



# Weatherford®

## REAL RESULTS

### Free-Rotating Eccentric Guide Shoe Threads Casing Through Obstacle Course to Reach TD Essential for Successful Water Disposal

#### Objectives

- Run casing in a highly deviated, crooked, and problematic hole; and set it at total depth (TD)—90 ft (27 m) inside Shuaiba—to enable disposal of water. Reaching TD was critical. On a previous job, Shuaiba could not be disposed with the casing set 10 ft (3 m) off bottom.
- Reduce running time recorded on previous well.
- Overcome all tight spots, ledges, doglegs, and shale fill.
- Achieve good cementation of casing and zonal isolation between Shuaiba and Burgan formations.
- Protect Shuaiba, and secure all expected losses.

#### Results

- Weatherford's model 204V free-rotating eccentric guide shoe was used to run the 13 3/8-in. casing to TD without rotating the casing. The self-rotating, PDC-drillable shoe guided the casing through all the tight spots, ledges, doglegs, and, lastly, the Burgan shale fills on bottom to reach the mandatory TD.
- Total running time, including washing to bottom, was 22 hr, beating the previous time of 38 hr using a conventional guide shoe.
- Cementing was successful, and zonal isolation was achieved.



#### Client

Kuwait Oil Company

#### Location

Kuwait/Umm Gudair field

#### Formation

Shuaiba/Burgan (limestone/shale)

#### Well Name

UG-135

#### Well Type

Water disposal

#### Rig

KDC-25

#### Hole Size

16 in.

#### Hole Angle

37°; dogleg: 4.5°/100 ft (30 m)

#### Casing

Intermediate casing: 13-3/8 in.

#### Depths

- In: 6,559 ft (2,000 m)
- Out: 6,649 ft (2,027 m)

#### Setting Depth

6,649 ft (2,027 m)

#### Products/Services

- Cementing services
- Free-rotating eccentric guide shoe



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### Value to Client

- Water disposal was accomplished successfully, with a running time reduction of 16 hr. Estimated value of rig time savings and other related running costs compared to the offset well: about US\$20,000.

“Congratulations, gentlemen. We have just reviewed the casing bond log. Another great casing and cementing success, and also another two world records and a KOC first. This well now holds the world record for deepest and largest volume of ultra-light concrete ever set.”

—Thomas Radford (WK Geophysical IC)

“The casing was washed to bottom with no indications of resistance....”

— KDC-25 drilling supervisor

