GEOLOGIC REPORT

Palomino Petroleum, et al
#3 Reed

SE NW SE; 4-18-25W
Ness County, Kansas

MISCELLANEOUS DATA

Elevation: 2362 Gr.; 2365 R.D.F.; 2367 K.B.

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

Spudded October 4, 1975. Set 276 feet of used 10 3/4" 36# surface casing and cemented with 250 sacks cement (circulated). The 7" O.D. oil string (see remarks) was set at 4293' (1 foot off bottom and 5 feet in the Mississippian Dolomite) and cemented with 200 sacks light cement followed with 30 barrels rotary mud (to cover Cedar Hills) followed with 200 sacks cement (100 sacks light and 100 sacks 60-40 salt saturated pozmix).

GEOLOGIC TOPS AND ZONES

Top Cimarron Anhydrite (driller) 1615 (+752) to 1643 (+724)
(Elog) 1617 (+750) to 1646 (+721)

Top Heebner Shale 3642 (-1275) Elog 3641 (-1274)

Top Lansing-Kansas City 3683 (-1316) Elog 3684 (-1317)

Top Marmaton Limestone 4021 (-1654) Elog 4022 (-1655)
There were no shows in the Marmaton.

Top Pawnee Limestone 4118 (-1751) Elog 4118 (-1751)

Top Ft. Scott 4190 (-1823) Elog 4191 (-1824)

4190 - 4214 Finely xln, partly fossiliferous rather dense limestone. Small show light gassy free oil. Tested with DST #1 which recovered 100' oil cut mud.

Top Cherokee Shale 4214 (-1847) Elog 4215 (-1848)

Drill-stem test #1: A test was taken from 4172 - 4224; 30 - 30 - 30 - 30, fair blow increasing to good; recovered 440 feet gas above 100 feet oil and gas cut mud (very light oil). Flow pressures 53# to 80#. Shut in pressure 491# plus to 486# plus.

No Cherokee Sand present.

Top Cherty Conglomerate 4280 (-1913) Elog 4281 (-1914)

4280 - 4284 Good show free oil and good odor in fresh and partly weathered colored chert. Included in DST #2 which recovered 10' mud.

Top Mississippian Dolomite 4288 (-1921) Elog 4290 (-1923)

4288 - 4294 Finely xln partly fossiliferous light grey dolomite. Some vugular porosity but mostly poor porosity. Good show medium to dark free oil and good odor. Included in DST #2 which recovered 10' mud.

Drill-stem test #2: A test was taken from 4253 - 4294; tool open 30 minutes, very weak blow 17 minutes (flushed, no help). Recovered 10' mud. Flow pressure 31# - 31# (actually zero) 20 minute shut in pressure 53#.

Rotary Total Depth 4294 (-1927) Elog Total Depth 4295 (-1928)

REMARKS

All above figures are rotary bushing measurements at an elevation of 2367', five feet above ground level.

Samples were examined and drilling watched from above the Heebner to the total depth.

Straight hole tests: none over 2°.

The 7" oil string consists of approximately 1300 feet of 20# casing on top of approximately 3000 feet of 24# casing.

Casing was set to test with cable tools mainly because of favorable structural position and the proximity of producing wells.

R. A. Driver
Geologist

TIME LOG.

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SE NW SE Sec. 4-18S-25W
Ness County, Kansas
Elevation: 2367 RB

FROM	TO	MINUTES		REMARKS
3400-	3410	½-½-½-½-½	½-½-½-½-½	
	3420	2-4-3-3-1	1-3-4-1-3	
	3430	3-2-4-3-2	3-3-2-4-3	
	3440	3-3-4-3-3	3-4-3-4-2	
	3450	½-½-1-1-1	1-1-2-4-4	
3450-	3460	2-2-2-1-1	1-1-2-1-1	
	3470	1-1-1-1-1	1-1-4-4-1	
	3480	1-1-1-1-1	1-1-1-1-1	
	3490	1-1-1-1-1	1-2-3-2-2	
	3500	1-1-1-3-2	2-2-2-2-2	
3500-	3510	3-2-2-2-2	2-3-2-2-3	
	3520	3-4-3-4-2	4-3-3-3-2	
	3530	1-1-2-1-4	3-2-4-2-4	
	3540	3-3-3-2-2	1-1-3-3-4	
	3550	3-2-2-2-3	3-3-3-3-2	
3550-	3560	3-3-3-3-5	5-4-3-3-1	
	3570	4-3-3-4-2	4-3-2-1-1	
	3580	1-1-1-2-1	1-1-1-3-3	
	3590	4-2-1-1-1	2-1-1-1-2	
	3600	2-4-3-3-3	2-1-1-1-1	
3600-	3610	1-1-1-1-½	½-½-½-½-½	
	3620	½-½-1-1-1	2-2-2-2-2	
	3630	1-2-2-3-3	5-3-3-3-3	
	3640	3-4-3-4-2	1-1-2-2-3	
	3650	5-3-2-1-3	2-1-3-5-2	
3650-	3660	3-2-3-2-3	3-2-2-3-3	
	3670	2-3-3-4-2	2-2-1-2-3	
	3680	4-3-3-4-3	4-3-4-2-2	
	3690	3-2-1-4-3	3-3-4-4-4	
	3700	3-4-2-4-4	5-6-6-3-5	
3700-	3710	3-4-3-4-3	2-4-3-3-2	
	3720	3-4-2-4-4	4-3-3-2-3	
	3730	2-3-2-3-2	1-2-2-4-3	
	3740	3-2-3-3-4	4-3-4-3-4	
	3750	3-3-2-4-4	3-3-4-3-4	
3750-	3760	3-3-4-4-3	5-6-4-3-4	
	3770	3-3-5-3-3	1-1-1-1-1	
	3780	1-1-1-3-3	2-2-3-3-2	
	3790	2-2-2-2-3	3-1-1-2-2	
	3800	2-3-3-3-2	2-3-2-2-1	
3800-	3810	2-2-2-1-1	1-1-½-½-1	
	3820	1-1-1-2-4	3-3-3-3-3	
	3830	3-3-4-4-3	3-3-3-3-3	
	3840	5-3-3-3-3	4-4-3-3-3	
	3850	2-3-3-4-2	3-2-2-2-3	
3850-	3860	3-4-2-2-2	2-2-3-4-3	
	3870	4-3-3-3-3	3-3-3-3-3	
	3880	4-2-3-2-3	4-3-3-2-3	
	3890	3-2-3-4-3	4-3-4-4-4	
	3900	4-3-4-3-4	4-2-3-4-4	
3900-	3910	3-2-3-3-3	3-3-3-2-3	
	3920	2-1-1-2-3	3-1-3-3-3	
	3930	3-3-4-4-3	2-2-3-3-3	
	3940	3-2-2-2-2	2-2-2-4-5	
	3950	5-5-5-5-5	5-5-5-4-3	

TIME LOG

#3 Reed

3950-3960	4-5-5-5-4 4-6-5-2-2	
3970	5-5-5-3-3 3-4-3-2-1	
3980	3-2-2-2-4 3-2-1-4-4	
3990	4-3-5-6-5 7-6-5-4-3	Trip for bit @ 3981'
4000	5-3-3-5-11 11-9-3-5-5	
4000-4010	6-6-4-6-9 9-7-6-8-5	
4020	4-6-7-7-4 3-4-3-3-3	
4030	4-7-6-5-6 5-6-6-6-7	
4040	7-9-9-8-7 6-5-8-7-7	
4050	7-6-6-4-6 4-5-8-9-9	
4050-4060	6-6-6-4-5 4-4-5-4-7	
4070	9-6-8-8-5 4-8-7-8-6	
4080	6-7-7-7-6 6-7-5-5-5	
4090	4-7-6-5-5 6-7-7-7-7	
4100	6-6-9-7-8 8-8-8-8-7	
4100-4110	8-8-8-8-8 7-8-8-7-6	
4120	7-8-7-8-8 9-6-5-8-7	
4130	9-8-9-9-12 8-9-8-9-9	
4140	11-9-10-9-11 10-9-8-8-8	
4150	9-9-8-8-9 9-8-8-9-9	
4150-4160	8-9-9-8-10 8-9-8-9-9	
4170	10-9-10-9-9 10-8-9-8-10	
4180	10-10-7-10-10 6-8-8-7-7	
4190	7-6-6-6-5 3-4-3-4-6	
4200	10-10-8-10-7 10-7-9-8-8	
4200-4210	9-8-4-7-6 5-6-8-6-5	
4220	7-8-8-7-5 4-5-6-6-8	
4230	8-7-7-7-6 10-11-6-10-8	CFS & DST #1 @ 4224'. New bit @ 4224'
4240	9-7-9-9-8 8-8-8-10-10	
4250	6-12-8-9-9 11-10-9-9-9	
4250-4260	8-10-10-9-8 11-9-9-10-10	
4270	9-10-8-10-9 10-10-10-10-11	CFS @ 4270'
4280	9-13-12-11-12 17-19-14-14-14	
4290	6-2-3-4-7 6-7-7-6-6	CFS @ 4283' & CFS @ 4288'
4294	8-6-6-6	CFS & DST #2 @ 4294'

Rotary Total Depth 4294 RB