3-16-10W

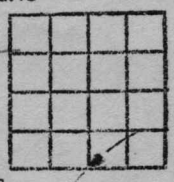
WELL LOG BUREAU--KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

Company. HENRY BENNETT
Farm- Lank "A" No. 1

SEC. 3 T. 16 R. 10W
SW SW SE

Total Depth. 3432
Comm. 5-31-55 Comp. 6-11-55
Shot or Treated.
Contractor. Salina Drilling Corporation, Inc.
Issued. 8-27-55

County Ellsworth
KANSAS



CASING:
8 5/8 350' w/ 175 sx cmt.

Elevation. 1850 DF

Production. Dry

Figures Indicate Bottom of Formations.

cellar	8
shale & red bed	253
shale	549
red bed	654
shale & shells	1420
lime & shale	2215
shale & lime streaks	2883
shale & sand	2987
lime	3278
lime & shale	3371
lime	3399
sand	3400
shale & sand	3412
lime	3432
Total Depth	

TOPS:

Heebner	2883
Toronto	2903
Douglas	2914
Brown lime	2987
Lansing-KC	3004
Base KC	3278
Viola	3371
Simpson	3399
Arbuckle	3412

3-16-10 W

OFFICE PHONE AMherst 2-2992
RESIDENCE PHONE MUrray 4-4423

ROBERT W. FRENSLEY
PETROLEUM GEOLOGIST
102 G INSURANCE BUILDING
WICHITA, KANSAS

June 13, 1955

H. C. Bennett
Lank "A" No. 1 SW SW SE
Section 3-T16S-R10W
Ellsworth County, Kansas

Elevation 1853 Kelly bushing (depth datum)

Commenced: June 1, 1955
Completed: June 11, 1955 as a dry hole

8-5/8 inch casing cemented at 354 feet with 175 sacks.

GEOLOGICAL REPORT

The following are the important geological markers, zones of indicated porosity, shows of oil, and other pertinent data as determined by the appearance of the drill cuttings, changes in the drilling rate, the results of the drill stem test and the Halliburton Radiation Guard log.

Top Anhydrite (drillers) 654 (+1199)

2705-2713) Tan-buff, medium crystalline, slightly dolomitic
2717-2720) lime. Fair intercrystalline porosity. No shows of oil.

2800-2815 Light grey, medium crystalline, slightly dolomitic lime. Some broken intercrystalline porosity. No shows of oil.

2823-2827 Light grey, medium crystalline, slightly oolitic lime. Some oolitic porosity. No oil shows.

2842-2849 Cream-grey, fine to medium crystalline lime; some fair intercrystalline porosity with very poor black asphaltic staining.

Top Heebner Black Shale 2880 (-1027)

Top Toronto 2900 (-1047)

2900-2910 Tan-buff, fine-medium crystalline lime.

Top Douglas Group 2910 (-1057)

2910-2931 Red and grey silty shales.

2931-2974 Light grey, fine-medium grained, micaceous, friable, shaley in part broken sandstone.

2974-2984 Red and grey silty shales.

Top Brown Lime 2984 (-1131)

3-16-10W

Top Lansing-Kansas City 3002 (-1149)

3003-3005 Cream-white, finely crystalline, oolitic and oocastic lime. Fair oocastic porosity. No oil staining, odor or fluorescence.

3009-3013 Cream, finely crystalline lime. Fair intercrystalline porosity. No oil staining, odor, or fluorescence.

3053-3058 Cream, finely crystalline, oolitic lime. Some oolitic porosity. No oil shows, odor or fluorescence.

3079-3083 Light grey, finely crystalline, slightly oolitic lime. Some poor oolitic porosity. No oil shows, odor or fluorescence.

3087-3112 Cream-tan, medium crystalline, slightly dolomitic, very oocastic, slightly oolitic lime. Very good oocastic porosity; no oil shows, odor or fluorescence.

3156-3160 Cream-grey, finely crystalline, oolitic lime. Some poor oolitic porosity. No oil shows, odor or fluorescence.

3178-3186 Cream-buff, finely crystalline, very oocastic (fine casts) lime. Good oocastic porosity. No oil stain, odor or fluorescence.

3220-3226 Cream-grey, medium crystalline lime with intercrystalline porosity.

Base Kansas City 3276 (-1423)

Top Cherty Conglomerate 3324 (-1471)

3324-3347 Varicolored, fresh and weathered cherts in variegated sub-waxey shale matrix.

3370-3372 White-clear, fine-grained, rounded, well-sorted, friable, calcareous in part sandstone. No oil staining, odor or fluorescence.

Top Viola 3372 (-1519)

3372-3389 Cream-buff and light grey, medium-coarsely crystalline limey dolomite with cream, opaque, smooth and rough chert.

Top Simpson 3389 (-1536)

3389-3392 Dark green, sub-waxey, fissile shale.

3392-3395 Clear, medium grained, well sorted, friable sandstone. No oil shows, odor or fluorescence.

3395-3406 Dark green, waxey, pyritic, fissile shale.

3406-3410 Apple green, waxey, pyritic, fissile shale.

3410-3412 Clear-white, medium grained, well sorted, friable sandstone. No oil staining, odor or fluorescence.

3-16-10W

Top Arbuckle 3412 (-1559)

3412-3418 Tan-buff, medium crystalline dolomite. Some fair intercrystalline and vugular porosity with trace of very faint oil staining. Possible very faint flash odor. No free oil in wet sample, fair-good fluorescence.

Drill Stem Test No. 1 3413-3416

Open one hour. Fair blow throughout the test. Recovered 35 feet of oil (estimated 39° gravity) plus 210 feet of oil cut sulphur water.

Initial flow pressure	6 p.s.i.
Final flow pressure	110 p.s.i.
Shut in bottom hole pressure in 30 minutes	1085 p.s.i.
Initial hydrostatic pressure	2030 p.s.i.

3418-3430 Tan-buff and brown, medium-coarsely crystalline dolomite with fair broken vugular porosity. No oil shows or odor. Some cream-tan translucent chert.

3430-3432 Tan-buff, fine granular dolomite.

Total Depth 3432 (-1579)

Remarks:

Drill cuttings were examined and described on location from 2700 feet to total depth. Drilling was supervised from 2865 feet to total depth.

The relative structural position of the subject dry hole as compared to nearby wells is shown in the following table:

Formation	H. C. Bennett Lank "A" 1 SW SW NE Sec.3-16S-10W	Max Houston Funk No. 1 NW SW NE Sec.10-16S-10W	K & E Funk No. 1 SE SE NW Sec.10-16S-10W
Heebner	- 1027	- 1026	- 1027
Lansing	- 1049	- 1045	- 1152
B.K.C.	- 1423	- 1418	- 1418
Viola	- 1519	- 1503	- 1496
Simpson	- 1536	- 1514	- 1506
Arbuckle	- 1559	- 1539	- 1530

The Pennsylvanian tops of the Lank "A" No. 1 compared favorably with producing wells of the Progress pool to the south. The cherty conglomerate thickened enough to cause the Viola to drop off appreciably. The interval from the top of the Viola to the Arbuckle was only 4 feet greater than wells to the south. This indicates to the

t 3-16-10W

writer that the Progress Pool is a true structural closure of Ordivician rocks. Evidently a datum of -1559 is in very close proximity of the oil water contact.

In light of the fluid recovery on the drill stem test and the low structural position of the test, it was recommended that the hole be plugged and abandoned as dry.

Robt W Frensley

Robert W. Frensley