

CEMENTING LOG

STAGE NO.

Date 12/21/10 District Rocky Ticket No. 062126
 Company Borealis Rig Borealis 2
 Lease Michael Well No. 2-22
 County Rowles State LA
 Location _____ Field _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type non Weight 15 1/2 Collar _____

Casing Depths: Top 143 Bottom 44

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 2 7/8 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 10238 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA: Spacer Type: WFA II
 Amt. 1288 Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type ALW 1/4 FLO
 Excess _____
 Amt. 450 Sks Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type Com 1091 SUCT
 Excess _____
 Amt. 250 Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 418201
 Bulk Equip. BIP
396

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type H₂O Amt. _____ Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Ed Hines

CEMENTER MA

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Calculation SPH Amt set up
						Run in Cement
						Mix WFA II
						Mix 20 SK RT
						Mix 15 SK RT
						Mix 415 SK Bore 5 1/2 ALW
						Mix 250 SK Com 1091 SUCT 5 1/2 SUCT
						Wash up
						Displace Plug w/Lead
	200			80.0		
	300			40.0		
	500			50.0		
	700			60.0		
	900			50.0		
	1200			80.0		
	1500			90.0		
	1700			100.0		
	1900			104.5		
	2000					
						Lead Plug
						Float held Job Complete
						Cement did Circulate