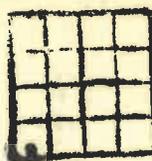


POLHAMUS, HOWELL, SHAFFER, & SHIELDS  
Mathews No. 1.

SEC. 19 T. 17 R. 10W  
CSL SW SW  
330' fr SL 660' fr WL

Total Depth. 3317'  
Comm. 6-29-39 Comp. 8-10-39  
Shot or Treated.  
Contractor. R.H. Shields  
Issued. 10-14-39

County. Ellsworth



CASING:  
15" 260' 7" 3277'  
12 1/2" 582'  
10" 1943'  
8" 2995'

Elevation.

Production. Pot. 273 B.

Figures Indicate Bottom of Formations.

cellar	10	lime	1920	shale	3240
shale	15	red rock	1940	lime	3255
clay yellow	50	lime	1965	shale	3260
sand	55	shale & lime	2000	lime	3262
clay yellow	90	shale blue	2005	shale	3265
clay red	125	shale red	2025	lime	3270
shale	140	lime	2045	red rock	3279
sand	175	lime & shale	2065	lime	3283
red rock	180	shale & shells	2085	sand SIM 3287=3287	3287
shale blue	200	lime	2100	conglomerate	3314
sand	250	shale & lime	2130	lime wtr 3314-17	3317
shale blue	260	shale & shells	2145	Total Depth.	
shale	265	lime	2155		
shale sdy	275	shale	2175	hole filled 250' @ 3283	
shale blue	370	lime	2180	hole filled 2300' 3281-85	
red rock	420	shale	2190		
shale red	475	lime	2215	Top Anhydrite 582	
red rock	550	shale	2225	Top Topeka 2610	
lime	555	lime	2235	Top K.C. lime 2972 Corr.	
shale blue	565	shale	<del>2255</del>	Top Arbuckle 3281	
redrock	575	lime	2260		
lime	605	shale	2310		
redrock	795	lime	2330		
shale gy	830	shale	2375		
shale	895	lime	2400		
red rock	920	shale	2415		
shale	930	lime	2430		
shale blue	1030	shale	2445		
salt	1035	lime	2460		
salt & shells	1095	shale	2465		
salt	1280	lime	2470		
shale	1300	shale	2520		
lime shells & shale	1375	lime	2550		
salt & shells	1380	shale	2555		
lime	1395	lime	2585		
shale	1405	shale Top Topeka	2610		
lime	1410	lime	2715		
shale gy	1415	shale	2730		
lime	1445	lime	2865		
shale	1450	shale	2870		
lime	1480	lime	2887		
shale & shells	1500	slate	2893		
lime	1530	lime shells	2900		
shale & shells	1540	shale -Top K.C.lime-	2965		
red rock	1550	SICorr. 2965=2972			
lime	1670	lime	2982		
lime sdy	1685	shale	2992		
lime	1705	lime	3060		
red rock	1715	lime sft LBW	3061		
lime brkn	1735	lime	3070		
lime	1740	lime wh	3074		
shale red & blue	1745	lime	3095		
lime	1775	shale & lime	3105		
shale blue	1790	lime	3130		
lime	1805	shale blk	3132		
shale	1810	lime	3137		
lime	1820	shale blue	3140		
red rock	1825	lime	3150		
lime	1845	shale sh gas 3160-65	3160		
red rock	1858	lime	3232		