

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

7-1-33W

COMPANY EMPIRE DRILLING

SEC. 7 T. 1 R. 33W
LOC. NW NW NE

FARM R. H. Palmer NO. 1

COUNTY Rawlins

TOTAL DEPTH 4192'

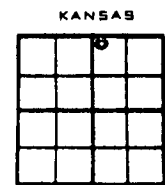
COMM. 3-25-67

COMP. 4-5-67

SHOT OR TREATED

CONTRACTOR Empire Drllg.

ISSUED 5-27-67



CASING

20	10	
15	8 5/8" 209'	cem w/ 100 sx
12	6	
13	5 1/2" 4190'	cem w/ 125 sx

ELEVATION 3015' KB

PRODUCTION 141 BOPD, NW,
4107-13- grav 36

FIGURES INDICATE BOTTOM OF FORMATIONS

0	to	220	Surface-Shale
220	to	750	Shale
750	to	1740	Shale & Bentonite
1740	to	2090	Shale & Sand
2090	to	2265	Shale & Gypsum
2265	to	2428	Gypsum & Sand
2428	to	2620	Gypsum-Shale
2620	to	2642	Shale
2642	to	2656	Blaine Gypsum
2656	to	2820	Redbed
2820	to	2848	Shale
2848	to	2887	Anhydrite
2887	to	3450	Lime & Shale
3450	to	3925	Lime
3925	to	3938	Lime & Sand
3938	to	4115	Lime
4115	to	4160	Lime & Shale
4160	to	4195	Lime
4195			Rotary Total Depth

SET: 209' of 8 5/8" with 100 sacks cement.
4190' of 5 1/2" with 125 sacks cement.

SCHLUMBERGER ELECTRIC LOG TOPS:

Topeka	3704	-689
Deer Creek	3750	-735
Oread	3821	-806
Base Leavenworth	3869	-854
Douglas Sand	3877	-862
Lansing	3908	-893
Top Sandy Zone	3929	-914
Base Kansas City	4167	-1152
Log Total Depth	4192	

C E R T I F I C A T I O N

I, Dan J. Kornfeld, do hereby certify that the above and foregoing is a true and correct copy of the log on the R. H. Palmer #1, NW NW NE Section 7-1-33W, Rawlins County, Kansas, as reflected by the files of Empire Drilling Company.