

11165

Exhibit No. \_\_\_\_\_  
Worldwide Court  
Reporters, Inc.

From: Liao, Tony T  
Sent: Fri May 28 22:04:00 2010  
To: Mason, Mike C  
Cc: Gokdemir, Oktay M.  
Subject: Updated Plot for Well Performance with BOP Pressure 3500 Case...  
Importance: Normal  
Attachments: Situation Performance Curves V4 - TL Revision.xls

<<...>>

Mike,

Attached is the updated plot with all the legend added.

For the case we ran today for the well without the 3 1/5" drill pipe, the BOP pressure would be around 2600psi to 2900 psi for the rate around 15,000 B/D. This should dismiss the assumption that the 3 1/2" drill pipe dropped.

Please let me know if you have any questions.

Best regards,

Tony T. Liao, Ph.D.

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EPT, Base Management, Technology Specialist Support Team

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BP-HZN-2179MDL04924177

BPD344-124609

TREX 011165.0001

Document Produced Natively

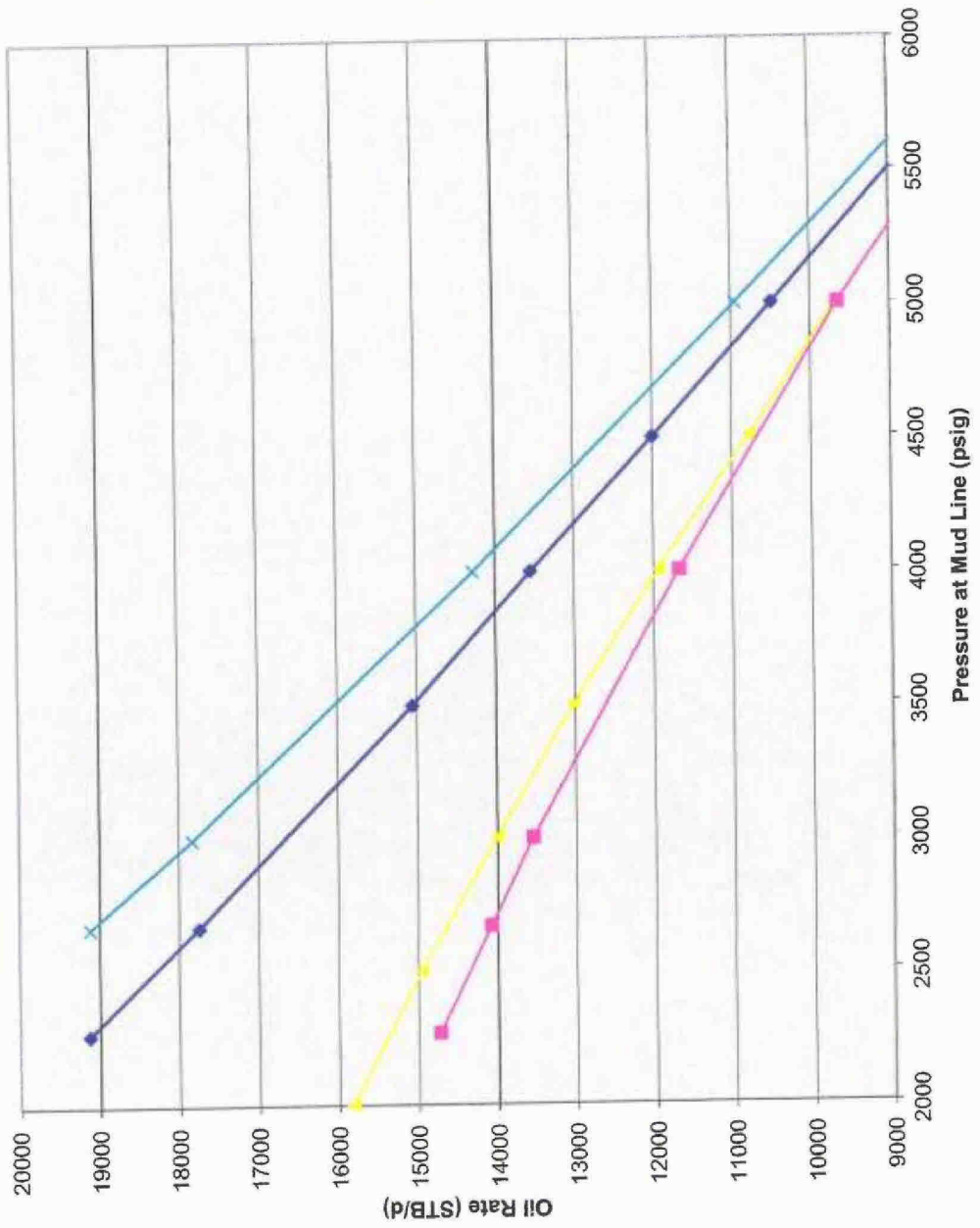
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BP-HZN-2179MDL04924178  
BPD344-124610

TREX 011165.0002

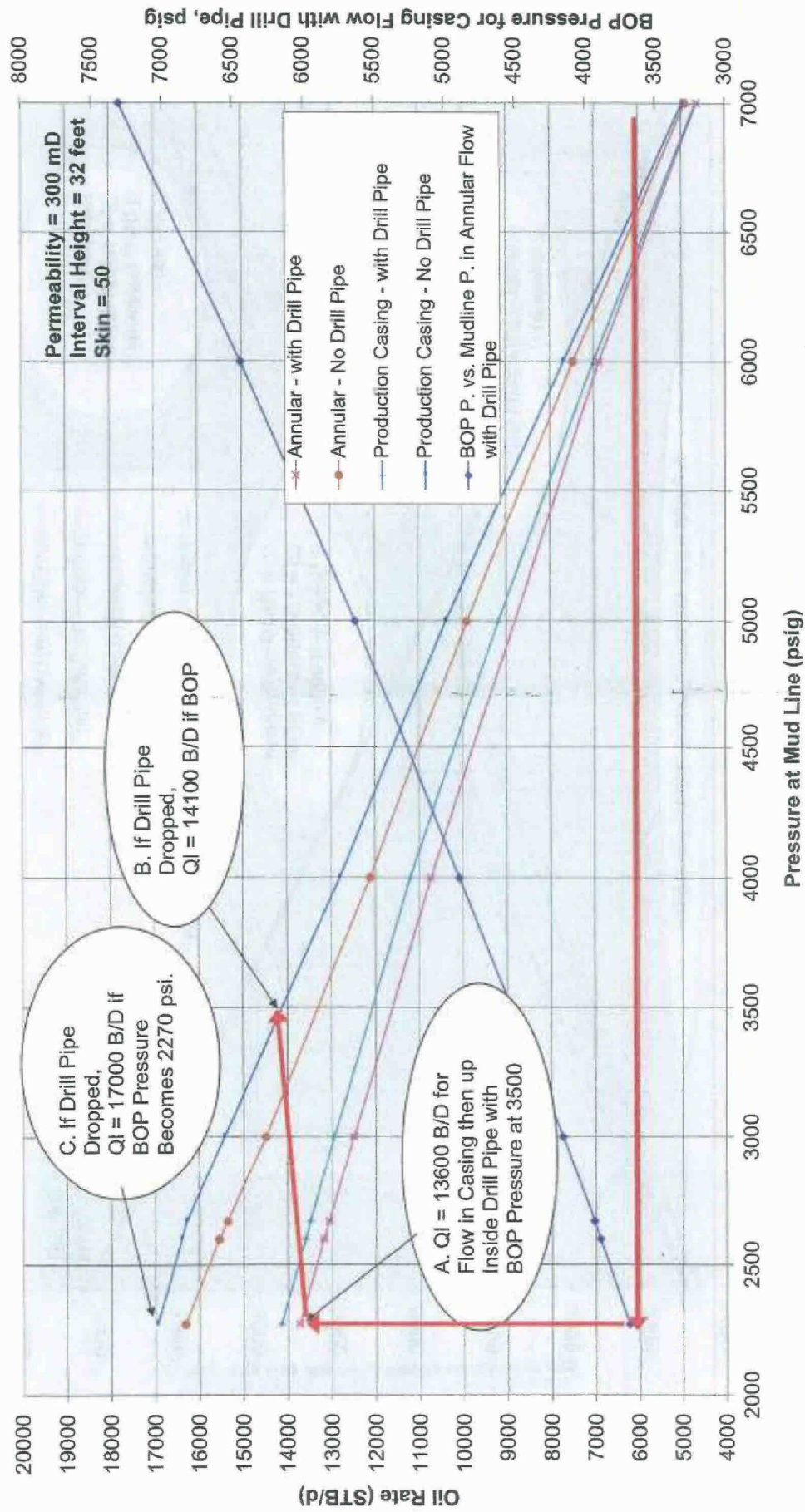
### Macondo Well Performance Curves - By Flow Situation

Permeability = 300 mD  
 Interval Height = 32 feet  
 Skin = 50

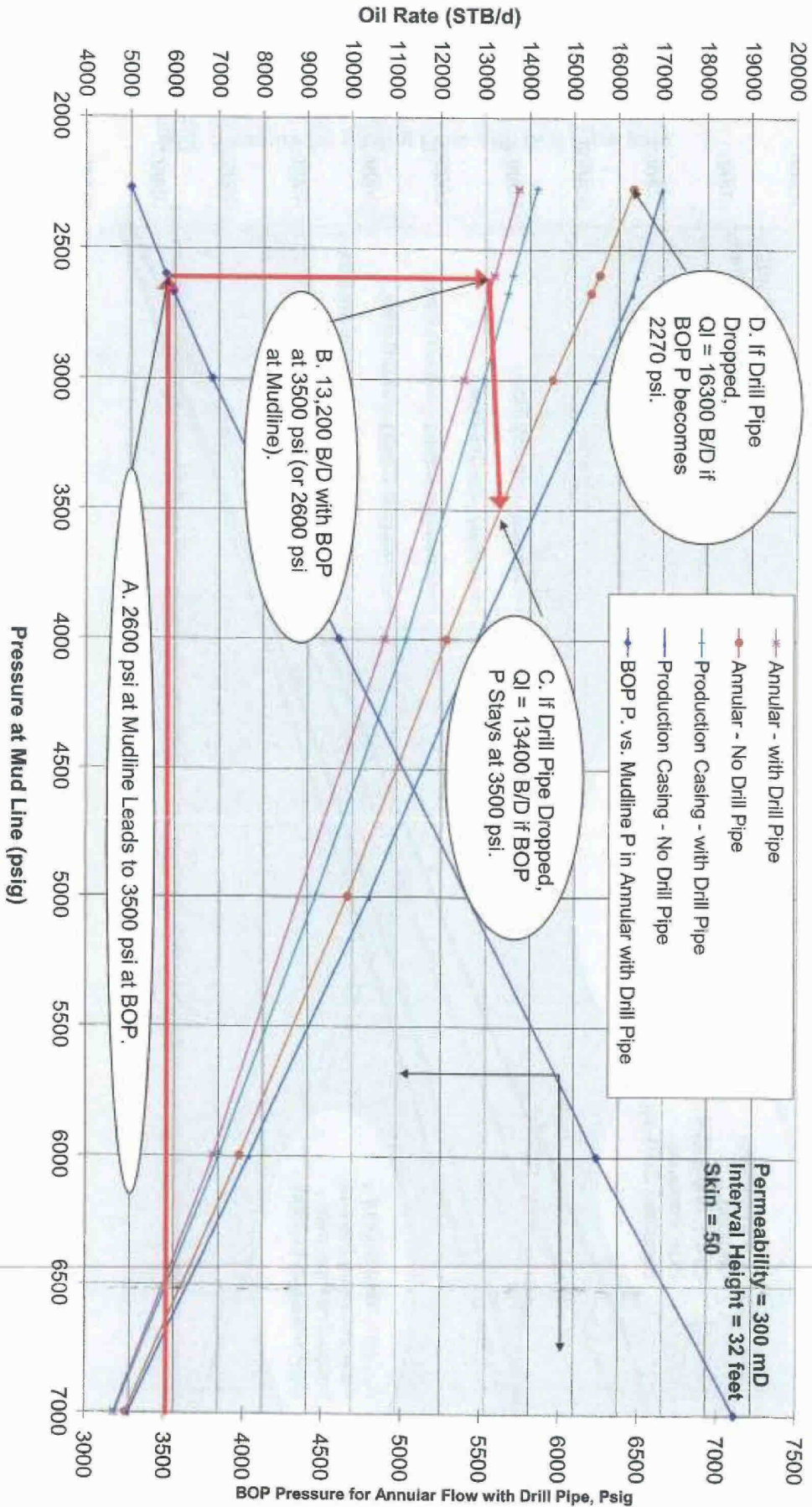


- Annular - No Drill Pipe
- ◆ Production Casing - with Drill Pipe
- × Production Casing - No Drill Pipe
- Annular - with Drill Pipe

**Macondo Well Performance Curves - By Flow Situation - Draft**  
**Casing Flow with 5 1/2" + 3 1/2" Drill Pipe, BOP Pressure 3500 psi**



### Macondo Well Performance Curves - By Flow Situation -Draft Annular Flow with 5 1/2" + 3 1/2" Drill Pipe, BOP Pressure 3500 psi



Simon's Data	
psig	STB/d
Pressure at Bottom of BOP	Oil Rate Annular - No Drill Pipe
2270	19123
2670	17745
3500	15044
4000	13543
4500	11993
5000	10485
6000	7508
7000	4451

Tony's data	
psig	STB/d
Pressure at Bottom of BOP	Oil Rate Annular - No Drill Pipe
2270	16319
2600	15557
2670	15365
3000	14492
4000	12115
5000	9892
6000	7470
7000	4914

Simon's data 26May2010

psig Pressure at Top of Drill Pipe	psig Pressure at BOP Base Annular - with Drill Pipe	STB/d Oil Rate Annular - with Drill Pipe
2270	3884	14724
2670	4105	14069
3000	4286	13535
4000	4921	11670
5000	5618	9652
6000	6347	7330
7000	7150	4789

Tony's Data 26may2010

psig Pressure at Top of Drill Pipe	psig Pressure at BOP Base Annular - with Drill Pipe	STB/d Oil Rate Annular - with Drill Pipe
2270	3282.52	13739.9
2600	3503.13	13186.3
2670	3551.86	13064
3000	3796.34	12502.7
4000	4601.19	10723.6
6000	6234.72	6885.2
7000	7110.54	4657.4

0.0018

Simon's Data  
 psig STB/d psig

Tony's data

Oil Rate		Pressure at Bottom of BOP	Rough=0.0006		Rough=0.0018		
Pressure at Top of Drill Pipe	Productio n Casing - with Drill Pipe		Pressure at Top of Drill Pipe	Productio n Casing - with Drill Pipe	Pressure at Top of Drill Pipe	Productio n Casing - with Drill Pipe	Pressure at Bottom of BOP
2000	15824	4310	2270	14596	2270	14153	3699
2500	14954	4573	2600	14011	2600	13608	3906
3000	13998	4864	2670	13889	2670	13496	3949
3500	13017	5174	3000	13302	3000	12949	4169
4000	11942	5509	4000	11461	4000	11204	4902
4500	10783	5874	5000	9400	5000	9184	5637
5000	9674	6226	6000	7140	6000	7014	6443
			7000	4735	7000	4682	7304



Simon's data  
psig      STB/d

Pressure  
at Bottom  
of BOP      Oil Rate

Productio  
n Casing -  
No Drill  
Pipe

2670	19109
3000	17825
4000	14276
5000	10947
6000	7708
7000	4462

Tony's data

Pressure  
at Bottom  
of BOP      Oil Rate

Productio  
n Casing -  
No Drill  
Pipe

2270	16963.4
2600	16403.1
2670	16289.4
3000	15437.2
4000	12805
5000	10387.2
6000	7698.8
7000	4981