From: Ole B. Rygg

Sent: Mon Jun 28 12:48:59 2010

To: 'Mix, Kurt'

Cc: 'Sprague, Jonathan D'; David Barnett; 'William Burch'; Rogers, Bruce A (Houston);

'bobgrace@gsm-inc.com'

Subject: Flow and kill sensitivity - restricted inflow from the oil zone

Importance: Normal

Attachments: image001.jpg; MC252 Blowout Analysis Sensitivity Scenario A.pdf

Kurt,

Please find enclosed a requested summary of results with sensitivity wrt reservoir inflow and depletion.

Regards, Ole

cid:3310015153 18375562

## Dr. Ole B. Rygg

Managing Director, add wellflow as Vice President, Drilling & Production, add energy group

mob +47 91 17 09 04 | dir +47 66 98 32 91 | fax +47 66 98 32 99 mail ole.rygg@addenergy.no

## add wellflow as

Strandveien 33 | P.O. Box 26 | N-1324 Lysaker | Norway addenergy.no

This message (including any attachments) contains confidential information intended for a specific individual and purpose, and is protected by law.

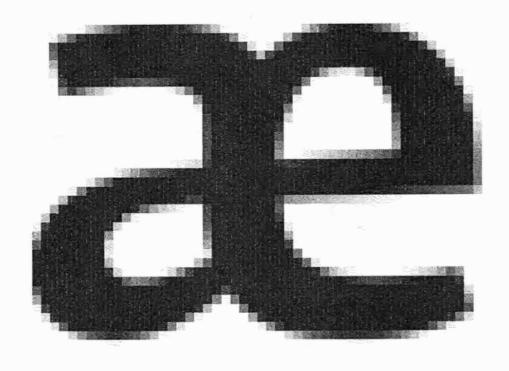
If you are not the intended recipient, you should delete this message and are hereby notified that any disclosure, copying, or distribution of this message, or the taking of any action based on it, is strictly prohibited.

> 926 Exhibit No.

Worldwide Court Reporters, Inc.

CONFIDENTIAL

AE-HZN-2179MDL00050119



## 

Casing flow path scenario: Flow from the M56D-F oil sands down between the 7-in production casing and the open hole to TD, further up the inside of the 7-in casing and 9 7/8-in casing to wellhead/seabed.

Case		Inflow	PP, psi	WHP, psi	Oil Rate, bopd	FWP <sub>in</sub> , psi	FWP <sub>in</sub> , ppg	FBHP, psi	FBHP, ppg	Kill, bpm
A	Base Case	Original	11835	2245	63,000	9008	10.1	10571	11.3	33
В	Base case, 4300	Original	11835	4300	52,000	9664	10.8	10797	11.5	20
С	Depleted	Depleted	10835	2245	58,000	8369	9.4	9727	10.4	26
D	Depleted, 4300	Depleted	10835	4300	45,000	9058	10.1	9974	10.6	14
E	Depleted, restricted	R1	10835	2245	52,000	7699	8.6	8845	9.4	25
F	Depleted, severely restricted	R2	10835	2245	25,000	5375	6.0	5932	6.3	19

Inflow: Base case, depleted and/or restricted due to skin, partly open sand face or lower permeability than estimated (see figure on next page)

PP: Pore pressure, original or depleted by 1000 psi (estimated range at August 1st: 824-1339 psi)

WHP: Wellhead pressure; 2245 unrestricted equal to seabed pressure or 4300 psi as currently measured

FWP<sub>in</sub>: Flowing wellbore pressure inside the casing at the depth of the intersection (17,220 ft). EMW at the intersection point

FBHP: Flowing bottom-hole pressure at the sand face. EMW at the sand face

Kill: Minimum required kill rate using 14.2 ppg mud

Note that Case F with a very low flowing bottom hole pressure will result in roughly more than 70% gas flow at the seabed due gas coming out of the oil already at the sand face.

