

**R. H. WININGER**

DRILLING CONTRACTOR

2210 EAST WAVERLY STREET

TUCSON, ARIZONA

September 17, 1958

Crawford #1 Began drilling Sept. 11, 1950

0-23' Gravel and boulders  
 23-32 Sand  
 32-230 Sandstone and grey shale  
 230-240 Water, sand, some gas  
 240-275 Water, sand water raised 20' from top  
 275-480 Sandstone and grey shale  
 480-490 Sand, a little gas  
 490-545 Grey shale  
 545-575 Sand making some water and gas  
 575-590 Shale  
 590-605 Sandy shale Hole bailing 5 bailers water per hour  
 605-740 Sandstone and shale  
 740-800 Gas sand making gas at top, water deeper (750,000 cu. natural)  
 800-835 Grey shale  
 835-905 Grey shale set 8" pipe at 905'  
 905-1190 Grey shale  
 1190-1225 Dark brown shale  
 1225-1285 Grey shale streaks of coal  
 1285-1292 Sand (approx. 140,000 cu ft odorless gas)  
 1292-1350 Dark brown shale  
 1350-1450 Grey shale  
 1450-1510 Dark shale streaks of coal  
 1510-1515 Coal and water Set 7" o.d. pipe and ran 50 sacks of cement at 1520'  
 1515-1520 Sandstone  
 1520-1542 Gas sand gaged approx 275,000 cu ft  
 1542-1555 Shale  
 1555-1600 Hard sandstone layers or soft sppts gaged approx. 300,000 cu ft gas  
 Shot 280 qts glycerine  
 Total Depth 1610 Gaged 1,020,000 cu ft gas  
 Rock Pressure 450 lbs.