

From: Hutchison, David
 Date: Monday, July 01, 2013 7:02 AM
 To: David, Robert
 Cc: 'W2272 David, Robert, Robert, Robert'
 Subject: RE: 10/212 Pressure
 Estimates of original reservoir pressure would be helpful for the material balance aspect if it can be provided, but this estimate would need to be at the W2272 since that is the data being analyzed. If not available then I'll work with what I have.
 David A. Hutchison
 Reservoir Engineer
 GARD - Thunder Horse Project
 Phone: 281-366-1200
 Fax: 281-366-7988
 Mobile: [REDACTED]

David:

As we discussed, I'd like a second set of eyes on this data. It's THP data, but treat it as if it were BHP (there's no good way to correct it). Specifically what I'm looking for is:

The data is in the sheet "Data". Other important items:

- Consider flow rates from 4/20 to 7/15 of either 45 mbd and/or 60 mbd
- Shut in started at 7/15 @ 12:29; Finished at 14:22. This was a gradual shut-in.
- Parameters: OOIP ~ 110 mmstb, $B_o = 2.345$, $\text{visc} = 0.225$ cP, $C_o = 13e-06$, $C_w = 3e-06$, $C_f = \text{either } 6e-6 \text{ or } 12e-6$, $\text{por} = 21\%$, $\text{perm} = 200 - 300\text{K}$ (log based), $S_w = 10\%$ (in oil zone), and Net H = 93 ft.
- Also consider additional volume 4x the reservoir volume of the oil alone (an aquifer).

CONFIDENTIAL

BP-HZN-2179MDL07254809
 BPCSR-01480

TREX 010931.0002

TREX-010931.0002