



WELL CONTROL EQUIPMENT  
FOR  
VALWOOD R-5 & R-6 WELLS  
NE $\frac{1}{4}$  SEC.10-1N-102W  
RIO BLANCO COUNTY, COLO.

RECEIVED

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COLO. OIL & GAS CONS. COMM.

The following control equipment is planned for the above designated wells:

1. Surface Casing:
  - A. Hole size for surface casing is 9 5/8".
  - B. Setting depth for casing is approx. 30'.
  - C. Casing specs. are: 7", 20.00#, J-55, 8-rd. thread.
  - D. Anticipated pressure at setting depth is less than 20#.
  - E. Casing will be run and cemented thoroughly with 25 sks of cement with returns to the surface.
  - F. Top of casing will be just above ground level.
2. Casing head: Series 300

Flange size: 8 (nominal); A.P.I. pressure rating: 720#; 7 OCT or Norris; new or used; equipped with two 2" ports with nipples and 2' valves (250# W.P.). Casing head and valves above ground.
3. Intermediate Casing:

None planned.
4. Blowout preventer:
  - A. A simple hydril or small bag Type preventer will be installed on top of the casing head. This can be mechanically operated and need not have a pressure rating of more than 600#.
  - B. Rotating Head: 8", set on top of hydril and bolted securely; complete with kelly drive; pressure lubricator with 2 7/8" stripper rubber for 300# + W.P. Shaffer or equivalent.
5. Auxillary Equipment:

A float valve (600#) is to be used in the bottom drill collar at all times. The kelly hose will also have a shut-off valve (600# W.P.) at floor level.
6. Anticipated pressures:

Pressures greater than about 200# at 3000' have not been previously encountered in any of the hundreds of Mancos wells that have been drilled in the Rangely area. A few wells have flowed oil with a gas drive; and therefore, some type of preventer should be used to shut-off a possible flow under low pressure.

7. Drilling Fluids:

It is planned to drill the subject wells with air for circulation to prevent any damage to the formation.

8. Production Casing:

A. Hole size:  $6\frac{1}{2}$ ";

B. Approximate setting depth: 2500' to 3000'

C. Casing specs.:  $5\frac{1}{2}$ " O.D.; J-55; 14.00#; 8-rd thread; new or used.

D. Casing will be run and set on bottom and hung from the surface casing by  $5\frac{1}{2}$ " slips set in the casing head. The casing will be slotted opposite the pay zones before it is run. A simple Norris (or equivalent) tubing head will be set on top of the casing head.

E. Tubing, 2  $\frac{3}{8}$ " O.D., upset, will be run with a mud anchor and seating nipple on the bottom and set in the tubing head.