

ORIGINAL

30-29s-39w

15-187-20821

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FROM CONFIDENTIAL

GEOLOGICAL ANALYSIS AND WELL REPORT

for

HARRIS OIL AND GAS COMPANY

Denver, Colorado

NORDLING #1-30

SE SE NW

Section 30, Township 29 South, Range 39 West

Stanton County, Kansas

Submitted by: Daniel R. Sommer

April 23, 1996

GENERAL INFORMATION

Operator: Harris Oil and Gas Company
Denver, Colorado

Elevation: 3214' G.L. 3226' K.B.

Contractor: Duke Drilling Company, Inc.
Rig #6

Surface Casing: 8 $\frac{5}{8}$ " set @ 1655'

Total Depth: 5750' R.T.D. 5712' L.T.D.

Drilling Time: 3975' - 5750'

Samples Examined: 4000' - 5750'

Geological Supervision: 4000' - 5750'

DST Company: None Taken

Mud Company: N.L. Baroid
Engineer: Tom Bradford

Mud Type: Chemical/Gel

Electric Logging Company: Halliburton Logging Services

Sample Status: 4000' - 5750' on deposit with
Kansas Geological Survey in Wichita, Kansas

Well Status: P & A on April 20, 1996

Date Spudded: **Monday, April 8, 1996** - MI & RU Duke Drilling Rig #6
(4/5/96), spud @ 8:00 a.m., drilling ahead.

Tuesday, April 9, 1996 - T.D. 1580' (6:00 a.m.), drilling
ahead, survey @ 519' ($\frac{1}{2}$ °).

Wednesday, April 10, 1996 - T.D. 1655' (6:00 a.m.),
drilling ahead, CTCH @ 1655', TOH, RU and run 37 jts
8 $\frac{5}{8}$ " 24# new casing. RU Halliburton and pumped 375 sx
Midcon II with 3% cc and $\frac{1}{2}$ # Flocele, displaced with 102
bbls fresh water, good returns, WOC, drilling ahead.

Thursday, April 11, 1996 - T.D. 3000' (6:00 a.m.), drilling ahead, lost circulation @ 2653', mix mud, drilling ahead.

Friday, April 12, 1996 - T.D. 3525' (6:00 a.m.), drilling ahead, TOH for hole in pipe, TIH, drilling ahead.

Saturday, April 13, 1996 - T.D. 4100' (6:00 a.m.), drilling ahead.

Sunday, April 14, 1996 - T.D. 4515' (6:00 a.m.), drilling ahead, survey @ 4182' (1°), drilling ahead.

Monday, April 15, 1996 - T.D. 4805' (6:00 a.m.), drilling ahead, TOH with NB #1 @ 4805', TIH with NB #2 @ 4805', drilling ahead, survey @ 4616' (¾°), drilling ahead, survey @ 4805' (1°), drilling ahead.

Tuesday, April 16, 1996 - T.D. 5125' (6:00 a.m.), drilling ahead.

Wednesday, April 17, 1996 - T.D. 5440' (6:00 a.m.), drilling ahead, survey @ 5214' (1°), drilling ahead.

Thursday, April 18, 1996 - T.D. 5740' (6:00 a.m.), drilling ahead, CFS @ 5656', drilling ahead.

Friday, April 19, 1996 - T.D. 5750' (6:00 a.m.), drilling ahead, CTCH, short trip, CTCH, TOH for logs, logging, ran drillpipe to bottom, CTCH, TOH for DST #1, TIH with test tool, testing, TOH.

Saturday, April 20, 1996 - T.D. 5750' (6:00 a.m.), TIH, plug well with 225 sx 60/40 Poz with 6% gel as follows: 100 sx @ 3200', 50 sx @ 1680', 40 sx @ 600', 10 sx @ 40', 15 sx in Rathole, 10 sx in Mousehole, job complete @ 4:30 a.m., release rig.

REFERENCE WELL

Amoco Production Company
Nordling #1
SW SE NE
Section 30, T29S-R39W
Stanton County, Kansas
K.B. 3234'

DEVIATION SURVEYS

DEPTH	SURVEY	CHANGE
519'	½°	+ ½°
1167'	½°	No Change
4182'	1°	+ ½°
4616'	¾°	- ¼°
4805'	1°	+ ¼°
5214'	1°	No Change
5750'	1°	No Change

FORMATION TOPS - K.B. 3226'

FORMATION	SAMPLE TOP	E-LOG TOP	DATUM (LOG)	REFERENCE DATUM
Heebner	N/A	3736'	-510'	+14'
Lansing	N/A	3814'	-588'	+14'
Kansas City "A"	4221'	4218'	-992'	+12'
Kansas City "B"	4278'	4262'	-1036'	+12'
Marmaton	4416'	4398'	-1172'	+14'
Cherokee	4668'	4660'	-1440'	+14'
Morrow	5137'	5130'	-1904'	+14'
Chester	5536'	5526'	-2300'	+18'
Ste. Genevieve	5590'	5564'	-2338'	+18'
St. Louis	5632'	5631'	-2405'	+19'
R.T.D.		5750'		
L.T.D.		5712'		

GEOLOGIC SUMMARY

The Nordling #1-30 (SE SE NW Section 30, T29S-R39W) was drilled as a wildcat to test all potential oil and gas zones from the Upper Pennsylvanian (Virgillian Stage) Toronto Limestone to the Mississippian St. Louis (Meramecian Stage). This was from 3900' - 5800', respectively. The primary objective was the St. Louis "B" zone. Secondary objectives included sandstones of the Lower Morrow Group. A geologist with unmanned gas detection was on location from 3950' to 5750'. Samples of ten foot intervals were examined from 3900' to 5750'.

Structurally, the Nordling #1-30 was 14' high to the Nordling #1 (SW SE NE Section 30, T29S-R39W) reference well at the Heebner datum. The Morrow was also encountered 14' high, as to the Nordling #1. The St. Louis "B" zone was encountered at 5631' (-2405'), which was 19' high to the reference well. An oolitic grainstone shoal facies was encountered, however, all primary porosity was occluded by secondary calcite.

Sample examination, drill stem test data, and E-log evaluation indicate non-commercial hydrocarbon deposits at this location. Therefore, it was recommended that this well be plugged and abandoned.

Respectfully submitted,

Daniel R. Sommer,
Geologist