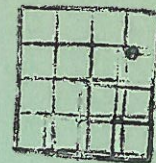


CITIES SERVICE OIL
Hamilton No. 23

SEC. 14 T. 26 R.4E
NW SE NE
992.1' N 985'W of E/4 Cor.

Total Depth. 2443'
Comm. 3-16-38 Comp. 4-16-38
Shot or Treated. 1000 Gals.
Contractor. Preston Straight
Issued. 6-4-38

County. Butler



CASING:

15 $\frac{1}{2}$ " 46'
12 $\frac{1}{2}$ " 771'P
10 $\frac{3}{4}$ " 1565'P
8 $\frac{1}{4}$ " 2100'SIM
7" 2411'

Elevation.

Production. 50 B.O.,
No Wtr.

Figures Indicate Bottom of Formations.

lime	20	lime	1030	wtr sand	2085
shale	40	shale	1100	lime	2102
lime	100	lime	1135	SLM Corr. 2102=2100	
shale	125	slate	1140	lime	2108
slate	140	lime	1170	shale	2110
red rock	145	shale	1195	lime	2130
lime	185	lime	1200	shale	2135
red rock	195	slate	1210	lime	2180
lime	200	lime	1240	shale	2320
shale	225	shale	1245	slate	2340
lime sdy	235	lime	1265	lime	2363
shale	260	shale	1320	red rock, grey sdy	
lime	270	lime	1370	shale	2370
shale	275	shale	1375	shale blk	2384
lime	300	lime	1385	shale green mica	2386
slate	305	shale	1405	shale grey	2401
shale	325	lime	1445	green shale & chert	2405 $\frac{1}{2}$
lime	370	shale	1465	lime cherty	2408
shale	390	lime	1480	dolomitic lime	2443
lime	430	shale	1510	Total Depth.	
slate	435	lime	1515		
lime	460	shale	1540	Top Arbuckle 2406	
shale	550	slate	1565	Penetration 37	
slate	565	lime	1568	T.D. 2443	
lime	575	slate	1610		
slate	585	shale	1625	Filled up 550' in 14 hrs.	
red rock	595	lime	1645	Best pay 2438-43	
shale	770	SLM Corr. 1645=1649			
lime	800	sdv shale	1660	Wtr Record	
shale	830	lime	1690	5 BWPB 345-50	
lime	855	slate	1700	4 BW 570	
slate	865	shale muddy grey		2 BW 955	
lime	875	green	1745	1 BW 1805	
slate	880	lime	1875	6 BW 2070-85	
slate muddy	945	shale	1890		
shale	955	sdv shale	1900		
sand wtr	960	SLM Corr. 1907=1913			
shale	980	slate drk	1940		
lime	1005	lime	1943		
shale	1010	sdv shale blk	1995		
lime	1015	shale	2003		
shale	1020	lime	2070		