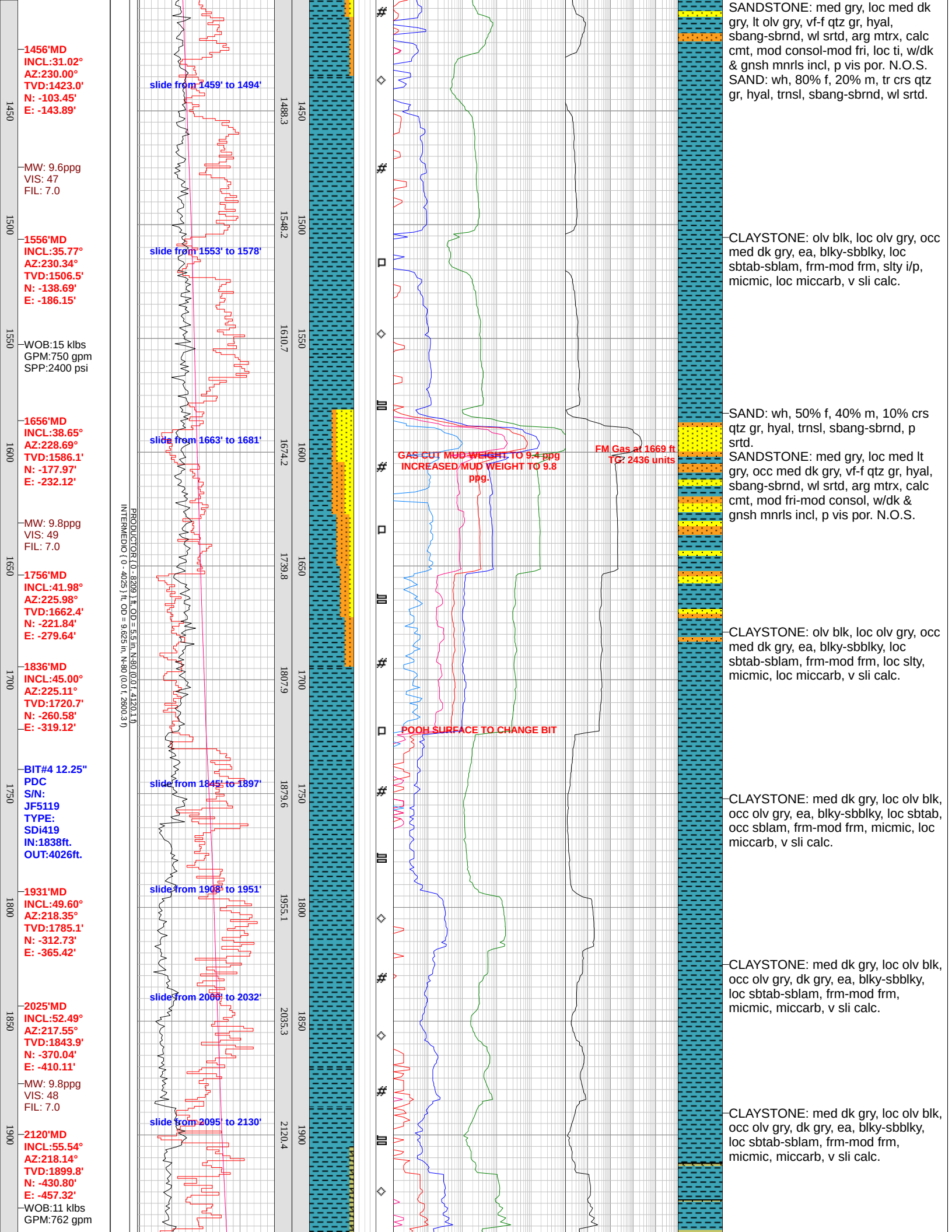
	VERY LOW (10%)		LOW (10-30)%		MODERATE (30-50)%
	HIGH (50-70)%		VERY HIGH (>70)%		

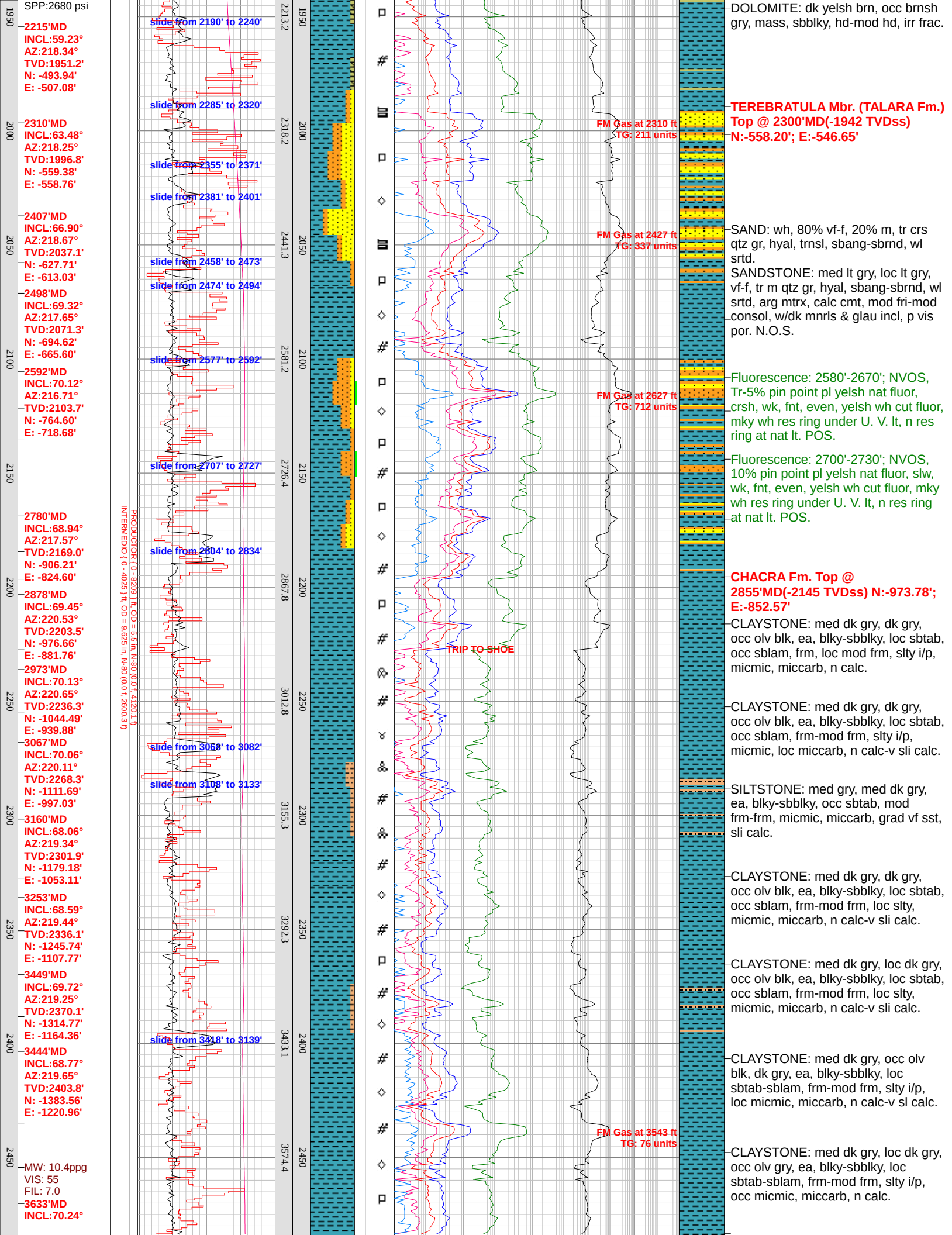
General Symbols

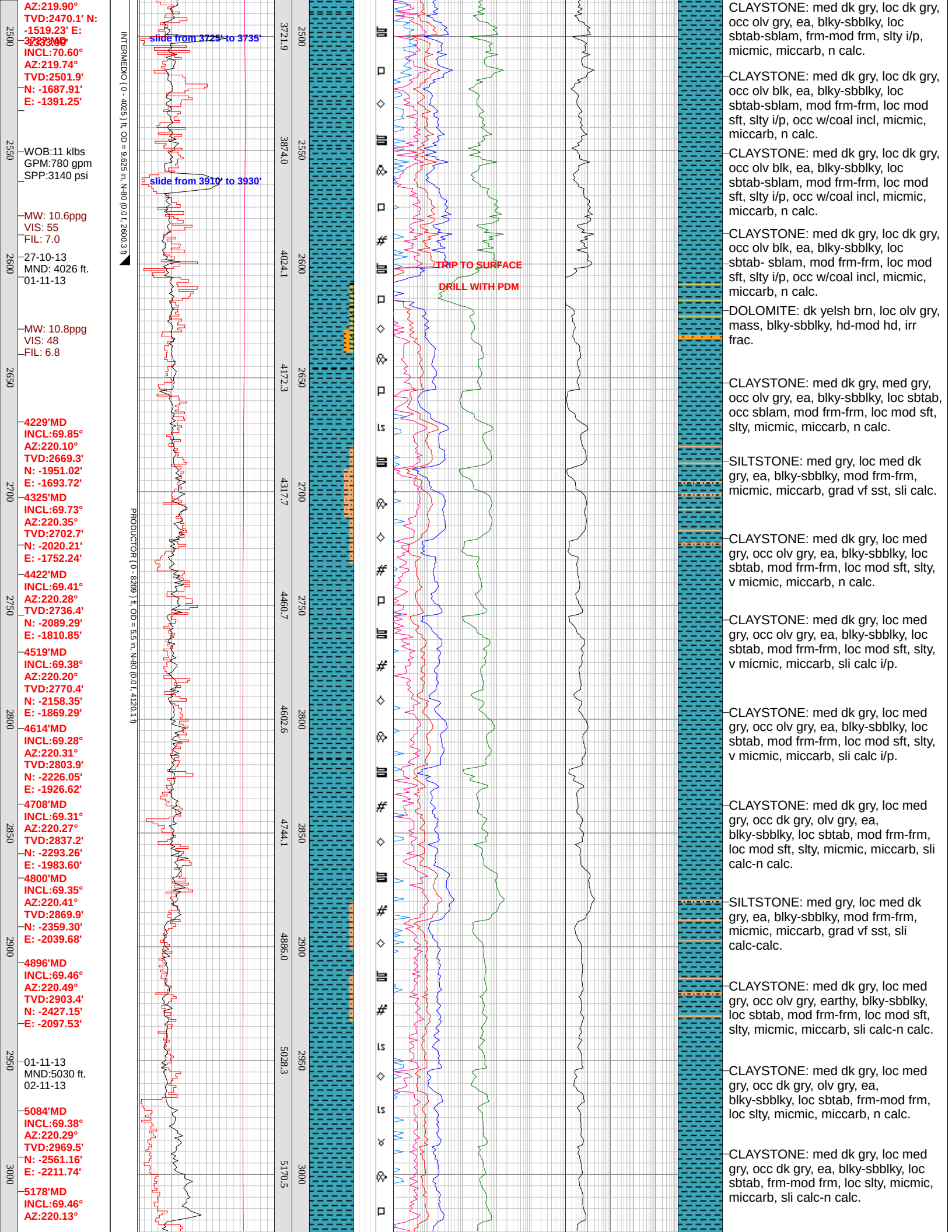
	SWC with oil		SWC without oil		Casing Shoe
	Normal Fault		Inverse Fault		Mud Gain
	Mud Loss		Bit Changed		Deviation Survey
	Formation Gas		Background Gas		Trip Gas or Swab Gas
	Connection Gas		Gas H2S		Gas CO2











52228 MD
 TVD:3002.8' N:
 INCL:69.75°
 AZ:220.26°
 TVD:3035.5'
 N: -2696.13'
 E: -2325.81'

5367 MD
 INCL:69.97°
 AZ:220.54°
 TVD:3068.0'
 N: -2763.55'
 E: -2383.19'

WOB:10 klbs
 GPM:550 gpm
 SPP:2550 psi

MW: 11.0ppg
 VIS: 51
 FIL: 6.0

5744 MD
 INCL:69.97°
 AZ:220.06°
 TVD:3197.2'
 N: -3033.92'
 E: -2611.96'

MW: 11.0ppg
 VIS: 53
 FIL: 6.0

03-11-13
 MND: 5984 ft.
 10-11-13

WOB:10-20 klbs
 GPM:560 gpm
 SPP:2500 psi

6119 MD
 INCL:70.12°
 AZ:222.12°
 TVD:3325.2'
 N: -3300.56'
 E: -2842.28'

6215 MD
 INCL:69.78°
 AZ:222.76°
 TVD:3358.1'
 N: -3367.20'
 E: -2903.22'

6310 MD
 INCL:69.57°
 AZ:223.02°
 TVD:3391.2'
 N: -3432.67'
 E: -2964.03'

6405 MD
 INCL:69.67°
 AZ:223.41°
 TVD:3424.3'
 N: -3497.43'
 E: -3024.88'

WOB:20 klbs
 GPM:570 gpm
 SPP:2795 psi

MW: 11.0ppg
 VIS: 56
 FIL: 6.5

WOB:15 klbs
 GPM:577 gpm
 SPP:2850 psi

PRODUCER (0.8209) ft, OD = 5.5 in, N=80 (0.014201) ft

WIPER TRIP TO SHOE

TRIP TO SHOE DUE TO ROUGH SEAS

TURN OFF SHAKER

GAS READING DECREASE DUE TO PROBLEMS ON SHAKERS

TURN OFF SHAKERS

TURN OFF SHAKERS

SWAB Gas at 5972 ft
 TG: 141 units

FM Gas at 6164 ft
 89 units

FM Gas at 6515 ft
 106 units

CNX Gas at 6551 ft.
 372 units

FM Gas at 6662 ft
 315 units

CNX Gas at 6761 ft.
 182 units

POSS. RIO BRAVO Fm Top @ 6154' MD (-3287.54' TVDss)
 N: -3325.48'; E: -2864.18'

Fluorescence: 6170'-6200'; NVOS, TRACES pin point dull yel nat fluor, crsh, wk, fnt, even, pal yel cut fluor, pal yel res ring under U. V. lt, n res ring at nat lt. VPOS.

SILTSTONE: med dk gry, loc dk gry, med gry, ea, blkly-sbblky, mod frm-frm, micmic, miccarb, grad vf sst, sli calc.

CLAYSTONE: med dk gry, loc dk gry, occ med gry, ea, blkly-sbblky, loc sbtab, frm-mod frm, occ mod sft, slty, occ w/coal incl, micmic, miccarb, sli calc-n calc.

CLAYSTONE: olv gry, loc med dk gry, occ olv blk, ea, blkly-sbblky, loc sbtab, occ sblam, frm-mod frm, loc slty, micmic, miccarb, sli calc.

SANDSTONE: med gry, med dk gry, loc olv gry, vf-f qtz gr, hyal, sbang-sbrnd, wl srted, arg mtrx, scs calc cmt, mod consol-mod fri, loc consol, drty, w/dk mnrls & abd glauc incl, p vis por. N.O.S.

SAND: wh, vf-f qtz gr, hyal, trns, sbang-sbrnd, wl srted.

CLAYSTONE: dk gry, med dk gry, occ med gry, ea, blkly-sbblky, loc sbtab, mod frm-frm, slty, micmic, miccarb, sli calc-n calc.

SILTSTONE: med gry, med dk gry, ea, blkly-sbblky, mod frm-frm, micmic, miccarb, grad vf sst, sli calc.

SANDSTONE: med lt gry, vf, loc f qtz gr, hyal, sbang, wl srted, calc cmt, mod consol, loc fri, loc pyr, occ glau, w dk mnrls incl, p vis por. N.O.S.

CLAYSTONE: med dk gry, occ dk gry, ea, blkly-sbblky, loc sbtab, mod frm, slty i/p, micmic, miccarb, v sli calc.

CLAYSTONE: med dk gry, loc med gry, occ dk gry, ea, blkly-sbblky, loc sbtab, sblam i/part, mod frm, slty, occ w/ coal veins incl, micmic, miccarb, n-v sli calc.

SAND: wh, 50% f, 40% m, 10% crs qtz gr, hyal, trns, sbang-sbrnd, wl srted.

SANDSTONE: lt gry, med lt gry, loc med gry, vf, loc f qtz gr, hyal, sbrnd, wl srted, calc cmt, mod fri-mod consol, w/ shell frag incl, loc w/ dk & gn mnrls incl, p vis por.

SANDSTONE: med lt gry, loc lt gry, vf-f qtz gr, hyal, sbrnd, wl srted, calc cmt, mod consol-fri, w/ dk&gn mnrls incl, p-fr vis por. N.O.S.

SAND: wh, 30% f, 70% m, tr crs qtz gr, hyal, trns, sbang-sbrnd, wl srted.

