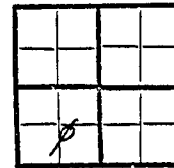


KANSAS GEOLOGICAL SOCIETY
KANSAS WELL LOG BUREAU - KANSAS WELL SAMPLE BUREAU
 KANSAS GEOLOGICAL SOCIETY BUILDING
 508 EAST MURDOCK - WICHITA, KANSAS

COMPANY O. A. Sutton
 FARM HILL NO. ONE
 RIG. NO. 15
 TOTAL DEPTH 3320'
 COMM. 12-14-67
 SHOT OR TREATED
 CONTRACTOR MURFIN DRILLING COMPANY
 ISSUED 1-27-68
 SEC. 13 T. 13S R. 14W
 LOC. NW SE SW
 COUNTRY Russell - Kansas
 KANSAS



CASINO
 20 10
 15 8 5/8" @ 228' w/175 SX
 12 6
 13 5
 ELEVATION 1827' KB
 PRODUCTION D & A /ARB

FIGURES INDICATE BOTTOM OF FORMATIONS

15	Top Soil	
45	Post Rock	
70	Sand Stone	
237	Shale & Sand	
350	Shale w/Pryrite	
381	Pryrite & Shale	
450	Shale	
730	Shale & Red Bed	
830	Red Bed & Shale	
870	Anhydrite	
1375	Red Bed - Shale & Shells	
1497	Shale & Shells	
2298	Lime & Shale	
2770	Shale w/Lime	
3014	Lime w/Shale	
3116	Lime	
3167	Lime w/Shale	
3220	Lime	
3278	Lime & Shale	
3320	Arbuckle	
3382	? RTD	

TOPS: SCOUT

Tarkio	2372
L/Tarkio	2391
Tarkio Lm	2430
Elmont	2492
Howard	2636
Topeka	2662
Heebner	2931
Top	2948
Lansing	2987
B/Kansas C	3252
Arbuckle	3283



State of KANSAS
 County of SEDGWICK

I, James R. Daniels of the MURFIN DRILLING Company

upon oath state that the above and foregoing is a true and correct copy of the log of the HILL #1 well.