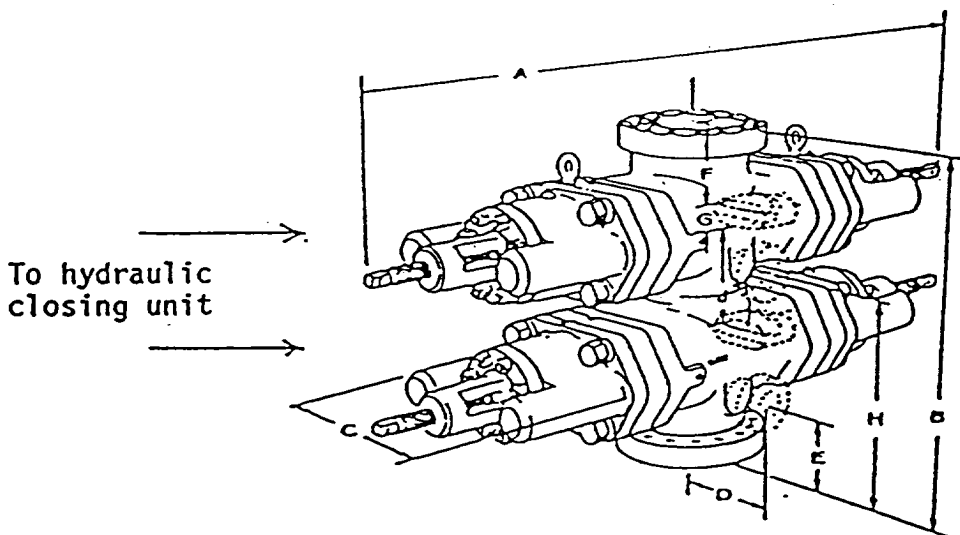


EXHIBIT "E"

BOP Diagram

After 12 3/4" surface casing has been set and cement circulated to the surface, an 11" double ram BOP, as shown below will be put on the hole. This blowout preventer will be connected to a hydraulically controlled closing unit. The pressure rating on this BOP is 3000#, and will have blank and 5 1/2" pipe rams.

RALPH E. WILLIAMSON  
AMOCO FEDERAL #2  
660' FNL & 1980' FEL of  
Sec. 25, T-26S, R-30E  
Eddy County, New Mexico



## SUPPLEMENTAL DRILLING DATA

RALPH E. WILLIAMSON  
AMOCO FEDERAL #2

1. SURFACE FORMATION: Quaternary

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Impervious Dewey Lake	450'
Rustler	650'
Salada	1310'
Castile	1550'
Delaware Lime	3500'
T/Bone Springs Lime	7800'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware Sand series      3500'-7800'

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing program is shown on Form 9-331 C.

Hole for surface casing will be drilled to a depth below fresh water zones. 12 3/4" surface casing will be run to 650', below all fresh water zones and will be cemented to the surface with 650 sacks of Class "C" cement. Cement to circulate.

8 5/8" casing will be run and cemented at 3500 feet, prior to entering Delaware section and will be cemented with 500 sacks of Class "C" cement at 3500 feet, tying same back into the surface casing.

5 1/2" casing will be run to total depth and will be cemented with approximately 1000 sacks of Class "C" 50-50 POZ.

5. PRESSURE CONTROL EQUIPMENT:

Pressure control equipment will consist of a 3000# double ram hydraulically controlled blow out preventer and a 3000# choke manifold.

6. CIRCULATING MEDIUM:

The circulating medium will be fresh water down to 650 feet and brine water in the rest of the hole, once the drilling water saturates itself naturally with salt.

7. AUXILIARY EQUIPMENT:

Drill string safety valves will be maintained on the rig floor while drilling operations are in progress.

8. TESTING, LOGGING AND CORING PROGRAM:

Drill stem test will be made when drilling time, samples, and other data indicate a test is warranted.

It is planned that a compensated neutron-density gamma ray and gamma ray dual laterolog will be run when total depth is reached.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

None anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.

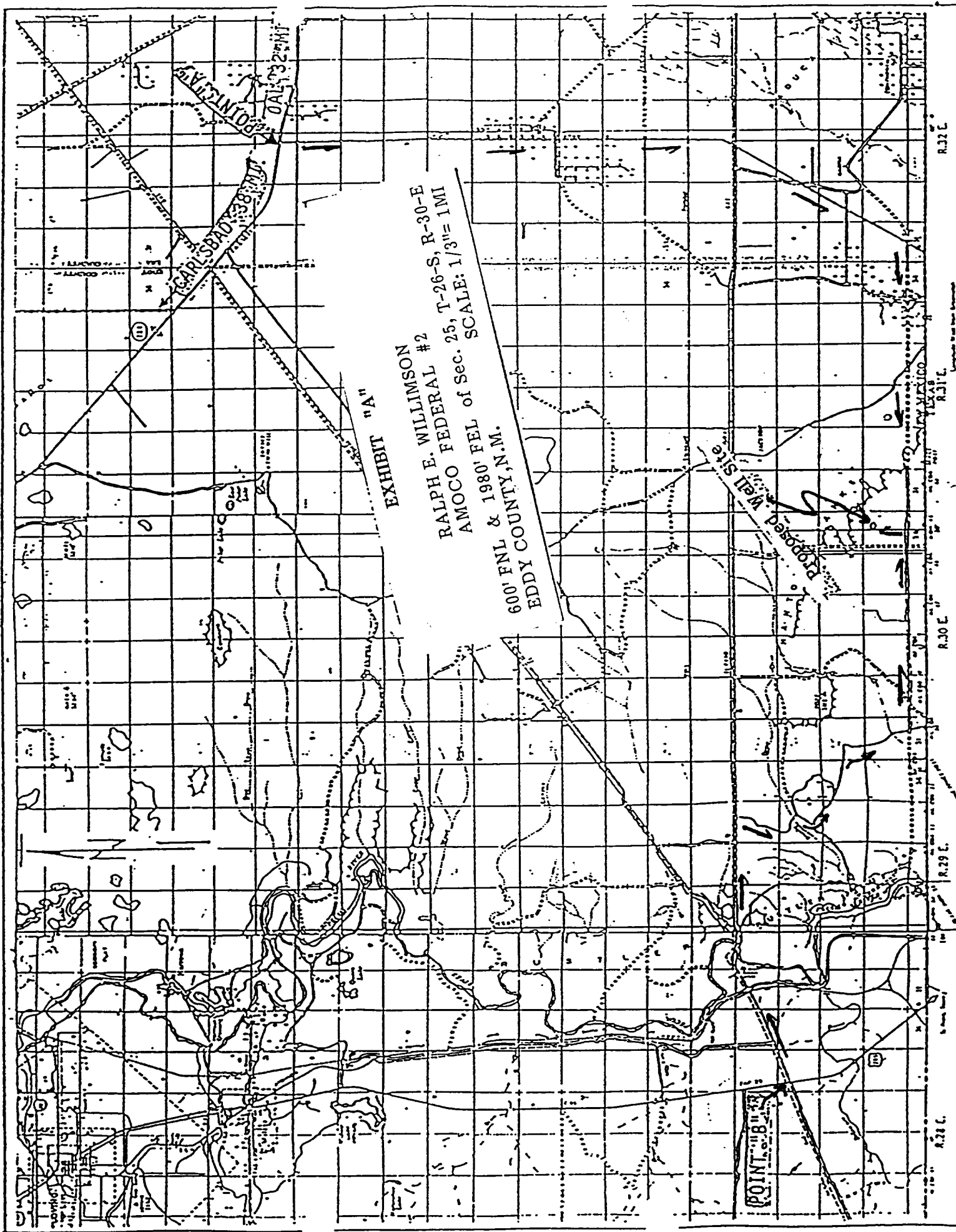


EXHIBIT "A"

RALPH E. WILLIMSON  
RALPH E. WILLIMSON #2  
T-26-S, R-30-E  
AMOCO FEDERAL of Sec. 25, T-26-S, R-30-E  
SCALE: 1 1/3" = 1 MI

600' FNL & 1980' FEL  
EDDY COUNTY, N.M.

POINT "B"

PROPOSED Well Site

R.32 E

R.31 E

R.30 E

R.29 E

R.28 E

EXHIBIT "D"  
RALPH E. WILLIAMSON  
AMOCO FEDERAL #2  
660' FNL & 1980' FEL of  
Sec. 25, T-26S, R-30E  
Eddy County, New Mexico

