

**P&A**  
**"Sturgis North #01BP02"**  
**CONFIDENTIAL**

Last Update: Tri 10/06/2008

Well: OCS-G-23018 #1 BP02, Atwater Valley 138 Loc D  
Mudline Location: X= 786,393 Y= 10,097,821 (NAD 27 BLM 16)  
BHL Location: Lat N 27° 48' 04.709" Long W 89° 38' 31.433" X= 786,502 Y= 10,097,845 Z = 29,493' TVD  
OBJECTIVES: 18.0 Miocene @ 28,749' TVD  
DIRECTIONAL: KOP @ 22,004' TD at 29,500' MD/29,493' TVD

Rig: Ensco 7500  
WBS No. "UWXEX-E7008-DRL".  
API Well Number: 608184006802  
Latitude/Longitude.: Lat N27 48 04.964 Long W89 38 30.231  
KB to MSL (ft): 72'  
Water Depth (ft): 3480'  
KB to ML (ft): 3552'

18-3/4" HPWH @ 3536' (16' AML)  
36" Housing @ 3540' (12' AML)

EVAL PROG	GEOLOGIC MARKERS OBJECTIVES	MD	TA Cap	HOLE SIZE	CASING & CEMENT	MUD MW	LOT OBG/FG	DIRECTIONAL PROGRAM
10,000 psi 16" SA @ 3,589'	(37' BML)		3,536' - 3,686'		36" Jetted to 318' BML (120' x 2", 50' 1.5" X 1", 160' x 1")			
Top of 16" HGR @ 3,586'		3,880'	Seawater	30" x 32" Hole TD = 4,350'		Sea Water		
MWD/LWD 1/2 TD		(318' BML)		28" 218.27 ppf 0.75" X-52 RL-4SL (3,545' - 4310')	Foam Cement @ mud-line			
		4,310'	3,800' - 4,100'	Burst Disk @ 4,431' (3500 psi) in 1" w:		11.5 - 14.9 ppg DKD		
		(788' BML)		26" Hole TD = 6,230'	23" 448 ppf 2" X-80 (3537' - 3590')	Pad Mud 15.5 ppg		Straight Hole
18" SA @ 5,557' (2,005' BML)				Collapse Disk @ 5,900'	22" 328 ppf 1.5" X-80 x H-90D (3590' - 3630')			
		6,287'	16.2 ppg		22" 224 ppf 1" X-80 S-90/MT (3630' - 4434')	12.0 ppg LOT		
		(2,735' BML)			22" 170 ppf 0.75" X-60 S-60/MT (4434' - 6287')			
TOS @ 6,844' RKB (3,292' BML)				18-1/8" x 21" Hole TD = 7,900'	Foam Cement @ mud-line	SBM 11.3 PPG		Straight Hole
		7,782'			18" 117 ppf, P110, Hyd 511 (5,557'-6,300')			
		(4,230' BML)			17 7/8" 93.5 ppf, P110HC, Hyd 521 (6,300' - 7,782')	14.5 ppg FIT		
					TOC @ 6,087'			
Top of 13 5/8" Liner @ 15,226'		15,466'	15,089' - 15,363'	16-1/2" x 19" Hole TD = 15,600'		SBM 11.6 - 13.6 PPG		Straight Hole
		(11,914' BML)		TOC @ 12,890' (SLB Bond log 24-May-08)	16.04" 109.6 ppf, HPQ-125 SLSF (3,586'-7,094')			
					16" 97 ppf, HPQ-125 SLSF (7,094'-9,144')	16.3 ppg FIT		
				19" Hole to 15,500'	16" 97 ppf, HCQ-125 Hydril 523 (9,144'-15,466')			
BOS @ 20,404' (16,852' BML)			16.2 ppg	14-1/2" x 16-1/2" Hole TD = 20,910'		SBM 13.5 - 16.0 PPG		Straight Hole
Top of 11 7/8" Liner @ 20,436'		20,892'		16.5" Hole to 20,772'	13 5/8" 88.2 ppf, Q-125, SLSF (20,006'-15,226')			
		(17,310' BML)			14" 112 ppf, Q-125, SLSF (20,666'-20,006')	16.3 ppg FIT		
					13 5/8" 88.2 ppf, Q-125, SLSF (20,892'-20,666')			
Top of 9 3/8" liner @ 21,675'		22,004'	21,457' - 21,893'	11-7/8" Casing Window TOW= 22,004'; BOW= 22,022'		SBM 15.8 PPG		Straight Hole
		(18,473' BML)			11 7/8" 71.8 ppf Q-125 HYD 513 (20,436' - 22,004')	16.18 ppg LOT		
			16.2 ppg					
24,676'/24,670' TVD			24,484' - 24,596'	10-5/8" Hole to 24,676'		SBM 15.8 ppg		Directional Hole
(21,119' BML)			32 bbbs cement	EZSV 24,596'	9-3/8" 39 ppf HCQ-125 SLF (21,675' - 24,676')	16.67 ppg LOT		
TOS @ 25,215' MD/ 25,209' TVD (21,657' BML)			16.2 ppg	8 1/2 x 9 7/8" Hole to 29,500'		SBM 16.0 - 16.2 ppg		Straight Hole
		29,500'/29,493' TVD						
		(25,941' BML)						