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C. E. Robison et al
Knoche No. 1
NW NE NW Sec. 24-15S-22E
Miami County, Kansas

Elevations (estimated)
Ground 1100
Rotary 1105

Drilling Contractor: UTE Oil Company

SAMPLE ANALYSIS REPORT

Five (5') foot samples were kept from 375' to 1599'. One (1') foot drilling time was kept from 375' to 1599'.

The following data was compiled from sample analysis, time log interpretation, electric log correlation, and all tops and zones of porosity are corrected to rotary bushing measurements.

Samples were examined from 375' to total depth. The well was under geological supervision from 375' to rotary total depth of 1599'.

Top Big Shale	383	+722	
Top Knobtown	397	+708	
397 - 411			Sandstone, light gray, very fine grained, poorly cemented, evenly sorted, very poor porosity, no stain, no odor.
Top Burgess	999	+106	
999 - 1009			Sandstone, white to clear, medium grained, well rounded, trace dolomitic matrix, fair to good porosity, no stain, no odor.
Top Mississippian	1009	+ 96	
1009 - 1027			Dolomite, buff to tan, medium crystalline, good intercrystalline and vuggy porosity, no stain, no odor.
1110 - 1115			Dolomite, light gray, medium crystalline, fair vuggy porosity, trace white china
1124 - 1136			chert, no stain, no odor.
1220 - 1260			(Osage 1204) Cherts, white to smoke blue, china, sharp, angular, fresh, trace glassy chert, very poor porosity, no stain, no odor.
1308 - 1331			Dolomite, cherty, brown, medium crystalline, chert, white, microfossiliferous, no stain, no odor.
Top Kinderhook	1419	-314	

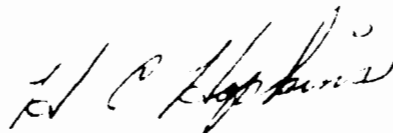
Top Viola	1458 - 1516	1458 - 353	Limestone, gray, very fine crystalline to dense, trace very poor vuggy porosity, secondary quartz crystals, no stain, no odor, cored from 1487 - 1507.
Top Simpson	1518 - 1537	1516 - 411	Sandstone, fine grained, well sorted, good porosity, not cemented, clear, well rounded, no stain, no odor.
Top Arbuckle	1582 - 1599	- 1582 - 477	Dolomite, light gray, buff, fine to medium crystalline, good vuggy porosity, no stain, no odor.
Rotary total depth	1599		

COMMENTS AND RECOMMENDATIONS

The No. 1 Knoche was drilled to a total depth of 1599 feet, 17 feet into the Arbuckle dolomite. Structurally the test well was 23 feet higher on the top of the Kinderhook than the nearest deep test in Sec. 34-15S-22E, approximately 4 miles southwest. The test well had a distinct lithographic change from the well 4 miles southwest; however retained it's structural position into the Arbuckle formation.

No zones of porosity in this test well warranted futher testing. The Knobtown zone is productive for one or two resident gas supply but not as a commercial producer.

Due to the lack of prospective shows the No. 1 Knoche was abandoned and plugged as a dry hole.



H. C. Hopkins
Consulting Geologist

DRILLING TIME LOG

DEPTH

FROM * TO

TIME

REMARKS

375	380	1	1	1	6	6													
380	395	6	6	6	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
395	410	1	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
410	425	1/2	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1
425	440	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
440	455	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
455	470	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
470	485	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
485	500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
500	515	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1
515	530	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
530	545	1	1	1	1	1	1	1	2	1	1	1	1	1	1/2	1/2	1/2	1/2	1/2
545	560	1/2	1/2	1/2	1/2	1/2	1/2	1	1	1	1	1	1	1	1	1	1	1	1
560	575	1	7	9	9	5	4	1	1	1	6	3	3	2	2	2	1	1	1
575	590	1	1	1	1	3	2	5	3	4	2	1	1	1	1	1	1	1	1
590	605	1	1	1	1	1	1	1	1	1	1	1	1/2	1/2	4	6	4	6	6
605	620	5	4	1	1	1	1	1/2	1/2	1	1	1	1	1	1	1	1	1	1
620	635	3	4	5	5	1	1/2	1/2	1	1	1	1	1	1	1	1	1	1	1
635	650	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	3
650	665	1	1	1	1	3	2	1	1	1	1	2	2	1	1	1	1	1	1
665	680	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
680	695	1	1	2	1	1	3	2	2	2	1	1	1	1	2	1	2	1	2
695	710	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1
710	725	1	1	1	1	1	3	1	1	1	1	1	1	1	1	2	1	1	1
725	740	1	1	1	3	2	1	1	2	2	2	1	1	1	1	2	1	1	1
740	755	1	1	2	1	1	1	1	1	1	1/2	1/2	1	1	1	1	1	1	1
755	770	1	2	2	2	2	1	1	2	2	2	1	1	1	1	1	1	1	1
770	785	1	1	3	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1
785	800	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1
800	815	1	1/2	1/2	1/2	1	1	2	2	1	2	1	1	2	1	1	1	1	1
815	830	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
830	845	1	1	1	1	1	1	1	1/2	1/2	1	2	2	2	1/2	1/2	1/2	1/2	1/2
845	860	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
860	875	1	1	1	2	2	1/2	1/2	1/2	1/2	1	1	1	1/2	1/2	1	1/2	1/2	1/2
875	890	1	1	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1	1	1	1/2	1/2	1/2	1/2	1/2
890	905	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1	1	1	1	1	1	1	1	1
905	920	1	1	1	1	1	1	1	1	1	1/2	1/2	1/2	1/2	1	1	1/2	1/2	1/2
920	935	1/2	1	1	1/2	1/2	1/2	1/2	1/2	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1/2
935	950	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1/2
950	965	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1/2
965	980	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1/2
980	995	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1/2
995	1010	1/2	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1	1	1	1	1/2	1/2	1/2	1/2	1
1010	1025	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2
1025	1040	1	1	4	5	6	6	3	4	6	3	3	4	6	4	4	4	4	1
1040	1055	2	4	7	6	6	7	5	7	8	5	8	7	4	4	4	4	4	4
1055	1070	5	2	3	3	3	4	4	3	4	5	5	3	3	3	3	4	3	4
1070	1085	3	4	4	4	5	4	4	4	3	3	3	3	4	3	3	3	3	3
1085	1100	3	3	4	3	3	4	2	2	4	3	3	3	3	2	4	2	4	4
1100	1115	6	6	7	5	5	8	7	8	8	5	2	3	2	2	2	2	2	2

Cir @ 1009

DEPTH

REMARKS

Base core @ 07