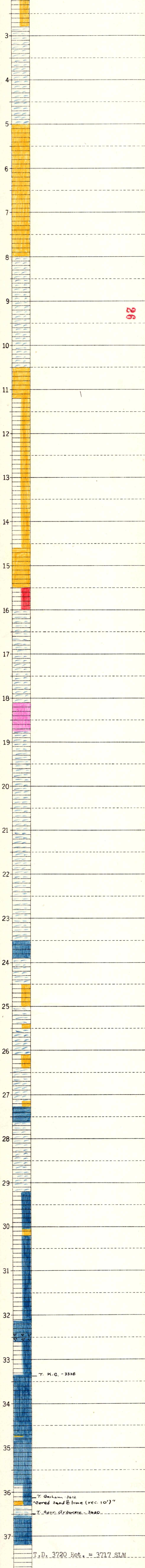


Contr. Helmerich & Payne, Inc.

STATE Kansas		FIELD	
COUNTY Norton		COMPANY Cities Service & Helmerich & Payne	
SEC. 26	WELL NO. 1	Hansen "D"	
T. 5	R. 21W	DATE COM. 3-7-45	DATE COMPL. 3-20-45
		FOOTAGE LOG. CSW NW 660'N 660'E of W/4Cor.	
26		SHOT QUARTS BETWEEN	
		ACID GALS. BETWEEN	
ALT.		CASING 10-3/4" 5 1/2"	148' Cem. 3717' Cem.
INIT'L. PROD.		REMARKS Phy. Pot. 102 BO, 5% wtr in 24 hrs.	
T.D.		3720 Rot.- 3717 SLM	

"DISCOVERY WELL"



(OVER)

"Perf. 8 shots 3638-45', rotary mud.
8 shots 3646-53'; 100' mud & wtr. &
show oil in 15 mins.
11 shots 3650-54'; 150' fluid in
45 mins., 2308' fluid (mud, oil & wtr)
in 2 $\frac{1}{4}$ hrs.
11 shots 3650-54'; 2800' fluid in
3 hrs.

Set retainer @ 3611' & squeezed w/128
sacks cement; 118 sacks through per-
forations @ 1000 # to 3000 # pressure.

Drilled cement to 3697 SLM

Perf. 12 shots 3650-54'; $\frac{1}{2}$ B fluid,
good show oil, in 15 mins.
12 shots 3650-54'
12 shots 3654-56'; 100' fluid in 30
mins. 500' fluid (mostly oil) in
1 $\frac{1}{4}$ hrs., 1200' fluid (135' wtr & 1065'
oil) in 12 hrs.
Water exhausted.
Swbd 5 bbls oil per hr. through tbg."