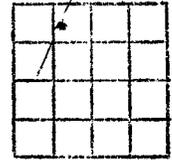


Company- NATIONAL COOPERATIVE REF. ASSN
 Farm- Harbacek No. 5

SEC. 7 T. 16 R. 10W
 CW/2 NE NW

Total Depth. 3966
 Comm. 10-14-52 Comp. 11-7-52
 Shot or Treated.
 Contractor. Ash-Mar Drilling Co.
 Issued. 12-6-52

County Ellsworth
 KANSAS



Elevation. 1857
 (360 (and))

Production. SWDW

CASING:

8 5/8" 355'
 5" 3442'

Figures Indicate Bottom of Formations.

surface clay	20
lime, sand, gravel	120
shale, shells	530
red bed	680
anhydrite	720
shale	980
shale, shells	1100
salt	1180
shale, shells	1380
lime, shale	1725
shale, shells	1755
shale, lime	1870
lime, shale	2075
shale, shells	2525
shale, sand	2570
shale, shells	2770
lime, shale	2814
lime	2950
shale	2960
shale, lime	3047
lime	3067
lime, shale	3136
lime	3284
lime, shale	3337
lime	3474
lime, chert	3502
lime	3678
lime, chert	3703
lime	3799
conglomerate	3805
shale	3826
lime	3837
granite wash	3850
shale, conglomerate	3876
shale	3903
conglomerate	3925
conglomerate, shale	3966
Total depth	

Tops: Scout.

Anhydrite	700
Heebner	2903
Brown Lime	3001
Lansing	3022
Arbuckle	3334
Granite Wash	3827