

Proposed RPD Well Schematic "Sturgis North" Prospect

Last Update: Beinger 5/7/2008

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. "UNWKE-ET008-DRL"
API Well Number: 60618406900
Latitude/Longitude: Lat N27 48 04.709 Long W89 38 31.433 (same as surface)
KB to MSL (ft): 72'
Water Depth (ft): 3489'
KB to ML (ft): 3552'

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)	3,880'	36" Jetted to 318' BML (120" x 2", 50' 1.5" X 1", 160' x 1")				
Top of 15" HGR @ 3,589'	(318' BML)	3,880' TVD	30" x 32" Hole TD = 4,350'		Sea Water		
MWD/LWD v TD		4,310'	28" 218.27 ppf 0.75" X-52 RL-4SL (3,545' - 4310')				
		4,310' TVD	Burst Disk @ 4,431' (3500 psi) in 1"		11.5 - 14.9 ppg DKD		
			28" Hole TD = 6,230'		Pad Mud 15.6 ppg		Straight Hole
18" SA @ 5,557' (2,005' BML)		6,287'	23" 448 ppf 2" X-80 (3537' - 3590')				
		6,287' TVD	22" 328 ppf 1.5" X-80 x H-90D (3590' - 3630')				
			22" 224 ppf 1" X-80 S-90/MT (3630' - 4434')				
			22" 170 ppf 0.75" X 60 S-60MT (4434' - 6287')		12.0 ppg LOT		
			Foam Cement @ mud-line				
TOS @ 6,844' RKB (3,292' BML)		7,782'	18-1/8" x 21" Hole TD = 7,900'		SBM 11.3 PPG		Straight Hole
		7,782' TVD	18" 117 ppf, P110, Hyd 511 (5,557' - 5,300')				
			17 7/8" 93.5 ppf, P110HC, Hyd 521 (5,300' - 7,782')		14.5 ppg FIT		
			TOC @ 6,087'				
			16-1/2" x 19" Hole TD = 15,600'		SBM 11.6 - 13.6 PPG		Straight Hole
			TOC @ 12,466'				
Top of 13 5/8" Liner @ 15,225'		15,466'	16.04" 109.6 ppf, HPO-125 SL SF (3,586' - 7,094')				
		15,466' TVD	16" 97 ppf, HPO-125 SL SF (7,094' - 9,144')				
			16" 97 ppf, HPO-125 SL SF (9,144' - 15,466')		16.3 ppg FIT		
			19" Hole to 15,500'				
			14-1/2" x 16-1/2" Hole TD = 20,910'		SBM 13.5 - 16.0 ppg		Straight Hole
BOS @ 20,404' (16,852' BML)		20,892'	13 5/8" 88.2 ppf, Q-125, SL SF (20,006' - 15,225')				
Top of 11 7/8" Liner @ 20,436'		20,892' (17,310' BML)	14" 112 ppf, Q-125, SL SF (20,666' - 20,006')				
		22,841'	13 5/8" 88.2 ppf, Q-125, SL SF (20,892' - 20,666')		16.3 ppg FIT		
		22,841' (19,289' BML)	12 1/4" x 13 1/2" Hole TD = 22,974'		SBM 15.8 - 16.0 ppg		Straight Hole
			11 7/8" 71.8 ppf Q-125 HYD 513 (20,436' - 22,841')		16.5 ppg LOT		
			SET TOL @ 22,360'				
			10 5/8" x 12 1/4" Hole		SBM 15.9 - 16.1 ppg		Straight Hole
			Post expansion OD 10.576"				
		24,853'	11 7/8" x 9 5/8" SET 36 ppf EX-80 (22,350' - 24,853')				Straight Hole
		27,000'	9 3/4" x 11 3/8" Hole		SBM 16.1 - 16.3 ppg		Straight Hole
		27,000' (23,448' BML)	9 3/8" 39 ppf HCO-125 SLF (22,250' - 27,000')				
			8 1/2" Open Hole		SBM 16.1 - 16.3 ppg		Straight Hole
		31,150' TD of Open Hole					
		(27,598' BML)					

Page 1