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8-15-26W

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G E O L O G I C R E P O R T

Palomino Petroleum
#3 Richard Norton

NW NE NW Sec. 8-15-26W
Gove County, Kansas

MISCELLANEOUS DATA

Elevation: 2341 Gr.; 2344 R.D.F.; 2346 R.K.B.

This well was drilled with rotary tools; Strata Drilling Company of Great Bend, Kansas, the contractor.

Spudded August 10, 1984. Set 341 feet of new 8-5/8" 24# surface casing and cemented with 230 sacks 60-40 Pozmix (circulated). Ran 100 joints new 5 1/4" 14# J-55 production casing set 11' off bottom at 4180' (Elog meas.) and cemented with 200 sacks 60-40 Pozmix. Rotary completed August 17, 1984. Pool - Jacka Northwest.

GEOLOGIC TOPS AND ZONES

TOP CIMARRON ANHYDRITE (driller) 1768 (+ 578) Elog 1772 (+ 574)

TOP HEEBNER SHALE 3547 (-1201) Elog 3549 (-1203)

TOP LANSING-KANSAS CITY 3583 (-1237) Elog 3587 (-1241)

Top member = Tite, finely xln white and tan limestone and pcs fresh white chert. No show oil.

3665-3676 (70' zone) Dense grey and white limestone, pcs slightly fossiliferous with poor pinpoint porosity. White chert as above. No show oil.

3702-3724 (90' zone) Finely xln tan oocastic and partly oolitic limestone. No show oil.

Top Muncie Creek 3740 (-1394) Elog 3740 (-1394)

3752-3755 (140' zone) F.S.F.O. Fine to medium xln soft friable partly fossiliferous dolomitic limestone with poor to fair vugular porosity. Fair amount light to medium oil saturation and partial saturation. Included in D.S.T. #1 which recovered mud and water with a small show of oil. Elog indicates some possibility. PERFORATE(?)

3778-3796 (160' zone) S.S.F.O. Dolomitic limestone as above, pcs slightly fossiliferous. Light to medium oil staining and saturation. Abundant dense white limestone, no show oil. Included in D.S.T. #1 which recovered mud and water with a small show of oil. See Elog.

3811-3824 (180' zone) V.S.S.F.O. Very finely xln tite dolomitic limestone with poor pinpoint porosity and some tiny vugs. Pcs fresh white sharp chert and pcs oocastic limestone. Small amount "spotty" oil staining and saturation. Included in D.S.T. #1 which recovered mud and water with a small show of oil.

Top Stark Shale 3824 (-1478) Elog 3824 (-1478)

Drill-stem Test #1: A test was taken from 3735-3830; 30-30-30-30; good blow through-out. Recovered 680' fluid (5' clean oil, 15' muddy oil, 360' oil-specked watery mud, 300' salt water). Flow pressures 91# to 192# and 273# to 344#. Shut-in pressures 1196# to 1166#.

3832-3838 (200' zone) F.-G.S.F.O. Fine to medium xln fairly friable somewhat granular partly fossiliferous, partly oolitic dolomitic limestone to dolomite. Fair to good vugular and inter-oolitic porosity. Good

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amount light to medium oil saturation (pcs compact with rather dull staining). Included in D.S.T. #2 which recovered gas, oil and mud. Elog indicates this zone to be the probable source of the recovery. PERFORATE

3864-3870 (220' zone) S.S.F.O. Partly oolitic limestone and dolomitic limestone with poor fossil-cast and vugular porosity. Small amount oil staining. Tite oolitic limestone, no show oil. Included in D.S.T. #2 which recovered gas, oil and mud.

Drill-stem Test #2: A test was taken from 3821-3874; 30-30-30-30; good blow through-out. Recovered 640' gas above 170' fluid (80' clean gassy oil and 90' gassy oil cut mud). Flow pressures 40# to 40# and 60# to 60#. Shut-in pressures 1206# to 1186#.

TOP FT. SCOTT LIMESTONE 4080 (-1734) Elog 4082 (-1736)

Top member = Tite, finely xln tan limestone, no show oil.

4101-4104 S.S.F.O. Finely xln rather tite grey limestone with poor vugular and pinpoint porosity. Fair amount light to medium somewhat dull oil saturation and spotty staining. Elog indicates possibilities. PERFORATE(?)

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TOP CONGLOMERATE 4158 (-1812) Elog 4159 (-1813)

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Dense limestone, small show free oil. Sand grains, black staining. Fresh white opaque chert with gilsonite and fresh sharp colored chert (no show oil). Considered not commercial.

TOP MISSISSIPPIAN SPERGEN DOLOMITE 4172 (-1826) Elog 4171 (-1825)

Finely xln partly fossiliferous white dolomite with fair vugular and fossil-cast porosity. Small to fair show dark free oil. Dark oil staining in dry samples.

TOP MISSISSIPPIAN WARSAW DOLOMITE 4182 (-1836) Elog 4181 (-1835)

Finely xln partly fossiliferous dolomite with fair to good vugular and fossil-cast porosity. Pcs sucrosic. Good show free oil and good amount medium oil staining and saturation.

ROTARY TOTAL DEPTH 4190 (-1844) Elog 4191 (-1845)

REMARKS

All above figures are from rotary bushing zero at an elevation of 2346 feet, five feet above the ground level.

Samples were examined from 3200' and drilling watched from above the Heebner to the total depth.

Straight hole tests: none over 2°.

Several zones of interest are discussed individually in the text of this report. Casing was set for completion in the Mississippian due to favorable structural position and oil shows.

ANN WATCHOUS
Well-site Geologist