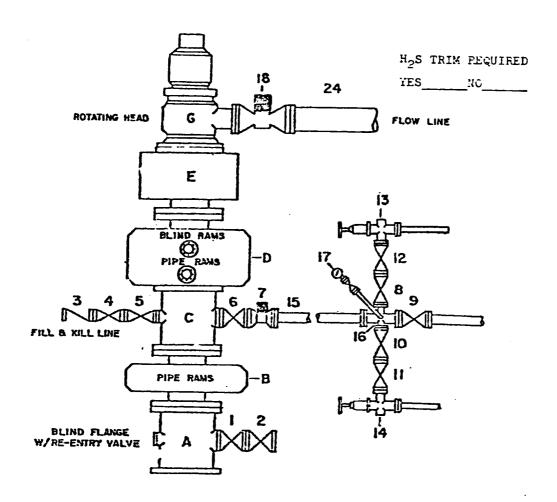
DRILLING CONTROL

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CONDITION IV-B-5000 PSI WP



DRILLING CONTROL

MATERIAL LIST - CONDITION IV- B

- A Texaco Wellhead
- B 5000# Single Ram type preventer, hydraulic operated with 1st steel, 5000# W.P. control lines
- C 5000F W.P. Drilling Spool with a minimum 2" flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- D 5000# W.P. Dual Ram Type preventer, hydraulic operated with 1" steel, 5000# W.P. control lines
- E 5000# W.P. Annular Preventer, hydraulic operated with 1" steel, 3000# W.P. control lines
- F Bell Nipple with flowline and fill-up outlets (kill line may also be used for fill-up line).
- 1,2,4,5, 2" minimum 5000# W.P. flanged full opening steel gate 8,10,11, valve or Halliburton Lo Torc plug valve 12
- 3 2" minimum 5000# W.P. back pressure valve
- 6,9 3" minimum 5000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve
- 7 3" minimum 5000# W.P. flanged hydraulic valve
- 15 3" minimum Schedule 160, Grade B, seamless line pipe
- 16 2" minimum x 3" minimum 5000# W.P. flanged cross
- 13,14 2" minimum 5000# W.P. adjustable chokeswith carbide trim
- Cameron Mud Gauge or equivalent (location in choke line optional.)
- 18 6" minimum 1000# hydrolic flanged valve
- 24 E" minimum steel flow line

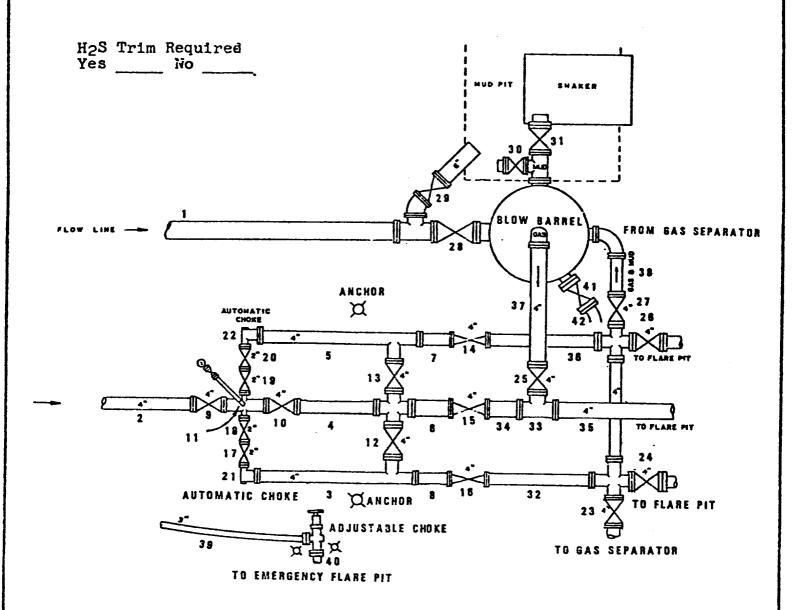


TEXACO, INC.
PRODUCING DEPARTMENT-U.S. (CENT.)
MIDLAND, TEXAS



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SUPPLEMENTAL MANIFOLD FOR DRILLING CONTROL CONDITION Y AND Y-B 5000 AND 10,000 WP BOP



- 1 10" steel flow line
- 2,3,4,5, 4" minimum 10,000# WP 4130 mechanical tubing with flanged ends or 6,7,8,39 equivalent
- 11 2" minimum X 4" minimum 10,000# WP flanged cross
- 9,10 4" minimum 10,000# WP flanged full opening steel gate valve
- 12,13,14, 4 minimum 5000# WP flanged full opening steel gate valve 15,16
- 17,18,19, 2" minimum 10,000# 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 5000# WP flanged or threaded full opening steel mud valves 26,27
- 28,29,30, 10" minimum Low pressure butterfly valves
- 32,33,34, 4" minimum flanged or threaded schedule 80 tubing 35,36,37,38
- '40 2" minimum 10,000# WP flanged adjustable choke with carbide trim
- 41 6" minimum low pressure butterfly valve
- 42 6" minimum steel flow line



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EXHIBIT J

75-5-5

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