

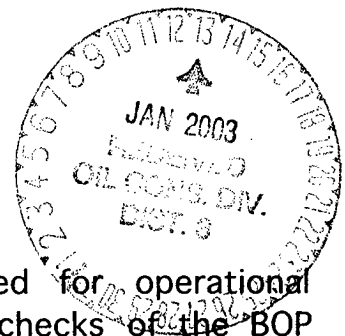
Richardson Operating Co.
F-RPC 29 #1
1080' FNL & 1585' FEL
Sec. 29, T. 29 N., R. 13 W.
San Juan County, New Mexico

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070 Farmington, NM

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Blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. BOP equipment will include a kelly, floor safety valve, and choke manifold all rated to 2000 psi. Maximum expected pressure is \approx 640 psi.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>GL Setting Depth</u>
8-3/4"	7"	20	K-55	New	120'
6-1/4"	4-1/2"	10.5	K-55	New	1,600'

Surface casing will be cemented to surface with \approx 36 cu. ft. (\approx 30 sacks) Class B + 2% CaCl_2 . Volume is based on 100% excess, yield of 1.18 cu. ft./sk, and slurry weight of 15.6 PPG. W.O.C. = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with mud to the surface. Forty-five barrels of fresh water will next be circulated. Lead with \approx 200 cubic feet (\approx 97 sacks) of Class B with 2% metasilicate (yield = 2.06 cubic feet per sack, slurry weight = 12.5 pounds per gallon). Tail with \approx 130 cubic feet (\approx 111 sacks) of Class B with 2% CaCl_2 (yield = 1.18 cubic feet per sack, slurry weight = 15.6 pounds per gallon). Total cement volume is \approx 330 cubic feet based on 100% excess and circulating to surface.

Production casing will have 4-1/2" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Eight centralizers will be spaced on every other joint starting above the shoe. Eight turbolizers will be placed on every other joint starting from the top of the well.

ACCEPTED FOR RECORD

JAN 09 2003

FARMINGTON FIELD OFFICE

NMOC

PERMITS WEST INC.
PROVIDING PERMITS FOR LAND USERS