

## Finer API screening by running Derrick® Pyramid® screening technology on the BRANDT® KING COBRA™ reduces cost by 18%

- Pyramid® screening technology achieved the separation potential of an API 140 reducing well costs
- Total cost savings: \$11,184

### Objective

Increase solids removal by selecting the finest screen possible to reduce dilution requirements and optimize both penetration rates and flow rates leading to a reduction in overall cost for the well.

### Drilling Parameters

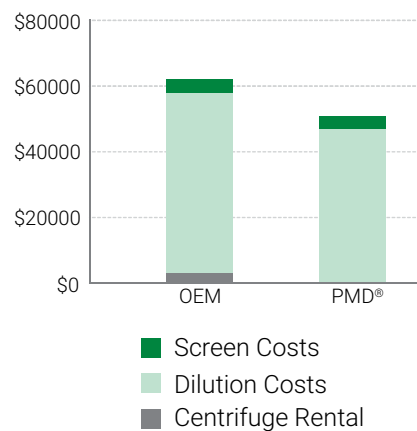
Mud weights ranged from 11-12 lb/gal. Flow rates ranged from 898-925 GPM (3.4-3.5 m<sup>3</sup>/min). Penetration rates ranged from 46-64 ft/hr (14.1-19.4 m/hr). The data was obtained while drilling a 17.5" section of a well in the Middle East (Saudi Arabia).

### Conclusion

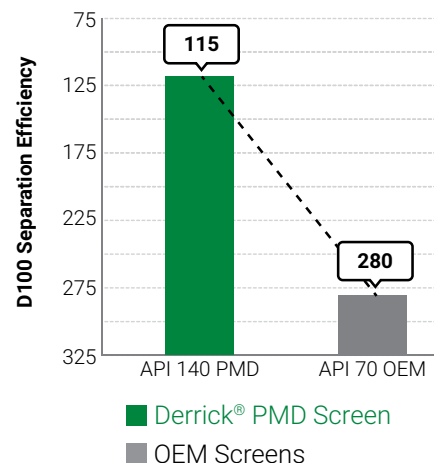
Capacity problems prevented the operator from screening finer on previous wells. Without sacrificing capacity, Derrick's patented Pyramid Screening Technology achieved the separation potential of an API 140 (115 micron cut point) reducing well costs.

- Sodium Silicate dilution cost savings:  
314 bbl x \$30/bbl = \$9420
- Waste management rental cost savings:  
6 days x \$516/day = \$3096
- Additional screen cost of PMD API 140 over OEM API 70 = (\$1332)
- **Total cost savings: \$11,184**

Cost Comparison



API RP 13C (ISO 13501) Screen Separation Potential



For more information, please contact your local Derrick sales representative.

15630 Export Plaza Drive • Houston, Texas 77032 U.S.A. • Toll Free: (866) DERRICK • Office: (281) 590-3003 • Fax: (281) 590-6187  
[info@derrick.com](mailto:info@derrick.com) • [www.Derrick.com](http://www.Derrick.com)