
From: William Burch
Sent: Sunday, May 09, 2010 4:53 PM
To: Fred Ng
Cc: Inge Mosti; David Barnett; John Hatteberg; Monte Leicht; C Scott Jortner
Subject: Re: (RequestID:11852) Clarification of GOR model in OLGA-ABC

Surface or subsea. Ole thinks it's either unit conversion issue (OLGA works in SI and converts to field) or the code is wrong because OLGA doesn't calculate volume rates from the reservoir but mass rate then calculates the volumes.

Sent from my iPhone

On May 9, 2010, at 4:29 PM, "Fred Ng" <fng@wildwell.com> wrote:

If it's one of the subsea blowout scenarios, may be ABC did not correct gas rate for water column back pressure to standard atmosphere? I know the pressure ratio is way more than e, but not sure how much Z factor comes in. Just a wild guess, from a non-petroleum engineer.

From: William Burch
Sent: Sunday, May 09, 2010 1:55 PM
To: Inge Mosti
Cc: David Barnett; John Hatteberg; Monte Leicht; C Scott Jortner; Fred Ng
Subject: RE: (RequestID:11852) Clarification of GOR model in OLGA-ABC

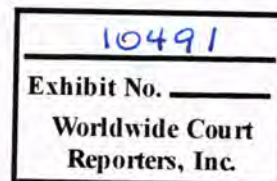
Inge,

It's not that simple on the GOR. Ole Rygg is here and we are comparing OLGA WellKill to OLGA-ABC numbers and I'm hitting the same wall with the GOR. Ole's oil/gas rates are for example 38,000 bopd and 107 MMscf which if you divide the numbers, is approximate 3000 GOR. Makes sense.

Kurt Mix and I have a model (based on the same PVT file that Ole is using) of 53,500 bopd and 93 MMscf which is 1700 scf/stb. How can I input 3000 scf/stb and get 1700 scf/stb on my rates?

Thanks for your help,

Bill



William Burch

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From: Fred Ng

Sent: Wednesday, May 05, 2010 10:44 AM

To: Inge Mosti

Cc: David Barnett; William Burch; John Hatteberg; Monte Leicht; C Scott Jortner

Subject: RE: (RequestID:11852) Clarification of GOR model in OLGA-ABC

Inge,

That is very good clarification on PI, PVT and GOR for OLGA-ABC. These are the issue that you and I discussed at the Aberdeen IADC conference last month. Thanks for following up on it, and we look forward to seeing the corrections in the next version.

See you whenever or wherever

Fred Ng

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<image001.gif>

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From: William Burch
Sent: Wednesday, May 05, 2010 10:33 AM
To: Fred Ng; John Hatteberg; Louis Romo; Monte Leicht; C Scott Jortner
Cc: David Barnett
Subject: FW: (RequestID:11852) Clarification of GOR model in OLGA-ABC

From: drillbenchsupport@sptgroup.com [mailto:drillbenchsupport@sptgroup.com]
Sent: Wednesday, May 05, 2010 8:14 AM
To: William Burch; Kurt.Mix@bp.com
Subject: (RequestID:11852) Clarification of GOR model in OLGA-ABC

Hi William,

The model will assume that the PI given is gas PI for the compositions methane and dry gas.

For the compositions volatile oil and black oil the model will assume that the PI given is the oil PI.

For the PI given (gas or oil depending on the composition) GOR is used to calculate the mass rate influx of the gas and oil phase from the reservoir at reservoir conditions based on the PVT properties as defined in the composition .tab file.

I am suggesting for development to clarify the following in the input window to make it clear what is used:

It should be stated in the input if the PI required is gas or oil.

The unit should change accordingly to the phase.

This should be implemented in the next release.

Kind regards,

Inge

The GOR value entered into OLGA-ABC has been seriously questioned by peer-review. Can you please provide Kurt Mix (

WilliamBurch

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Well Control Engineer

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