

RETEST: Blind Rams same as before but with check valve closed off stack on kill line and wing valves closed off manifold cross - pressure applied as before.

Test #15 Pressured to 2500# with leak thru blind rams. Operated rams.

Test #16 Repeated test. Pressured to 2500# with same leak and slight leak thru wing valve off manifold cross (pit side).

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RETEST: Blind Rams same as before but with outlet valve closed off choke-manifold cross - pressure applied thru test entry of wing valve off manifold cross (pit side).

Test #17 Pressured to 2500# with loss of approximately 50# during first four minutes then leveling out for remaining one minute of test.

NO VISIBLE LEAK. PRESSURE STEADY AT APPROXIMATELY 2500#.

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A delay was observed to operation of blowout control equipment at the conclusion of testing - pump on accumulator frozen (corrected as needed). Closures were made using closing unit pump only to the observed pressure of 1500# for test to ram type bops and 1200# for test to Hydril. Accumulators were pressured to 2800# at end of test. Control valves operated as indicated on closing unit manifold at end of test. Bop extensions were not hooked up - rig nipping up. No test desired to top of casing using packer, nor to the upper kelly cock, to the lower kelly cock, or to the drill pipe safety valve.

YELLOW JACKET TOOLS AND SERVICES, INC.

ODESSA, TEXAS

Test made by Billie Brogden *Billie Brogden*