

Submersible Pump for Irrigation Well Successfully Deployed in Tight Wellbore, Supplying Much Needed Water for Crops

SUMMIT ESP® SLIMLINE PUMP HELPS OVERCOME SEVERE DOGLEGGING AND MULTIPLE LIMITATIONS IN AGRICULTURAL APPLICATION

CHALLENGE

- » Competitor pumps failing in agricultural application
- » Tight wellbore
- » Dogleg severity
- » Limited inflow to wellbore
- » Limited electrical power availability
- » Need for NSF61/372 compliance

SOLUTION

Implement Summit ESP® slimline pump, compliant with NSF61/372 requirement

RESULT

- » Provided procurement short lead time
- » Installed pump inside tight, restricted, doglegged wellbore
- » Safely installed in well without getting stuck or damaged
- » Provided water to save crops in a timely and cost-effective manner

CHALLENGE

Summit ESP® was presented with a highly challenging agricultural application, where competitor pumps had previously failed. The customer wanted to produce water from an irrigation well that had multiple issues including limited wellbore clearance and severe doglegs causing pump submergence issues, as well as limited power supply availability. The customer also needed to be able to produce the resource quickly and safely without incurring costly redrilling and be NSF61/372 compliant.

SOLUTION

To meet these challenges, Summit ESP engineers designed an electrically efficient slimline electric submersible pump (ESP) that met NSF61/372 requirements. The pump was delivered 60 days sooner than what competitors typically deliver. Due to its narrow dimension, the slimline pump could easily be installed in tight and severe dogleg wellbore conditions, allowing effective pump submergence.

RESULT

The slimline pump enabled the customer to successfully produce the irrigation well and get much needed water to its crops. This was accomplished in accordance with NSF61/372 requirements, protecting health, safety, and environment.



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