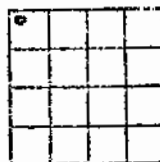


33-31-1W

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

COOPERATIVE REFINERY ASSOCIATION &
Company- SUNRAY MID-CONTINENT COMPANY
Farm- Wellington Unit No. 136-A

SEC. 33 T. 31 R. 1W
NW NW NW
432' E of WL & 320'
S of NL
County Sumner KANSAS



Total Depth. 3691' Sch. 3699' RTD
Comm. 12-13-56 Comp. 12-30-56
Shot or Treated.
Contractor. Veeder Supply and Development Company
Issued. 5-18-57

CASING:

8 5/8" @318.50' w/240 sx cem.
5 1/2" @3666' w/100 sx cem.

Elevation. 1261' RB

Production. 3 BOPD

Figures indicate Bottom of Formations

surface soil	20
shale	40
lime & shale	230
lime	255
shale & lime	2248
shale	2686
sand	2785
shale	3025
lime	3073
Kansas City lime	3177
lime & shale	3215
lime	3239
lime & shale	3450
lime	3461
lime & shale	3654
Core #1	3658 1/2
Core #2	3659
Reaming	3659
Core #3	3664
Reaming	3664
Core #4	3675
Reaming	3675
Core #5	3699 RTD

Total Depth
Schlumberger T.D. 3691

TOPS (all Tops are corrected
to Schlumberger measurements
and are from rotary bushing.)
Stalnaker (Scout) 2686
Kansas City 3025
Mississippi Chert
("A" Zone) 3645
Mississippi Dolomite
("B" Zone) 3664

CORE RECORD
Core #1 3654-58 1/2
Rec. 4 1/2 on 2 tries,
(Mississippian Chert)
Core #2 3659-64'
Rec. 5'
Core #3 3664-3674'
Rec. 10'
(Mississippian Dolomite)
Core #4 3674-99'
Rec. 24.35'

Remarks:
Preproduction Formation-
Mississippi Dolomite ("B" Zone);