

MARK TORR

Independent Petroleum Geologist
P.O. BOX 1293
HAYS, KANSAS 67601

24-10-31W

(913) 628-3131

04-20-87

JOSEPH H. STRABALA
DELZEIT # 2
1310' FNL & 970' FEL-NW/4
Section 24-10S-31W
Thomas County, Kansas

Commenced: 04-09-87.

Completed Drilling: 04-18-87.

Drilled By: Western Kansas Drilling, Rig # 2.

Pipe Record: 8⁵/₈" at 260', 5¹/₂" at 4572'.

Electric Logs: R A Guard.

Drill Stem Tests: 5, by Trilobite Testing.

-GEOLOGICAL REPORT-

Elevation

2900:KB

2898:DF

2895:GL

Gentlemen;

The above captioned well was under my supervision from a rotary depth of 3600' to a rotary total depth of 4570'. Ten foot samples were examined from 3750' to RTD. This well had casing set in it for commercial production.

Formation Data

All measurements are from KB.

Log Tops

ANHYDRITE	2474 Top	+426
	2502 Bottom	+398
HEEBNER SHALE	3920	-1020
TORONTO LIMESTONE	3942	-1042
LANSING-KANSAS CITY	3960	-1060
BASE OF KANSAS CITY	4231	-1331
MARMATON	4275	-1375
PAWNEE	4363	-1463
FORT SCOTT	4432	-1532
MISSISSIPPIAN	4542	-1642
RTD	4570	-1670
LTD	4573	-1673

JUN 16 1987
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

Zones of Interest

- 3860' to 3866'** : White to offwhite limestone. Chalky fine crystalline to fossiliferous. Show of black asphaltic stain, no live oil, and no odor.
- 3878' to 3884'** : White limestone. Fossiliferous, with a show of heavy black oil, no odor, and a spotted black stain. Test this zone only before abandoning the well.
- 4008' to 4014'** : White to gray limestone. Fine crystalline, with scattered fossils. Show of free oil, faint odor, and a dark spotted stain. This zone was covered in DST # 1.

Note: The test intervals have been corrected 3' down hole to correspond with the 3' down hole correction on the electric log.

DST # 1

Interval Tested: 4001' to 4015'.

Times: 60-60-60-60.

Recovery: 76' of muddy water, with a show of oil in the tool.

Shut-in Pressures: 1271 - 1217 PSI.

Flow Pressures: 21-32 & 53-53 PSI.

- 4037' to 4040'** : Gray/tan limestone. Tight fine crystalline to fossiliferous. Show of oil in broken rocks, faint odor, and a light stain in scattered pinpoint porosity.
- 4063' to 4065'** : White fine crystalline to oolitic limestone. Mostly chalky, with minor oil, no odor, and a light spotted stain.
- 4110' to 4112'** : Offwhite to gray limestone. Fossiliferous to oolitic, with a show of free oil, fair to good odor, and a spotted stain. This zone was covered in DST # 2.
TEST THIS ZONE.

DST # 2

Interval Tested: 4084' to 4118'.

Times: 60-60-60-60.

Recovery: 550' of gas in the pipe,
225' of muddy, gassy oil.

Shut-in Pressures: 1261 - 1185 PSI.

Flow Pressures: 43-64 & 85-107 PSI.

- 4138' to 4140'** : Light tan limestone. Fine to medium crystalline, with pinpoint porosity. Show of free oil, fair odor, and a saturated stain. This zone was covered in DST # 3.

DST # 3

Interval Tested: 4124' to 4156'.

Times: 30-30-15.

Recovery: 6' of mud.

Shut-in Pressure: 43 PSI.

Flow Pressures: 22-33 & 33 PSI.

- 4188' to 4192'** : Gray fossiliferous limestone. Tight, with a trace of oil, fair odor, and a light stain. Test only before abandoning.

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Zones of Interest, continued

4218' to 4224' : White to offwhite oolitic limestone. Show of free oil, good odor, and a spotted to even stain. This zone was covered in DST # 4. **TEST THIS ZONE.**

DST # 4

Interval Tested: 4203' to 4234'.

Times: 45-45-45-45.

Recovery: Gas to surface on second shut-in,
220' of clean gassy oil,
240' of gassy, muddy oil.

Shut-in Pressures: 256 - 288 PSI.

Flow Pressures: 107-128 & 171-182 PSI.

4322' to 4324' : White fine crystalline to oolitic limestone, with interoolitic to vug porosity. Show of free oil, faint odor, and a spotted stain.

4364' to 4366' : White fossiliferous to oolitic limestone. Show of free oil, fair to good odor, and a spotted stain. This zone was covered in DST # 5.

4374' to 4378' : Tan fossiliferous limestone. Show of free oil, good odor, and a saturated stain. This zone was covered in DST # 5.

DST # 5

Interval Tested: 4338' to 4380'.

Times: 30-60-60-60.

Recovery: 200' of oil-specked muddy water, with free oil on top.

Shut-in Pressures: 672 - 449 PSI.

Flow Pressures: 53-75 & 139-128 PSI.

Recommendations

It was recommended to set casing in this well for commercial production. All zones recommended for testing, as well as those recommended for testing before abandonment have been noted in this report.

Respectfully submitted,



Mark Torr
Petroleum Geologist

JUN 16 1987
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

One foot drill time from 3601' to 4570'.

3601-3700: 22223-32342-11213-32233-33221-22112-33111-21222-23333-3311 ½-
 ½ ½ ½ 12-12222-22223-33121-12333-43444-23332-12121-21134-34442-

3701-3800: 11214-42232-32333-22221-33343-42322-22221-22222-22234-32332-
 43233-32342-21221-22321-12321-22222-12132-21422-11143-33314-

3801-3900: 32223-21112-12231-11111-12111-11111-11222-33344-44332-21344-
 43234-33342-12234-32453-23333-32222-11111-23443-34433-32323-

3901-4000: 42211-23231-21233-22323-33323-43438-52645-53455-53433-34453-
 74745-44212-21212-34343-42222-22323-34445-76653-44322-33322-

4001-4100: 36654-33322-23325-43344-34332-43344-44443-44433-44333-32333-
 32334-55234-32224-23333-44444-54344-44444-54334-43233-33444-

4101-4200: 55656-65433-33444-54323-43443-33334-44554-45423-33333-33234-
 66666-55443-34333-43334-52221-24638-74455-54544-44344-44455-

4201-4300: 55543-22234-55665-44444-3433 2½-23 2½ 2 2½-46576-76533-32322-22222-
 22222-45544-44544-47634-34454-44455-65555-64666-66455-64554-

4301-4400: 44544-44444-54654-63644-53435-45433-44425-54556-67756-45554-
 54566-56667-35333-43334-44 2½ 2½ 3-34566-56774-64545-34433-33444-

4401-4500: 66754-53343-34443-45566-54634-57765-54444-45422-34534-45444-
 44445-43355-43364-44545-64444-44444-54434-56544-56554-55354-

4501-4570: 53343-33343-33333-33435-44433-43444-33453-33444-34343-34443-
 33553-43545-44444-45443-

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