

G E O L O G I C R E P O R T XPalomino & Tasheff
#1 Mishler "L"

JUN 01 1985

NE SW SW Sec. 32-16-23W
Ness County, KansasState Geological Survey
WICHITA BRANCH
MISCELLANEOUS DATA

Elevation: 2473 Gr.; 2476 R.D.F.; 2478 R.K.B.

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

Spudded June 13, 1985. Set 248 feet of new 8-5/8" 23# surface casing and cemented with 150 sacks 60-40 Pozmix, 2% gel, 3% c.c. (circulated). Ran 112 joints new 5 1/2" 14# J-55 casing set 1 foot off bottom at 4539', cemented with 200 sacks 60-40 Pozmix, 2% gel, 10% salt; 15 bbls. salt flush. Shoe joint = 14.74'. Perforated 2 holes at 1600' (basket at 1650'), cemented with 375 sacks 50-50 Pozmix, 6% gel and 50 sacks 60-40 Pozmix (circulated). Wiper plug at 1570'. Rotary completed June 20, 1985. Pool - Wildcat.

G E O L O G I C T O P S A N D Z O N E S

TOP CIMARRON ANHYDRITE (driller)	1810 (+ 668) Elog 1808 (+ 670)
TOP HEEBNER SHALE	3868 (-1390) Elog 3871 (-1393)
TOP LANSING-KANSAS CITY	3909 (-1431) Elog 3911 (-1433)

No shows of oil were found throughout the L-KC section.

Note: 4125-4135 White and tan oocastic limestone, N.S.O. (180' zone).

TOP FT. SCOTT LIMESTONE	4397 (-1919) Elog 4401 (-1923)
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Trace show light free oil in fresh samples. Pieces white and grey very dense limestone, some poor pinpoint porosity. Very small show light oil staining. Included in D.S.T. #1 which recovered oil and oil cut mud. Consider perforating before abandonment (see Elog).

TOP CHEROKEE SHALE	not called Elog 4424 (-1946)
TOP CHEROKEE SANDY ZONE (1st Sand)	4481 (-2003) Elog 4484 (-2006)
Top 2nd Sand	Elog 4491 (-2013)

4481-4492 Fleeting odor, fair to good show medium-colored free oil in fresh samples. Fairly friable, clear, irregular grained sand clusters, slightly glauconitic. Fair show medium oil saturation in sand clusters in dry samples. Also fair percentage chert and limestone, no show oil. Overall samples were very shaley. Included in D.S.T. #1 which recovered oil and oil cut mud. PERFORATE before abandonment.

Drill-stem Test #1: A test was taken from 4382-4492, tool open 1 hour (30-30-30-30), fair blow throughout. Recovered 360' total fluid (180' clean gassy oil and 180' oil cut mud, 20% oil). Flow pressures 102# to 147# and 193# to 204#. Shut-in pressures 1040# to 961#. (Approx. 2 1/2 bbls. fluid in 1 hr.)

Top 3rd Sand	Elog 4497 (-2019)
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4492-4502 Small to fair show medium-colored free oil in fresh samples. Sand clusters as above with fair amount oil saturation; also loose sand grains. Conglomerate material as above, no show oil. Samples shaley (D.S.T. #1 slough?). Tested with D.S.T. #2 which recovered oil. PERFORATE.

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Drill-stem Test #2: A test was taken from 4466-4502, tool open 1 hour (30-30-30-30), strong blow throughout. Recovered 180' of gas above 2340' total fluid (27 bbls.) (2000' clean gassy oil and 340' muddy gassy oil - no water). Flow pressures 238# to 646# and 725# to 905#. Shut-in pressures 1330# to 1319#.

4502-4506 Samples junky after test.

TOP MISSISSIPPIAN OSAGE

4506 (-2028) Elog 4505 (-2027)

4506-4540 No show free oil. Large percentage fresh white opaque chert, no show oil. Samples still contain a few sand clusters (glauconitic as above), quartz fragments and limestone (N.S.O.), probably from above. Samples very shaley. Elog is negative.

ROTARY TOTAL DEPTH

4540 (-2062) Elog 4543 (-2065)

REMARKS

All above figures are rotary bushing measurements at an elevation of 2478', five feet above the ground level.

Samples were examined from 3500' and drilling watched from above the L-KC to the total depth.

Straight hole tests: none over 1°.

Elog measurements are 1 to 3 feet deeper than rotary measurements. See text for perforations.

ANN WATCHOUS and STEVE ROBBEN

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32-16-23W

TIME LOG

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#1 Mishler "L"

NE SW SW Sec. 32-16-23W
Ness County, Kansas
Elevation: 2478 R.K.B.

<u>FROM</u>	<u>TO</u>	<u>MINUTES</u>	<u>REMARKS</u>
3500-3510		2-3-2-2-3 3-2-3-2-2	
-3520		2-2-2-2-1 2-2-3-2-2	
-3530		3-3-2-2-3 2-3-2-2-2	
-3540		2-2-2-2-1 2-2-3-2-2	
-3550		3-2-2-2-3 2-2-2-2-1	
3550-3560		1-2-2-2-2 2-2-2-1-2	
-3570		2-2-2-2-3 2-2-3-2-2	
-3580		2-2-1-2-1 1-1-1-2-1	
-3590		1-1-1-2-2 2-3-2-2-2	
-3600		2-2-2-2-3 1-2-2-2-2	
3600-3610		2-3-2-2-3 2-2-3-2-2	
-3620		3-2-2-2-1 1/2-1/2-1/2-1	
-3630		1/2-1/2-1/3-1/3-1/3 1/2-1/2-1-1-2	
-3640		2-1/2-1/2-1/2 1/3-1/3-1/3-1/2-1/2	
-3650		1/2-1/2-1/2-1/2 1/2-1-1-1-2	
3650-3660		1-1-2-1-2 1-2-2-2-2	
-3670		2-2-2-2-2 2-2-2-2-2	
-3680		2-3-2-2-1 1/2-1/2-1-1-2	
-3690		2-1-3-2-2 2-2-2-1-1/2	
-3700		1/2-1-2-1-1 1/2-1/2-1-1-1	
3700-3710		1-2-2-2-2 1-1-1-2-1	
-3720		1-1-1-1/2-1/2 1-1-1-2-2	
-3730		1-1-1/2-1/2-1 1-3-2-1-2	
-3740		1-2-2-3-3 2-2-3-3-2	
-3750		2-2-2-2-2 2-3-2-2-2	
3750-3760		2-1-1-1-1/2 1/2-2-1-1-2	
-3770		3-2-2-2-2 1-1/2-1/2-1-1	
-3780		2-3-1-2-1 2-3-2-3-3	
-3790		2-2-3-3-2 3-2-3-3-3	
-3800		3-3-2-3-3 3-3-3-2-2	
3800-3810		1/2-1/2-1/2-1 1-1-1-1-3	
-3820		3-2-2-1-1 1/2-1/2-1-1-2	
-3830		2-2-3-3-3 2-2-1-1/2-1/2	
-3840		1/3-1/3-1/3-1/3-2-1 1-1-1-1-2	
-3850		2-1-1-1-1 2-1-1-1-2	
3850-3860		2-2-2-2-1 2-2-3-2-2	
-3870		1-1-1-1-1 1-1-2-1-2	
-3880		2-2-1-2-1 2-2-2-3-2	
-3890		3-2-3-2-2 3-2-1-2-1/2	
-3900		1/2-1-1-2-1 2-2-2-1-3	
3900-3910		2-3-2-3-2 3-2-2-2-3	
-3920		2-2-2-1-2 2-2-2-3-2	
-3930		2-3-1-2-1 2-2-2-2-2	
-3940		2-3-2-2-3 2-3-2-3-3	
-3950		2-3-2-3-2 3-3-2-3-3	
3950-3960		2-2-2-2-1 1-3-3-2-1	
-3970		1-2-2-3-3 2-1-2-1-1	
-3980		1-1-1-1-3 2-2-2-3-2	
-3990		2-2-3-2-3 3-2-3-3-2	
-4000		1-1-1-1-3 1-1-1-2-1	
4000-4010		2-3-2-2-2 2-2-1-2-2	
-4020		1-2-1-2-2 1-2-3-2-2	
-4030		2-1-2-2-1 1/2-1/2-1-1-1/2	
-4040		1/2-2-2-2-4 3-3-3-3-3	
-4050		3-3-3-3-3 3-3-3-3-3	

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TIME LOG

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<u>FROM</u>	<u>TO</u>	<u>MINUTES</u>	<u>REMARKS</u>
4050-4060		3-2-3-3-2 2-2-2-3-2	
-4070		3-3-3-3-3 3-2-3-3-3	
-4080		3-3-3-3-3 3-2-2-2-2	
-4090		3-3-2-2-3 3-3-2-3-3	
-4100		3-3-4-3-2 3-2-3-3-2	
4100-4110		2-2-3-2-3 3-2-3-3-2	
-4120		3-3-3-3-3 3-3-2-3-1	
-4130		2-3-3-2-3 1-1-1-3-2	
-4140		½-½-½-½-2 4-3-3-3-2	
-4150		3-3-3-3-3 3-3-4-3-3	
4150-4160		4-3-3-3-3 3-2-2-2-2	
-4170		3-3-4-2-3 3-3-3-3-3	
-4180		3-3-4-3-3 3-3-3-4-3	
-4190		4-3-4-3-3 3-3-4-3-3	
-4200		3-20-8-5-4 4-4-5-4-3	Bit trip @ 4191, break in bit @ 4192
4200-4210		4-3-5-4-6 5-6-4-4-3	
-4220		5-6-5-4-4 4-4-4-4-5	
-4230		5-5-6-5-4 4-4-4-4-4	
-4240		5-5-5-6-6 4-4-4-4-3	
-4250		4-3-4-3-4 5-5-4-5-4	
4250-4260		5-5-4-5-5 3-4-4-4-4	
-4270		4-3-4-5-4 4-5-5-5-3	
-4280		4-4-5-5-4 5-4-5-5-6	
-4290		6-6-5-6-6 6-5-6-5-5	
-4300		4-4-4-5-4 5-6-5-4-5	
4300-4310		4-5-5-5-6 6-6-6-5-5	
-4320		5-4-4-4-4 4-5-4-5-5	
-4330		5-5-6-5-6 6-6-6-6-6	
-4340		6-6-5-6-6 5-6-6-6-5	
-4350		6-6-6-6-6 6-6-6-6-6	
4350-4360		6-6-5-5-5 6-5-6-5-5	
-4370		6-5-5-5-5 5-5-6-5-5	
-4380		5-5-5-5-5 6-5-5-5-5	
-4390		6-5-5-5-5 5-5-5-6-5	
-4400		5-5-3-4-3 2-3-4-4-5	
4400-4410		5-5-5-5-5 5-4-4-4-4	
-4420		4-3-4-4-4 4-5-5-4-4	C.F.S. @ 4420
-4430		4-5-5-5-4 4-3-3-2-2	
-4440		2-4-4-3-4 4-3-4-3-3	
-4450		3-4-4-4-5 4-6-6-5-4	
4450-4460		4-4-4-4-5 3-2-4-4-3	
-4470		4-3-4-6-5 4-4-5-3-5	
-4480		4-5-5-5-6 5-5-5-4-5	
-4490		6-5-2-1-3 4-5-3-4-2	C.F.S. @ 4487
-4500		1-2-3-3-2 2-1½-1½-2½-1½	C.F.S. & D.S.T. #1 @ 4492
4500-4510		4-6-3-3-2 2-3-2-2-2	C.F.S. & D.S.T. #2 @ 4502
-4520		4-3-3-7-5 5-5-4-2-3	
-4530		2-5-5-7-6 8-7-8-7-7	
-4540		7-6-6-5-5 6-4-5-4-4	C.F.S.; run Elog.; Rotary Total Depth @ 4540 R.K.B.

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