

Caballo 23 Fed #2H – Fluid Level Shots 4/15/20

Summary:

On 4/15/20 five static fluid level shots were taken over a one-hour period from an Echometer Acoustic Liquid Level Instrument. The final static fluid level shot indicates that the liquid level was at 9,018' with 532 psi casing pressure, and the calculated static BHP was 1,172 psi.

Well Information

TD: 14,110' **TVD:** 9,455' **PBTD:** 14,097' **GR:** 3,350' **KB:** 3,380'

Surface Casing: 11¼" 42# H-40 at 1,190'. Cemented with 650 sx. Cement circulated.
Intermediate Casing: 8¾" 32# J-55 & HCK-55 at 5,005'. Cemented with 1,200 sx. Cement circulated.
Production Casing: 5½" 20# HCP-110 at 14,097'. Cemented with 1,450 sx. TOC at 4,806' by CBL.
Perforated Interval: 9,729'-14,060' (9,455' TVD)

Fluid Level Shots

Fluid gradient (f_g) = 0.433 psi/ft

Gas gradient (g_g) = 0.05 psi/ft

1. 9:23am – Well was shut-in and 1st fluid level shot taken.
 FL = 9,080' Csg = 528 psi
 $BHP = (TVD - FL) * f_g + Csg + (FL * g_g)$
 $BHP = (9,455' - 9,080') * 0.433 + 528 + (9,080' * 0.05)$
 BHP = 1,144 psi
2. 9:39am – 2nd fluid level shot.
 FL = 9,060' Csg = 530 psi
 $BHP = (9,455' - 9,060') * 0.433 + 530 + (9,060' * 0.05)$
 BHP = 1,154 psi
3. 9:56am – 3rd fluid level shot.
 FL = 9,038' Csg = 530 psi
 BHP = 1,162 psi
4. 10:12am – 4th fluid level shot.
 FL = 9,028' Csg = 531 psi
 BHP = 1,167 psi
5. 10:28am – 5th fluid level shot.
 FL = 9,018' Csg = 532 psi
 BHP = 1,172 psi

