

LO6 - 27D

FORMATION EVALUATION LOG (MD)

ESCALA: 1 : 500

DATOS DE POZO

NOMBRE DE POZO / CLASIFICACIÓN	LO6 - 27D / DEVELOPMENT
TIPO DE CONTRATO	SERVICE
PROFUNDIDAD MEDIDA TOTAL, ft	11094.0
PROFUNDIDAD VERTICAL TOTAL (TVD), ft	8331.9
COMPAÑIAS: OPERADORA / SERVICIOS	SAVIA PERU S.A / TGT-LAB S.A.C
PAÍS / ESTADO / MUNICIPIO	PERU / PIURA
CAMPO	LOBITOS FIELD
COORDENADAS	9508655.23 / 459043.07
INICIO PERFORACIÓN	18-Ene-13
TERMINÓ PERFORACIÓN	03-Mar-13
INTERVALO REGISTRADO	620 ft. - 11094 ft.
EQUIPO DE PERFORACIÓN	PEPESA 40
ELEVACIÓN DE LA MESA ROTARIA, ft	50.00
ELEVACIÓN DEL TERRENO (GL), ft	-335.00
TIPO DE LODO	AQUAGEL/EZ-MUD/BARADRIL-N
GRUPO DE TRABAJO	G. CARDOZA/O. HUAMAN/O. OJEDA/A. PEL...
GEÓLOGO DE ÁREA	Dennis PAZ/Augusto ORTEGA
NOTA	



Tipos de Roca

	VOLCÁNICA		DOLOMITA		CALIZA
	ARCILLA		LIMOLITA		ARENISCA
	ARENA		CONGLOMERA...		ESQUISTO
	LUTITA		FILITA		BRECHA VOLCANICA
	ARCILLOTITA		BRECHA VOLCANICA		CUARZITA PALEO
	IGNEA		IGNEA		ANHIDRITA
	SCHIST				

Abreviaciones de Lodo

MW	Peso de Lodo (ppg)	NB	Broca Nueva
V	Viscosidad (Sec/qt)	ST	Viaje Corto
PV	Viscosidad Plástica (cp)	DST	Prueba de Pozo (DST)
YP	Punto de Cedencia (lb/100ft^2)	LAT	Perforando Después de Viaje
WL	Filtrado (cc)	WOB	Peso sobre la Broca (klbsf)
Gel	Gel (10 sec/10 min)	RPM	Revoluciones por Minuto (rpm)
MC	Torta (API)	PP	Presión de Bomba (psi)
Sal	Salinidad (mg/lit)	SPM	Golpes de Bomba por Min. (spm)
pH	Potencial de Hidrógeno (pH)	GPM	Galones por Minuto
Rm	Resistividad de Lodo (Ohm*m)	FG	Gas de Formación
Rmf	Resistividad Filtrado (Ohm*m)	TG	Gas de Viaje
Rmc	Resistividad de la Torta (Ohm*m)	GC	Gas de Conexión
LC	Pérdida de Circulación (Bbls)	SG	Gas de Suabeo
O/W	Relación Aceite / Agua (%)	SWC	Corazón de Pared

Trazas

	ANHIDRITA		CALCITA		CHERT
	CLORITA		CARBÓN		DOLOMITA
	FELDESPATO		CALCITA FIBROSA		FÓSILES
	GLAUCONITA		YESO		HEMATITA
	IGNEA		ÓXIDO DE HIERRO		CAOLINITA
	FRAG. SHELL		CALIZA		LIMONITA
	MARGA		METAMORFICA		MICA
	MUSCOVITA		MATERIAL DE FALLA		PELLETS
	FOSFATOS		RESTOS DE PLANTAS		PIRITA
	CUARZO		SIDERITA		ASFALTO
	MILONITA		FORAMINÍFEROS		

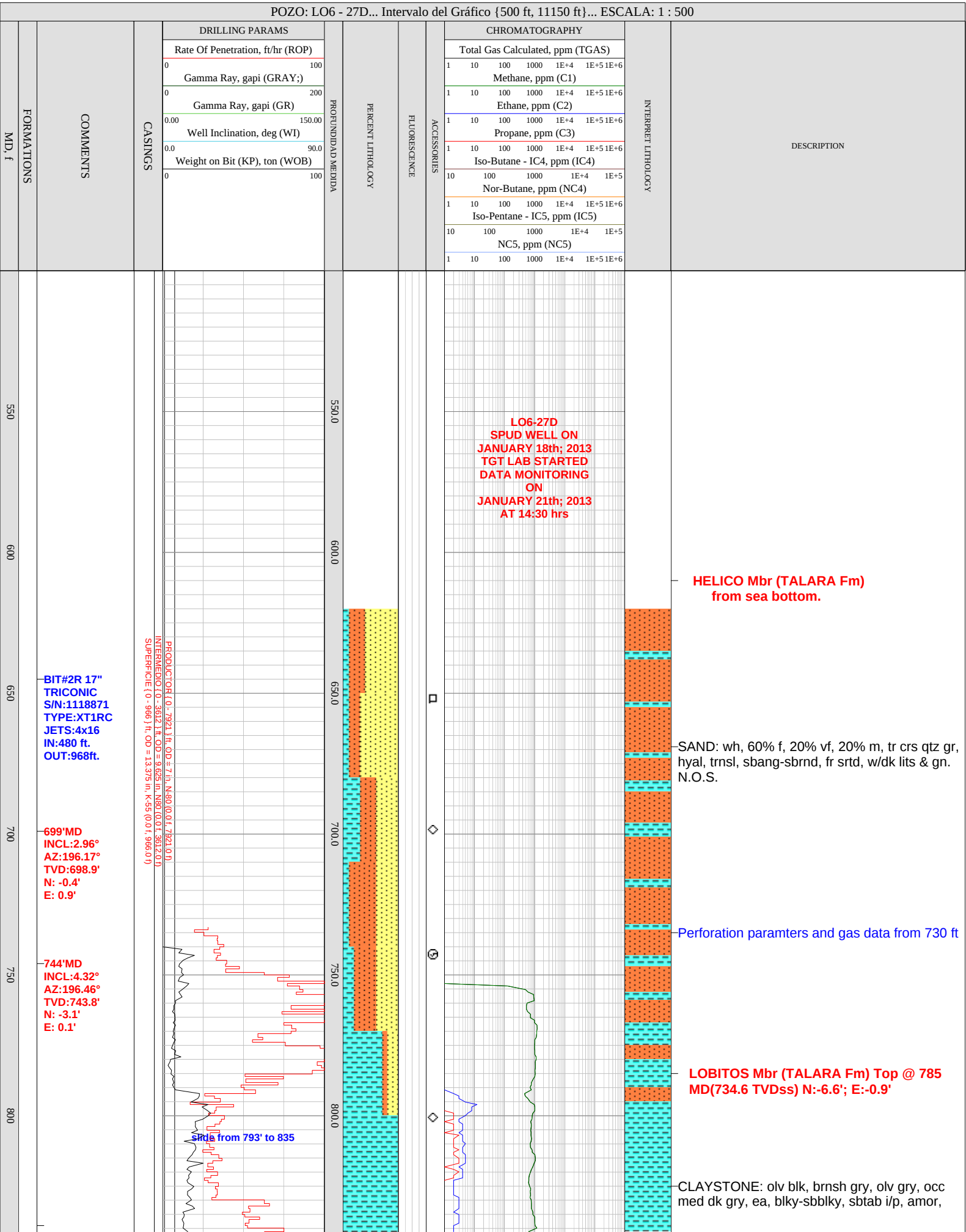
Fluorescencia y Corte

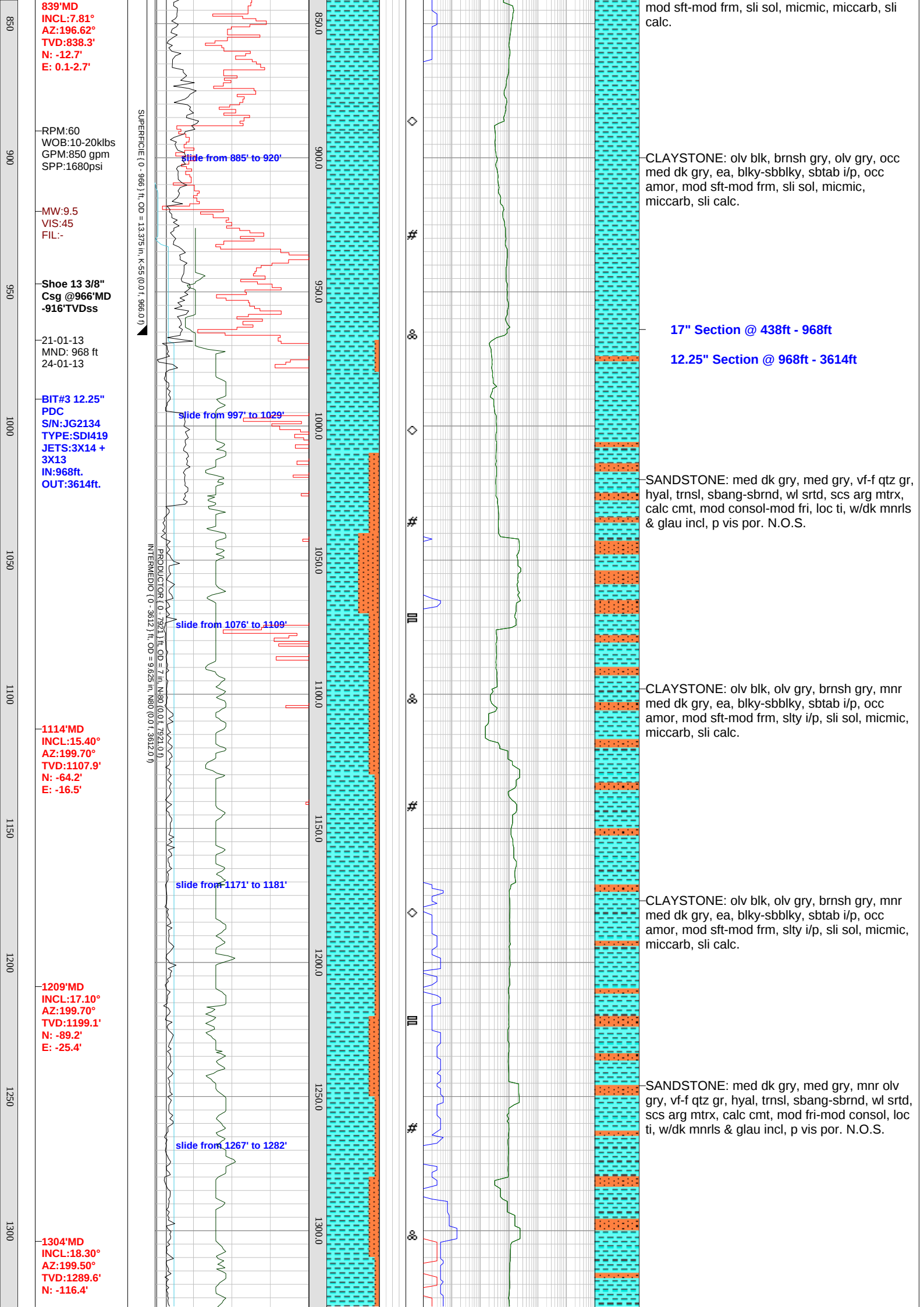
	MUY POBRE (10%)		POBRE (25%)		REGULAR (50%)
	BUENO (75%)		MUY BUENO (100%)		

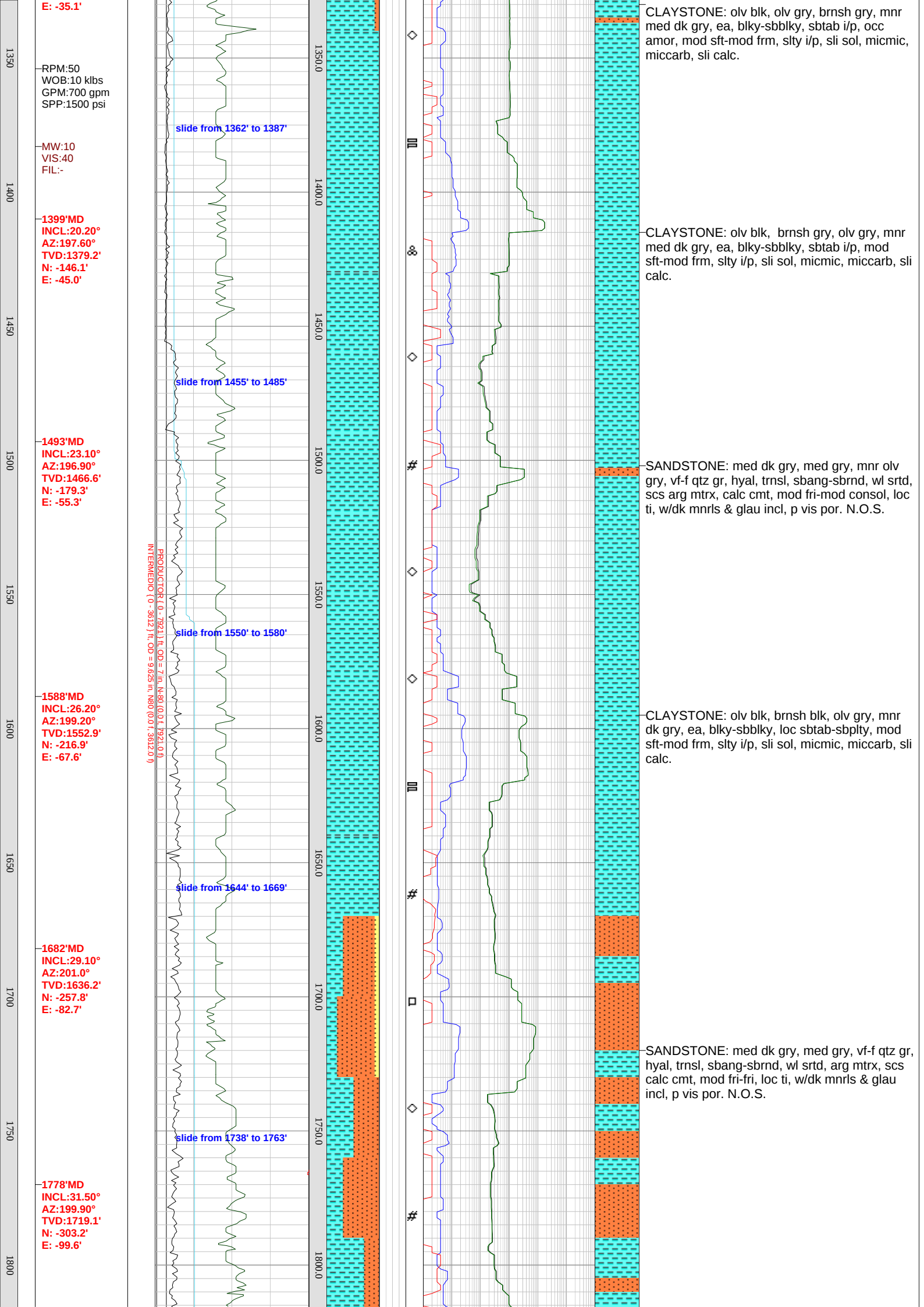
Símbolos Generales

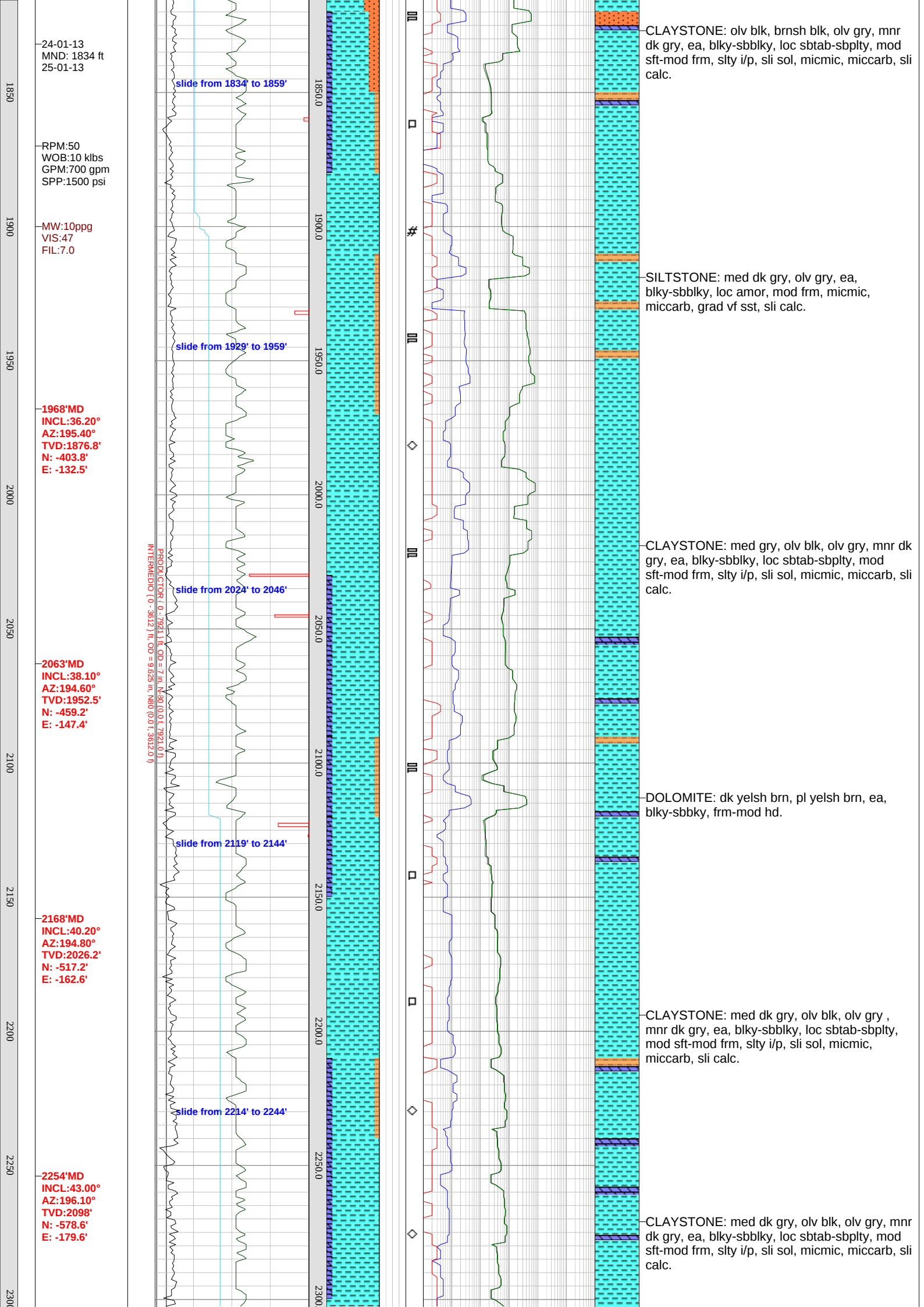
	SWC con aceite		SWC sin aceite		Zapato de Revestimiento
	Falla Normal		Falla Inversa		Ganancia de Lodo
	Pérdida de Lodo		Cambio de Broca		Desviación
	Gas de Formación		Gas de Background		Gas de Viaje o de Suaveo
	Gas de Conexión		Gas H2S		Gas CO2

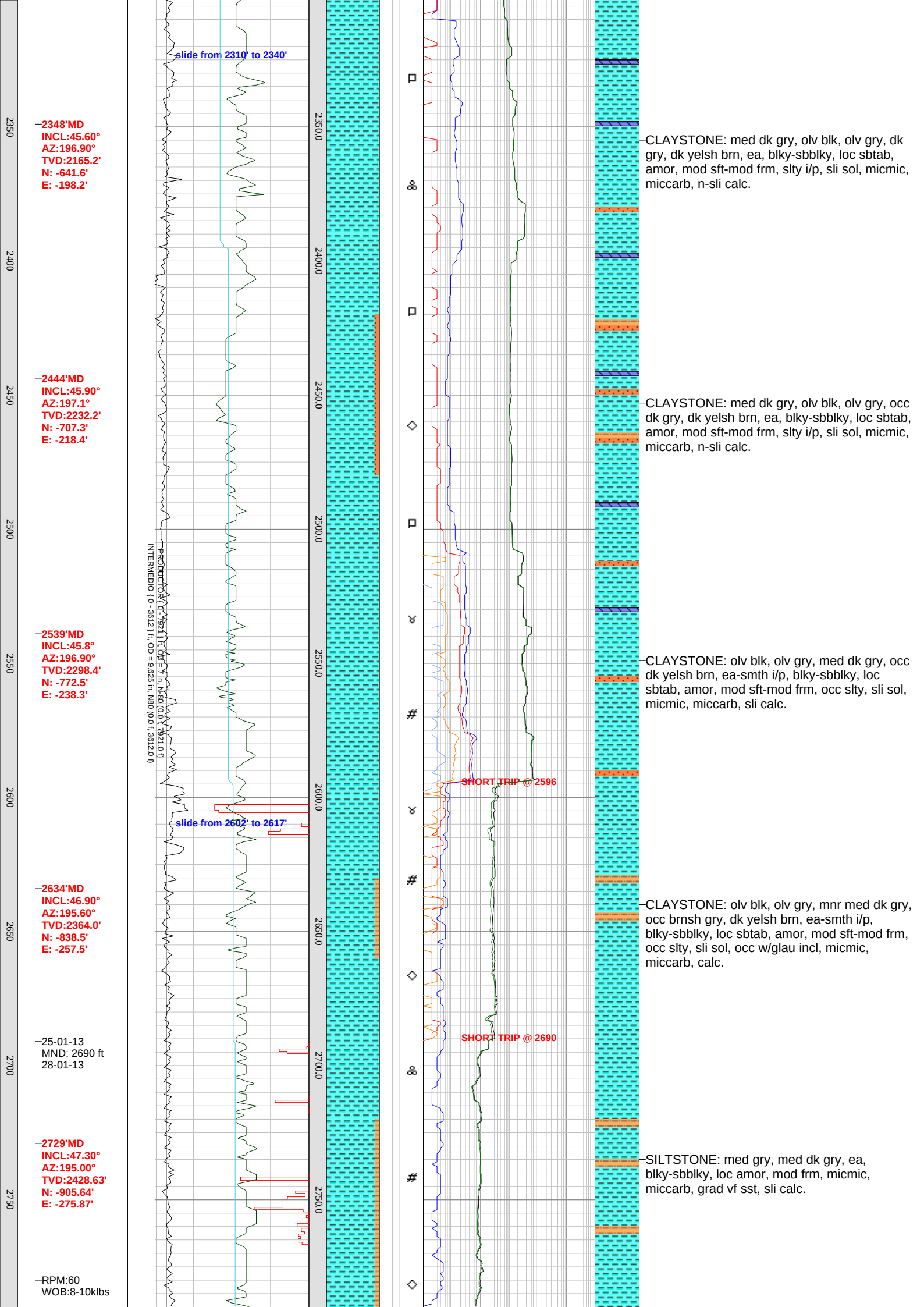
REVESTIMIENTOS								
Revestimineto	Tamaño, in	Tope, f	Longitud, f	Asentamiento, f	Grado	Peso, lb/f	Tope de Cemento, f	Fecha de Asentamiento
CONDUCTOR	18.0000	0.00	438.0	438.00	J-55	38.00	0.00	20/01/13 03:45:14 p.m.
SUPERFICIE	13.3750	0.00	966.0	966.00	K-55	54.50	0.00	22/01/13 06:32:14 p.m.
INTERMEDIO	9.6250	0.00	3612.0	3612.00	N80	43.50	0.00	30/01/13 03:40:44 a.m.
PRODUCTOR	7.0000	0.00	7921.0	7921.00	N-80	26.00	0.00	13/02/13 05:24:19 a.m.

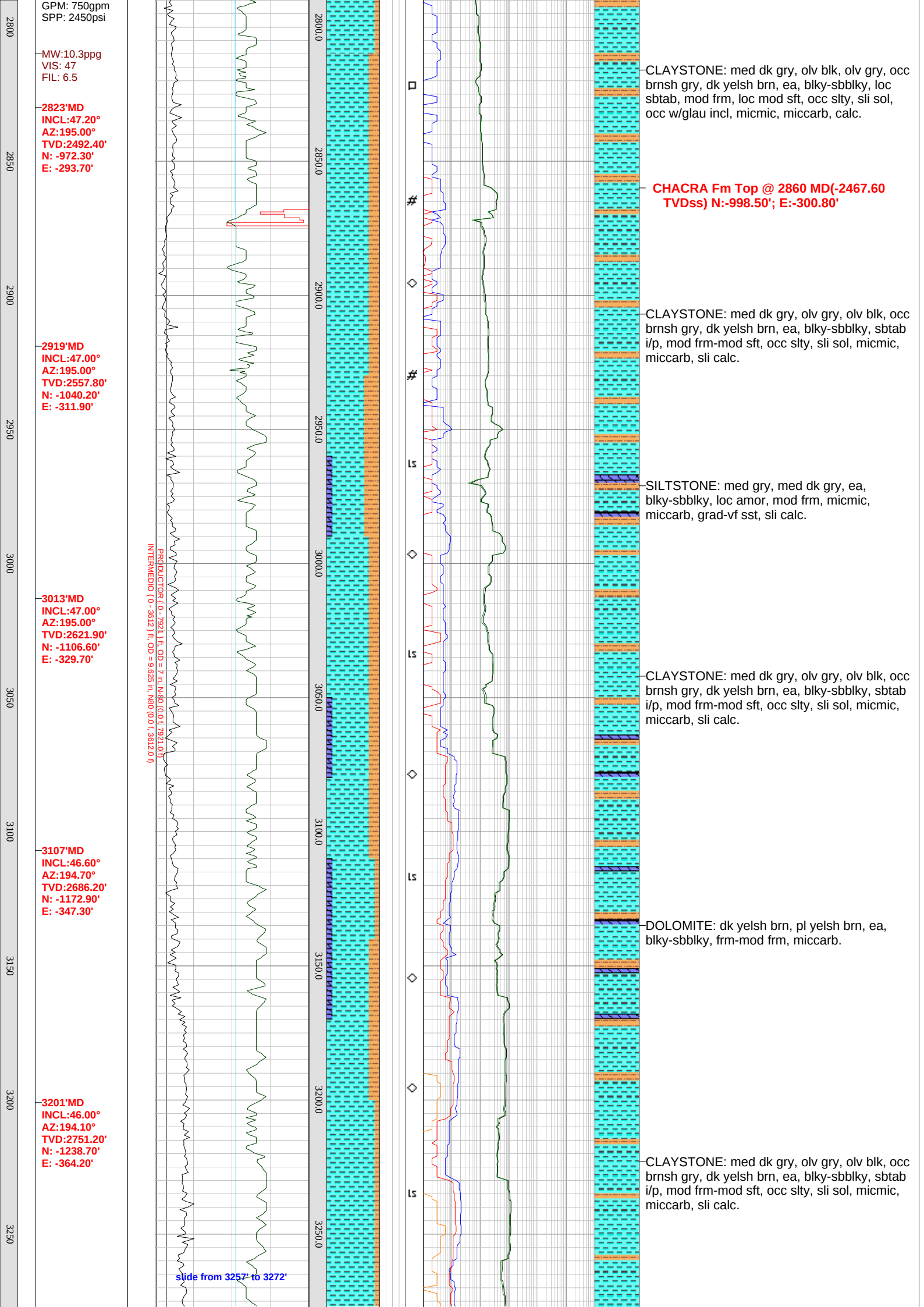


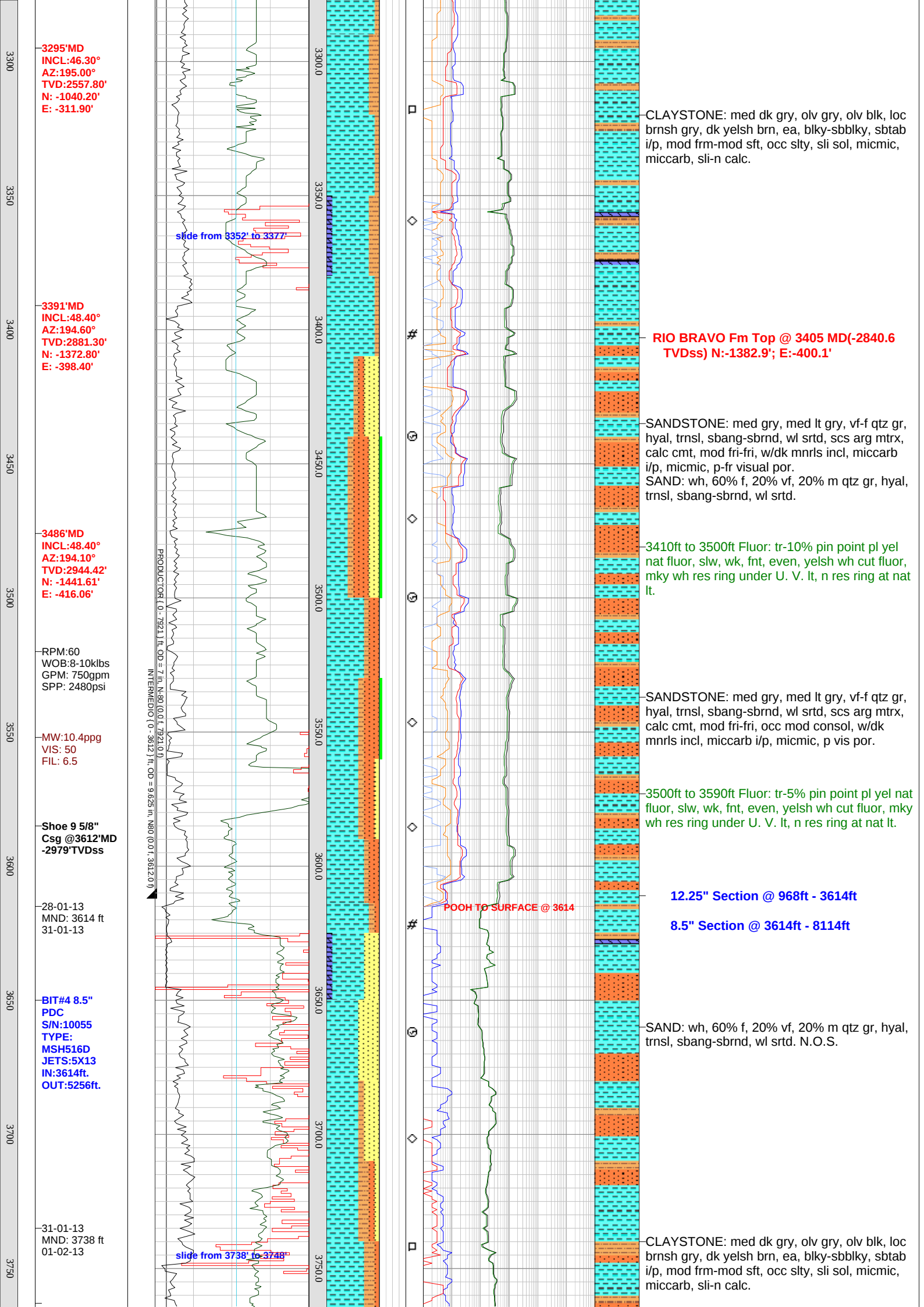


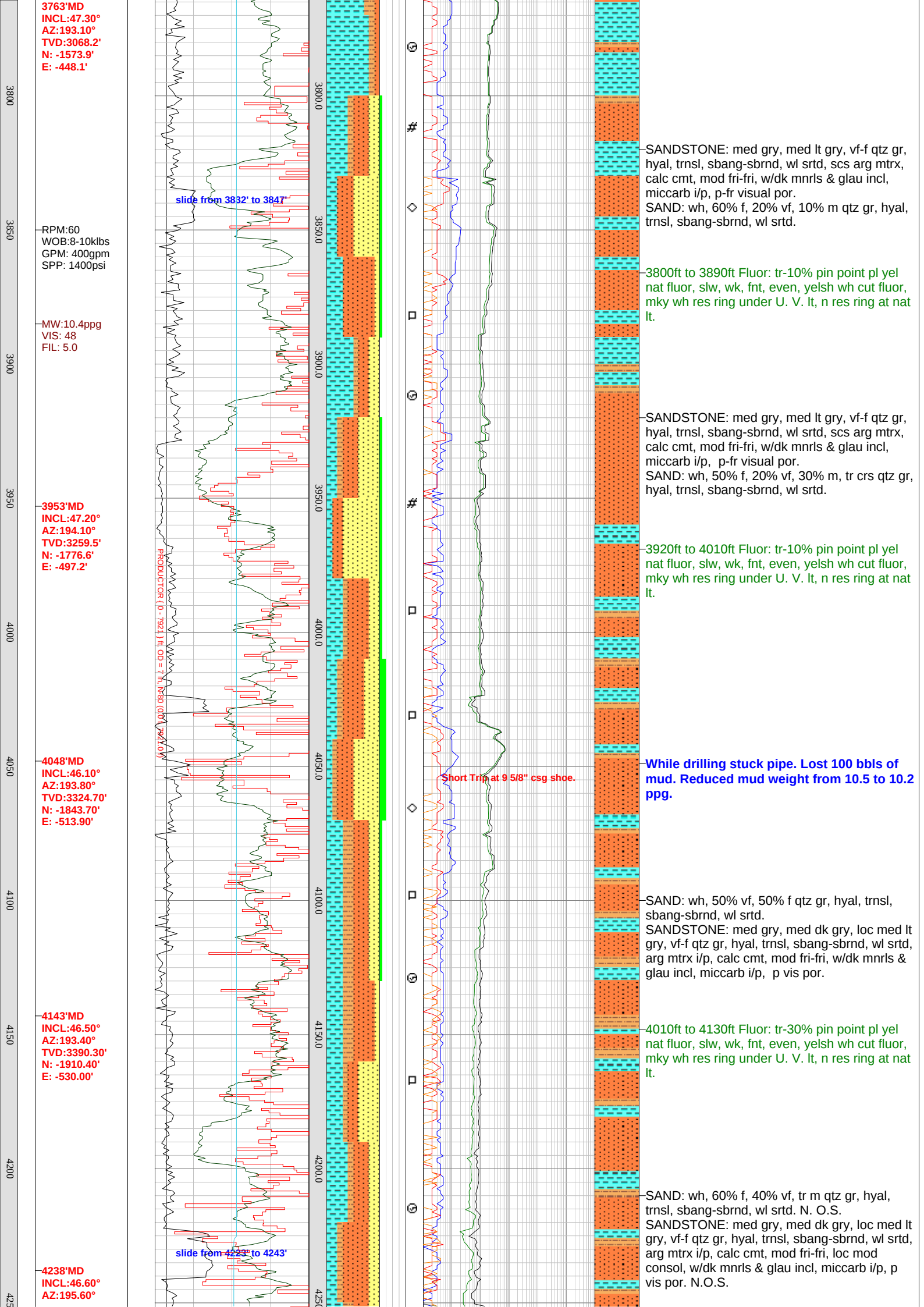












3763°MD
INCL:47.30°
AZ:193.10°
TVD:3068.2'
N: -1573.9'
E: -448.1'

RPM:60
WOB:8-10klbs
GPM: 400gpm
SPP: 1400psi

MW:10.4ppg
VIS: 48
FIL: 5.0

3953°MD
INCL:47.20°
AZ:194.10°
TVD:3259.5'
N: -1776.6'
E: -497.2'

4048°MD
INCL:46.10°
AZ:193.80°
TVD:3324.70'
N: -1843.70'
E: -513.90'

4143°MD
INCL:46.50°
AZ:193.40°
TVD:3390.30'
N: -1910.40'
E: -530.00'

4238°MD
INCL:46.60°
AZ:195.60°

slide from 3832' to 3847'

PRODUCTOR (0 - 792) IN OD = 7 IN NB9 (00' - 2020.0')

Short Trip at 9 5/8" csg shoe.

slide from 4223' to 4243'

SANDSTONE: med gry, med lt gry, vf-f qtz gr, hyal, trns, sbang-sbrnd, wl srt, scs arg mtr, calc cmt, mod fri-fri, w/dk mnrls & glau incl, miccarb i/p, p-fr visual por.
SAND: wh, 60% f, 20% vf, 10% m qtz gr, hyal, trns, sbang-sbrnd, wl srt.

3800ft to 3890ft Fluor: tr-10% pin point pl yel nat fluor, slw, wk, fnt, even, yelsh wh cut fluor, mky wh res ring under U. V. It, n res ring at nat lt.

SANDSTONE: med gry, med lt gry, vf-f qtz gr, hyal, trns, sbang-sbrnd, wl srt, scs arg mtr, calc cmt, mod fri-fri, w/dk mnrls & glau incl, miccarb i/p, p-fr visual por.
SAND: wh, 50% f, 20% vf, 30% m, tr crs qtz gr, hyal, trns, sbang-sbrnd, wl srt.

3920ft to 4010ft Fluor: tr-10% pin point pl yel nat fluor, slw, wk, fnt, even, yelsh wh cut fluor, mky wh res ring under U. V. It, n res ring at nat lt.

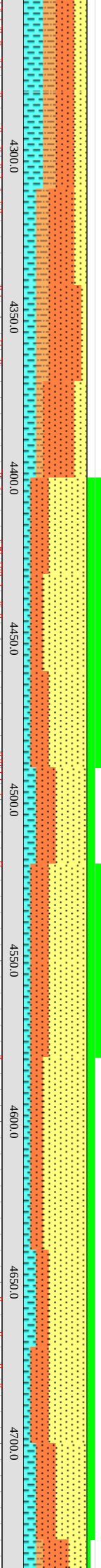
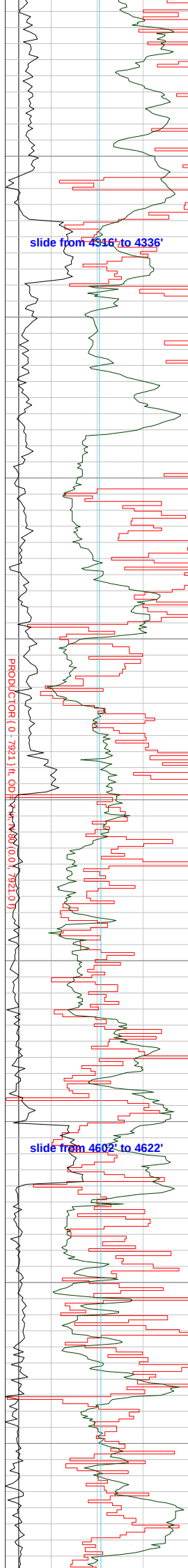
While drilling stuck pipe. Lost 100 bbls of mud. Reduced mud weight from 10.5 to 10.2 ppg.

SAND: wh, 50% vf, 50% f qtz gr, hyal, trns, sbang-sbrnd, wl srt.
SANDSTONE: med gry, med dk gry, loc med lt gry, vf-f qtz gr, hyal, trns, sbang-sbrnd, wl srt, arg mtr i/p, calc cmt, mod fri-fri, w/dk mnrls & glau incl, miccarb i/p, p vis por.

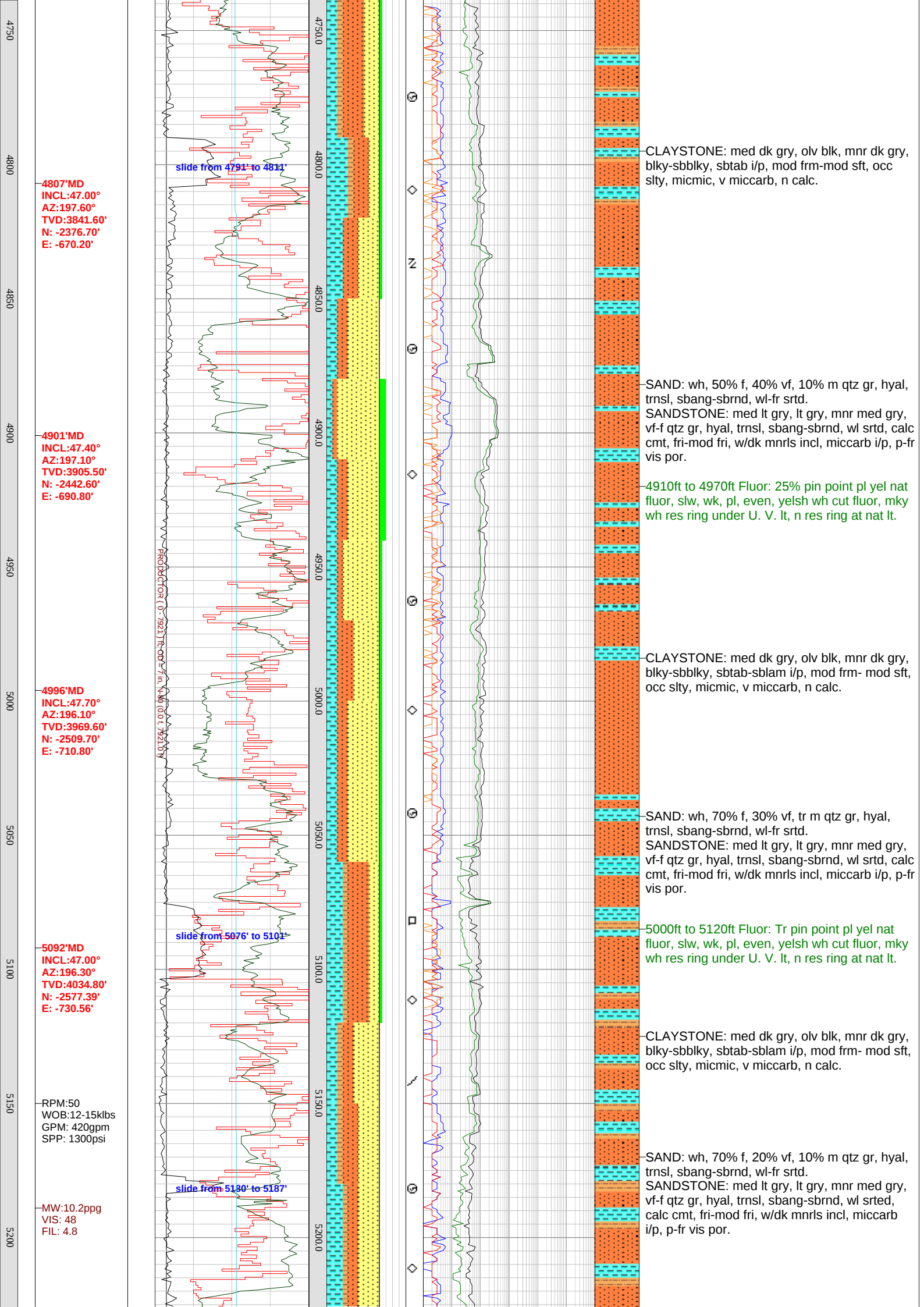
4010ft to 4130ft Fluor: tr-30% pin point pl yel nat fluor, slw, wk, fnt, even, yelsh wh cut fluor, mky wh res ring under U. V. It, n res ring at nat lt.

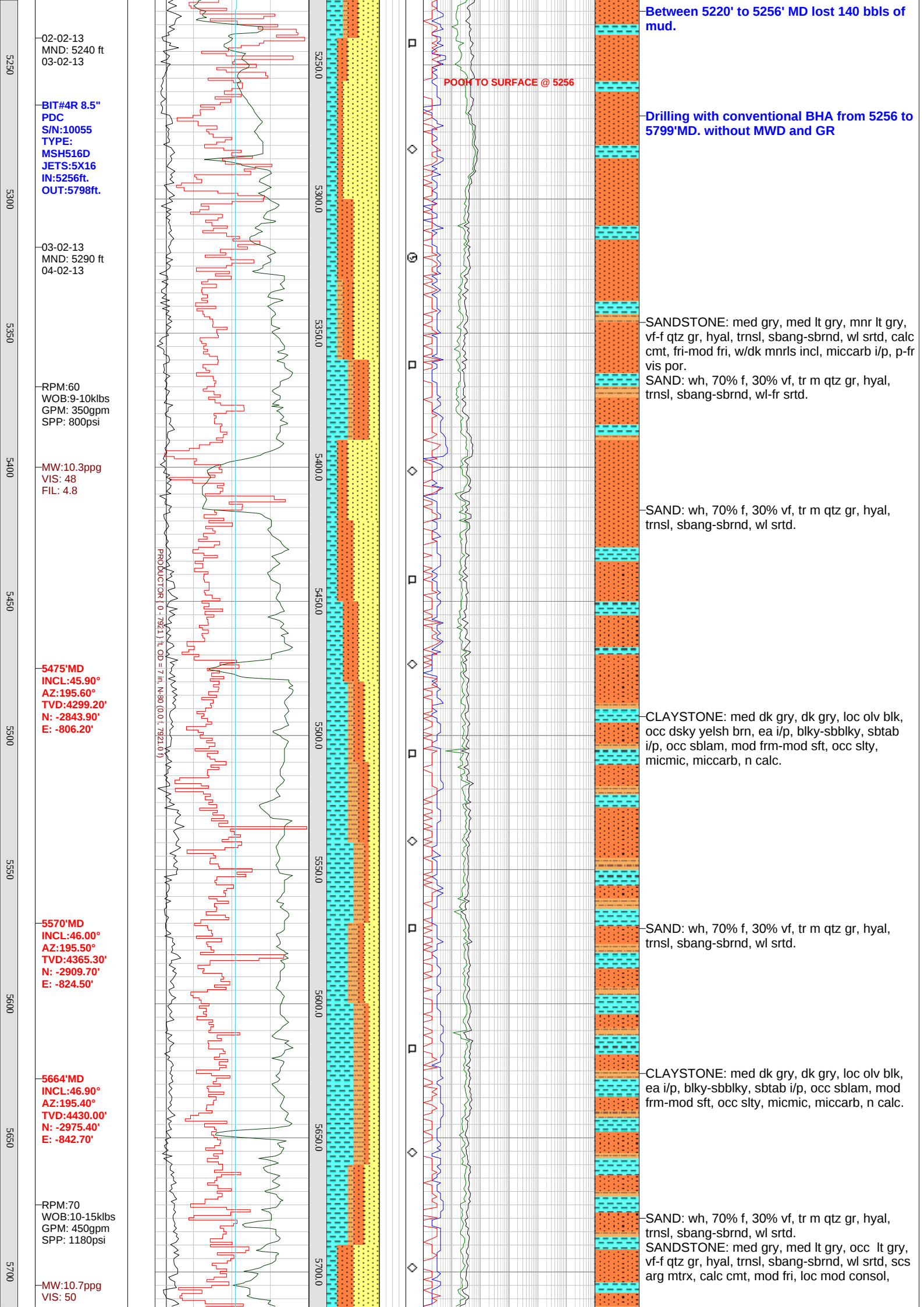
SAND: wh, 60% f, 40% vf, tr m qtz gr, hyal, trns, sbang-sbrnd, wl srt. N. O.S.
SANDSTONE: med gry, med dk gry, loc med lt gry, vf-f qtz gr, hyal, trns, sbang-sbrnd, wl srt, arg mtr i/p, calc cmt, mod fri-fri, loc mod consol, w/dk mnrls & glau incl, miccarb i/p, p vis por. N.O.S.

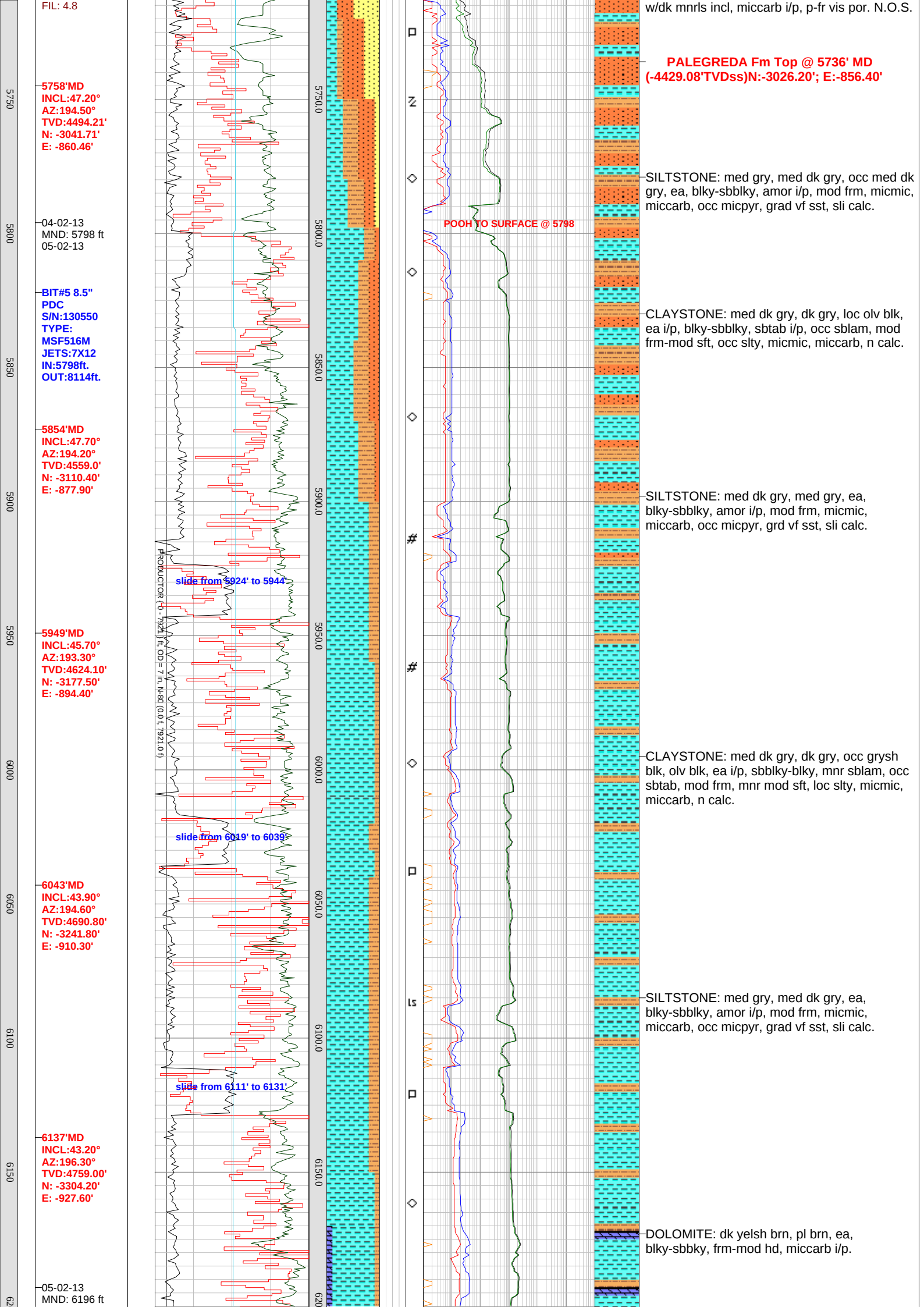
4711'MD
INCL:48.10°
AZ:197.40°
TVD:3776.80'
N: -2309.20'
E: -648.90'

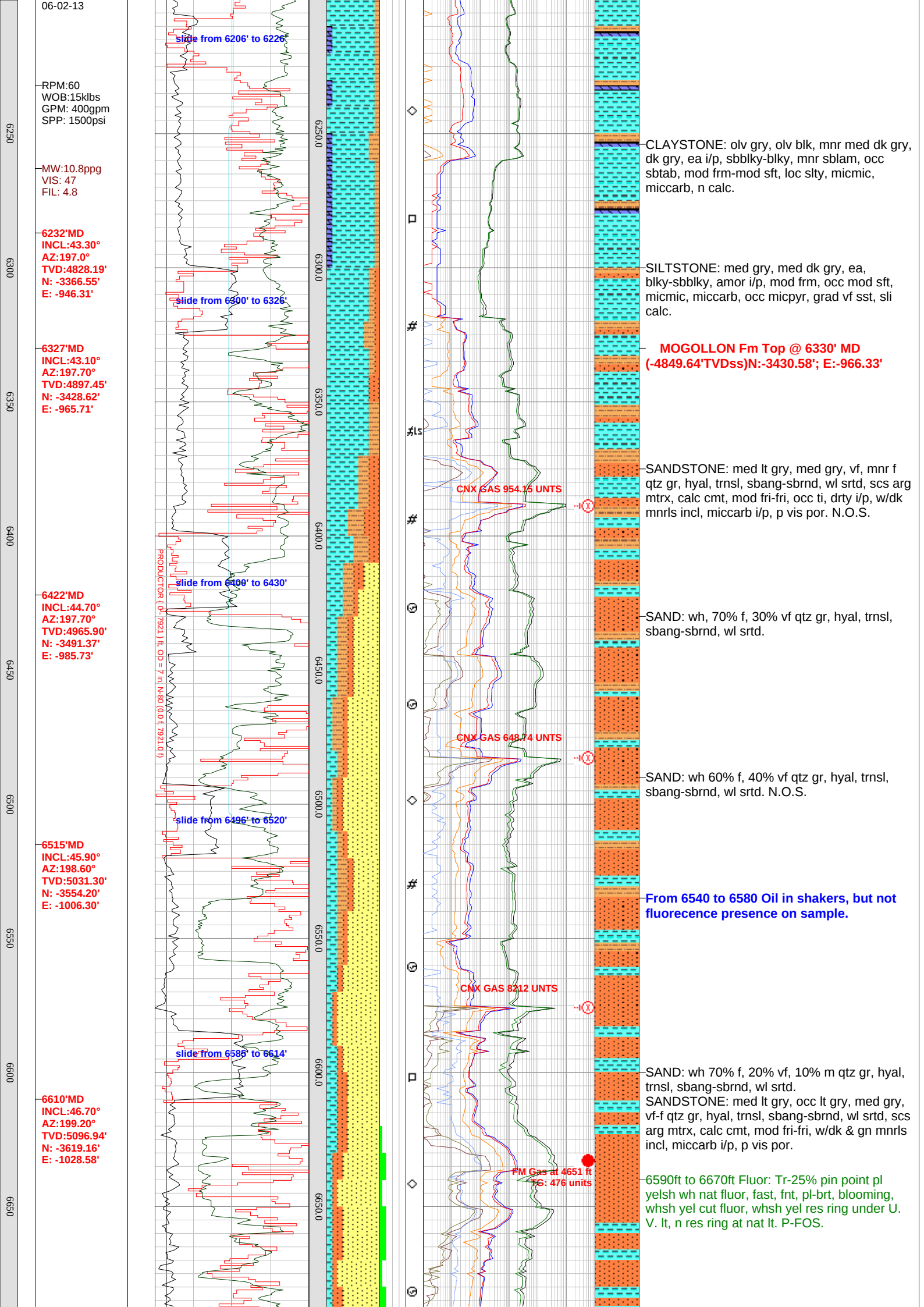


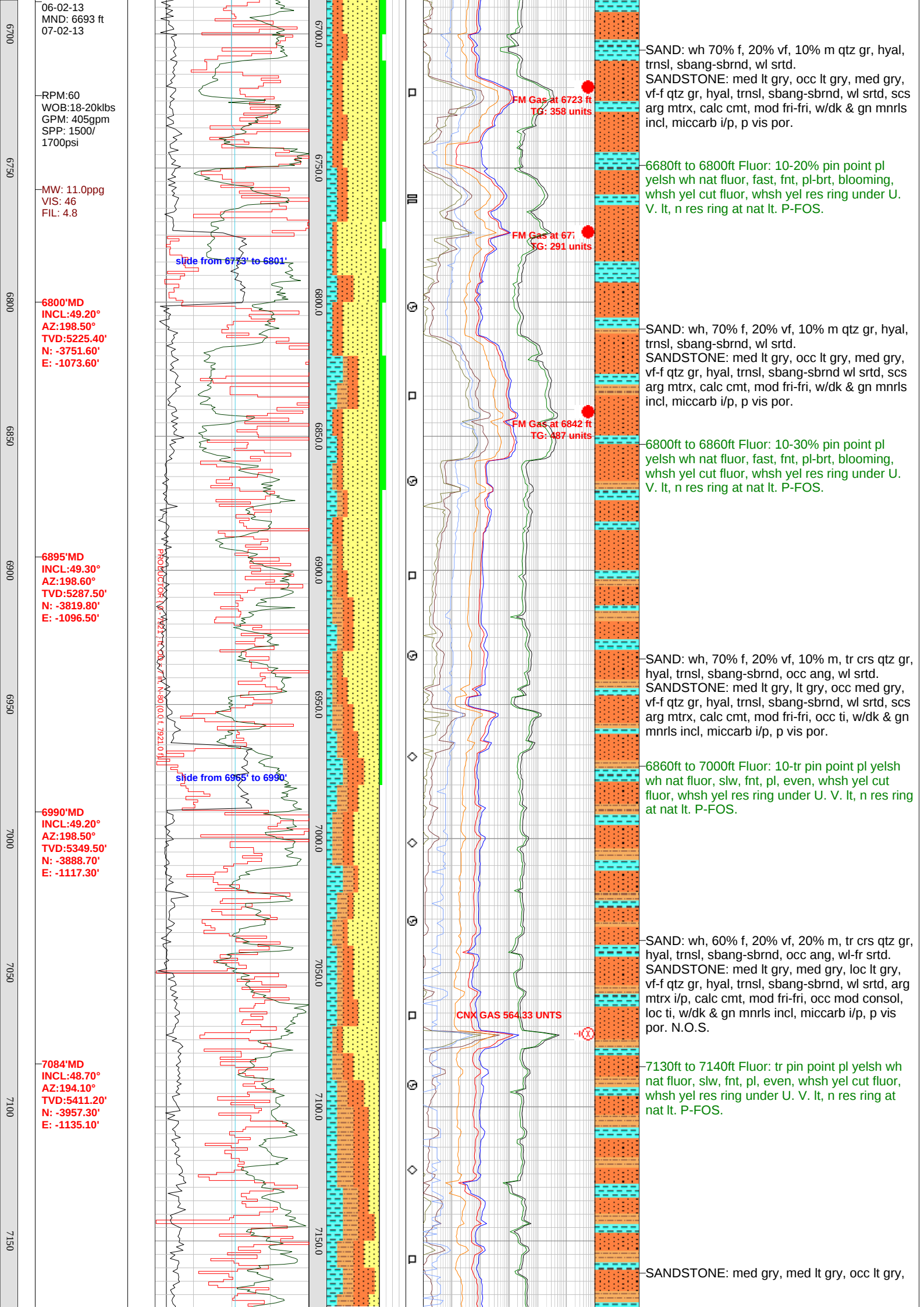
-4610ft to 4760ft Fluor: 30-10% pin point pl yel
nat fluor, slw, wk, pl, even, yelsh wh cut fluor,
mky wh res ring under U. V. lt, n res ring at nat
lt.

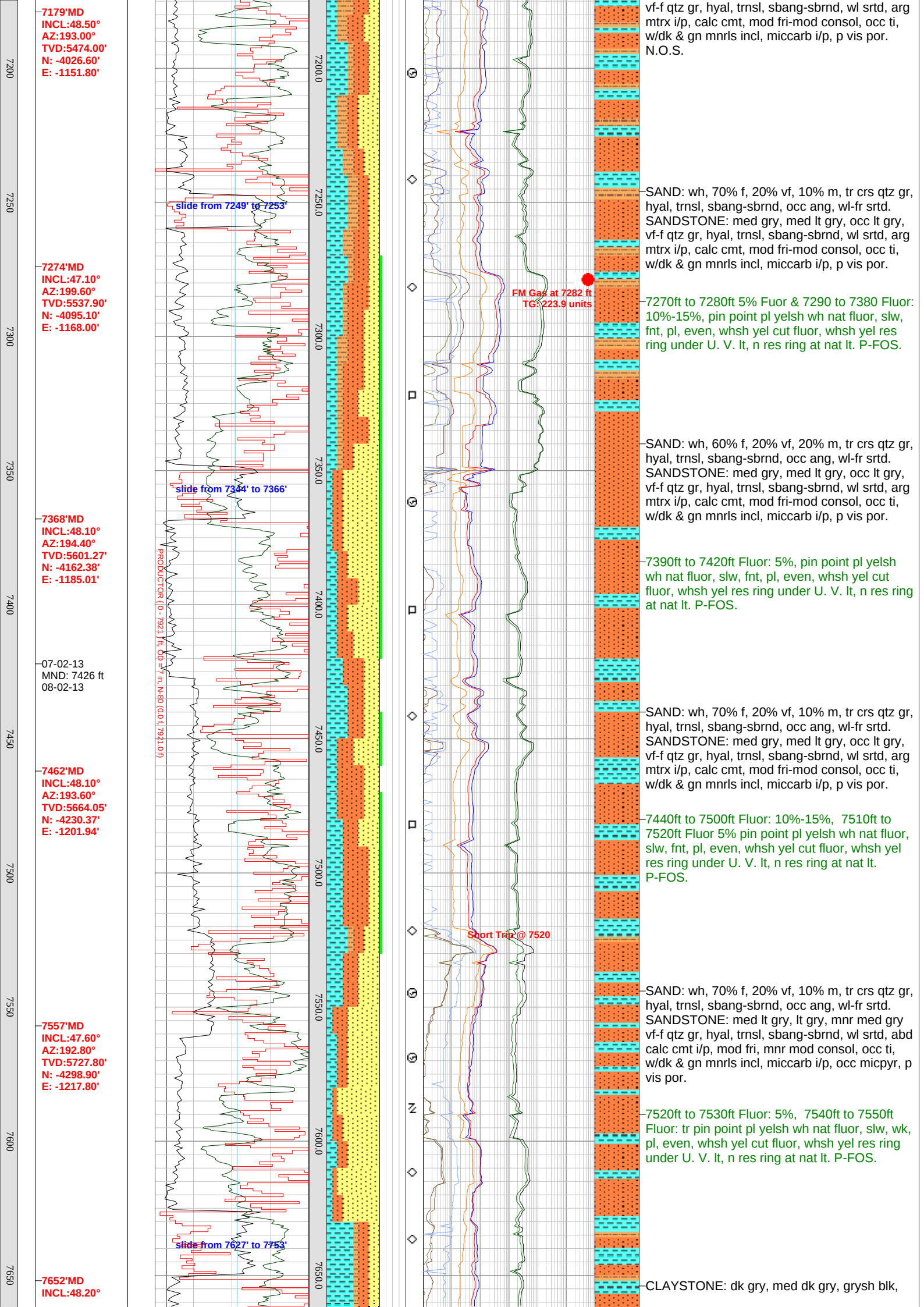


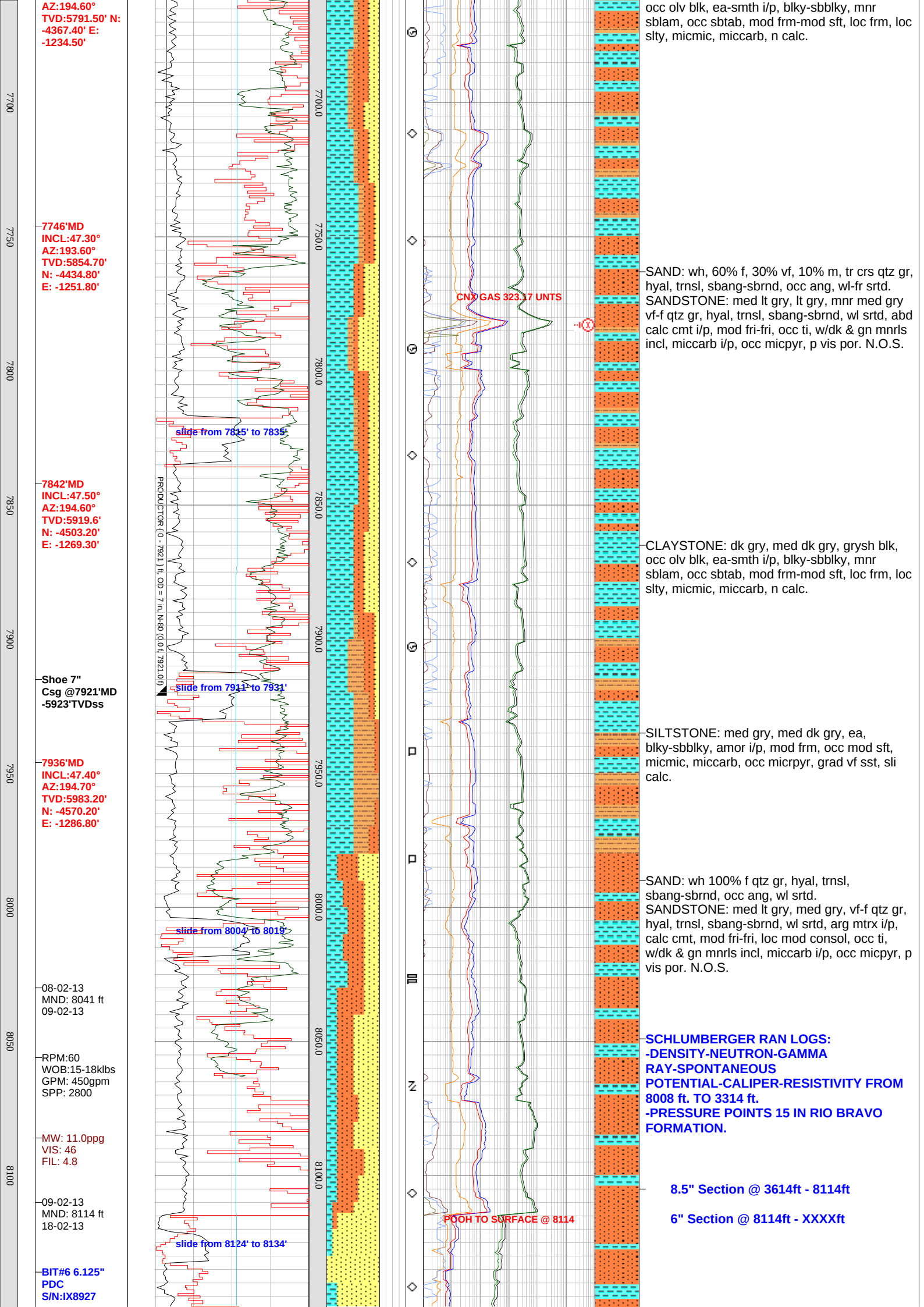












DEPTH (ft)	WOB (klbs)	GPM	SPP	INCL (°)	AZ (°)	TVD (ft)	N (ft)	E (ft)	FORMATION	PALEO
8200.0									SAND: wh 70% f, 30% m qtz gr, hyal, trns, sbang-sbrnd, occ ang, wl srt.	
8229.0									SANDSTONE: med lt gry, med gry, vf-f qtz gr, hyal, sbang-sbrnd, wl srt, arg mtrx i/p, scs calc cmt, fri-mod fri, w/dk & gn mnrls incl, miccarb i/p, p vis por. N.O.S.	
8229.0									Slightly Oil bearing on shakers, no fluorescence on cuttings.	
8229.0									SAN CRISTOBAL Fm Top @ 8229' MD (-6150.5'TVDss)N:-4782.31'; E:-1331.57'	
8250.0									CLAYSTONE: med lt gry, med gry, v lt gry, ea, blk-sbbly, mnrls sblam, sft, v sol, n calc.	
8250.0									PALEO: 8114'-8290' BARREN	
8300.0									SANDSTONE: med lt gry, vf qtz gr, sbang-sbrnd, wl srt, abd arg mtrx, fri, w/dk min inc, miccarb i/p, p vis por. NOS.	
8300.0									CaCO3 Contamination on samples from 8114' MD.	
8350.0									CLAYSTONE: med lt gry, med gry, grysh blk, ea, amor, sft, plas, v sol, occ slty, miccarb, n calc.	
8350.0									PALEO: 8290'-8530' FAUNA SAN CRISTOBAL (TRACES)	
8400.0									CLAYSTONE: med lt gry, dk gry, grysh blk, ea, amor, sft, plast, v sol, occ slty, miccarb, n calc.	
8419.0									8245' MD INCL:46.90° AZ:197.00° TVD:6191.60' N: -4790.10' E: -1347.90'	
8419.0									WOB:14klbs GPM: 240gpm SPP: 3030	
8419.0									MW: 11.2ppg VIS: 52 FIL: 5.0	
8419.0									18-02-13 MND: 8390 ft 19-02-13	
8419.0									slide from 8390' to 8419'	
8450.0									8434' MD INCL:45.40° AZ:197.80° TVD:6323.65' N: -4918.92' E: -1388.83'	
8450.0									WOB:14/24klbs GPM: 234gpm SPP: 3104	
8500.0									slide from 8502' to 8517'	
8550.0									8528' MD INCL:44.80° AZ:198.70° TVD:6390.00' N: -4982.16' E: -1409.68'	
8550.0									WOB:20klbs GPM: 220gpm SPP: 2999	
8600.0									slide from 8588' to 8614'	
8623.0									8623' MD INCL:46.20° AZ:198.90°	
8623.0									SANDSTONE: med lt gry, vf-f qtz gr, hyal, trns, sbang-sbrnd, wl srt, arg mtrx, mod fri, w/dk mnrls incl, miccarb i/p, p vis por. N.O.S.	
8623.0									SAND: wh, 70% f, 30% m qtz gr, hyal, trns, ang-sbang, wl srt.	
8623.0									PALEO: 8530'-8590' BARREN	

