

BOP/Choke Program  
North Dakota 31 Fee No. 1  
Cimarex Energy Co. of Colorado  
31-185-26E  
330 FSL & 330 FEL  
Eddy County, NM

30-015-39409

11 Pressure control Equipment:

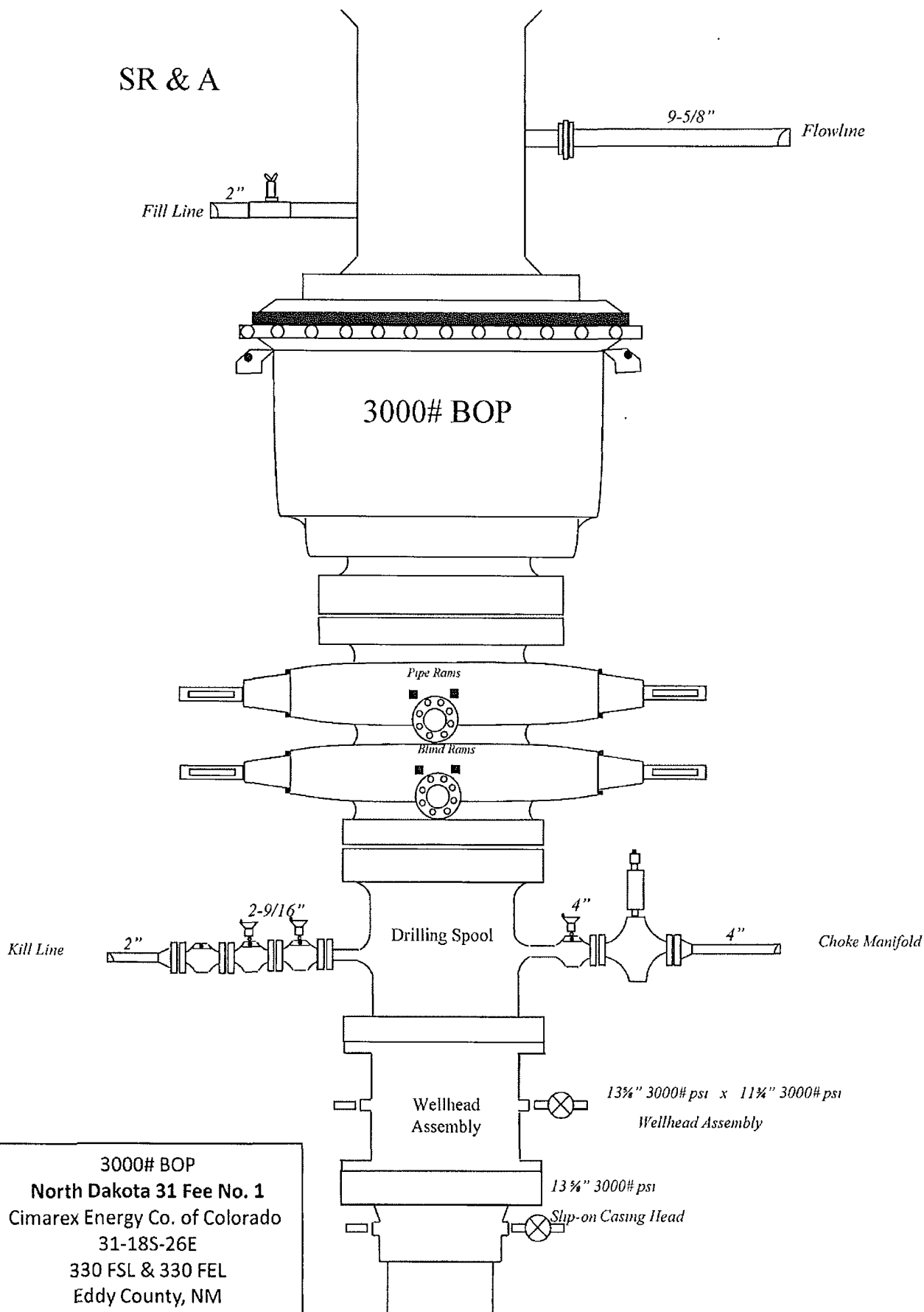
Exhibit "E-1" - A 13 $\frac{3}{4}$ " 3000 PSI working pressure B.O.P. consisting of a one set of blind rams and one set of pipe rams and a 3000 psi annular-type preventor. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. Mud gas separator will be available if drilling in H2S areas.

BOP unit will be hydraulically operated. Below intermediate casing shoe, BOP will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the surface pipe through the running of production casing, the well will be equipped with a 3000 psi BOP system.

Test BOP equipment and choke manifold to 250 psi low and 3000 psi high and annular BOP to 250 psi low and 1500 psi high by an independent service company.



SR & A



# Drilling Operations Choke Manifold 3M Service

Choke Manifold Diagram  
North Dakota 31 Fee No. 1  
Cimarex Energy Co. of Colorado  
31-185-26E  
330 FSL & 330 FEL  
Eddy County, NM

