15-135-2[illegible]

32-16-23W

D N B Drilling, Inc.

ROTARY CONTRACTOR DRILLING DEALS

J. L. DONELSON, PRES.
(316) 687-5471

535 NORTH OLIVER WICHITA, KANSAS 67208

DRILLERS' LOG

Palomino Petroleum
P.O. Box 18610
Wichita, KS 67218

SEP 23 1985

State Geological Survey
WICHITA BRANCH

Mishler "M" ✓)
SE NW SW Sec. 32-16-23
Ness County, KS

Commenced: 8-13-85
Completed: 8-20-85

Surface casing: Ran 6 jts. 8 5/8, 20# new casing. Tallied 232.84', set @ 241'. Cemented with 200 sx 60/40 pozmix, 2% gel, 3% cc. Cement did circulate.

FORMATION	DEPTH
Sand & Shale	0-1789
Anhydrite	1789-1822
Shale	1822-2380
Shale & Lime	2380-3355
Lime	3355-4570 RTD

I do hereby certify that the foregoing statements are true and correct to the best of my knowledge and belief.

DNB Drilling, Inc.

By James Donelson Jr

STATE OF KANSAS: ss:

Subscribed and sworn to before me this 26th day of August, 1985.

Vicky L. Coppage, Notary Public

My appointment expires:
May 28, 1989

Vicky L. Coppage

VICKY L. COPPAGE
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 5-28-89

Palomino Petroleum
#1 Mishler "M" ✓ 3

SE NW SW Section 32-16-23W
Ness County, Kansas

MISCELLANEOUS DATA

Elevation: 2445 Gr.; 2448 R.D.F.; 2450 R.K.B.

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

Spudded August 13, 1985. Set 241 feet of new 8-5/8" 20# surface casing and cemented with 200 sacks 60-40 Pozmix, 2% gel, 3% c.c. (circulated). Ran 110 joints new 5½" 14# J-55 casing set 37 feet off bottom at 4533' (see Remarks) and cemented with 200 sacks 60-40 Pozmix, 2% gel, 10% salt; 20 bbls. salt flush. Shoe joint = 14.46'. Perforated 2 holes at 1650' and cemented with 400 sacks cement (350 sacks 50-50 Pozmix, 6% gel and 50 sacks 60-40 Pozmix). Pumped plug to 1620' (cement did circulate). Rotary completed August 20, 1985. Pool - un-named wildcat.

GEOLOGIC TOPS AND ZONES

TOP CIMARRON ANHYDRITE (driller) 1789 (+ 661) Elog 1782 (+ 668)

SEP 2 3 1985
State Geological Survey
WICHITA BRANCH

TOP HEEBNER SHALE 3845± (-1395±) Elog 3843 (-1393)

Note: A zone 3590±-3605± (Topeka) containing slightly fossiliferous, fine to medium xln, finely oocastic grey limestone with possible very light oil staining (?). Should be watched in offsets.

TOP LANSING-KANSAS CITY 3887± (-1437±) Elog 3884 (-1434)

Top member = finely xln oolitic to sub-oolitic partly oocastic limestone with possible very light oil staining to saturation (?). Elog is tite.

Note: 4098-4110 White and tan oocastic limestone, N.S.O. (180' zone).

TOP FT. SCOTT LIMESTONE 4374 (-1924) Elog 4373 (-1923)

Small show light free oil. Soft, very finely xln to "mealy" limestone with generally poor vugular and fossil-cast porosity. Small to fair show light oil staining and partial saturation. Included in D.S.T. #1 which recovered mud with trace show oil. Probably not worth perforating.

TOP CHEROKEE SHALE not called Elog 4396 (-1946)

TOP CHEROKEE SANDY ZONE 4469 (-2019) Elog 4468 (-2018)

4469-4472 (Note: This 3' zone is correlative to the 3rd ("C") Sand in the Mishler "L" offset.) Fair to good show free oil. Clear, irregular grained, fairly friable, slightly glauconitic sand clusters. Good saturation. Included in D.S.T. #1 which recovered mud with trace show oil. PERFORATE (?)

4472-4477 Sand clusters as above with fair show free oil. Some clusters contain hunks of sharp white opaque chert. Some tite clusters with gilsonite. Included in D.S.T. #1 which recovered mud with trace show oil.

Drill-stem Test #1: A test was taken from 4358-4477; tool open 30 minutes (15-30-15-30), weak blow dead in less than 15 minutes. Flushed tool, no help. No blow second opening. Recovered 15' mud with trace of free oil on top of tool. Flow pressures 102# to 102# and 102# to 102#. Shut-in pressures 804# to 691#. Charts indicate no plugging.

4477-4478 Sand as above.

TOP MISSISSIPPIAN OSAGE 4478 (-2028) Elog 4484 (-2034)

4478-4490 Sharp fresh white chert and fossiliferous weathered chert, no show oil. Some gilsonitic sand clusters and very fine grained tite glauconitic sandstone (N.S.O.) from above? Included in D.S.T. #2 which recovered water.

4490-4495 Abundant white chert, no show oil. Included in D.S.T. #2 which recovered water.

Drill-stem Test #2: A test was taken from 4440-4495; tool open 1 hour (30-30-30-30), strong blow decreasing throughout. Recovered 3045' water. Flow pressures 1062# to 1285# and 1330# to 1330#. Shut-in pressures 1330# to 1330#.

4495-4530 Abundant chert with some glauconitic sand clusters, no show oil.

4530-4570 Finely xln, fossiliferous, cream colored dolomite with fair to good vugular porosity. No show oil. Chert and few clusters as above, no show oil.

ROTARY TOTAL DEPTH 4570 (-2120) Elog 4570 (-2120)

REMARKS

All above figures are from rotary bushing zero at an elevation of 2450', five feet above the ground level.

Samples were examined from 3500' and drilling watched from 4100' to the total depth.

Straight hole tests: none over 1°.

Centralizers were spotted at appropriate intervals.

Owners of the producing offset desired to take this well over for SWDW. Pipe was set in accordance with their wishes and reservations made to the effect that interest owners could try to make a producing well out of the sand.

ANN WATCHOUS & STEVE ROBBEN