

# Ray Oil Tool Co.

## Downhole Dual Casing Guide



In Collaboration with  
Product Development Group Ltd

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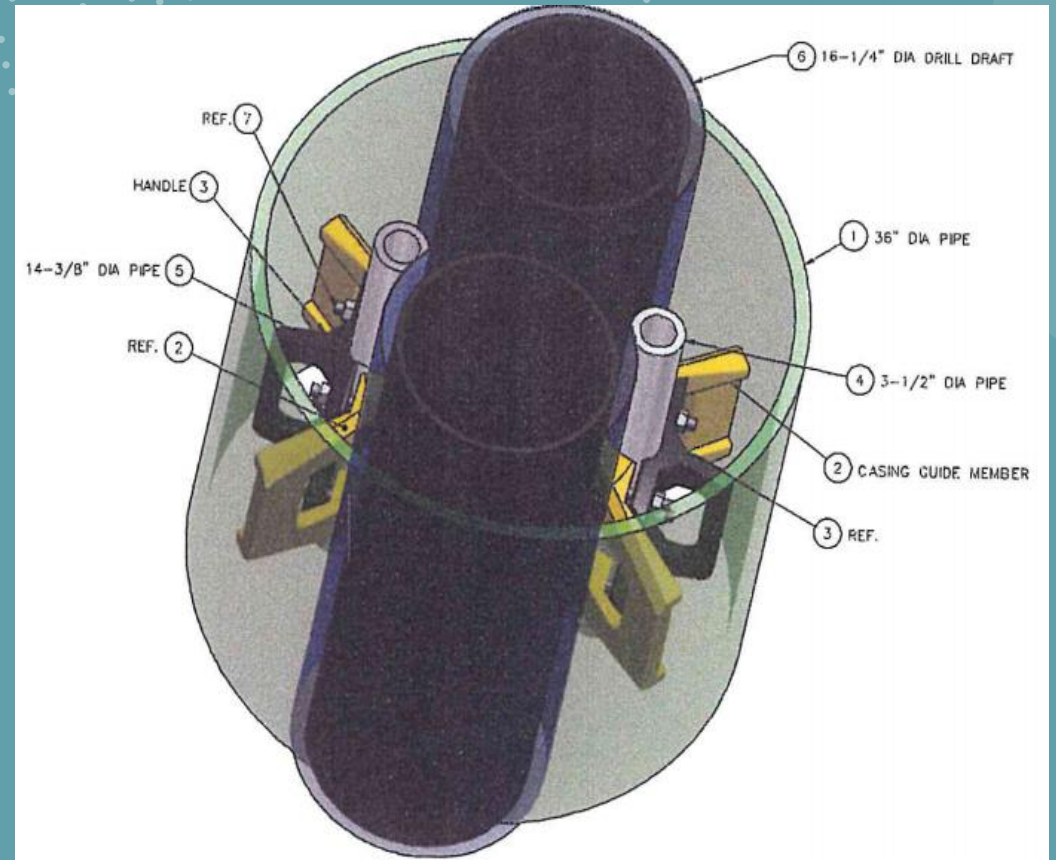
# Overview

- Can double the number of wellbore slots
- Provides a simple contoured structure which guides two surface casing strings within the conductor casing.
- Maintains “side-by-side” spacing between the two casing strings
- Designed in conjunction with wellhead manufacturer
- Patent number 6,012,529



# Benefits

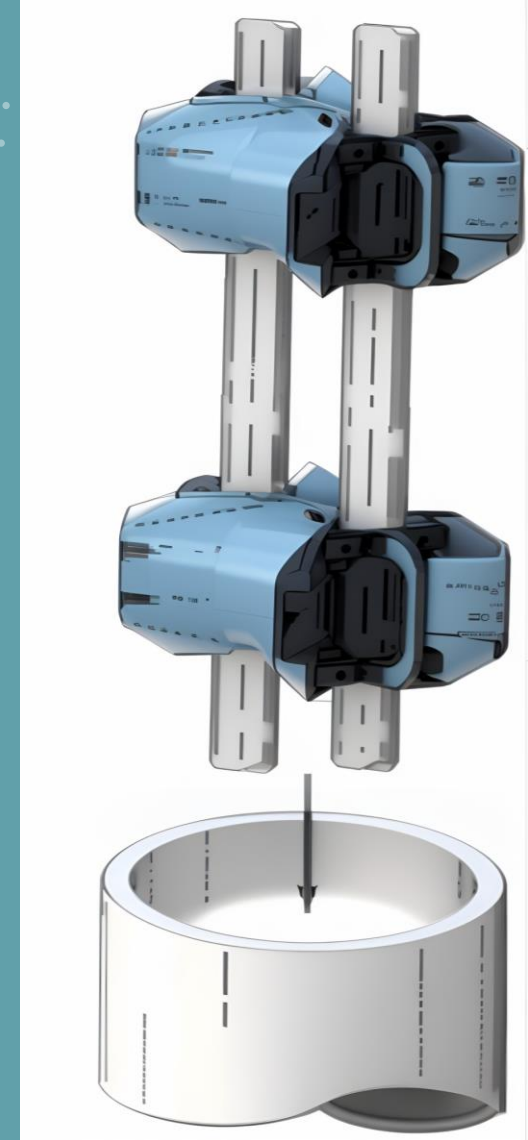
- Maximizes available flow area for cementing
- Tapered upper and lower entry surfaces within the conductor casing.
- Downhole Guide installed using tubular string.
- Surface Casing not attached to casing guide
- Simple to install



Example – Downhole Dual Casing Guide for 36" Conductor,  
installed on 3 1/2" DP, with 14 3/8" Surface Casing

# Installation

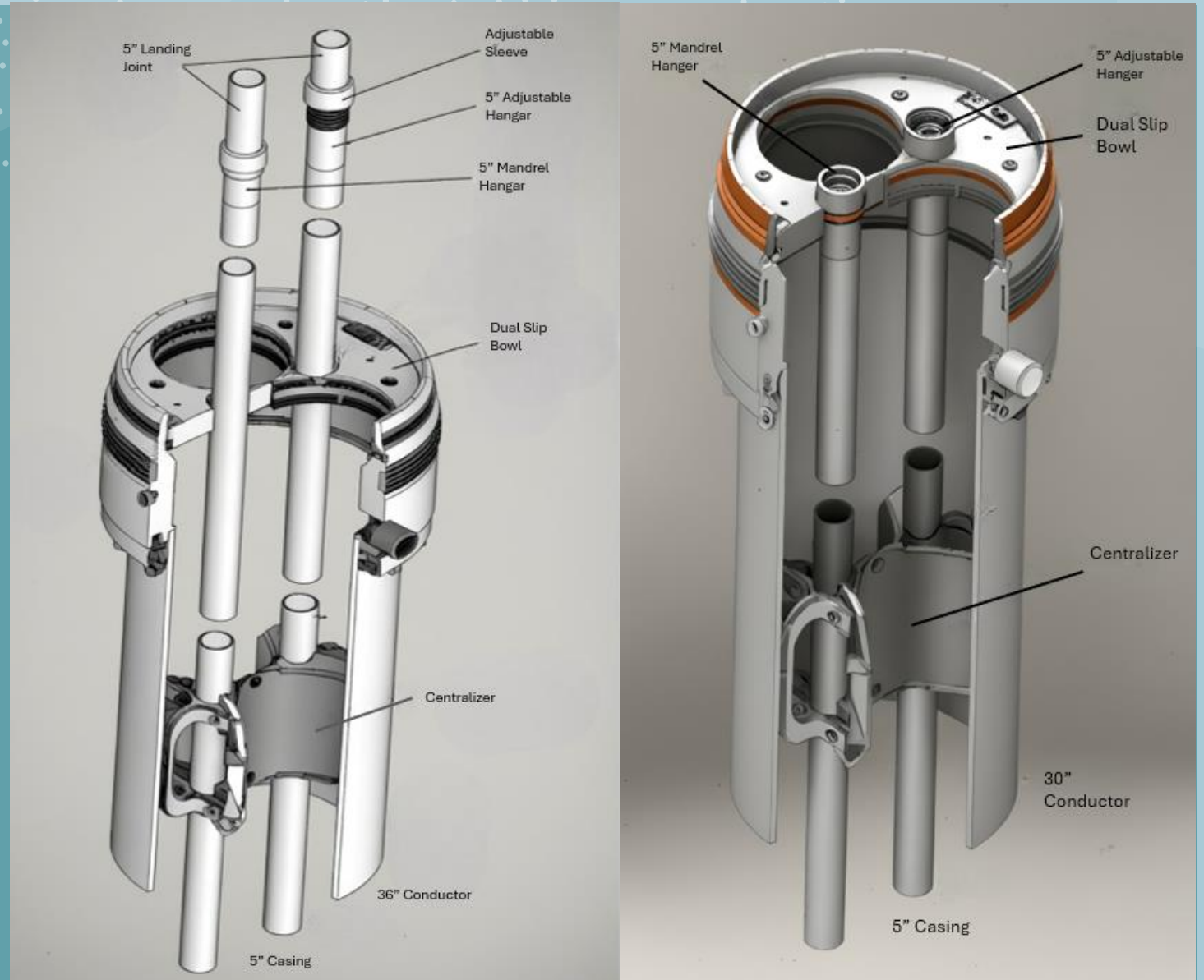
- Rig up Dual slips and spider.
- Pick up both strings with dual elevators and RIH
- Set strings in slips, Assemble first Downhole Casing Guide to strings
- RIH
- Repeat as until last Downhole Casing Guide has been installed





# Installation

- Install landing joint/Adjustable Hanger as per wellhead company's instructions
- Landout on Dual Slip bowl



# Installation

- Make up and install Adjustable Seal Subs
- Adjust the height of each seal sub as required
- Prep the dual split bowl as per wellhead engineer's instructions in readiness to run the casing strings

