

Proposed RPD Well Schematic "Sturgis North" Prospect

Last Update: Beiriger 5/5/2008

CONFIDENTIAL

Well: OCS-G-23018 #1, 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= 786,393 Y= 10,097,821 Z = 31,150' TVD
OBJECTIVES: 18.0 Miocene @ 28,749' TVD
DIRECTIONAL: Straight Hole : 1000' radius @ TD' of 31,150' RKB

Rig: Ensco 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 @ 3540' (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)						
Top of 16" HGR @ 3,586'	3,880'	3,880' TVD		36" Jetted to 318' BML (120' x 2", 50' 1.5" X 1", 160' x 1")			
MWD/LWD 1/2 TD	(318' BML)		30" x 32" Hole TD = 4,350'		Sea Water		
	4,310'	4,310' TVD	28" 218.27 ppf 0.75" X-52 RL-4SL (3,545' - 4310')				
	(788' BML)		Burst Disk @ 4,431' (3500 psi) in 1" w	Foam Cement @ mud-line	11.5 - 14.9 ppg DKD		
18" SA @ 5,557' (2,005' BML)			26" Hole TD = 6,230'	23" 448 ppf 2" X-80 (3537' - 3590')	Pad Mud 15.5 ppg		Straight Hole
	6,287'	6,287' TVD	Collapse Disk @ 5,900'	22" 328 ppf 1.5" X-80 x H-90D (3590' - 3630')			
	(2,735' BML)			22" 224 ppf 1" X-80 S-90/MT (3630' - 4434')	12.0 ppg LOT		
				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'	7,782' TVD		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'			16-1/2" x 19" Hole TD = 15,600'		SBM 11.6 - 13.6 PPG		Straight Hole
	15,466'	15,466' TVD	TOC @ 12,466'	16.04" 109.6 ppf, HPQ-125 SLSF (3,586'-7,094')			
	(11,914' BML)			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)			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'			16.5" Hole to 20,772'	13 5/8" 88.2 ppf, Q-125, SLSF (20,006'-15,226')			
	20,892'			14" 112 ppf, Q-125, SLSF (20,666'-20,006')			
	(17,310' BML)		14.5" Hole to 20,910'. TOC @ 20,910'	13 5/8" 88.2 ppf, Q-125, SLSF (20,892'-20,666')			
			12 1/4" x 13 1/2" Hole TD = 22,974'		SBM 15.8 - 16.0 ppg		Straight Hole
	22,841'			11 7/8" 71.8 ppf Q-125 HYD 513 (20,436' - 22,841')	16.5 ppg LOT		
	(19,289' BML)		9 3/8" TOL @ 22,300'				
			10 5/8" x 12 1/4" Hole		SBM 15.9 - 16.0 ppg		Straight Hole
	27,000'			9 3/8" 39 ppf HCQ-125 SLF (22,300 - 27,000')			
	(24,448' BML)						
			8 1/2" Hole				
	31,150' TD of Open Hole						
	(27,598' BML)						