

WELL LOG BUREAU--KANSAS GEOLOGICAL SOCIETY
 508 East Murdock, Wichita, Kansas

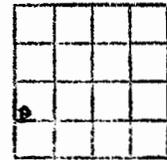
13-3-19w

Company- PHILLIPS PETROLEUM CO.
 Farm- Grau No. 1

SEC. 13 T. 3 R. 19W
 SW NW SW

Total Depth. 3514
 Comm. 10-16-51 Comp. 12-20-51
 Shot or Treated.
 Contractor.
 Issued. 2-2-52

County Phillips
 KANSAS



Elevation. 1996 D.F.

Production. I.P. Phy. Pot. 78
 bbls. & 72 wtr.

Figures Indicate Bottom of Formations.

CASING:
 8" 226 cem. w/225 sx.
 5" 3330 cem. w/150 sx.

surface clay	60
shale & shells	235
shale	735
shale & sand	1225
shale & red bed	1497
anhyd.	1520
shale & shells	2070
lime & shale	3220
cherty lime & shale	3265
lime & shale	3514
Total Depth	

Tops:

Howard	2878
Topeka	2905
Silt zone	2968
Heebner	3076
Toronto	3098
Lansing-K.C.	3116
Base K.C.	3336
Congl.	3472
Reworked Arb,	3483
Arb.	3488

The following zones have been
 perf. and are open: 3150-62;
 3116-28-; 3306-18; 3282-96; 3265-75.