

# Proposed Well Schematic "Sturgis North BP #2"

Last Update: Beinger 06/13/2008

**CONFIDENTIAL**

Well: OCS-G-23018 #1 BP01, Atwater Valley 138 Loc D  
Mudline Location: X= 786,393 Y= 10,097,821 (NAD 27 BLM 16)  
Lat N 27° 48' 04.709" Long W 89° 38' 31.433"  
BHL Location: X= 786,494 Y= 10,097,810 Z = 31,150' TVD  
OBJECTIVES: 18.0 Miocene @ 28,749' TVD  
DIRECTIONAL: KOP @ 22,025' : 1000' radius @ TD' of 31,150' RKB

Rig: Enesco 7500  
WBS No. "UWXEX-E7008-DRL"  
API Well Number: 60818406800  
Latitude/Longitude: Lat N27 48 04.709 Long W89 38 31.433 (same as surface)  
KB to MSL (ft): 72'  
Water Depth (ft): 3480'  
KB to ML (ft): 3552'

18-3/4" HPWH @ 3536' (16' AML)  
36" Housing @ 3640' (12' AML)

EVAL PROG	GEOLOGIC MARKERS OBJECTIVES	MD	HOLE SIZE	CASING & CEMENT	MUD MW	LOT OBG/FG	DIRECTIONAL PROGRAM
10,000 psi 16" SA @ 3,589'	(37' BML)		36" Jetted to 318' BML (120' x 2", 50' 1.5" X 1", 160' x 1")				
Top of 16" HGR @ 3,586'	3,890'		30" x 32" Hole TD = 4,350'		Sea Water		
MWD/LWD v TD	(318' BML)		28" 218.27 ppf 0.75" X-52 RL-4SL (3,545' - 4310')		11.5 - 14.9 ppg DKD		
	4,310'		Burst Disk @ 4,431' (3500 psi) in 1"	Foam Cement @ mud-line	Pad Mud 15.6 ppg		Straight Hole
	(788' BML)		26" Hole TD = 6,230'	23" 448 ppf 2" X-80 (3537' - 3590')			
18" SA @ 5,557' (2,005' BML)			Collapse Disk @ 5,90'	22" 224 ppf 1" X-80 S-90/MT (3630' - 4434')			
	6,287'			22" 170 ppf 0.75" X-60 S-60/MT (4434' - 6287')	12.0 ppg LOT		
	(2,735' BML)			Foam Cement @ mud-line			
TOS @ 6,844' RKB (3,292' BML)			18-1/8" x 21" Hole TD = 7,900'		SBM 11.3 PPG		Straight Hole
	7,782'			18" 117 ppf, P110, Hyd 511 (5,557'-6,300')			
	(4,230' BML)			17 7/8" 93.6 ppf, P110HC, Hyd 521 (6,300'-7,782')	14.6 ppg FIT		
				TOC @ 8,087'			
Top of 13 5/8" Liner @ 15,226'			16-1/2" x 19" Hole TD = 15,500'		SBM 11.6 - 13.6 PPG		Straight Hole
	15,466'		TOC @ 12,890' (SLB Bond log 24-May-08)				
	(11,914' BML)			16.04" 109.6 ppf, HPQ-125 SLSF (3,586'-7,094')			
				16" 97 ppf, HPQ-126 8L8F (7,094'-9,144')	16.3 ppg FIT		
				16" 97 ppf, HCQ-125 Hydril 623 (9,144'-16,466')			
BOS @ 20,404' (16,862' BML)			19" Hole to 15,500'				
Top of 11 7/8" Liner @ 20,436'			14-1/2" x 16-1/2" Hole TD = 20,910'		SBM 13.5 - 16.0 PPG		Straight Hole
	20,892'			13 5/8" 88.2 ppf, Q-125, SLSF (20,006'-15,226')			
	(17,310' BML)		16.5" Hole to 20,772'	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'			TOC @ 20,920' (QSLT # 24-May-08)				
	22,025'		12 1/4" x 13 1/2" Hole TD = 22,025'		SBM 15.8 PPG		Straight Hole
	(18,473' BML)		11-7/8" Casing Window TOW= 22,003'; BOW= 22,025'				
				11 7/8" 71.8 ppf Q-125 HYD 613 (20,436' - 22,025')	16.18 ppg LOT		
			10-5/8" Hole to 24,676'		SBM 15.8 ppg		Directional Hole
	24,676'/24,670' TVD						
	(21,119' BML)			9-3/8" 39 ppf HCQ-125 SLF (21,675' - 24,676')	16.67 ppg LOT		
TOS @ 25,215' RKB (21,663' BML)			8 1/2 x 9 7/8" Hole to 31,150'		SBM 16.0 - 16.2 ppg		Straight Hole
	31,150'/31,145' TVD						
	(27,598' BML)						