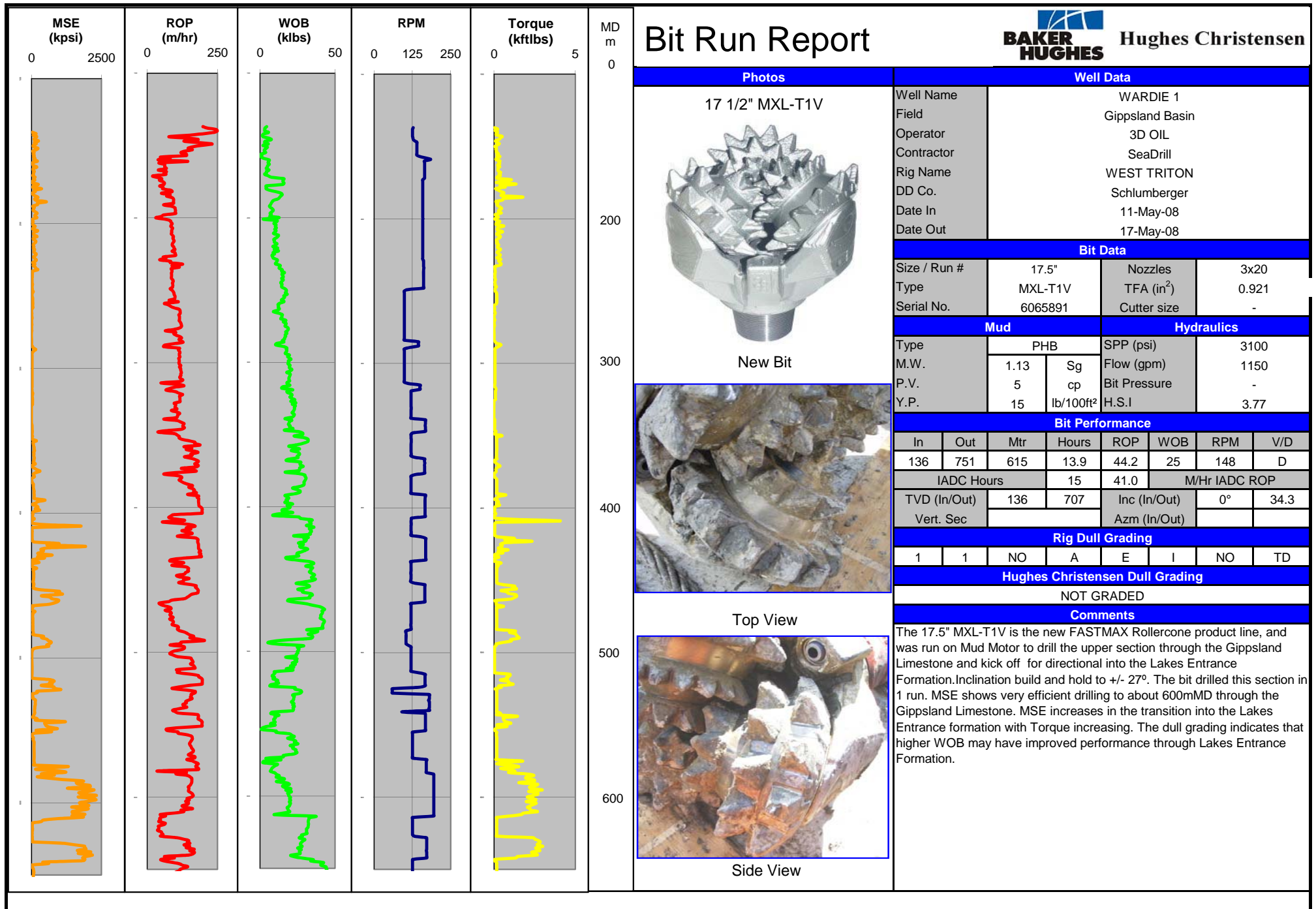
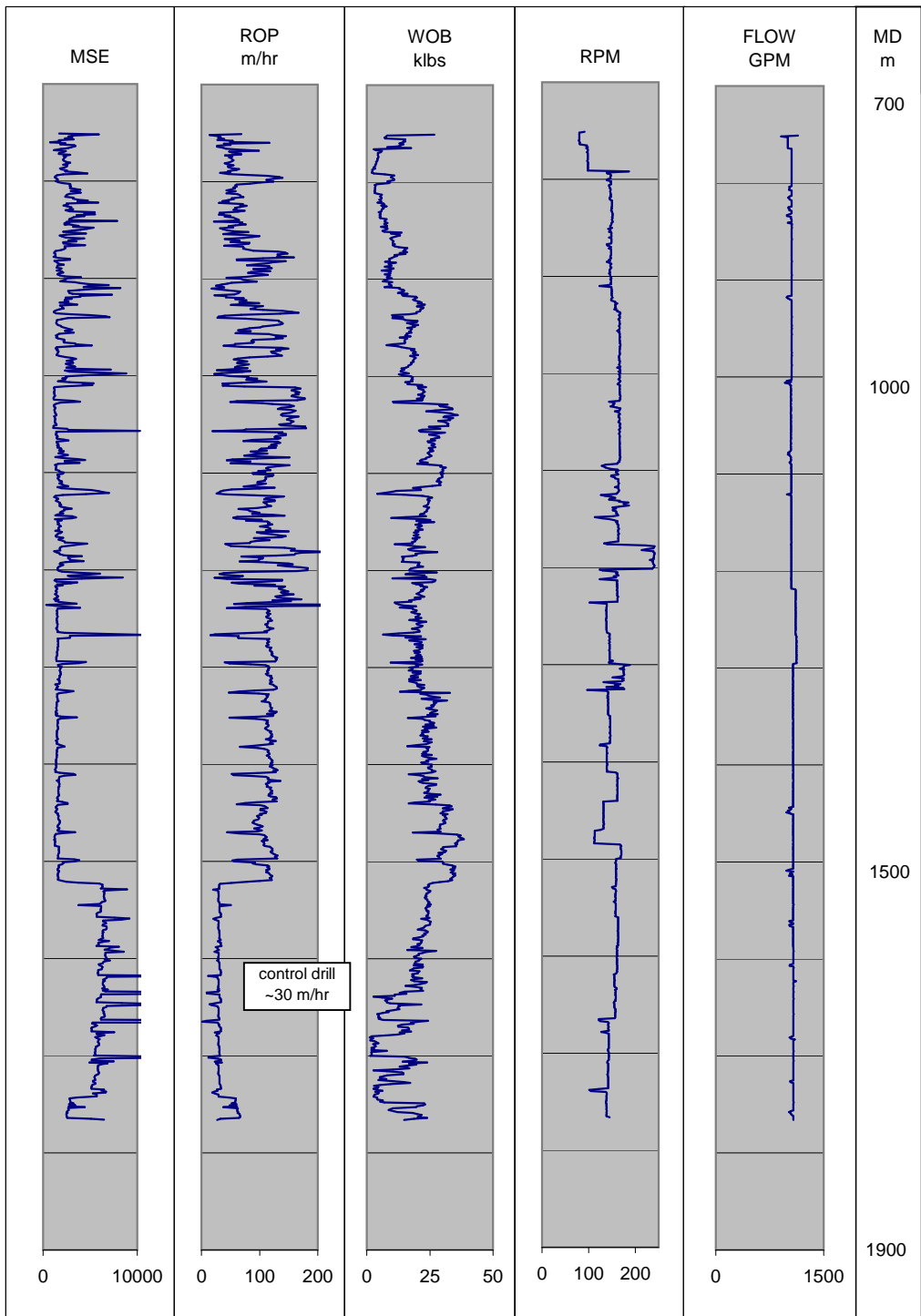


Wellname : Wardie-1		Drilling Co. : Seadrill		Rig : West Triton	
DFE above MSL : 38.0m	Lat : 38 Deg 12 Min 25.077 Sec	Spud Date : 10 May 2008		Release Date : 25 May 2008	
Water Depth : 39.5m	Long : 147 Deg 37 Min 9.810 Sec	Spud Time: 19.30		Release Time: 22.30	

Bit Record


Well: Wardie-1																											
Date In	Date Out	IADC	Bit#	Size (in)	Ser #	Mfr	Type	Jets	TFA	D.In (m)	D.Out (m)	Prog (m)	Hrs IADC	ROP (ft/hr)	SPP (psi)	Flow (gpm)	WOB (klb)	RPM	MW (sg)	I	O1	D	L	B	G	O2	R
10 May 2008	11 May 2008	1-1-1	1RR	26.00	34406	REED	Y11C	1 x 16 3 x 22	1.31	76.8	136.0	59.2	5	11.84	950	800	4.00	120	1.06	1	1	WT	A	NB	I	RR	TD
12 May 2008	13 May 2008	115	2	17.50	6065891	HUGHES	MXL-T1V	3 x 20	0.92	136.0	751.0	615	13	47.31	2575	1150	5000.00	60	1.06	1	1	NO	A	O	I	NO	TD
16 May 2008	19 May 2008	M422	3	12.25	218629	Reed Hycalog	RSX616MA16	3 x 15 3 x 16	1.107	751.0	1766.0	1015	35.5	28.59	2250	1100	20.00	160	1.08	3	3	WT	A	X	I	CT	TD





# Bit Run Report



Photos		Well Data							
<div>12.25" RSX616M-A16</div> 		Well Name	Wardie 1						
		Field	West Sea Horse						
		Operator	ADA						
		Contractor	Seadrill						
		Rig Name	West Triton						
		DD Co.	Schlumberger						
		Date In	16-May-08						
		Date Out	18-May-08						
Bit Data									
Size / Run #	12.25"		Nozzles		3x15, 3x16				
Type	RSX616M-A16		TFA (in <sup>2</sup> )		1.107				
Serial No.	218629		Cutter size		16mm				
Mud				Hydraulics					
Type	WBM (KCL/Polymer)			SPP (psi)		2000			
M.W.	9.6			Flow (gpm)		1100			
P.V.	UNK			Bit Pressure		890			
Y.P.	UNK			H.S.I		4.8			
Bit Performance									
In	Out	Mtr	Hours	ROP	WOB	RPM	V/D		
751	1766	1015	19.3	52.59	20	150	D		
IADC Hours			-	-	M/Hr IADC ROP				
TVD (In/Out)		-	-	Inc (In/Out)		34.4	7.4		
Vert. Sec		-		Azm (In/Out)		240	234		
Rig Dull Grading									
3	3	WT	A	X	I	CT	TD		
REEDHycalog Dull Grading									
NOT GRADED									
Comments									
<p>The RSX616M-A16 is a high Open Faced Volume bit designed for efficient cleaning and cuttings removal. Bit run on SLB's Power Drive tool with good directional control.</p> <p>Excellent performance achieved by this bit. ROP &gt;100 m/hr consistently throughout the run. Control drilling from ~1535m @ 30 m/hr for LWD logging was undertaken. Generally, WOB averaged around 20 klbs, and RPM ~150. Minor hard quartzitic sandstone stringers slowed ROP down to 2 m/hr in some parts. Good dull condition - even amounts of wear on inner and outer cutters, showing only minimal signs of mechanical damage. Bit built angle to ~35° and then dropped to almost vertical successfully. Consistent DLS of &gt; 2.0° achieved in build and drop.</p>									

<div>New Bit</div> 	
Top View	
	
Side View	



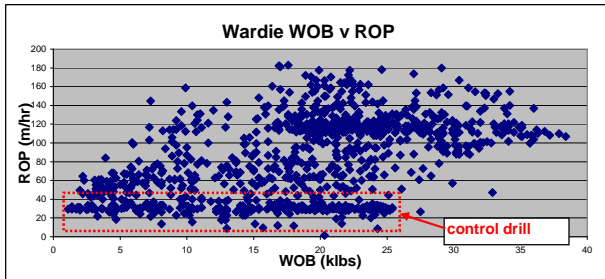
New Bit



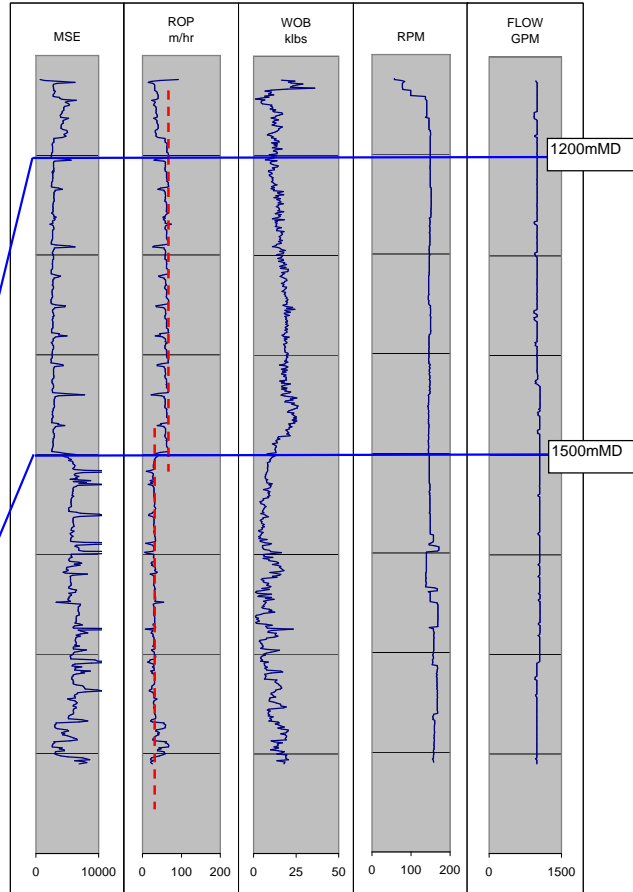
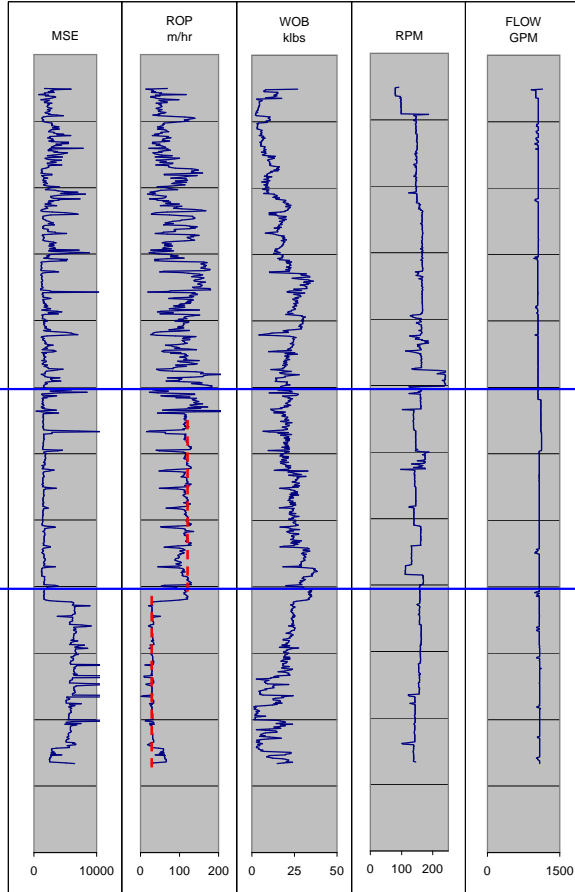
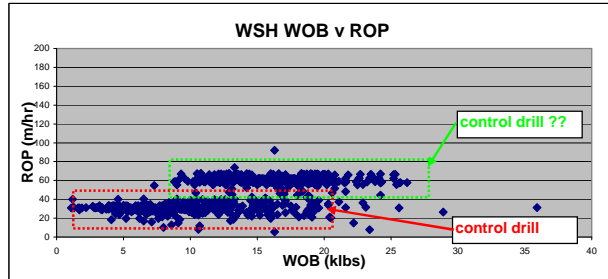
Top View

Side View

## Wardie 1



## WSH 3



### Comments:

Both RSX616M-A16 bits used on West Seahorse 3, and Wardie 1 showed good performance throughout the completed interval. However the average performance on the Wardie 1 well was much better than the West Seahorse well.

Plotting the data for both wells shows some interesting commonalities. Both wells control drilled the Latrobe formation at 30 m/hr, from about 1500m on each well.

In the period between 1200m - 1500m, both wells exhibit very consistent ROP's. Wardie 1 drilled @ ~ 120m/hr for this interval, whilst West Seahorse only drilled at 60 m/hr for this interval. The consistency of the achieved ROP on each respective well seems to suggest that the section was control drilled. The information received from location, does not report that any special operations were undertaken through this interval.

As can be seen from the charts (top), the WOB on Wardie 1 was generally higher than the WOB run on West Seahorse 3, which can account for the increase in ROP achieved. It is suggested that a WOB of ~25+ klbs be run for best ROP performance.

High HSI's on each run may have contributed to better performance, as the softer lithology of the Lakes Entrance formation responds well to hydraulic energy.