

**From:** Merrill, Robert C  
**Sent:** Mon Jul 19 16:31:45 2010  
**To:** Levitan, Michael M.  
**Subject:** RE: MC252 Pressures  
**Importance:** Normal

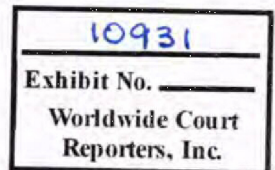
Later, yes.  
Bob Merrill  
Senior Advisor  
Reservoir Engineering Community of Practice  
BP EPT, Houston  
Phone: +1 281-366-2049  
Cell: +1 713-409-7340  
email: merrilrc@bp.com

---

**From:** Levitan, Michael M.  
**Sent:** Monday, July 19, 2010 11:27 AM  
**To:** Merrill, Robert C  
**Subject:** RE: MC252 Pressures  
Bob,  
Do you need my help?  
Michael

**From:** Merrill, Robert C  
**Sent:** Monday, July 19, 2010 7:48 AM  
**To:** Hutchinson, David A  
**Cc:** MC252\_Email\_Retention; Levitan, Michael M.  
**Subject:** RE: MC252 Pressures  
Sorry, it's our one "good" data point: 11850 ( which translates to 8556 for the tubing head pressures you're working with).  
One thing I forgot to mention - also consider the cases where the well continues to flow at 5, 10, 15, 20 and 30 mbd (to reflect crossflow into a shallower formation).  
Thanks.  
Bob

Bob Merrill  
Senior Advisor  
Reservoir Engineering Community of Practice  
BP EPT, Houston  
Phone: +1 281-366-2049  
Cell: +1 713-409-7340  
email: merrilrc@bp.com



CONFIDENTIAL

BP-HZN-2179MDL07254808  
BPD587-014688

TREX 010931.0001

**From:** Hutchinson, David A  
**Sent:** Monday, July 19, 2010 7:43 AM  
**To:** Merrill, Robert C  
**Cc:** MC252\_Email\_Retention; Levitan, Michael M.  
**Subject:** RE: MC252 Pressures

Estimate of original reservoir pressure would be helpful for the material balance aspect if it can be provided, but that estimate would need to be at the WH since that is the data being analyzed. If not available then I'll work with what I have.

***David A. Hutchinson***

Reservoir Engineer  
GoMP -Thunder Horse Project  
Phone: 281-366-1693  
Fax: 281-366-7989  
Mob: 281-451-9838

---

**From:** Merrill, Robert C  
**Sent:** Monday, July 19, 2010 7:32 AM  
**To:** Hutchinson, David A  
**Cc:** MC252\_Email\_Retention; Levitan, Michael M.  
**Subject:** MC252 Pressures  
**Importance:** High

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:

- Any indications of departure from integrity
- Your view as to whether this sort of build-up falls within the bounds of a "normal GoM" well.
- A type curve model which matches the data (and the implications of the type curve in terms of perm, skin [ recognising that wellbore issues could express themselves as skin ], and volume).
- JPEG or GIFs of the Horner and Derivative plots
- The PIE file.

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, Bo = 2.345, visc = 0.225 cP, Co = 13e-06, Cw = 3e-06, Cf = either 6e-6 or 12e-6, por = 21%, perm = 200 - 300K (log based), Sw = 10% (in oil zone), and Net H = 93 ft.
- Also consider additional volume 4x the reservoir volume of the oil alone (an aquifer).

Many thanks.

Bob

<< File: WIT Data combined.xls (Compressed) >>

Bob Merrill

Senior Advisor

Reservoir Engineering Community of Practice

CONFIDENTIAL

BP-HZN-2179MDL07254809

BPD587-014689

TREX 010931.0002

BP EPT, Houston

Phone: +1 281-366-2049

Cell: +1 713-409-7340

email: merrilrc@bp.com

CONFIDENTIAL

BP-HZN-2179MDL07254810

BPD587-014690

TREX 010931.0003