



Re: On the non-ideal methane behavior at 1200 m

ira leifer, Bill Lehr, Pedro I. Espina, Juan
t Lasheras, Ömer Savas, James J Riley, Alberto
Poojitha Yapa o Aliseda, Antonio Possolo, Paul Bommer, Marcia
: K McNutt, Steven T. Wereley, Mark K Sogge,
Martha N Garcia

06/10/2010 10:21 AM

Dear

We all we calculated the "z" value in $pV = znRT$ for methane.
(we use Holder's algorithms)
values we got are very close to that of Ira

1500m --- 0.781
1200m --- 0.791

Pooji

At 06:55 PM 6/9/2010, ira leifer wrote:

>Dear Colleagues,

>

>I have turned off my phones and quit my email program except to send
>emails to the group such as this.

>

>I am working through my report, and just got around to calculating the
>non-ideal behavior of methane at 1200 m depth. It is 26%. Please take
>this into consideration with respect to gas calculations.

>

>If you need a citation,: Rehder, G., Leifer, I., Brewer, P.G.
>Friederich, G., Peltzer, E.T. 2009, Controls on methane bubble
>dissolution inside and outside the hydrate stability field from open
>ocean field experiments and numerical modeling. Marine Chemistry 114
>(1/2), 19-30. Figure 4

>

>Sorry to get to this now, I had neglected compressibility (only
>density) in my calculation for our previous telecon.

>

>Sincerely
>Ira Leifer