SUPPLEMENTAL MANIFOLD FOR DRILLING CONTROL CONDITION IX AND X-B 5000 AND 10,000 PSI WP H23 Trim Required Yes _____ No ___ TO RESERVE PIT FROM GAS SEPARATOR --- μ AUTOMATIC CHOKE p. - 20 TO FLAGE PIT 11 AUTOMATIC CHOKE 3 32 а AMENSE Ħ Ħ TO FLARE PIT 40 ¤ AMERAB 1.8 10" steel flow line 4" minimum 10,000# WP 4130 mechanical tubing with flanged ends or 2,3,4,5, equivalent $2^{\rm H}$ minimum X $4^{\rm H}$ minimum 19,000# WP flanged cross with 10,000# WP 11 needle valve and gauge 4" minimum 10,000f WP flanged full opening steel gate valve 12,13,14, $4^{\prime\prime}$ minimum 5000# WP flanged full opening steel gate valve 15,16 17,18,19, 2" minimum 10,0000 WP flanged full opening steel gate valve, or Halliburton Lo Torq Plug Valve 21.22 2" minimum 10,000# WP automatic choke 23,24,25, 4" minimum 50008 WP flanged or threaded full opening steel mud valves 27.28.29. 10" minimum Low pressure butterfly valves 30.31.39.47 7,32,33. 4 minimum flanged or threaded schedule 80 tubing 35,36,37,38 40 2" minimum 10,000# WP flanged adjustable or automatic choke with 41,42 7" minimum low pressure butterfly valve 7" minimum anchored steel flowline 10" minimum PVC flowline SCALE: DATE EST. NO. DRG. NO. DRAWH BY:

CHECKED BY:

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EXHIBIT