

# Unlocking Reservoir Potential: Raptor™ 2.0 Cased-Hole Evaluation System Delivers Clarity, Pinpoints Residual Gas in Gravel Pack Wells

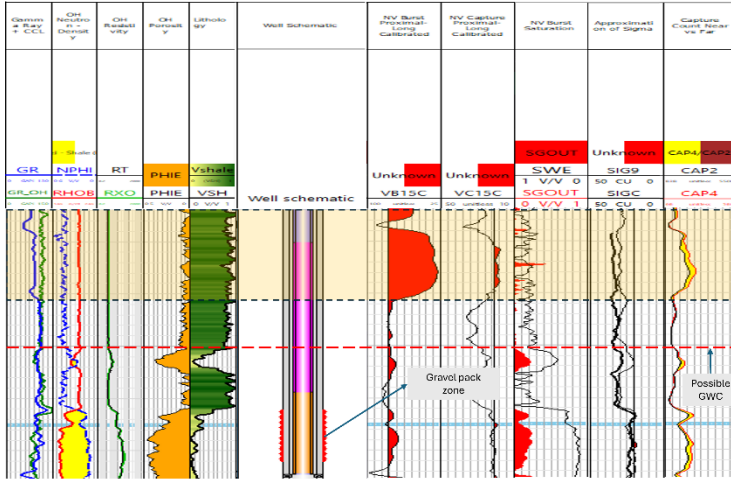
LOCATION  
Myanmar

FORMATION  
Sandstone

HOLE SIZE AND ANGLE  
8-1/2 in., deviation up to 43°

CASING SIZE  
Single 7-in. casing and 3-1/2-in. tubing

- PRODUCTS/SERVICES
- Raptor 2.0 cased-hole evaluation system
  - Interpretation and Evaluation Services



The log shows fluid saturation identification using N-vision and Sigma logging as deployed by the Raptor 2.0 system. From the picture, the possible gas/water contact has been pinpointed, and the red shaded area in NV Burst saturation are defined as residual gas.

## Objectives

- Run saturation logging to check current hydrocarbon saturation profile in sand interval to confirm presence of gas/water.
- Correlate current saturation with historical data and nearby wells.

## Our Approach

- The operator needed N-vision and Sigma pulsed neutron logging to determine fluid contact and saturation in the target reservoirs.
- Weatherford experts recommended the Raptor 2.0 cased-hole evaluation system, a pulsed-neutron wireline logging device that provides advanced analysis of oil, water, and gas saturation behind casing.
- The Weatherford Interpretation and Evaluation Services (IES) team collaborated with field personnel and the operator to ensure the successful deployment and high-quality data retrieval with proper log QC.
- Based on input from the operator, a Monte Carlo N-Particle model was used to validate the response envelope.
- Saturation analysis using Vshale and Phie indicated approximately 20 to 24% gas saturation, with water line normalization at the highest NV ratio in the sand formation.



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### Our Approach (continued)

- Sigma readings (~20 cu) and capture count crossover supported the presence of gas saturation.
- Final results were presented to the operator for improved understanding and correlation with nearby wells.

### Value to Customer

- The IES team's interpretation helped the operator pinpoint gas/water contact and confirm current saturation levels.
- The analysis revealed potential residual gas above the packer and water movement below, enabling the operator to better plan future operations and understand well conditions.

