

28-16-19W

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

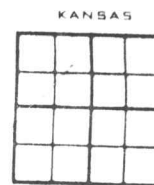
COMPANY MONARCH OIL & GAS CO.

SEC. 28 T. 16 R. 19W
 LOC. SE SW NW

FARM Littler NO. 1

TOTAL DEPTH 3860'
 COMM. 6-19-68 COMP. 6-27-68
 SHOT OR TREATED
 CONTRACTOR Sage Drlg. Co.
 ISSUED 8-24-68

COUNTY Rush



CASING

20	10	
15	8 5/8	258' w/200 sx cem.
12	6	
13	5	

ELEVATION 2064' KB

PRODUCTION DRY/ARB.

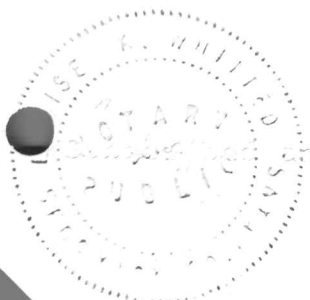
FIGURES INDICATE BOTTOM OF FORMATIONS

Top Soil & Sand	0	48	TOPS: SCOUT	
Pyrite Sand	48	89	Anhydrite	1307
Hard Sand & Shale	89	130	B/Anhydrite	1348
Shale	130	260	Heebner	3395
Shale & Red Bed	260	750	Toronto	3413
Dakota Sand	750	960	Lansing	3440
Shale	960	1307	B/Kansas City	3697
Anhydrite	1307	1348	Marmaton	3730
Shale	1348	1715	Arbuckle	3803
Lime & Shale	1715	2780		
Shale & Lime	2780	3135		
Lime & Shale	3135	3814		
Lime	3814	3824		
Lime, Shale & Chert	3824	3860		
			D&A	

I certify that this is a true and correct copy of the above log to the best of my knowledge.

SAGE DRILLING CO., INC.

BY Wayne W. Kalmeyer
 Wayne W. Kalmeyer



and sworn to before me this 1st day of July, 1968.

Louise K. Whitted
 Louise K. Whitted, Notary Public