

**Schedule 1 - Exhibit A: Level 1 - Well Containment Screening Tool**

**LEVEL 1 - Well Containment Screening Tool (Complete a separate form for each hole section that has potential hydrocarbon flow zones)**

**Rev 1.18**

**1) General Well Information**

Well Name:	OCSG 08037 #2 NeptuneSA01ST01
Lease/Block:	AT617
Water Depth (ft):	6,171
RKB to Mudline Depth (ft):	6,256
Location (lat/long):	27° 19' 51.892"N 89° 51' 36.251"W
Planned TD (ft):	29,084 ft-TVD/ 30,117 ft-MD
Planned Spud Date:	September 15, 2011

**2) Offset Well Information**

Well	Distance/Direction
1) AT617 SA001 ST00BP00	0.88 miles NE
2) AT617 #1 (Neptune 3) ST00BP00	0.19 miles E
3) AT573#1 (Neptune 4) ST00BP00	1.17 miles NW
4)	
5)	
6)	

**3) Well Design**

Wellhead Description	Dril-Quip SS-15 BigBore II 15K	User entry
Capping Stack Description	MWCC 15K Capping Stack	Calculation cell. Do not input data
Casing Plan		

Size/Weight/Grade/Connection	Top (ft-TVD)	Bottom (ft-TVD)	
22" 170.2 lb/ft X-65 XLW	6,243	9,219	
13-5/8" 88.2 lb/ft HC Q-125 SLIJ-II	6,245	13,500	Milled Window

Screening tool results	
5) Formation integrity below deepest exposed shoe	PASS
6A) Burst Integrity	PASS
6B) Trapped annuli check	PASS
6C) Collapse Integrity	PASS

**4) Productive Formation Information**

**HOLE SECTION: 14"**      **SHOE DEPTH(FT-TVD): 13,500**

Name	Depth (ft-TVD)	Reservoir Fluid	Reservoir Pressure		Assumed fluid gradient for calc (psi/ft)	Mud Line Shut in Pressure (psi)	Shut in ppg @ shoe	Comments
			(ppg)	(psi)				
M6 (Oil)	16,084	Oil	10.23	8,556	0.23	6,296	11.34	
						-	-	
						-	-	
						-	-	
						-	-	

**Use standard gradients for Level 1:**

Gas = 0.10 psi/ft to 9,000' TVD and 0.15 psi/ft below 11,000' TVD.

Oil/Water/Gas = 0.23 psi/ft

**5) Formation Integrity Analysis**

Zone of interest	Depth	Frac gradient at depth (ppg)	Max pressure (ppge)	Is shut-in ppg < FG at depth?	Comments
Deepest exposed shoe	13,500	13.20	11.34	YES	
			-	N/A	

<<Insert additional rows as necessary for other zones of interest and copy down formulas - **do NOT delete this line**

**6) MECHANICAL INTEGRITY ANALYSIS**

**6.1 BURST ANALYSIS**

Component	Burst Rating (psi)	Depth to Top of Component (ft)	Setting MW, PP or SW (ppg)	Exposed to SW? (above top hanger)	Internal Shut-in Pressure (psi)	External pressure (psi)	Burst Load (psi)	Design Factor	Comments

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Capping Stack	15,000	6,190	8.55	Y	6,280	2,714	3,566	4.20
LMRP connector	10,000	6,199	8.55	Y	6,282	2,718	3,564	2.80
Drilling BOP stack	15,000	6,209	8.55	Y	6,285	2,723	3,562	4.21
Subsea Wellhead	15,000	6,243	8.55	Y	6,293	2,738	3,555	4.21
13-5/8" Casing Hanger / Seal Assembly	10,000	6,245	10.70	N	6,293	3,475	2,818	3.54
13-5/8" Casing	10,030	6,245	10.70	N	6,293	3,475	2,818	3.55
					-	-	-	
					-	-	-	

<<Insert additional rows as necessary for other zones of interest and copy down formulas - **do NOT delete this line**

**6.2 TRAPPED ANNULUS SCREENING**

Casing / Liner Strings (show all strings exposed to HC flow)	Enter string type	String or liner lap fully cemented?	Liner lap ≤ 500 ft?	Setting Depth (ft- MD)	Setting Depth (ft- TVD)	Planned TOC (ft-MD)	Planned TOC (ft- TVD)	Previous Shoe Depth (ft- MD)	Max Angle above previous shoe	Idle < 1 year?	Hydraulic Isolation Depth		Trapped Annulus?
											ft-MD	ft-TVD	
13-5/8" Casing	Casing	N	N	14,442	14,436	12,400	12,400	9,219	0	N	13,421	13,421	Attached is the Justification for Un- trapped Annulus Condition
											-		N/A
											-		N/A
											-		N/A

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**6.3 COLLAPSE ANALYSIS**

Component	Collapse rating (psi)	Depth of interest (ft TVD)	Hydraulic Isolation Depth (ft- TVD)	Below HID		Above Hydraulic Isolation Depth			Internal Pressure (psi)	Un-trapped Annulus Calcs			Comments
				Pore Pressure @ Depth (ppg)		Previous Shoe Depth (ft-TVD)	Fracture Gradient @ Previous Shoe (ppg)	Setting Mud Weight (ppg)		External Pressure (psi)	Collapse Load (psi)	Design Factor	
13-5/8" Hanger	6,370	6,245	13,421			9,219	11.0	10.7	2,741	3,619	877	7.25	
13-5/8" Casing at 22" Shoe	6,370	9,219	13,421			9,219	11.0	10.7	3,425	5,273	1,848	3.44	
13-5/8" Casing at Hyd Iso Depth	6,370	13,421	13,421			9,219	11.0	10.7	4,392	7,611	3,220	1.97	
13-5/8" Casing at Milled Window	6,370	13,500	13,421	10.0		9,219	11.0	10.7	4,410	7,020	2,610	2.44	
									-	-	-		
									-	-	-		
									-	-	-		

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**2) Offset Well Information**

Well	Distance/Direction
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**3) Well Design**

Wellhead Description: Dril-Quip SS-15 BigBore II 15K  
 Capping Stack Description: MWCC 15K Capping Stack  
 Casing Plan: User entry  
 Calculation cell. Do not input data

Size/Weight/Grade/Connection	Top (ft-TVD)	Bottom (ft-TVD)
22" 170.2 lb/ft X-65 XLW	6,243	9,219
13-5/8" 88.2 lb/ft HC Q-125 SLIJ-II	6,245	14,442
11-3/4" 65 lb/ft HCQ-125 ST-L	13,144	16,245

Screening tool results	
5) Formation integrity below deepest exposed shoe	PASS
6A) Burst Integrity	PASS
6B) Trapped annuli check	PASS
6C) Collapse Integrity	PASS

**4) Productive Formation Information**

HOLE SECTION: 10-5/8" x 12-1/4"

SHOE DEPTH(FT-TVD): 16,400

Name	Depth (ft-TVD)	Reservoir Fluid	Reservoir Pressure		Assumed fluid gradient for calc (psi/ft)	Mud Line Shut in Pressure (psi)	Shut in ppg @ shoe	Comments
			(ppg)	(psi)				
M7 Upper (Water Above Oil)	16,457	Water	10.58	9,058	0.23	6,712	10.61	
M7 Upper (Oil)	16,560	Oil	10.57	9,103	0.23	6,733	10.63	
M7	17,160	Water	10.49	9,362	0.23	6,854	10.77	
M8	17,416	Water	10.73	9,720	0.23	7,153	11.12	
M9C	18,116	Oil	11.46	10,797	0.23	8,069	12.20	
M9X	18,391	Oil	11.58	11,071	0.23	8,280	12.44	
M10	18,513	Water	11.58	11,148	0.23	8,329	12.50	

Use standard gradients for Level 1:

Gas = 0.10 psi/ft to 9,000' TVD and 0.15 psi/ft below 11,000' TVD.

Oil/Water/Gas = 0.23 psi/ft

**5) Formation Integrity Analysis**

Zone of interest	Depth	Frac gradient at depth (ppg)	Max pressure (ppge)	Is shut-in ppg < FG at depth?	Comments
Deepest exposed shoe	16,245	14.20	12.50	YES	
			-	N/A	

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**6) MECHANICAL INTEGRITY ANALYSIS**

**6.1 BURST ANALYSIS**

Component	Burst Rating (psi)	Depth to Top of Component (ft)	Setting MW, PP or SW (ppg)	Exposed to SW? (above top hanger)	Internal Shut-in Pressure (psi)	External pressure (psi)	Burst Load (psi)	Design Factor	Comments

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Capping Stack	15,000	6,190	8.55	Y	8,314	2,714	5,599	2.67
LMRP connector	10,000	6,199	8.55	Y	8,316	2,718	5,597	1.78
Drilling BOP stack	15,000	6,209	8.55	Y	8,318	2,723	5,595	2.68
Subsea Wellhead	15,000	6,243	8.55	Y	8,326	2,738	5,588	2.68
13-5/8" Casing Hanger / Seal Assembly	10,000	6,245	10.70	N	8,326	3,475	4,852	2.06
13-5/8" Casing	10,030	6,245	10.70	N	8,326	3,475	4,852	2.06
11-3/4" Liner Hanger	7,000	13,144	11.40	N	9,913	7,792	2,121	3.29
11-3/4" Liner	9,940	13,144	11.40	N	9,913	7,792	2,121	4.68
					-	-	-	
					-	-	-	

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**6.2 TRAPPED ANNULUS SCREENING**

Casing / Liner Strings (show all strings exposed to HC flow)	Enter string type	String or liner lap fully cemented?	Liner lap ≤ 500 ft?	Setting Depth (ft- MD)	Setting Depth (ft- TVD)	Planned TOC (ft-MD)	Planned TOC (ft- TVD)	Previous Shoe Depth (ft- MD)	Max Angle above previous shoe	Idle < 1 year?	Hydraulic Isolation Depth		Trapped Annulus?
											ft-MD	ft-TVD	
13-5/8" Casing	Casing	N	N	14,442	14,436	12,400	12,400	9,219	0	N	13,421	13,421	Attached is the Justification for Un- trapped Annulus Condition
11-3/4" Liner	Liner	N	Y	16,965	16,245	14,196	14,184	13,500	0	Y	15,581	15,338	NO
											-	-	N/A
											-	-	N/A

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**6.3 COLLAPSE ANALYSIS**

Component	Collapse rating (psi)	Depth of interest (ft TVD)	Hydraulic Isolation Depth (ft- TVD)	Below HID		Above Hydraulic Isolation Depth			Internal Pressure (psi)	Un-trapped Annulus Calcs			Comments
				Pore Pressure @ Depth (ppg)	Fracture Gradient @ Previous Shoe (ppg)	Setting Mud Weight (ppg)	External Pressure (psi)	Collapse Load (psi)		Design Factor			
											Previous Shoe Depth (ft-TVD)		
13-5/8" Hanger	6,370	6,245	13,421			9,219	11.0	10.7	2,741	3,619	877	7.25	
13-5/8" Casing at 22" Shoe	6,370	9,219	13,421			9,219	11.0	10.7	3,425	5,273	1,848	3.44	
13-5/8" Casing at Hyd Iso Depth	6,370	13,421	13,421			9,219	11.0	10.7	4,392	7,611	3,220	1.97	
13-5/8" Casing at Milled Window	6,370	13,500	13,421	10.0		9,219	11.0	10.7	4,410	7,020	2,610	2.44	
11-3/4" Liner Hanger	5,000	13,144	15,338			13,440	13.2	11.4	4,328	9,050	4,722	1.05	
11-3/4" Liner at Hyd Iso Depth	5,810	15,338	15,338			13,440	13.2	11.4	4,832	10,350	5,518	1.05	
11-3/4" at Shoe	5,810	16,400	15,338	11.4		13,440	13.2	11.4	5,077	9,722	4,645	1.25	
									-	-	-		
									-	-	-		
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