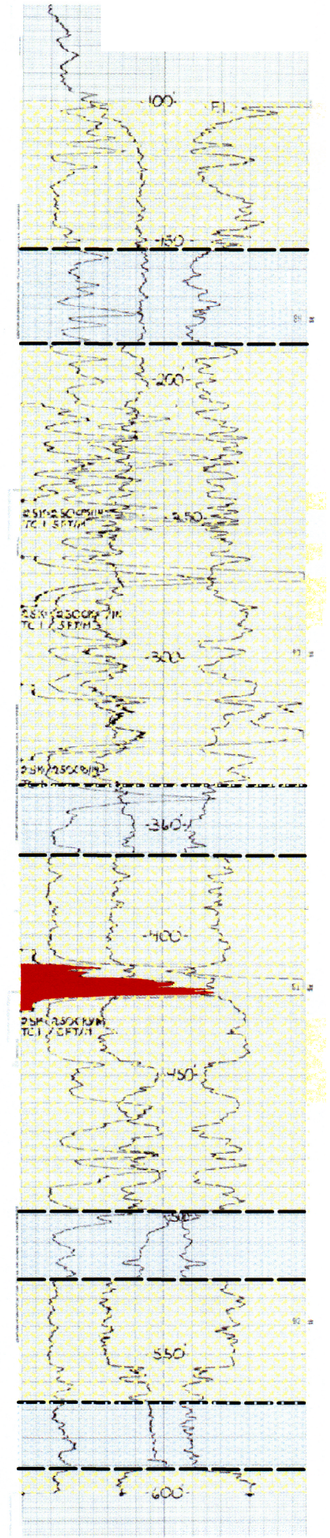

DE Horizon

DE - Alternating very fine, course-grained sandstone, mudstone and siltstone. Minor host for uranium mineralization.

Shale Horizon

FG Horizon
(Overlying Aquifer)

FG - Lenticular arkosic sandstones with intervals of mudstone and siltstone. Categorized as suspended load facies. Cut and fill channels not as prominent as in HJ horizon. Minor host for uranium mineralization.

LC Shale
(Overlying Confining Unit)

LCS - Shale horizon separating FG from HJ; a virtually continuous aquiclude in Lost Creek area.

Mineralization

HJ Horizon
(Production Zone Aquifer)

HJ - Course-grained arkoses with minor matrix. Very thin lenticular intervals of fine sands. Cut and fill channels are prominent. Mixed load facies. Major host to uranium mineralization, especially in middle parts.

SB Shale
(Underlying Confining Unit)

SB Shale - Shale/mudstone separating HJ from UKM Sand. Continuous throughout Permit Area.

UKM Sand
(Underlying Aquifer)

UKM - Generally massive, coarse-grained sandstone with lenticular fine sand intervals. Mixed load facies. Host to significant uranium mineralization.

NN Shale

NN Shale - No Name Shale, separating UKM Sand from MKM Sand.

MKM Sand

MKM Sand - Similar to the UKM Sand.

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FIGURE 3.5-10

Site Hydrostratigraphic Units

Lost Creek Permit Area

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Drawing No.: LC-ER Figure 3.5-10.mxd