



Face Casing cement
ELL CEMENTING, INC.

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Enile R. Gray +

TREATMENT REPORT

DATE	WELL NAME	SECTION	TW	AGE	COUNTRY	COMMENTS
1-8-11	Wells Branch AA 24-03	24	6N	63W	Weld	
DRAIN TO: Noble		DRAIN:				
MR. DRILLER'S:		OPERATION: Noble				
JOB:		CORRECTION: Cate 22				
TIME OF DRILL:		DISTANCE TO LOCATION:				
TIME ARRIVED ON SITE: 4:00am		TIME OFF LOCATION: 8:30am				

WELL DATA				PRESSURE LIMITATIONS	
WELL ID	1214	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
WELL DEPTH	671.5	TUBING LENGTH	SPOTS FT	SURFACE WPE ALLOWING DOWN	
PROD GPR	619.67	TUBING WEIGHT	OPEN HOLE	STRONG	
WELL ID	898	TUBING CONNECTION	TUBING		
WELL ID	665.06	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE	
WELL ID	2416	WELL DEPTH	✓ SURFACE WPE	BREAKDOWN BPM	
WELL ID	5000		✓ PRODUCTION CASING	INITIAL BPM	
PRESSURE SUMMARY			✓ SQUEEZE CEMENT	FINAL BPM	
BREAKDOWN PRESSURE	PSI	AVERAGE	PSI	✓ WASH BREAKDOWN	MINIMUM BPM
WELL TREATMENT	PSI	100%	PSI	✓ ACID STIMULATION	MAXIMUM BPM
WELL ID	PSI	5 AMM SSP	PSI	✓ ACID SPLITTING	AVERAGE BPM
WELL ID	PSI	15 AMM SSP	PSI	✓ WASH FLUSH	
WELL ID	PSI			✓ OTHER	
				WELL ID - DATE & PRESSURE & JET	

POST-TESTING PRIOR TO JOO
Rising, safety meeting, Psi test, circ 4054s Kel H2O 2nd 10w/Dye, mix of Pump 284 s/s
Leak at 30% excess at 1.27 yield at 15.2 lbs or until column stops, Release Pkg. Displace 39.4
BBs H2O, Pump Pkg. at 150 psi w/ L.Fd Psi, wait 5 min Release Psi, work up Rig down
Arrived w/ 5755s remnant 4 gallons Kel 1600 Dye H2O test OK
64.1 BBs slugs

JOB SUMMARY

JOE SLINGERLAND

Drop Pkg 7:48am Disp 7:48am c/cr 7:13am cement 7:23am

10 BBls @ 5.5 Bbls/m 7.57 gm 410 psi used 30% excess
20 BBls @ 5.5 Bbls/m 7.53 gm 460 psi used 284 sils cement
30 BBls @ 5.5 Bbls/m 7.55 gm 400 psi 64.1 Bbls slurry
39.4 BBls @ 1.0 Bbls/m 8.00 gm 160 psi
Bump Plug NO

1 Poly/291 sks cement 3 gallons KCL bar Dye 13/20 B.K 46

Figure 1. Aerial photograph of the study area. The area is divided into three main sections: the northern section (top), the central section (middle), and the southern section (bottom). The northern section is characterized by a dense forest of tall trees, while the central and southern sections are dominated by a dense forest of shorter trees. The area is bounded by a road on the left and a river on the right.

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1. *Explain the importance of the following factors in the design of a research study: (a) sample size, (b) randomization, (c) blinding, (d) control group, (e) statistical significance.*