

# Case Study

## New PDC Benchmark Set in Beetaloo Basin, Northern Australia

### APPLICATION

8.75" Vertical  
500m of extremely hard and abrasive sand

### TECHNOLOGY

VION™ 616  
VENOM™ Cutter  
HYDRA™ Technology

### LOCATION

Northern Australia  
Beetaloo Basin

### CUSTOMER CHALLENGE

- Multiple bits run required to drill the sand formation. Rung out and cored out bits are common.
- Short intervals with low ROP by offset bits.
- 100 days to reach TD drilling nearby vertical offset well.

### VAREL SOLUTION

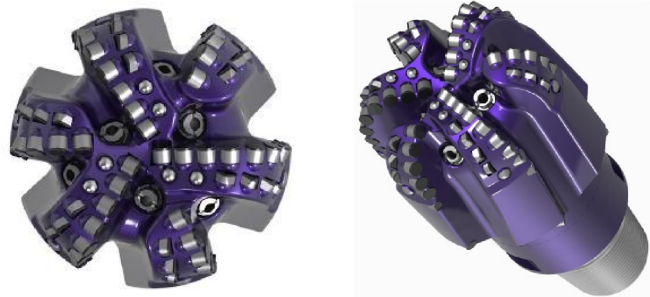
- VENOM™ cutter technology to match the cutter to the formation requirement.
- HYDRA™ Technology
- G1 Gage Design
- DIG-3D™ contact analysis

### CUSTOMER VALUE

Field setting in drilling the sand formation as compared to offset wells.

- Fastest ROP of 9.25 m/hr.
- Achieved 314% increase in ROP.
- TD reached in 18.3 days representing a 54% reduction compared to other near-field vertical sections drilled deeper than 2500m. This also compares to the more than 100 days to reach TD at close by vertical well.

### 500 MATRIX PDC VION™ 616 DESIGN



### PERFORMANCE COMPARISON

