

CHEVRON

STURGIS NORTH #1

Drilling Activity Report

Measured Depth:		15,610 ft		TVD:		15,610 ft		PBDT:				Proposed MD:		31,150 ft		Proposed TVD:		31,150 ft			
DOL: 54		DFS: 50		Spud Date: 07-FEB-2008				Daily Footage: 10				Daily Rot Hrs: 0.5		Total Rot Hrs: 218.5							
Torq: 10 ft-lb		Drag: -19 klb		Rot Wgt: 484 klb		P/U Wgt: 465 klb		Slack Off Wgt: 484 klb		Wind: SSE 12		Seas: 3 / 4 ft		Bar: 29.62 in		POB: 109					
Last Casing Size: 22.000 in				Set At: 6,287 ft MD				6,287 ft TVD				Shoe Test: 16.3 lb/gal		EMW		Leakoff? N					
Cum Rot Hrs On Casing: 15.5				Cum Rot Hrs On Casing Since Last Caliper: 0.0				Depth Worst Wear:				% Remaining:									
Liner Size: 16.000 in				Set At: 15,466 ft MD				15,466 ft TVD				Liner Top At: 3,586 ft MD				3,586 ft TVD					
Mud Co: MI-SWACO				Type: SYNTHETIC				Sample From: PIT		Wt: 13.6 lb/gal		FV: 60 sec/qt		PV: 41 cp		YP: 13 lb/100ft2		Gel: 9/25 lb/100ft2			
WL 1/32 in		API: HTHP: 2.2		FC 1/32 in		API: HTHP: 2		%Solids: 23.45		% NAF: 57.00		% Water: 17.00		% Sand:		MBT: lb/bbl		Ph:			
Pm: 1.60 ml/ml		Pf/Mf: / ml/ml		Carb: mg/L		Cl: 59,000 mg/L		Ca: 11,200 mg/L		Bent: lb/bbl		Solids %HG/LG: 20.50 / 3.00		%DS/Bent: /							
1819.0 100.0 #SX BARITE 35.0				55.0 KSX G-SEAL 1594.0				1.0 BBL MIXING FEE 16.0		1.0 OTH SHRINK WRAP 60.0		50.0 #SX EXCALIBAR 200									
60.0				50.0 #SX EXCALIBAR 325 225.0				1.0 GAL SUREMOD													
Drlg Gas: 0		Max Gas: 0		Conn Gas: 0		Trip Gas: 0		Trip Cl: 0		Remarks:											
Bit Number		IADC	Size in	Reamer in	Bi-Ctr?	Manufactr	Type		Jets (Quantity - Size) 1/32 in				TFA in2	MD In	MD Out	TVD Out					
5		M423	14.500	16.500		HCC	HC507Z		10 - 11 / - / - / - / -				0.928	15,600ft							
									- / - / - / - / -												
Serial number		Feet		Hours		WOB klb		RPM		Motor RPM		I-Row	O-Row	DC in	Loc	B	G	Char	?Pull	Cost / Ft	
7008418		10		0.5		20/25		70 /												\$ 900.80	
						/		/													
Liner in				Stroke in				SPM		Press. psi	GPM	Jet Vel ft/sec	DP Av ft/min	DC Av ft/min	Bit HP	BHHP/SQIN	Pump HP				
6.000 / 6.000 / 6.000 /				14.000 / 14.000 / 14.000 /				50/ 50 / 38/		4030	746	258.5	76.9	100.5	352.2	1.6	1754				
/ / /				/ / /				/ / /													
Total Length of BHA: 872.49 ft				BHA Description: 14.5" PDC/ POWERDRIVE/ RECEIVER/ ARC/ SONIC/ TELESCOPE/ FILTER SUB/ 14-3/8"STAB/ 16.5"REAMER/ FLOAT SUB/ 9.5"DC/ 14-3/8"																	
STAB/ (2) 9.5"DCS/ PBL/ 9.5" DC/ XO/ (3)8.25"DCS/ PONY DC/ WS RT/ WS STAB/ PONY DC/ XO/ (6) 5-7/8"HWDP/ JARS/ (8) 5-7/8" HWDP																					
Daily Fluid Lost to Hole Section:										Cum Fluid Lost to Hole Section: 0					Hrs On Jars: 15.5		Hours Since Last BHA Inspection:				
Survey MD		Angle	Azimuth		Direction		TVD		N/S Coordinates		E/W Coordinates			Vertical Section ft		Closure ft		DLS deg/100ft			
Hours		From	Act - Cat		Operations Covering 24 Hours Ending at Midnight										Total Hours Reported: 24.0						
0.50 T		0	01 - 20		RIG REPAIR: FINISHED REPLACE BREAK-AWAY CLEVIS ON MOTOR ALIGNMENT CYLINDER. CHECKED ALIGNMENT OF TDS - OK.																
			-		CHECKED PS-30 SLIPS & SINGLE OF 5-7/8" 26# DP - OK.																
1.00		30	01 - 05		PJSM. TIH W/ 14-1/2" X 16-1/2" RS BHA F/ 14,988' MD TO 15,177' MD. WASH F/ 15,177' MD TO 15,265' MD @ 500 GPM																
			-		W/ 1800 PSI. TAG WIPER PLUG @ 15,265' MD W/ 50K DOWN AS PER ALLAMON PROCEDURE TO CRUSH THE PLUGS. (NOTE- NO																
			-		CMT ABOVE PLUGS).																
4.50		130	01 - 15		DRILL WIPER PLUG F/ 15,265' MD TO 15,269' MD. (TIME= 4 HR 15 MIN). (NOTE: WOB= 10-45K, 535-650 GPM, 1996-3230																
			-		PSI, RPM= 40-60, TORQUE= 3-4K FT-LBS, P/U WT= 460K S/O WT= 475K, BG= 1 UNIT).																
3.00		600	01 - 15		DRILL LANDING COLLAR F/ 15,269' MD TO 15,272' MD (TIME= 3 HR 15 MIN). (NOTE: WOB= 30-40K, 642 GPM, 3000 PSI,																
			-		RPM= 60, TORQUE= 4-8K FT-LBS, P/U WT= 460K S/O WT= 475K, ECD= 13.9 PPG, BG= 1 UNIT).																
1.00		900	01 - 15		DRILL FIRM CEMENT F/ 15,272' MD TO 15,318' MD (ROP= 46 FPH). (NOTE: WOB= 20-25K, 650 GPM, 3054 PSI, RPM= 70,																
			-		TORQUE= 8-15K FT-LBS, P/U WT= 460K S/O WT= 475K, ECD= 13.9 PPG, BG= 3 UNITS).																
4.00		1000	01 - 15		DRILL FLOAT COLLAR F/ 15,318' MD TO 15,321' MD (TIME= 10 MIN). CONTINUE DRILLING FIRM CEMENT F/ 15,321' MD TO																
			-		15,455' MD (ROP = 50-60 FPH). DRILL GUIDE SHOE F/ 15,455' MD TO 15,460' MD (TIME= 5 MINS). TAKE SPR & CLFP.																
			-		(NOTE: WOB= 15-20K, 650 GPM, 3,114 PSI, RPM= 70, TORQUE= 8-12K FT-LBS, P/U WT= 472K S/O WT= 483K, ECD= 13.9 PPG,																
			-		BG= 5 UNITS).																
Safety: REVIEW TENET #3: OVERHEAD LOADS, WELL CONTROL.																					
24 Hr Summary: TIH. DRILL OUT 16" SHOE TRACK. CLEAN OUT RATHOLE. DRILL 10' OF NEW HOLE. CBU TO RISER. PERFORM FIT. OPEN REAMER.																					
Projected Operations: DRILL 14-1/2" X 16-1/2" HOLE.																					
Remarks: RKB MSL = 72' RKB ML = 3,552' RKB HPH = 3,536' WATER DEPTH = 3,480' DAILY METAL RECOVERED= 7 LBS																					
THRUSTERS = 35% DP CURRENT = 1.6 KNT @ 280 DEG BOW HEADING = 090 DEG LAST FIRE / ABD DRILL = 03/23/08																					
NEXT BOP TEST = 04/10/08 BOP FUNCTION TEST = 04/02/08 DIV FUNCTION = 04/02/08 CSG TEST = 4/23/08 BSR TEST = 4/23/08																					
CVX= 9 CVX SERV= 31 ENSCO= 59 ENSCO SERV= 1 CATER= 9 TOTAL POB= 109 IFO= 67 ESS= 39 NON ESS= 70																					
Daily Mud Cost: \$ 57,169				Daily Tangible Cost: 0				Daily Well Cost: \$ 673,927				Incidents: NO INCIDENT REPORTED									
Cum Mud Cost: \$ 5,806,343				Cum Tangible Cost: \$ 4,081,417				Cum Well Cost: \$ 44,705,512				Total Appr: \$ 113,485,246				Bulk Weight: 15329 SX					
Drill Water: 2769 bbl		Potable Water: 723 bbl		Diesel on Loc: 5251 bbl		Diesel Lst 24 Hrs: 241		Cum Diesel Used: 12899		Neat Cement: 0 SX		Blended: 2021 SX									
Country: U.S.A.						Rig: ENSCO 7500				Drilling Rep: GD/HM/RR/MB/TC/XM/TK				Rep Phone: 281-674-0184							
Field: ATWATER VALLEY 138						Lease: OCS-G 23018 STURGIS NORTH						Well No: 001				Well ID: LD0964 - 0					
Cont Hrs> Daily: 0.50				Cum: 107.50				API No: 6081840068				AFE No: UWXEX-E7008-DRL				Date: 27-MAR-2008		Page: 1 of 3			

Measured Depth:		15,610 ft		TVD:		15,610 ft		PBDT:				Proposed MD:		31,150 ft		Proposed TVD:		31,150 ft									
DOL: 54		DFS: 50		Spud Date: 07-FEB-2008				Daily Footage: 10				Daily Rot Hrs: 0.5		Total Rot Hrs: 218.5													
Torq: ft-lb		Drag: klb		Rot Wgt: klb		P/U Wgt: klb		Slack Off Wgt: klb		Wind:		Seas: ft /		Bar: in		POB: 109											
Last Casing Size:				Set At: MD				TVD				Shoe Test: lb/gal		EMW Leakoff?													
Cum Rot Hrs On Casing:				Cum Rot Hrs On Casing Since Last Caliper:								Depth Worst Wear:				% Remaining:											
Liner Size:				Set At: MD				TVD				Liner Top At: MD				TVD											
Mud Co:				Type:				Sample From: FLOW		Wt: lb/gal		FV: sec/qt		PV: cp		YP: lb/100ft2		Gel: lb/100ft2 /									
WL 1/32 in		API:		HTHP:		FC 1/32 in		API:		HTHP:		%Solids:		% NAF:		% Water:		% Sand:		MBT: lb/bbl		Ph:					
Pm: ml/ml		Pf/Mf: ml/ml /		Carb: mg/L		Cl: mg/L		Ca: mg/L		Bent: lb/bbl		Solids %HG/LG: /				%DS/Bent: /											
Drig Gas:		Max Gas:		Conn Gas:		Trip Gas:		Trip Cl:		Remarks:																	
Bit Number		IADC	Size in	Reamer in	Bi-Ctr?	Manufactr	Type		Jets (Quantity - Size) 1/32 in						TFA in2		MD In		MD Out		TVD Out						
									- / - / - / - / -																		
									- / - / - / - / -																		
Serial number		Feet		Hours		WOB klb		RPM		Motor RPM		I-Row	O-Row	DC in	Loc	B	G	Char	?Pull	Cost / Ft							
						/		/																			
						/		/																			
Liner in				Stroke in				SPM		Press. psi	GPM	Jet Vel ft/sec		DP Av ft/min		DC Av ft/min				BHHP/SQIN		Pump					
/ / /				/ / /				/ / /																			
/ / /				/ / /				/ / /																			
Total Length of BHA:				BHA Description:																							
Daily Fluid Lost to Hole Section:								Cum Fluid Lost to Hole Section:								Hrs On Jars:				Hours Since Last BHA Inspection:							
Survey MD		Angle		Azimuth		Direction		TVD		N/S Coordinates				E/W Coordinates				Vertical Section ft		Closure		DLS deg/100ft					
Hours		From	Act - Cat		Operations Covering 24 Hours Ending at Midnight										Total Hours Reported:												
0.50		1400	01 - 15		WASH & REAM THRU GUIDE SHOE THREE (3) TIMES TO CLEAN SHOE. PERFORM FLOW CHECK F/ 10 MIN - WELL STATIC. (NOTE:																						
			-		P/U WT= 460K S/O WT= 475K. NO EXCESS DRAG THRU SHOE).																						
2.00		1430	01 - 04		WASH & REAM RATHOLE F/ 15,460' MD TO TD @ 15,600' MD, 8' SOFT FILL ON BOTTOM. (NOTE: OBSERVED 6' OF FIRM CEMENT																						
			-		BELOW SHOE TO 15,466' MD). (NOTE: WOB= 0-5K, 747 GPM, 3940 PSI, RPM= 70, TORQUE= 5-15K FT-LBS, P/U WT= 465K																						
			-		S/O WT= 484K, ECD= 13.9 PPG, BG= 3 UNITS).																						
0.50		1630	01 - 02		DRILL 14-1/2" X 16-1/2" HOLE F/ 15,600' MD TO 15,610' MD. (NOTE: WOB= 8-20K, 740 GPM, 3,915 PSI, RPM= 70-80,																						
			-		TORQUE= 5-12K FT-LBS, P/U WT= 465K S/O WT= 484K, ECD= 13.9 PPG, BG= 3 UNITS).																						
2.50		1700	01 - 17		RECIPROCATATE PIPE & CIRC CUTTINGS INTO RISER @ 745 GPM W/ 3940 PSI. (NOTE: WHILE CIRC, DOWNLINK POWER DRIVE TO																						
			-		GTF, SET TF TO 180°, SR= 50%).																						
1.00		1930	01 - 17		POOH F/ 15,610' TO 15,421' MD. LOCATE TOOL JT W/ LOWER ANNULAR & SPACE OUT. (NOTE: PWD DEPTH= 15,394' TVD).																						
			-		PUMP UP STATIC MUD WT= 11,042 PSI (13.83 PPG EMW AS PER ANADRIL CAL'S). BREAK CIRC DOWN KILL LINE & DP. TEST																						
			-		LINES TO INNER KILL FAILSAFE TO 4000 PSI, OK. CLOSE LOWER ANNULAR & OPEN FAILSAFE & IBOP.																						
2.00		2030	01 - 17		PUMP DOWN DP & KILL LINE @ 1/2 BPM & CONDUCT FORMATION INTEGRITY TEST (FIT) TO 2,179 PSI W/ 20 BBLS OF 13.6 PPG																						
			-		SBM PUMPED. FIT = 16.3 PPG EMW (16" CSG SHOE @ 15,460' TVD). BLED OFF & RECOVER 20 BBLS. PUMP UP PWD																						
			-		PRESSURES. MIN = 11,034 PSI & MAX = 13,254 PSI (DELTA= 2220 PSI). MAX EMW F/ PWD = 16.58 PPG (CORRECTED TO																						
Safety:																											
24 Hr Summary:																											
Projected Operations:																											
Remarks:																											
Daily Mud Cost:				Daily Tangible Cost:								Daily Well Cost:						Incidents:									
Cum Mud Cost:				Cum Tangible Cost:								Cum Well Cost:						Total Appr:				Bulk Weight: sx					
Drill Water: bbl			Potable Water: bbl			Diesel on Loc: bbl			Diesel Lst 24 Hrs:			Cum Diesel Used:			Neat Cement: sx			Blended: sx									
Country: U.S.A.						Rig: ENSCO 7500						Drilling Rep: GD/HM/RR/MB/TC/XM/TK						Rep Phone: 281-674-0184									
Field: ATWATER VALLEY 138						Lease: OCS-G 23018 STURGIS NORTH						Well No: 001						Well ID: LD0964 - 0									
						API No: 6081840068						AFE No: UWXEX-E7008-DRL						Date: 27-MAR-2008				Page: 2 of 3					

Measured Depth:		15,610 ft		TVD:		15,610 ft		PBDT:		Proposed MD:		31,150 ft		Proposed TVD:		31,150 ft									
DOL: 54		DFS: 50		Spud Date: 07-FEB-2008				Daily Footage: 10		Daily Rot Hrs: 0.5		Total Rot Hrs: 218.5													
Torq: ft-lb		Drag: klb		Rot Wgt: klb		P/U Wgt: klb		Slack Off Wgt: klb		Wind:		Seas: ft /		Bar: in		POB: 109									
Last Casing Size:				Set At: MD				TVD				Shoe Test: lb/gal				EMW Leakoff?									
Cum Rot Hrs On Casing:				Cum Rot Hrs On Casing Since Last Caliper:						Depth Worst Wear:				% Remaining:											
Liner Size:				Set At: MD				TVD				Liner Top At: MD				TVD									
Mud Co:				Type:				Sample From: FLOW		Wt: lb/gal		FV: sec/qt		PV: cp		YP: lb/100ft2		Gel: lb/100ft2 /							
WL 1/32 in		API:		HTHP:		FC 1/32 in		API:		HTHP:		%Solids:		% NAF:		% Water:		% Sand:		MBT: lb/bbl		Ph:			
Pm: ml/ml		Pf/Mf: ml/ml /		Carb: mg/L		Cl: mg/L		Ca: mg/L		Bent: lb/bbl		Solids %HG/LG: /				%DS/Bent: /									
Drig Gas:		Max Gas:		Conn Gas:		Trip Gas:		Trip Cl:		Remarks:															
Bit Number		IADC	Size in	Reamer in	Bi-Ctr?	Manufactr	Type		Jets (Quantity - Size) 1/32 in						TFA in2	MD In	MD Out	TVD Out							
									- / - / - / - / -																
									- / - / - / - / -																
Serial number		Feet		Hours		WOB klb		RPM		Motor RPM		I-Row	O-Row	DC in	Loc	B	G	Char	?Pull	Cost / Ft					
						/		/																	
						/		/																	
Liner in				Stroke in				SPM		Press. psi	GPM	Jet Vel ft/sec		DP Av ft/min		DC Av ft/min				BHHP/SQIN		Pump			
/ / /				/ / /				/ / /																	
/ / /				/ / /				/ / /																	
Total Length of BHA:				BHA Description:																					
Daily Fluid Lost to Hole Section:								Cum Fluid Lost to Hole Section:								Hrs On Jars:				Hours Since Last BHA Inspection:					
Survey MD		Angle	Azimuth		Direction		TVD		N/S Coordinates			E/W Coordinates			Vertical Section ft		Closure		DLS deg/100ft						
Hours		From	Act - Cat		Operations Covering 24 Hours Ending at Midnight										Total Hours Reported:										
			-		SHOE).																				
1.50		2230	01 - 01		TIH F/ 15,420' TO 15,552'. S/O= 485K & P/U= 475K. ESTABLISH BASELINE CIRC PRESSURE @ 750 GPM (4,030 PSI) &																				
			-		BASLINE TORQUE @ 70 RPM (4-5000 FT-LBS). DROP 2-1/4" ANDER-RMR ACTIVATION BALL. PUMP BALL DOWN @ 503 GPM W/																				
			-		2,120 PSI & WASH DOWN TO 15,602' MD (BIT DEPTH) TO POSITION REAMER @ 15,474'. INCREASE CIRC RATE TO 750 GPM W/																				
			-		4,030 PSI. NO PRESSURE LOSS NOTED (PRIMARY ACTIVATION NOT VERIFIED). SHUT PUMP DOWN FOR 2 MINS. PUMP @ 750																				
			-		GPM W/ 3830 PSI (200 PSI LOSS NOTED, SECONDARY ACTIVATION VERIFIED).																				
			99 - 99		INCREASE CIRC RATE TO 820 GPM. P/U & TAKE 10K OVERPULL AGAINST 16" CSG SHOE @ 15,460' MD. SHUT DOWN PUMP &																				
			-		PULL REAMER INTO CSG TO 15,450' MD. PUMP @ 820 GPM. S/O & SET 12K DOWN ON REAMER TO VERIFY REAMER OPEN. SHUT																				
			-		DOWN PUMP. TIH TO 15,602' (BIT DEPTH). WASH DOWN TO BTM @ 15,610'.																				
			99 - 99		OPERATIONS SINCE MIDNIGHT: DRILL 14-1/2" HOLE F/ 15,610' MD TO 15,728' MD (815 GPM. 4,300 PSI, 90 RPM, 14K TQ,																				
			-		20-25K WOB, ECD = 13.91-14.0 PPG). DRILL 14-1/2" X 16-1/2" HOLE F/ 15,728' MD TO 15,845' MD (815 GPM, 4,345																				
			-		PSI, 140-150 RPM, 18-20K TQ, 25-30K WOB, ECD = 14.2 PPG). NOTE: START RAISING MUD WT TO 13.8 PPG @ 15,610'.																				
			99 - 99		OPERATIONS @ 0500 HRS: DRILLING 14-1/2" X 16-1/2" HOLE @ 15,845' MD.																				
			99 - 99		NOTE: ON 03/27/08 @ 1638 HRS, MS. CHRISTINE BEIRIGER (CHEVRON) NOTIFIED MR. DAVID TROCQUET (MMS-NO) THAT WE																				
			-		WERE UNABLE TO DEPLOY THE ROV TO PERFORM THE THREE-DAY REQUIRED INSPECTION DIVE DUE TO HIGH CURRENT CONDITIONS.																				
Safety:																									
24 Hr Summary:																									
Projected Operations:																									
Remarks:																									
Daily Mud Cost:				Daily Tangible Cost:						Daily Well Cost:						Incidents:									
Cum Mud Cost:				Cum Tangible Cost:						Cum Well Cost:						Total Appr:				Bulk Weight: sx					
Drill Water: bbl				Potable Water: bbl				Diesel on Loc: bbl		Diesel Lst 24 Hrs:				Cum Diesel Used:				Neat Cement: sx				Blended: sx			
Country: U.S.A.						Rig: ENSCO 7500						Drilling Rep: GD/HM/RR/MB/TC/XM/TK						Rep Phone: 281-674-0184							
Field: ATWATER VALLEY 138						Lease: OCS-G 23018 STURGIS NORTH						Well No: 001						Well ID: LD0964 - 0							
						API No: 6081840068				AFE No: UWXEX-E7008-DRL						Date: 27-MAR-2008				Page: 3 of 3					