

WELL LOG

27-16-21W
SE-SW-NW

CHIEF DRILLING CO., INC.
905 Century Plaza
Wichita, Kansas 67202

#2 Shineman
SE SW NW Sec. 27-16S-21W
Ness County, Kansas

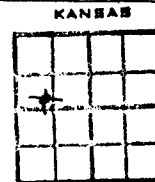
CONTRACTOR: Chief Drilling Co. Inc.
CASING RECORD: 8 5/8" set @ 257' cemented
w/175 sacks Common Quick Set

COMMENCED: 2/17/76
COMPLETED: 2/26/76

FORMATION	FROM	TO
Sand-Shale	0	270
Shale-Sand	270	1170
Shale	1170	2220
Shale-Lime	2220	2425
Shale	2425	3275
Shale-Lime	3275	3480
Lime	3480	4136
Total Depth	4136	

ELEVATIONS

2252 Gr.
2254 D.F.
2257 K.B.

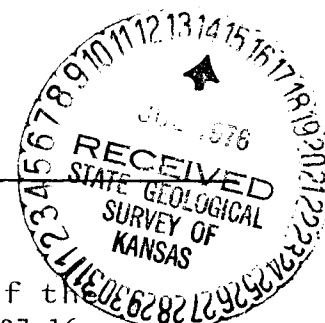


FORMATION TOPS

Anhydrite	1541 + 716
Base Anhydrite	1571 + 686
Heebner	3632 - 1375
Lansing	3675 - 1418
Base Kansas City	3957 - 1700
Pawnee	4025 - 1768
Ft. Scott	4118 - 1861
Cherokee Shale	4124 - 1867
Cherokee Sand	4129 - 1872
RTD	4136 - 1879

STATE OF KANSAS, COUNTY OF SEDGWICK) ss:

I hereby certify that the above is a true and correct copy of the Driller's Log of the well drilled in the SE SW NW of Section 27-16-21W, Ness County, Kansas, to the best of my knowledge and belief.



CHIEF DRILLING CO., INC.

Jim Robinson
Jim Robinson, Vice-President

Subscribed and sworn to before me this 27th day of February, 1976.

MARILYN SINARD
STATE NOTARY PUBLIC
SEDGWICK COUNTY, KANSAS
MY COMM. EXP. APR. 30, 1977

Marilyn Sinard
Marilyn Sinard - Notary Public