

As-Built Well Schematic "Sturgis North" Prospect **CONFIDENTIAL**

Last Update: Beirger 06/26/2008

Well: OCS-G-23018 #1 BP01, Atwater Valley 138 Loc D Rig: Ensco 7500
Mudline Location: X= 786,393 Y= 10,097,821 (NAD 27 BLM 16) WBS No. "UNVEX-ET008-DRL".
Lat N 27° 48' 04.709" Long W 89° 38' 31.433" API Well Number: 60818406800
BHL Location: X= 786,393 Y= 10,097,821 Z= 31,150' TVD Latitude/Longitude.: Lat N27 48 04.709 Long W89 38 31.433 (same as surface)
OBJECTIVES: 18.0 Miocene @ 28,749' TVD KB to MSL (ft): 72'
DIRECTIONAL: Straight Hole : 1000' radius @ TD' of 31,150' RKB Water Depth (ft): 3480'
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 @ 3,585' | (318' BML) | 3,880' TVD | 30" x 32" Hole TD = 4,350' | | Sea Water | | |
| MWD/LWD @ TD | | 4,310' | 28" 218.27 ppf 0.75" X-52 RL-4SL (3,545' - 4310') | | | | |
| | (786' BML) | 4,310' TVD | Burst Disk @ 4,431' (3500 psi) in 1" | | 11.5 - 14.9 ppg DKD | | |
| 18" SA @ 5,557' (2,005' BML) | | 6,287' | 26" Hole TD = 6,230' | | Pad Mud 15.5 ppg | | Straight Hole |
| | (2,735' BML) | 6,287' TVD | 23" 448 ppf 2" X-80 (3537' - 3590') | | | | |
| | | | 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-60/MT (4434' - 6287') | | 12.0 ppg LOT | | |
| TOS @ 6,844' RKB (3,292' BML) | | 7,782' | Foam Cement @ mud-line | | | | |
| (4,230' BML) | | 7,782' TVD | 18-1/8" x 21" Hole TD = 7,900' | | SBM 11.3 PPG | | Straight Hole |
| | | | 18" 117 ppf, P110, Hyd 511 (6,557' - 6,300') | | | | |
| | | | 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' | 16-1/2" x 19" Hole TD = 15,600' | | SBM 11.6 - 13.6 PPG | | Straight Hole |
| (11,914' BML) | | 15,466' TVD | TOC @ 12,890' (SLB Bond log 24-May-08) | | | | |
| | | | 16.04" 109.6 ppf, HPQ-125 SLSF (3,585' - 7,094') | | | | |
| | | | 16" 97 ppf, HPQ-125 SLSF (7,094' - 9,144') | | | | |
| | | | 16" 97 ppf, HCQ-125 Hydril 523 (9,144' - 15,466') | | 16.3 ppg FIT | | |
| BOS @ 20,404' (16,852' BML) | | 20,892' | 19" Hole to 15,600' | | | | |
| Top of 11 7/8" Liner @ 20,436' | | 20,892' TVD | 14-1/2" x 16-1/2" Hole TD = 20,910' | | SBM 13.5 - 16.0 PPG | | Straight Hole |
| (17,310' BML) | | | 16.5" Hole to 20,772' | | | | |
| EZSV @ 22,044' | | | 13 5/8" 88.2 ppf, Q-125, SLSF (20,006' - 15,226') | | | | |
| 280 cu ft omit | | | 14" 112 ppf, Q-125, SLSF (20,666' - 20,006') | | | | |
| Top of 9-5/8" SET Liner @ 22,064' | | 22,173' | 13 5/8" 88.2 ppf, Q-125, SLSF (20,892' - 20,666') | | | | |
| (18,619' BML) | | 22,173' TVD | 11-7/8" Casing Window TOW= 22,173'; BOW= 22,191' | | SBM 15.8 - 16.0 PPG | | Straight Hole |
| | | | 11 7/8" 71.8 ppf Q-125 HYD 513 (20,436' - 22,171') | | 16.22 ppg LOT | | |
| | | | Start of 12-1/4" Hole @ 22,210' MD | | | | |
| | | | 10-5/8" x 12-1/4" Hole TD = 24,643' | | SBM 15.8 - 16.0 ppg | | Directional Hole |
| | | | 10-5/8" Hole TD = 24,675' | | | | |
| 24,675' | | 24,675' TVD | 9-5/8" SET 36 ppf EX-80 XPC (22,064' - 24,675') | | | | |
| (21,123' BML) | | | | | | | |