Displaced oil in 52" casing and 2-3/8" tubing w/160 bbls water. Pulled 2-3/8" tubing, mixed 360 bbls 45 viscosity mud. Ran HOWCO 52" DM cement retainer on tubing. Set retainer at 7700', mixed and pumped 250 sacks regular Neat Trinity cement thru tubing, pumped 10 bbls water ahead of emment. Formation broke down w/2800# pressure, back to 2200#. Squeezed 130 sacks below retainer w/3000# maximum pressure. Picked up tubing 2' above retainer and back washed 118 sacks cement. Mixed 800 bbls 12# 55 viscosity mud, tested perforation gun lubricator w/2000# pressure, OK. Perforated 52" casing at 7400' w/6, 3/8" jet holes by Welex. Killed well w/770 bbls mid, pumped thru perforations at 7400' w/2 HOWGO pump trucks. Ran HOWCO 51" DM squeeze cement retainer on tubing. Set retainer at 7350' and cemented thru tubing and perforations in 52" casing at 7400' w/355 sacks Trinity Regular Neat cement. Maximum pressure 1100#. Drop bar and closed valve in retainer OK. Backed off and displaced 15' of cement on top retainer, reversed out 25 sacks cement, pulled tubing. Ran HOWCO temperature survey in 12 hours, top cement behind 52" casing at 5392', WOC 36 hours. Perforated 5h" casing at 6200' w/4, 3/8" jet holes by Welex. Ran HOWCO 52" DM cement retainer on tubing, set at 6150'. Broke formation down w/2200# pressure back to 1600#, pumped 20 bhls water into formation at 1 bbl per minute w/1600#. Mixed and pumped 300 sacks Regular Neat Longhorn cement, staged 279 sacks into formation thru perforations in 52" casing at 6200'. Maximum pressure 3000#. Left 7 sacks in casing below retainer. 2 sacks on top retainers and reversed out 12 sacks. Ran HOWCO temperature survey in 6 hours, no cement show above 5392'. Cut 52" casing at 5342' w/McCullough jet cutter, pulled 5%" casing, recovered 164 joints 5334'. Plug in hole, Heavy mad from 6135' to 5200', 31 sacks cement plug from 5200' to 5100'. Heavy mud from: 5100' to 2850', 37 sacks cement plug from 2850' to 2750'. Heavy mud from 2750' to 2250', 18 sacks cement plug from 2250' to 2200'. Heavy mud from 2200' to 50', 18 sacks cement plug from 50' to surface. Installed 4" pipe marker extending 4' above surface.

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