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

Palomino Petroleum
#4 Sutton

NE NE NE Sec. 33-16-25W
Ness County, Kansas

MISCELLANEOUS DATA

Elevation: 2510 Gr.; 2513 R.D.F.; 2515 R.K.B.

This well was drilled with rotary tools; DNB Drilling, Inc., of Wichita, Kansas, the contractor.

Spudded November 1, 1985. Set 250' of new 8-5/8" 20# surface casing and cemented with 185 sacks 60-40 Pozmix, 2% gel, 3% c.c. (circulated). Ran new 5½" 14# J-55 production casing set 1' off bottom @ 4469' and cemented with 150 sacks 60-40 Pozmix, 2% gel. No electric log was run. Rotary completed November 7, 1985. Pool - Arnold Southwest.

GEOLOGIC TOPS AND ZONES

TOP CIMARRON ANHYDRITE (driller) 1863 (+ 652)

TOP HEEBNER SHALE 3801 (-1286)

TOP LANSING-KANSAS CITY 3842 (-1327)

There were no shows of oil throughout the L-KC section.

TOP FT. SCOTT LIMESTONE 4349 (-1834)

Small show light free oil. Tite, finely xln (to "mealy") partly fossiliferous limestone with poor pinpoint and fossil-cast porosity. Small show light staining to saturation. Included in D.S.T. #1 which recovered slightly oil cut mud.

TOP CHEROKEE FORMATION 4371 (-1856)

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WICHITA BRANCH

4422-4440 Red and orange fresh sharp chert (trace gilsonite); white weathered chert with poor vugular porosity and black staining; several tite, fine-grained sand clusters with small show medium to dark "flaky" to free oil and medium to dark saturation in dry samples. Included in D.S.T. #1 which recovered slightly oil cut mud.

Drill-stem Test #1: A test was taken from 4335-4440; tool open 25 minutes (25-25), weak blow dead in 15 minutes - flushed tool - weak blow dead in 4 minutes. Recovered 10' slightly oil cut mud. Flow pressures 92# to 97#. Shut-in pressure 675#.

4440-4454 Fresh and weathered chert, chunky dense limestone and few pcs dolomitic limestone. No show oil.

TOP MISSISSIPPIAN "SPERGEN" DOLOMITE 4454 (-1939)

33-16-25W

Drill-stem Test #2: A test was taken from 4335-4470; tool open 1 hour (30-30-30-30), weak blow throughout. Recovered 45' of heavily oil cut mud with some free oil in tool. Flow pressures 46# to 58# and 58# to 63#. Shut-in pressures 967# to 780#+.

ROTARY TOTAL DEPTH 4470 (-1955)

REMARKS

All above figures are from rotary bushing zero at an elevation of 2515 feet, five feet above the ground level.

Samples were examined from 3500 feet and drilling watched from above the Ft. Scott to the total depth.

Straight hole tests: none over 1°.

Although recovery on D.S.T. #2 was somewhat minimal, the consensus was to run casing for further testing.

ANN WATCHOUS
Well-site Geologist

Very faint odor, small show free oil. Small percentage finely xln partly fossiliferous dolomite with poor to fair vugular and some fossil-cast porosity (small show dark staining to partial saturation). Section must be shaley.

TOP MISSISSIPPIAN "WARSAW" DOLOMITE 4464 (-1949)

4464-4470 Fair odor, fair to good show free oil. Fine to medium xln partly fossiliferous dolomite with fair vugular porosity. Tested with D.S.T. #2 which recovered a small amount of oil, but reasonable for this area.

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