



Fusion of Experience, Innovation & Technology

TRI-MAX Enlarging While Drilling Tool (EWD[®])

The **Proof** is in **Performance Records**

FINAL EWD RUN REPORT

Operator: <u>BP America</u>	Depth Out: <u>11,165 ft</u>	Well No: <u>MC 28 A 32</u>
Rig Manager: <u>David Littleton</u>	Depth In: <u>8,481 ft</u>	Field: <u>Pompano</u>
Contractor: <u>Helmerich&Payne</u>	Footage: <u>2,684 ft</u>	Area: <u>Mississippi Canyon</u>
Rig: <u>HP 100</u>	ROP: <u>50-80 ft/hr</u>	Date: <u>March 2002</u>

Tool Size Serial # 14 3/4" x 17 1/4" EWD Ser.# 31417-102
 Drilling Hrs: 51 1/2 hours In Hole Hrs: 76 1/2 hrs
 BHA: 14 3/4" PDC bit, Rotary Steerable, 12 1/8" Stab., LWD, MWD EWD
 WOB: 20-40k RPM: 110-140 Hole DEV: 38°
 Rotary Torq Off Bottom 500 Amps Rotary Torq On Bottom: 800-980Amps Hook Load: 365k
 Mud Type: Synthetic Mud Wt: 13.5 ppg Visc: 76
 GPM: 1,043-1,271 SP Press: 2,900-3,050 psi BHT: 162°F

Comments:

- * Due to Vibration experienced with bi-center bits, a decision to change bits was made.
- *The EWD and rotary steerable were RIH.
- * EWD was activated at 8,481 ft.
- * Drilled Salt from 8,579 to 11,165ft., ROP 70 ft/hr, holding 38° angle.
- * Liner went to bottom, no drag, EWD showed 30% wear.
- *MWD showed minimal vibration in BHA.

Company Representative: David Littleton / Don Vidrine
 TRI-MAX Representative: Mark Harbert / James Mosley



A series of EWD[®] run reports describing tool performance in a variety of applications.
 For additional information contact us at: