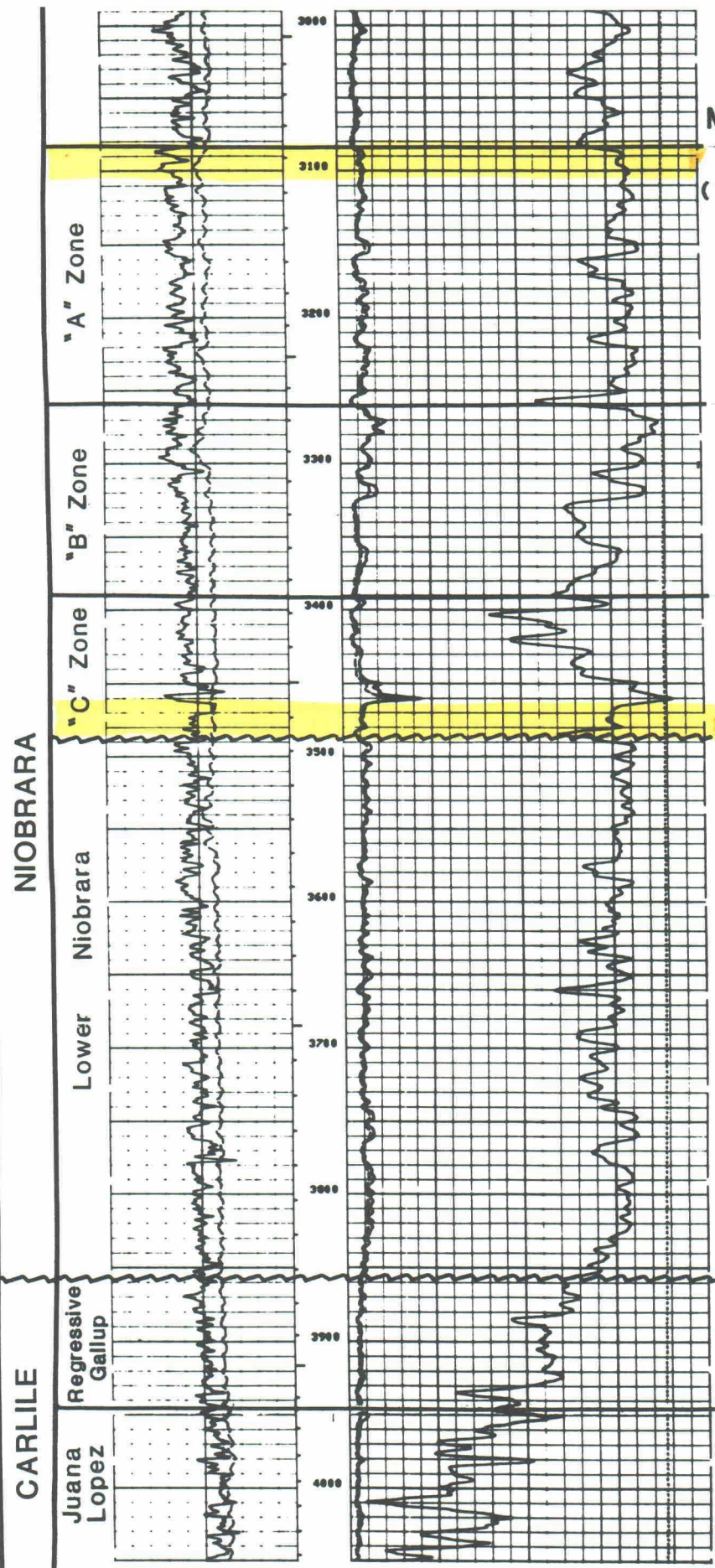


" MANCOS SHALE FORMATION "



Type Log for
 MOI - Piedra Lumbre No. 1
 SE/22, T19N - R2W
 (Diamond Shamrock - Zambardo
 Lake Fed.No. 41 - 18Y)
 (NE/18 - T19N - R2W)

NIORARA

CARLILE

Juana Lopez

Regressive Gallup

Lower Niobrara

Niobrara

"C" Zone

"B" Zone

"A" Zone

Case No. 10392