

WWT JetGuide Helps 9-5/8in Casing Though a Trouble Zone in Texas

Operator Identifies WWT JetGuide as a Possible Solution to Help Run Casing After Several Problem Casing Runs in the Area.

Well Basics:

- Horizontal well with 9-5/8" casing set at bottom of vertical section.
- Target depth 8800ft.
- JetGuide set up to convert to centerline open at 13bpm (546gpm).

WWT JetGuide in Action

The WWT JetGuide was called out after the operator had experienced several failed casing runs and significant downtime on previous wells in the immediate area.

The JetGuide was sent out on short notice with a crossover to enable easy handling, and run into the hole. Two float collars were run above the JetGuide to complete the shoe track.

The JetGuide helped the casing run past the trouble zone at 7800ft requiring approximately 30,000lbs max set down weight to work through the zone. This same area had caused several failed casing runs using other shoes.

Some settled cuttings/fill were encountered approximately two joints off bottom. The rig began circulating through the JetGuide at 335gpm. This resulted in a jetting force of approximately 300lbs and a flow velocity of 70ft/sec, enabling the rig to efficiently wash down the last two joints and quickly reach bottom.

After reaching bottom, the pump rate was increased to open the centerline nozzle, as the rig wanted the centerline open for cementing. The center nozzle opened at approximately 505gpm, within 10% of the set conversion flow rate.



Location: Texas, USA
Well Type: Land, Horizontal Well
Objective: Run 9-5/8in casing through difficult formations.
Solution: WWT JetGuide
Results: Smooth casing run to bottom.



9-5/8" JetGuide with crossover just prior to being sent to the rig.



Photo showing the 9-5/8" JetGuide with closed center nozzle and outer ring of six jetting nozzles.