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 Lease *Kudotok* Well 23-1
 Location
 County, State
 Stratigraphy
 Description by: *AWW*

Description, interpreted depositional environment, and comments

Reported core depth	Textures, sedimentary & biogenic structures, & diagenesis						Lithology	Lithofacies	Bioturbation	Thin section (*) or perm plug (p)
	Carbonate					Evapor.				
	Rock Types									
	Siliciclastics									
Grainsize										
	c	m	f	vf	si	sh				
5/20										
75										
5/30										
35										
5/40										

20-23 *improved congl. mudstone, blk. u. part of unit*
Congl. congl. tress, & ss. Clasts not calciferous than knife. sh. h. l. may be dolomite & congl. clasts x 1 cm, range of 1/8" to 1/4". sand in med to coarse. Bed is v. lt. gray, clasts are gray. Crudely laminated & rippled. Top has burrows - dense, which are mud. Calcite cement.

5/26-15
Sh w inter lam contorted of ss. Sh: clay has dk. gray (N3) to yellowish (N2) fine to med. ss. High argillite, f. clay (N7). lams (1/4"-5") of or burrow filling, (may have been void ss to 1 cm. Base of unit graduated from that below, in the form of irregularly sub-laminar bed of shale & lower about. of ss.

5/30
SS, 1/4" v. lt. gray to yellowish v. lt. gray, sharp base. Unit appears to be finely bedded, upper part has shale fragments - calcite cement, more than 1/4" in size in some places.

35
SS, 3/4" yellowish v. lt. gray, ripple bedded. Ripples marked by grayish bluish to black mudstone laminae w. v. sparse mica in ripple troughs - too thin & too far up on foresets to be lenses. sharp base to unit. Diagenesis. v. sparse glauconite. calcite cement. Appears to have cherty material in between grains - especially visible on sawed surface.

Rock types

Sandstone (may be left blank)

Conglomerate

Siltstone/aminated (top) structureless

Shale (top), mudstone (bottom)

Blocky shale

Limestone

Coal

Carbonates:
 B Boundstone
 Gn Grainstone
 Pk Packstone
 Wk Wackestone
 M Mudstone
 Siliciclastics
 c Coarse sandstone & coarser
 m Medium sandstone
 f Fine sandstone
 vf Very fine sandstone
 si Siltstone, silt
 sh Shale and other mudrocks, clay

Structures
 Cross beds
 Planar Beds, or lamination
 Hummocky cross strata
 Ripples
 Current
 Wave
 Wavy, lenticular lamination
 Flaser
 Sreaked shale with ss or zs lenses
 Wispy laminae
 Convoluted bedding
 Nodular bedding
 Desiccation crack
 Fenestra
 Stylolite
 Fractures

Cements
 Pyrite
 Calcite
 caliche nodule
 caliche crust
 Siderite

Grains
 Pebbles, granules, cobbles, or boulders
 Shale or mudstone clasts

Carbonaceous material

Lithology
 SS, Sh, Zs, Ls, etc.
 SS type or Ls type
 Grainsize
 Color
 Sedimentary structures
 Lower contact
 Biogenic features
 Diagenetic features
 Tectonic features
 Porosity
 Fluid saturations

Biogenic structures
 Root marks and rhizocretions
 Thalassinoides
 Planolites
 Chondrites
 Skolithis
 Typenot distinguished

Carbonate allochems
 Ooids, coated grains
 Peloids
 Intraclasts

Corals
 Echinoderms (stalked)
 Brachiopods
 Bryozoans

Molluscs
 Forams

Phylloid algae
 Skeletal fragments
 Fusilind

AWW 1/96

