

## History of flow-based estimates of well flow rate prior to Shut-in with 3-Ram Capping Stack

(See notes, next slide)

Date	Synopsis	Wellhead flow rate (stock bbl/day)	Summary Document	Notes
5/19/10	4 well scenarios	5000 (specified)	Tri-Lab Pressure Summary	
6/13/10	Video (cut riser)	19,200-46,000	UCSD UW Estimates June 13 (Lasheras)	For Reference/not flow based
6/15/10	Top Hat 4 fixed flow	72,700-83,000 (baseline, 3 Labs) 51,900-104,900 (max range)	4.2 Flows & Pressures	Uncertainty in skirt flow resistance
June & July. Various	Flow Variations	50,000 to > 100,000	None	Various attempts to determine total flow from ship flow changes
7/7/10	Acoustic (fallen riser, no leaks)	18,600-35,700 (0.12m <sup>3</sup> /s to 0.23m <sup>3</sup> /s)	Preliminary flow rate calculations using acoustic technologies (Camilli)	For Reference/not flow based
7/10/10	Well Integrity	0 (shut-in)	7.2 Well Integrity Report	SIWHP range: 8250 – 8750 psi

6/21/2011

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