

# R. H. WININGER

DRILLING CONTRACTOR

2849 ORACLE ROAD

TUCSON, ARIZ.

Log on Hartman No. 1

Started drilling Oct. 27, 1950 - Completed Nov. 30, 1950

0 - 7 ' Soil  
 7 - 23 Sand  
 23 - 150 Sandstone  
 150 - 350 Water sand, artesian water  
 350 - 365 Shale, set 10" pipe at 365  
 365 - 405 Gray shale  
 405 - 412 Sand, little gas  
 412 - 495 Gray shale  
 495 - 515 Water sand, about 50 gallon water per hour  
 515 - 570 Gray shale  
 570 - 650 Sandy shale  
 650 - 680 " "  
 680 - 750 " "  
 750 - 820 Sand making water and gas  
 820 - 875 Shale, run 8" pipe at 875  
 875 - 915 Shale  
 915 - 1075 Gray shale  
 1075 - 1095 Dark brown shale  
 1095 - 1290 Gray shale  
 1290 - 1315 Hard sandstone  
 1315 - 1335 Coal, approximately 5 barrels water per hour  
 1335 - 1350 Dark brown shale  
 1350 - 1400 Sand, shale breaks  
 1400 - 1420 Coal, more water  
 1420 - 1472 Sand, some gas, 7" pipe set at 1423  
 Shot 240 Qts. Nitro