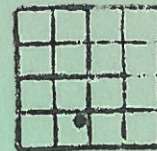


W. L. HARTMAN & TULSA OIL CORP.
Waite No. 4.

SEC. 21 T. 31 R. 4E
NE SE SW

Total Depth. 3284'
Comm. 3-12-39 Comp. 4-1-39
Shot or Treated.
Contractor. Cetal Drlg. Co.
Issued. 5-6-39

County. Cowley



CASING:
10" 54'4"
7" 3258'5"

Elevation.

Production. Pot. 6945 B.

Figures Indicate Bottom of Formations.

surface clay	25	lime hrd	3030
sand hrd	40	shale	3037
brkn lime	59	shale & lime(blk)	3083
lime	90	lime	3179
lime shells & shale	160	shale green	3185
shale & shells	280	lime	3205
lime	310	lime brkn	3215
shale	335	shale	3243
shale & lime shells	445	lime	3247
lime	470	shale	3272
red bed & shells	480	lime	3284
lime shells & shale	575	Total Depth.	
shale & shells	860		
lime	880		
lime brkn	910		
shale & shells	1130		
lime	1165		
shale & shells	1250		
sdv lime	1290		
shale & shells	1405		
lime	1425		
shale & shells	1485		
lime	1500		
sdv shale	1550		
shale & shells	1675		
sdv lime	1705		
shale	1910		
sdv shale	2075		
shale hrd	2135		
lime	2155		
shale	2358		
sdv lime, oil show	2367		
sdv lime & shale	2395		
lime	2440		
shale & lime	2465		
lime	2572		
shale	2612		
lime	2615		
shale	2623		
sand, sh gas	2637		
shale & lime shells	2685		
lime	2715		
shale hrd	2725		
shale	2741		
lime	2750		
brkn lime & shale	2768		
lime	2769		
shale & lime	2810		
shale & shells	2875		
shale	2895		
lime	2925		
shale	2933		
sand	2938		
shale	2941		
sand	2944		
shale	2953		
lime (chat)	2961		
sdv lime	2968		
lime	2990		
chert	3007		