24-10-24W

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State Geological Survey
WICHITA BRANCH

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GEOLOGICAL SURVEY OF KANSAS

May 21, 1974

GEOLOGIC REPORT

Don Pratt No. 2 Page
110 feet east of
W/2 W/2 SE/4 24-10-24W
Graham County Kansas
Commenced: May 12, 1974
Completed: May 20, 1974

Pipe Record:
8 5/8 @ 167 w/150 sacks
4½ @ 3988 w/175 sacks
Anhydrite: 1998-2034
Drilled by: Murfin Rig 15

ELEVATION 2385 K.B.

2380 Ground 2382 D.F.

FORMATION DATA
(Corrected to Welex Log)

FORMATION	MINUS DATA	DEPTH
Topeka	-1089	3474
Heebner	-1301	3686
Toronto	-1323	3708
Lansing-K.C.	-1337	3722
Kansas City Base	-1570	3955
Rotary T.D.	-1605	3990

NOTICE: This well compared to the well producing 990 feet north is 3 feet higher on the Anhydrite, 7 feet higher on the Topeka, 15 feet higher on the Heebner & Lansing-K.C., 9 feet higher on "G" Base showing it thickened 6 feet in 130 feet and then thinned one foot to the K.C. Base where it was 10 feet higher.

Cores: None.
Drill Stem Tests: Six, see below.
Electric Logs: Welex Radiation-Guard-Frac Log.

FORMATION DESCRIPTION

Topeka 3474-3686:

Several benches have oolitic, fossiliferous or granular porosity with no visible oil shows. Porosity calculates up to 22% but there are no positive oil calculations except at 3596-3600 (16% porosity and 27% SW). This could be tested in future wells or before abandoning here.

Toronto 3708-18:

Adequate free oil in fossiliferous and granular intercrystalline, sugular limestone that calculates 10 to 17% porosity and 30 to 62% water; see D.S.T. No. 1. Test from 3708-11.

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Lansing-Kansas City 3722-3955:

A Bench 3722-48 Ample free oil in oolitic, fossiliferous, firm broken or vugular, and minor oolicastic limestone. This calculates 9% porosity and 37 to 39% water from 3722-26. Test 3722-26 and 3732-34 (6% porosity, 27% water). See D.S.T. No. 1.

Drill Stem Test No. 1 3691-3748:

Open one hour, recovered 120 feet of gas and 810 feet of muddy gassy oil, 30 minute initial bottomhole pressure 1172 pounds, 30 minute final bottom hole pressure 1156 pounds, flow pressures 65 to 349 pounds.

B, C, D Bench 3756-92 Ample free oil in broken fine crystalline, vugular, oolitic limestone that calculates 12 to 15% porosity and 20 to 28% water. Perforate 3756-60 and 3764-68, see D.S.T. No. 2.

Drill Stem Test No. 2 3742-87:

Open one hour, recovered 1100 feet of gas and 2175 feet of oil, 30 minute initial bottom hole pressure 1067 pounds, 30 minute final bottom hole pressure 1035 pounds, flow pressure 325-918.

E Bench 3794-3801 Pearl chert, fossiliferous and fine crystalline limestone with big vugs that calculates 12% porosity and 36% water. Perforate 3798-3801, see D.S.T. No.3.

F, G Bench 3806-52 Limestone as above with good porosity sucrosic, that grades into oolicastic spotted stained to barren, below 3826. This bench is nearly continuous in this well so that D.S.T. No. 3 and 4 overlapped some of the same porosity, and possibly part of the recovery. Perforate 3806-12 (10 to 15% porosity and 36 to 46% water) if needed now, and 3822-26 (10 to 15% porosity and 63% water) when a saltwater disposal well is available. See D.S.T. No. 3 and 4.

Drill Stem Test No. 3 3786-3813:

Open 90 minutes, recovered 1050 feet of gas and 1410 feet of oil, 30 minute initial bottomhole pressure 1017 pounds, 30 minute final bottom hole pressure 1001 pounds, flow pressure 56 to 543 pounds.

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Drill Stem Test No. 4 3812-46:

Open 90 minutes, recovered 580 feet of gas and 2060 feet of muddy gassy oil, 30 minute initial bottom hole pressure 1034 pounds, 30 minute final bottom hole pressure 1018 pounds, flow pressure 146 to 953 pounds.

H Bench 3863-80 Very minor fossiliferous, oolitic vugular with traces of free oil. See D.S.T. No. 5.

I Bench 3886-94 Adequate free oil in tight oolitic limestone that like "H" will not calculate positive. See D.S.T. No. 5.

Drill Stem Test No. 5 3844-90:

Open 30 minutes, flushed, recovered 20 feet of mud, 30 minute final bottom hole pressure 390 pounds, flow pressures 33 pounds.

J Bench 3903-16 Ample free oil in fossiliferous, pin point vugular and broken big vugular limestone that calculates 7 to 8% porosity and 27 to 38% water. Perforate 3903-08, see D.S.T. No. 6.

K Bench 3922-36 This slightly fractured bench has oil laced chert studded limestone with minor oolites and oolicasts that calculates 7 to 20% porosity and 39 to 60% water. Perforate 3922-25 and 3931-34, see D.S.T. No. 6.

Drill Stem Test No. 6 3873-3932:

Open one hour, recovered 1230 feet of muddy gassy oil, 30 minute initial bottom hole pressure 1162 pounds, 30 minute final bottom hole pressure 1133 pounds, flow pressures 105 to 524 pounds.

L Bench 3943-55 Minor free oil in fossiliferous and granular poorly stained limestone that calculates 10 to 13% porosity and 43 to 48% water. This should be tested before abandoning from 3943-46, 3948-50 and 3952-54.

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RECOMMENDATIONS

My recommendations may be found with each bench. This was cemented through the Dakota section with the D.V. tool set at 2016.

Respectfully submitted,

J. R. Green

JRG/gc