

RNS Final Report

Enerplus Resources

Lloydminster 7-66-3-10-2N

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Well Information and TSD Plot

Customer: Enerplus Resources

Well: Lloydminster 7-66-3-10-2N

Rig: Cyclone 37

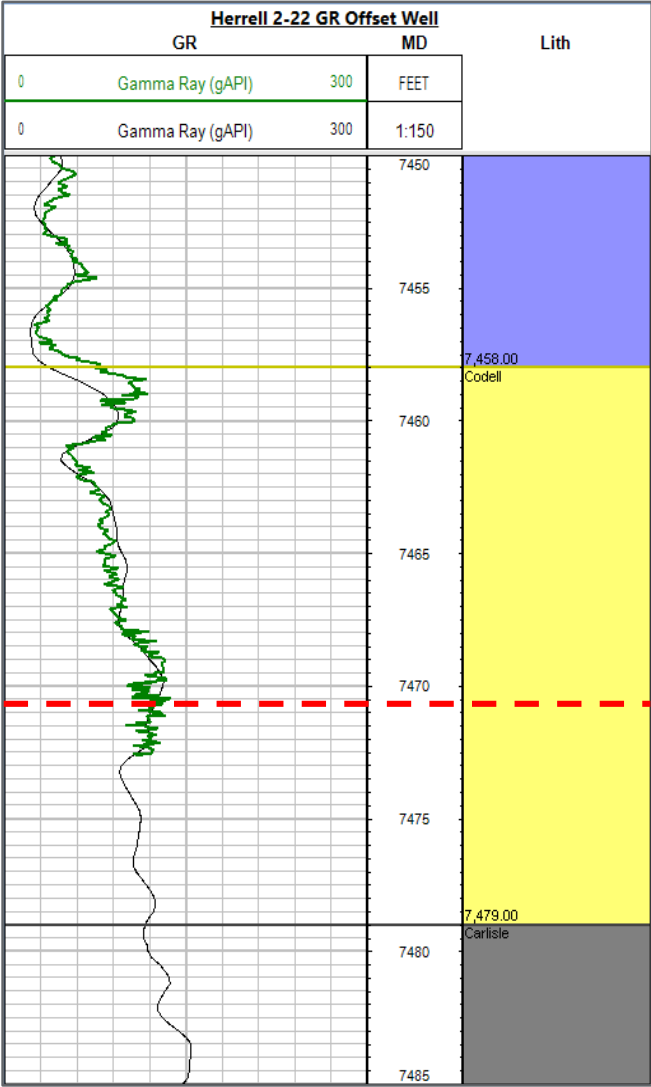
Formation: Codell

Location: Weld County, Colorado

Final Stratigraphic Position

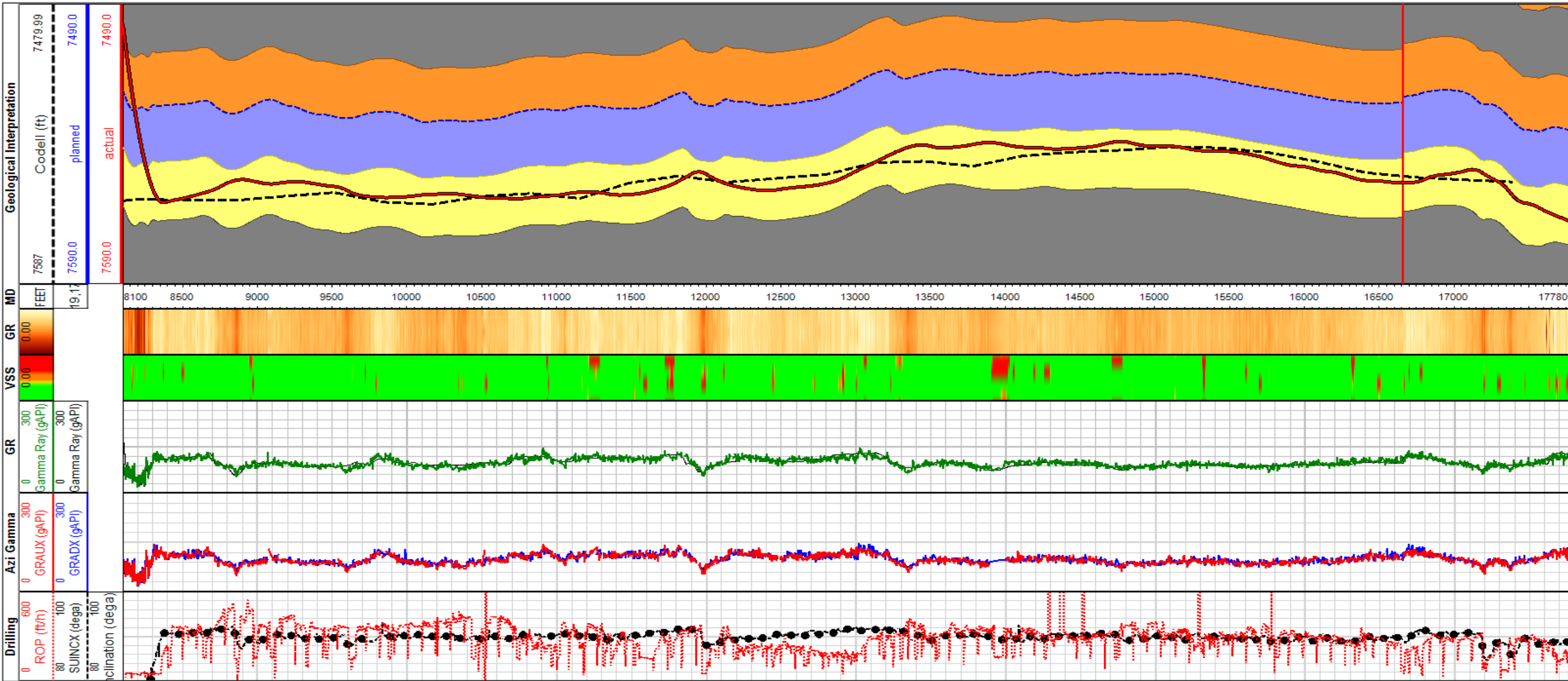
~13 ft. below the base of the Codell Top

Herrell 2-22 GR Offset Well

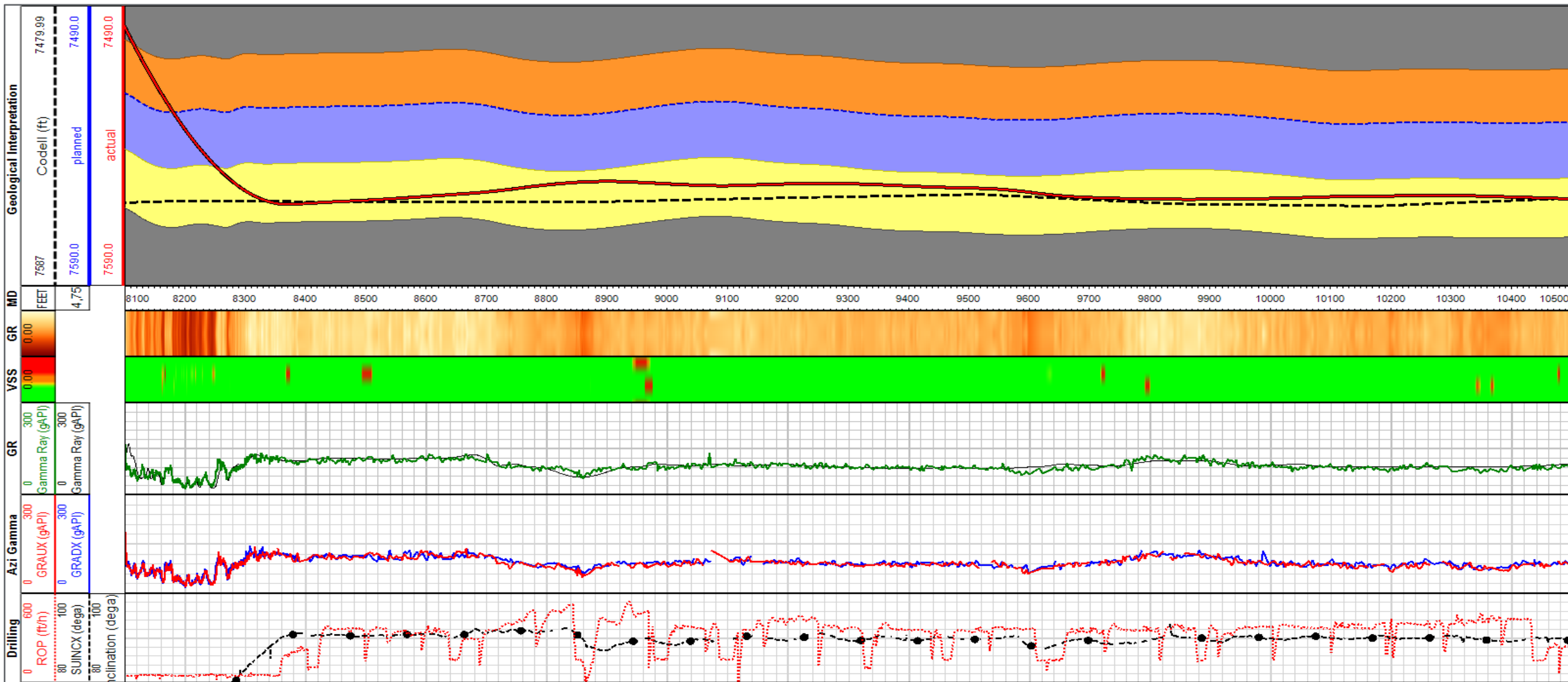


Position at Well TD

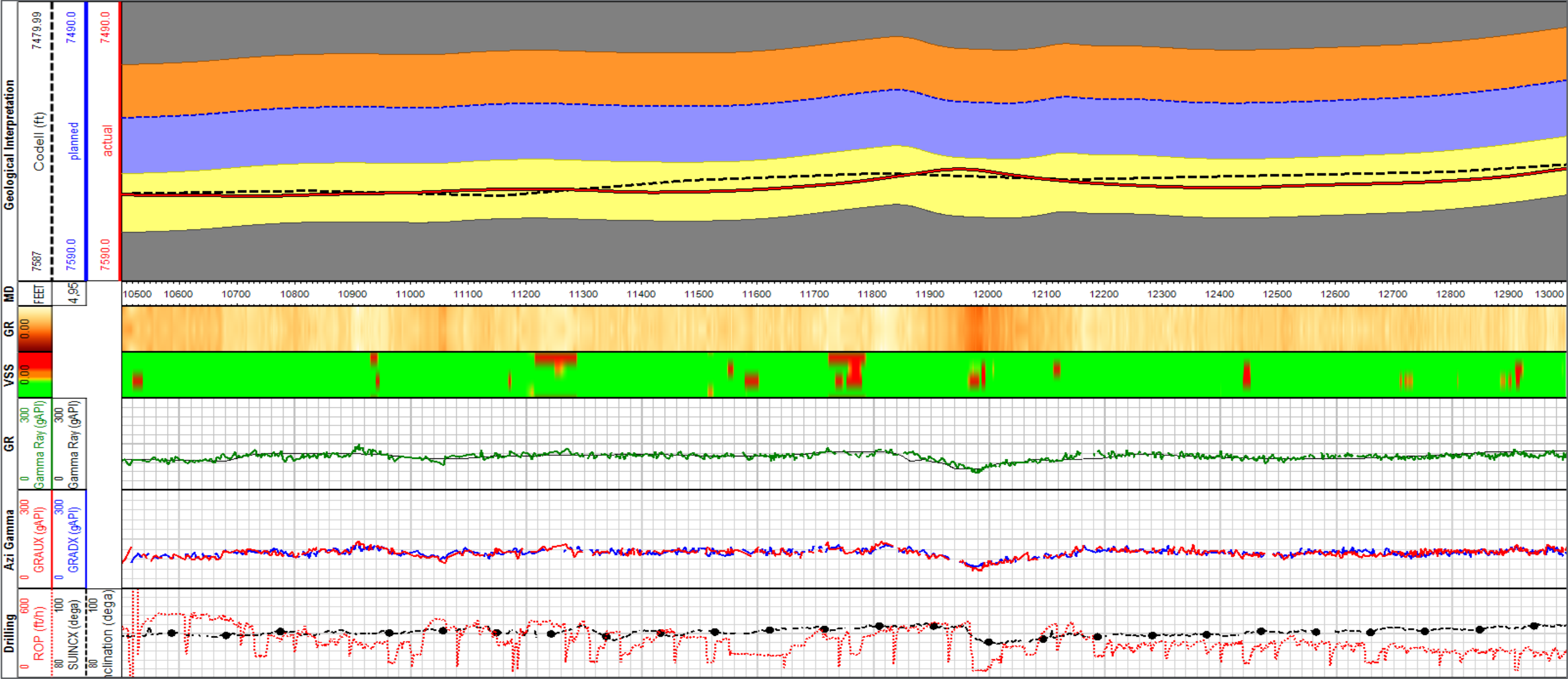
Lloydminster 7-66-3-10-2N Post-Well Interpretation



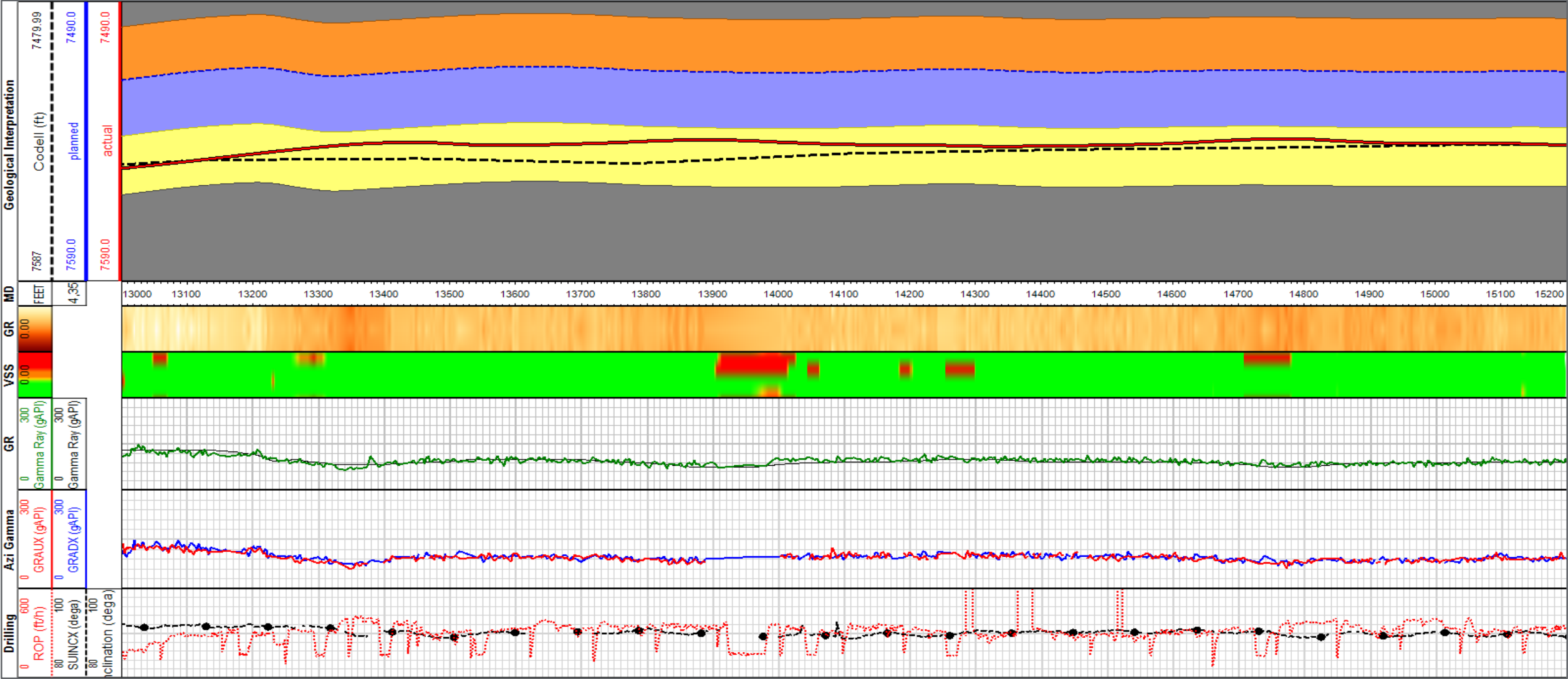
RNS Interpretation 8,100 – 10,500 ft. MD



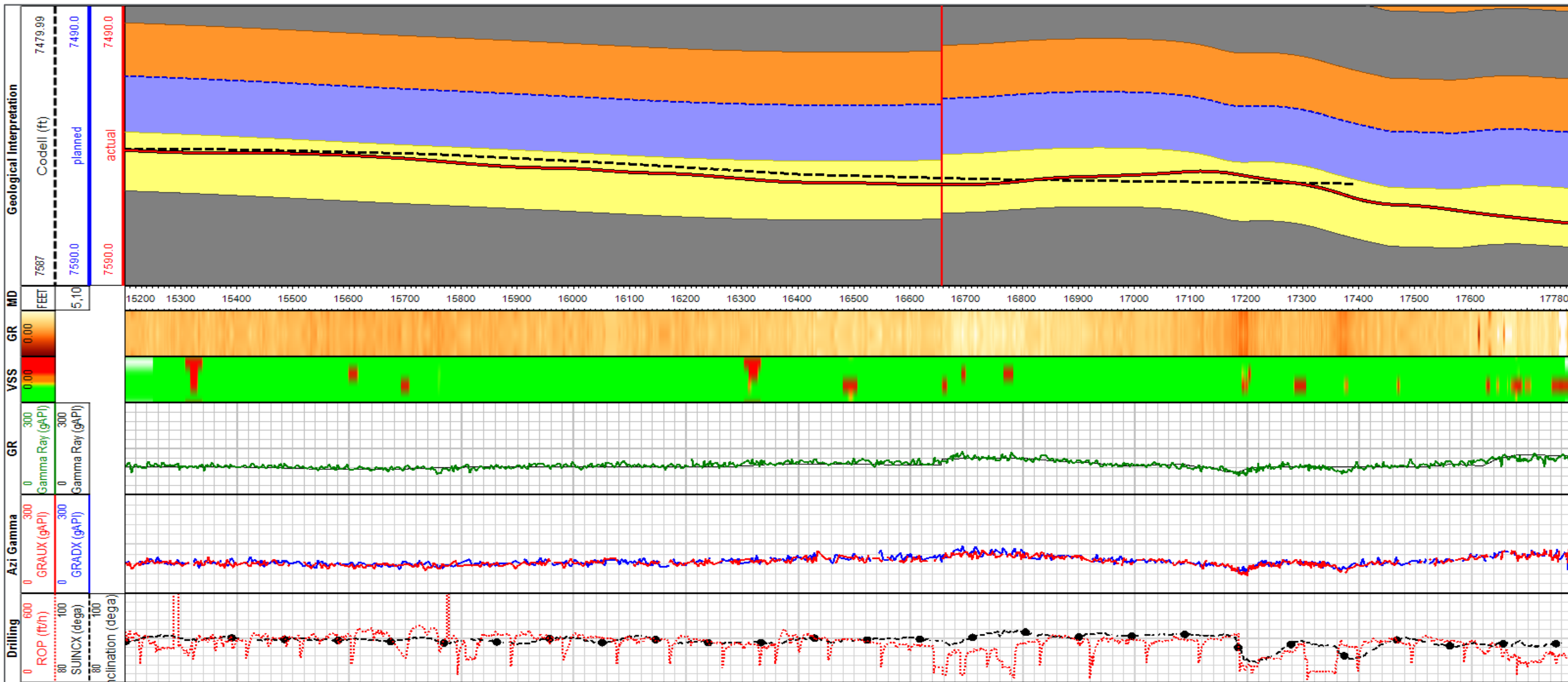
RNS Interpretation 10,500 – 13,000 ft. MD



RNS Interpretation 13,000 – 15,200 ft. MD



RNS Interpretation 15,200 – 17,780 ft. MD



RNS Well Summary

Percent in Formation

Footage drilled since entering the Codell: 11,578 ft. (6,252 ft. MD – 17,830 ft. MD)

Footage and percentage of lateral drilled in the Codell: 9,104 ft. or 100%

Steering Changes and Remarks

Reservoir Navigation Services (RNS) were utilized for steering recommendations during the curve and lateral portion of the well. All steering decisions were made and communicated to the rig by Enerplus Resources Geology or Baker Hughes RNS.

The curve was steered following Plan Rev-C.0 with a plan of landing about 12 ft. below the Codell top to avoid the low gamma streak near the Codell top. The Nio A Chalk and Nio A Marl both came in 6 ft. deeper than prog, so landing point was dropped 5 ft. to 7,565 ft. TVD. Tops from the Nio B upper to the Nio C Marl came in ~7.5 ft. shallower than prog, on average, so landing point was brought up 3 ft. to 7,562 ft. TVD. The well landed at about 8,369 ft. TVD / 7,561 ft. TVD, about 14 ft. below the Codell top.

The lateral started with a 90.5° target inclination to move up section. The well reached the low gamma streak by ~8,800 ft. MD where target inclination was dropped to 88.5° to create separation from the Codell top. At that point, the wellbore stayed below the low gamma streak before moving down section to the middle of the Codell at 9,700 ft. MD.

From 9,700–11,800 ft. MD, the well drilled ahead near the middle of the Codell. At 11,850 ft. MD, apparent dip dropped abruptly and the well moved up to the low gamma streak. Target inclination was dropped to 88° to move down section and the well reached the middle of the Codell by 12,150 ft. MD, where we began to bring target inclination back up to 90.2°.

We navigated over the next 4,000 ft. MD in our preferred target zone in the upper portion of the target window.

At ~16,300 ft. MD, formation started to flatten before we crossed a 4 ft. UT fault at 16,655 ft. MD. Formation increased slightly until ~17,000 ft. MD before rolling over down to ~87°.

RNS Well Summary Continued

Steering Changes and Remarks

The final 300 ft. of the well had an average dip of 89.6°

The well reached TD at 17,830 ft. MD / 7,569 ft. TVD with a final stratigraphic position of 13 ft. below the Codell top.

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