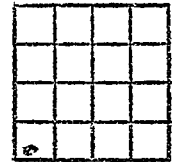


Company- MCNEISH & GRALAPP
 Farm- Bird No. 1

SEC. 15 T. 33 R. 3E
 SW SW SW

Total Depth. 3278
 Comm. 4-22-53 Comp. 5-15-53
 Shot or Treated.
 Contractor. Watson Drlg. Co. Inc.
 Issued. 7-25-53

County, Cowley KANSAS



CASING:

8 5/8" 85' cem. w/60 sx
 5 1/2" 3268' cem. w/150 sx

Elevation. 1147

Production. Pmp. 25 BO

Figures Indicate Bottom of Formations.

shale	40
lime & shale	70
lime	110
lime & shale	575
red rock	650
lime & shale	2185
sand & shale	2280
sandy lime & shale	2360
shale & lime	2505
shale	2615
sand	2682
shale & lime	2754
shale	2772
lime	2814
shale	2858
lime	2884
lime & shale	2963
lime	3077
shale & lime	3128
shale & lime strks	3157
sandy shale & coal	3174
shale & lime strks	3189
shale	3210
red rock	3213
shale	3242
Core #1 3242-3259	
shale 3242	3257
Bart. sand 3257	3258 sat.
Miss. chat 3258	3272
chat & chert	3272
chat & chert	3278
Total Depth	

Scout Tops:

Layton	2616
Kansas City	2774
Bart.	3261
Miss. Lime	3262

Dumped Cal Seal 5-10- (4 ft.)
 Perforated 3168 to 3175 (48 shots)
 Sand frac 5-12 well flowing