Detailed Sedimentology and Stratigraphy of the Remington 21-1H Cane Creek Shale Core, Pennsylvania Paradox Formation, Southeastern Utah: Implications for Unconventional Hydrocarbon Recovery

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XRD Mineral Analysis

Core Log Explanation:
- clay
- silt
- Dolomite
- Mottled Anhydrite
- Shaly dolomite with abundant anhydrite
- Shaly dolomite with layered anhydrite
- Bedding plane anhydrite-filled fractures
- Shale, black, slickensides and bitumen
- Shale, black, very finely laminated
- Shaly dolomite with layered anhydrite
- Shaly dolomite, gray to dark gray, calcareous, highly bioturbated with small specks
- Shale, black, very calcareous, rare pyrite, small scale brecciation upper portion of
- Shaly dolomite, dark gray, calcareous, abundant anhydrite blebs, some disturbed,
- Shale to silty shale, becoming less calcareous towards base with salt filled fractures
- Dolomite, dark brown, disturbed laminations, thinly laminated and shaly near base
- Shaly dolomite, dark brown, calcareous, abundant anhydrite blebs, some disturbed,
- unit, possible exposure surface (?).
- Shale, black, very calcareous, rare pyrite, small scale brecciation upper portion of
- Shaly dolomite, dark gray to dark brown, very calcareous, some disturbed bedding.
- Dolomite, dark gray, bioturbated, some very thin shaly interbeds, some slickensides
- Dolomite, gray to dark gray, upper part bioturbated (?), becoming finely laminated
- Shale, black, very calcareous.
- Dolomite with abundant mottled anhydrite.
- Shale, black.
- Dolomite, dark gray, rare pyrite, near horizontal fracture at top with possible
- Dolomite, dark gray, bioturbated, some very small auto breccia (?).
- Dolomite, gray to dark gray, possible bioturbation, upper part finely laminated,
- Dolomite, gray to dark gray, upper part finely laminated, lower part some very small auto breccia (?).
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