

# Lost Creek ISR, LLC TYPE LOG – LOST CREEK PROJECT

WELL # HJMU-110

E 2,212,004 / N 595,897 (NAD 83)  
E 743,685 / N 535,195 (NAD 27)

## HJMU-110

### Battle Springs Formation – Typical Lithology

**SANDSTONE:** arkosic; medium to very coarse-grained, locally fine-grain; poorly-sorted; subangular to angular; weakly to moderately consolidated, moderately firm.  
Represents bed-load to mixed-load, channel-fill fluvial environments within a distal alluvial fan system.

**MUDSTONE,** commonly very silty and/or sandy; soft to very firm; and **CLAYSTONE,** moderately firm to very firm, dense, blocky.  
Secondary amounts of SILTSTONE, commonly very sandy, firm to very firm.  
Represents inter-channel and overbank fluvial environments.

Considerable lateral facies changes, inter-tonguing, and overlapping occurs between the two dominant lithologies. This can be very dramatic within short distances.

**DE Horizon:** Multiple sandstone units interbedded with mudstones. Host to secondary amounts of uranium mineralization.

**EF: (upper No-Name Shale):** Mudstone and claystone, commonly silty and/or sandy; locally with interbedded very fine-grained sands. Does not exhibit lateral continuity throughout project area. Represents a series of overlapping shaley units.

**FG Horizon:** Multiple sandstone units interbedded with mudstones. Host to secondary amounts of uranium mineralization.

**LCS (Lost Creek Shale):** Mudstone and claystone, commonly silty and/or sandy; locally with interbedded very fine-grained sands. Exhibits lateral continuity throughout project area. Commonly intertongues with upper portions of the HJ and lower portions of the FG.

**HJ Horizon:** Multiple sandstone units interbedded with mudstones. Primary host to uranium mineralization.

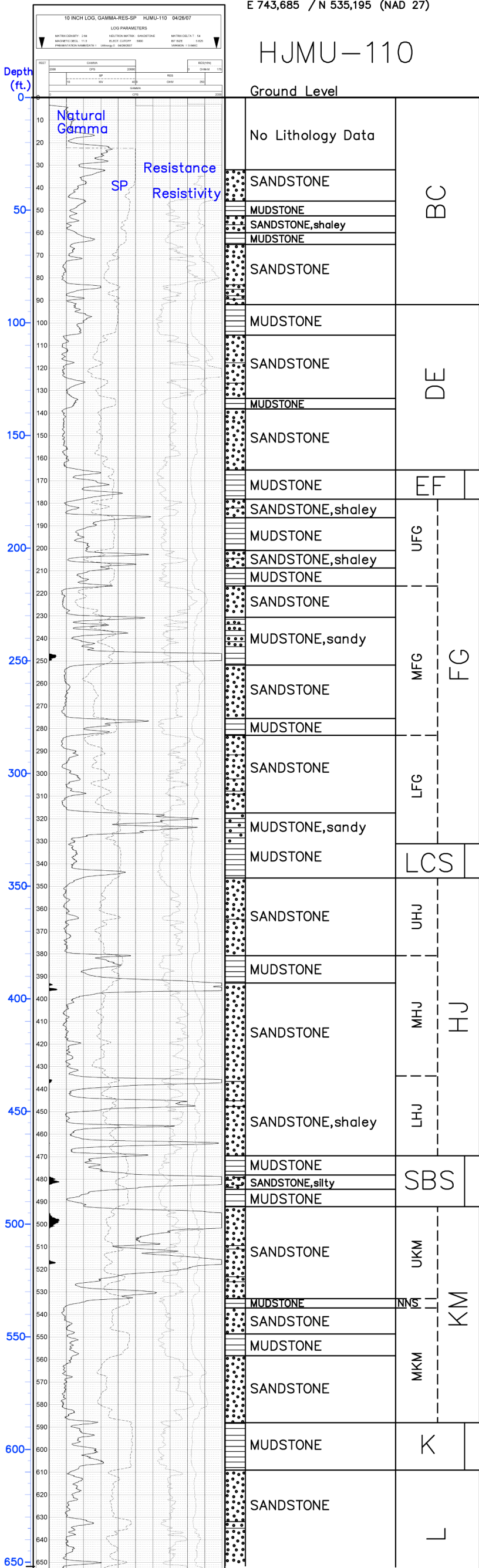
**SBS (Sagebrush Shale):** Mudstone and claystone, commonly silty and/or sandy; locally with interbedded very fine-grained sands. Exhibits lateral continuity throughout project area. Commonly intertongues with upper portions of the KM and lower portions of the HJ.

**KM Horizon:** Multiple sandstone units interbedded with mudstones. Host to significant uranium mineralization.

Includes NNS (No Name Shale) separating UKM from MKM. Does not exhibit regional continuity.

(Note: MKM has recently been renamed LKM).

**K (K Shale):** Mudstone and claystone, commonly silty and/or sandy.



Overlying Aquifer

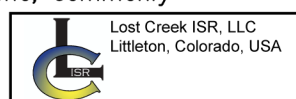
Upper Confining Unit

Production Zone Aquifer

Lower Confining Unit

Underlying Aquifer

Vertical Scale: 1"=50' (TD 850)



**FIGURE IV-3**  
**Stratigraphic Column, Upper Battle Spring Formation**  
**Lost Creek Permit Area**

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