4-7-19W

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Bennett & Roberts #1 Riffe 'A'
NW SE SW Sec.4, T7S, R19W
Rooks County, Kansas

Elevation: 2009 D.F. 2012 R.B.
Casing Record: 8 5/8 @ 177 w/125 saxs
5½ @ 3501 w/125 saxs

Commenced: September 6, 1958
Completed: September 14, 1958

Total Depth: 3502 Rotary

SUMMARY OF FORMATIONS

(All Measurements Rotary Bushing)

Topeka Lime	2976	- 964
Heebner Shale	3173	-1161
Toronto Lime	3198	-1186
Lansing K.C.	3214	-1202
Base K.C.	3419	-1407
Weathered Arbuckle	3472	-1460
Arbuckle	3500	-1488
R.T.D.	3502	-1490

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Cores: None

Electric Log: Lane Wells, Gamma Ray-Neutron inside 5½" casing.

Drill Stem Tests:

#1 3218-32 — Prosser Testers Inc. single packer, 14' anchor. Tool open 1 hour, fair blow for 60 minutes, recovered 60' muddy oil, 60' froggy oil, 160' clean oil, 80' formation water. B.H.P. in 20 minutes, 995 p.s.i., I.F.P. 160 p.s.i., F.F.P. 240 p.s.i.

#2 3240-60 — Prosser Testers, single packer, 20' anchor. Tool open 1 hour, weak blow 5 minutes. Recovered 20' watery mud, no show. B.H.P. in 20 minutes, 265 p.s.i.

#3 3272-80 — Prosser Testers, single packer, 8' anchor. Tool open 1 hour, light blow 60 minutes, recovered 30' free oil, 20' heavily oil cut mud, 100' gas. B.H.P. in 20 minutes, 400 p.s.i., I.F.P. 0 p.s.i., F.F.P. 0 p.s.i.

#4 3487-94 — Prosser Testers, single packer, 5' anchor. Tool open 1 hour, weak blow 5 minutes, tool attempted to plug, flush tool after 45 minutes. Recovered 1' free oil, 14' lightly oil cut mud. B.H.P. in 20 minutes, 260 p.s.i., I.F.P. 0 p.s.i. F.F.P. 0 p.s.i.

SUMMARY OF POROUS ZONES

Basal Topeka

3148-53 — Limestone, cream, fine crystalline, finely fossiliferous, slight vugular porosity, very spotted dark stain and saturation. Locally this zone had a small show of oil on previous test. Zone indicates poor porosity and would require an acid treatment. Its commercial possibilities are very doubtful.

Toronto (3198)

3198-3210 — Limestone, gray, fine to medium crystalline, partly fossiliferous, slight to poor porosity, trace of stain, no odor or free oil.

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SUMMARY OF POROUS ZONES

Lansing K.C. (3214)

3217-20 Limestone, fine crystalline, finely fossiliferous and cherty, pinpoint finely vugular porosity, spotted fair to light stain and saturation. This zone was included in D.S.T. #1. Test.

3222-38 Limestone, buff, gray, fine crystalline, sucrose in part, fair finely vugular porosity, few pieces good solid stain and saturation to light staining. No odor. This zone was included in D.S.T. #1. Recommend additional testing.

3252-55 Limestone, gray, medium and fine crystalline, granular, finely vugular porosity, scattered light staining. This zone was included in D.S.T. #2 with negative results. Additional testing not recommended.

3272-77 Limestone, tan, fine-medium crystalline, finely fossiliferous, granular, spotted vugular porosity, light stain and saturation, fair show of free oil. This zone was included in D.S.T. #3.

3289-94 Limestone, cream, fine to subcrystalline, fossiliferous, partly oolitic, spotted finely vugular porosity, spotted light stain and saturation. This zone was made 1 BOPH after acid in Wicks' and Magnolia's wells. Perforate if EL shows reasonable amount of porosity.

3307-12 Limestone, tan, fine crystalline, fossiliferous and sucrose, pinpoint finely vugular porosity, light staining. Zone appeared to be of no commercial value, however Magnolia reported 3 to 5 BOPH after 5000 acid in this zone.

3348-52 Limestone, cream-tan, fine crystalline, matted fine fossiliferous spotted slight vugular porosity with light stain, no odor or free oil. This zone made 1 BOPH after 1000 acid in Wicks' well to the East. Believe that a successful D.S.T. was not possible.

3367-71 Limestone, lost circulation in this zone, could not test. Recommend perforating for additional testing.

3386-92 Limestone, buff, fine crystalline, fossiliferous and granular, fine vugular porosity, spotted fair stain and saturation, small show of free oil, no odor. This zone was included in D.S.T. #4. Believe that entire zone was not open in this test. Recommend additional testing.

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Weathered Arbuckle (3272)

3272-85 Dolomite, red, yellow, gray, fine crystalline, silty and shaley, no stain or odor.

3285-3500 Dolomite, red-yellow, tan, fine crystalline, weathered, some shale, scattered tar residue, no odor or free oil.

Solid Arbuckle (3500)

3500-02 Dolomite, gray-tan, fine to medium crystalline, granular, slight to poor finely vugular porosity, trace of heavy stain with trace of free oil, no odor. This zone correlates approximately to the oil zone encountered in Sierras test to the South. Believe that if same zone is developed in this test an increase in porosity and oil is expected within the next 7' of additional hole.

STRUCTURAL COMPARISON

Lansing: Well ran 4' lower than Sohio & Magnolia's wells to the Southeast, 6' lower than Wick's producing well to the East, Southeast, 1' higher than Sierra's dry hole to the South.

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STRUCTURAL COMPARISON

Weathered Arbuckle: Well ran level with Wicks' well to the Southeast which calls Arbuckle at this same minus.

Solid Arbuckle: Well ran 3' higher than Sierra's well to the South, 6' higher than Sohio and Magnolia's wells to the Southeast, 7' lower than Coop's #1 Harlan 3/4 miles to the Northwest.

REMARKS

5½" casing was set @ 3501 (-1489) to facilitate drilling into an expected Arbuckle pay with cable tools. Coop, 3/4 of mile Northwest, found 7½bbls of fluid 50% oil in the Arbuckle @ a subsea minus of -1495 to 1500. Sierra, 1/3 of a mile to the South, encountered 15' free oil with 30' H.O.C.M and 750 BHP in the Arbuckle from a subsea minus of -1492 to -1497.

Recommend testing all Lansing zones as noted above. Shows encountered above the Lansing are believed to have no commercial value.

Respectfully submitted,

J.F. Chase

J.F. Chase, Geologist

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