

Wells Drilled Into Precambrian Rock in Kansas

by

Virgil B. Cole, Daniel F. Merriam,
Paul C. Franks, William W. Hambleton, and Paul L. Hilpman

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Chancellor of the University, and ex officio Director of the Survey

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State Geologist and Director

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WELLS DRILLED INTO PRECAMBRIAN ROCK IN KANSAS

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ABSTRACT

Information arranged by township and range concerning name, location, elevation, depth to Precambrian, total depth, Precambrian rock type, and rock unit overlying the Precambrian surface is included for each of approximately 2100 wells drilled to Precambrian rocks in Kansas through December 31, 1960.

WELLS DRILLED INTO PRECAMBRIAN ROCK IN KANSAS

INTRODUCTION

Precambrian rocks are not exposed in Kansas, but are extensively known from well data. It is estimated that approximately 2100 wells have penetrated the Precambrian basement-rock complex, which is within about 600 feet of the ground surface at the shallowest depth in northeastern Kansas and deepest at about 9,500 feet in the southwestern part of the state. Thus, the sedimentary strata appear only as a thin veneer over the basement complex, which is a buried extension of the Canadian Shield that is exposed farther to the north and northeast.

In Kansas, as throughout the Midcontinent region of the United States, structural development has been controlled in part by the Precambrian basement. The need for basement studies therefore has become increasingly evident. Detailed knowledge of basement configuration and lithology is essential to study of structural and stratigraphic traps for petroleum reserves in younger rocks; interpretation of geophysical anomalies is dependent upon critical basement data. Moreover, papers by Walters (1946, 1953), Walters and Price (1948), Landes (1939), and Landes and others (1960) have stressed the importance of petroleum production from basement rocks; and Lyons (1959) has suggested that the basement is an unexplored frontier in terms of mineral development.

Recognition of these problems by the American Association of Petroleum Geologists led to the appointment of a Basement Rocks Project Committee in February 1957 under the chairmanship of P. T. Flawn. This committee was charged with gathering data on available samples and cores of basement rocks, arranging for permanent storage of such material, encouragement of research and publication, and publication of basement maps. The State Geological Survey of Kansas, also recognizing need for basement studies, set up a basement study project; preliminary results were published by Farquhar (1957a). Further, a Basement Rocks Committee under the chairmanship of V. B. Cole was appointed by the Kansas Geological Society in 1958; the committee membership included P. C. Franks, D. D. Goodrich, W. W. Hambleton, P. L. Hilpman, E. A. Koester, and D. F. Merriam.* The objectives of this committee were to compile a complete list of wells drilled into the Precambrian rocks in Kansas,

* Roy P. Lehman was appointed to the committee in 1961.

compile a basement configuration map based on these wells, and encourage study of basement lithology. The efforts of this committee were to be coordinated with those of the Basement Rocks Project Committee of the American Association of Petroleum Geologists to the extent of supplying well information for publication of a basement configuration map of North America. The present publication lists wells drilled into the basement in Kansas through 1960; it is a cooperative venture of the Kansas Geological Society and the State Geological Survey of Kansas.

It is anticipated that supplements to this list will be published at appropriate intervals in the future. Obviously, regardless of a concerted effort on the part of the committee, the list probably does not include all wells that penetrated Precambrian rocks in Kansas. Records of many wells believed to have been drilled in eastern Kansas are not available. Listings of these wells have been omitted except where verification could be made by personal communication. Records of some other wells have been omitted because of uncertainties as to location, elevation, and Precambrian penetration. Every effort will be made to keep the list of wells current, and additions will be made if omissions are discovered. Information that will make the record complete is solicited.

Under direction of the Kansas committee, a Precambrian configuration map is presently being compiled. This undertaking should be available in published form early in 1961. Much information in addition to authenticated Precambrian tests is being used in preparation of this map.

The Kansas Survey also is making a collection of thin sections of Precambrian rocks both from cuttings and core samples. Donations of cores or cuttings will be gratefully accepted.

The information will be kept on file in the offices of the Kansas Survey at The University of Kansas, Lawrence, and will be available to all interested students of Precambrian geology. As data accumulate, it is hoped that other basement studies will be started.

Acknowledgments—The number of individuals and companies that supplied information or helped assemble data for this list is so large that it is impossible to acknowledge individual contributions. Therefore, we extend to all concerned a most deserved and wholehearted thanks. We fully recognize that without the cooperation of the entire Kansas petroleum industry such an undertaking would be a much more difficult if not impossible task.

PRECAMBRIAN ROCKS

The Precambrian complex consists mainly of igneous and metamorphic rocks. Granite is by far the most extensive rock type recorded because: (1) granite is used synonymously with Precambrian to signify futility of further oil or gas exploratory drilling, and (2) most areas where Precambrian is shallow enough to be encountered occur on uplifts where the rocks are mainly granite. "Granite wash" is a term used for weathered or detrital material in a zone on the Precambrian surface. The age of this material varies from place to place depending on local geologic conditions.* Only a few wells have been drilled into Precambrian rock in Kansas structural basins, but seemingly there are extensive areas of metamorphic rock. The distribution of different rock types is at best only poorly known. The stratigraphic relation of the Precambrian to younger sedimentary rocks in Kansas is diagrammatically depicted in Figure 1.

The overall composition of Precambrian rocks on a state-wide basis is summarized by Farquhar (1957a, p. 53):

The metamorphic group consists mainly of quartzite, granulite, schist, phyllite, and gneiss. Impure marble has been reported in two places. Some of the gneiss is metasedimentary, and some is foliated "earlier" granite, injected about the time of regional metamorphism. The intrusive suite is composed mostly of Precambrian "later" granite, but a few wells near the center of the state encounter gabbro and syenite, probably also Precambrian in age. Widely scattered minor intrusives include diabase and pegmatite.

Walters (1946) did much detailed work on the Precambrian in an area in Barton County in the central part of the state and found many rock types, including quartzite, schist, granite, syenite, granite-gneiss, and pegmatite. In addition to these rock types, rocks such as rhyolite and latite porphyry also have been encountered.

*In this report, in wells where Reagan is absent, "granite wash" is interpreted to be the top of pre-Reagan (Cambrian) rocks, or Precambrian. "Granite wash" is used also to describe rocks occurring below recognizable Reagan (Cambrian) sandstone and sandy dolomite; other terms used are arkose, arkosic sandstone, or "red clastics". Great thicknesses of such rocks have been penetrated in central Kansas (Ellsworth-Geneseo area), southeastern Nebraska, western and northwestern Missouri, and southwestern Iowa. The pre-Upper Cambrian sediments of very coarse and fine sand and shale containing traces of feldspar and mica are thought to be Precambrian rather than Lower of Middle Cambrian because: (1) there is lack of any faunal evidence, (2) "no lower or middle Cambrian sediments are known in the Midcontinent area" (Skillman, 1948).

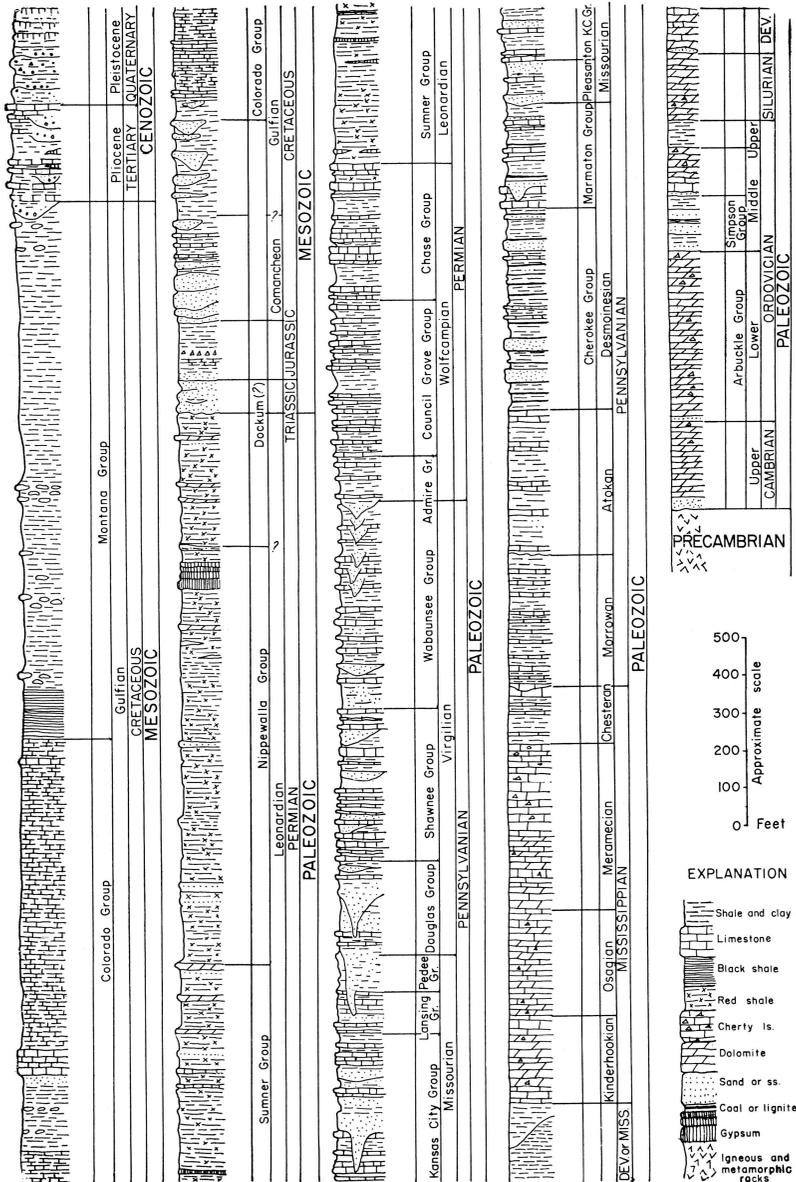


FIGURE 1.—Composite stratigraphic column of rocks present in Kansas. (modified from Moore and others, 1952).

A major unconformity representing an erosional period of unknown duration occurs at the top of Precambrian rocks.

PRECAMBRIAN CONFIGURATION

Many maps of the present configuration of the Precambrian in Kansas have been prepared and each successive map has been more detailed because of increased well control. The last published map is reproduced here (Figure 2) to show the generalized configuration. Farquhar, concerning the Precambrian surface, writes (1957a, p. 53):

Precambrian rocks have been affected by major movements in at least four Paleozoic and later periods. Principally in central and eastern Kansas, anticlinal structures have resulted from recurrent uplift. . . . Both the Precambrian surface and all overlying rocks in existence at the time when movement took place show the effect of that movement. Structures in post-Precambrian strata are controlled by irregularities of the uplifted Precambrian surface only locally, however, where this surface was temporarily exposed and eroded. Some degree of differential compaction of the post-Precambrian strata took place around buried Precambrian hills.

A new map is now being prepared from available information.

LIST OF PRECAMBRIAN WELLS

The list (Table 1), which is arranged by township in the west and east ranges, includes name of the well, location, surface elevation, depth to Precambrian rock, datum of Precambrian surface, total depth, lithology of Precambrian rock penetrated, and sedimentary rock unit resting on Precambrian. These data have been compiled from electric and radioactivity logs, top cards, drillers logs, sample logs, and logs of the Kansas Sample Log Service. Published sources of information are included in the selected bibliography at the end of this paper.

All doubtful wells have been verified by information from at least two sources. Every effort has been made to cite correct information. Elevations, Precambrian rock types, and sedimentary rock unit overlying the Precambrian surface were the most difficult items to check, especially if a log of some kind was not available.

Precambrian lithologies marked with an asterisk are based on petrographic study of samples and thin sections by Farquhar (1957a); lithologies marked with two asterisks have been examined in thin section by P. C. Franks.

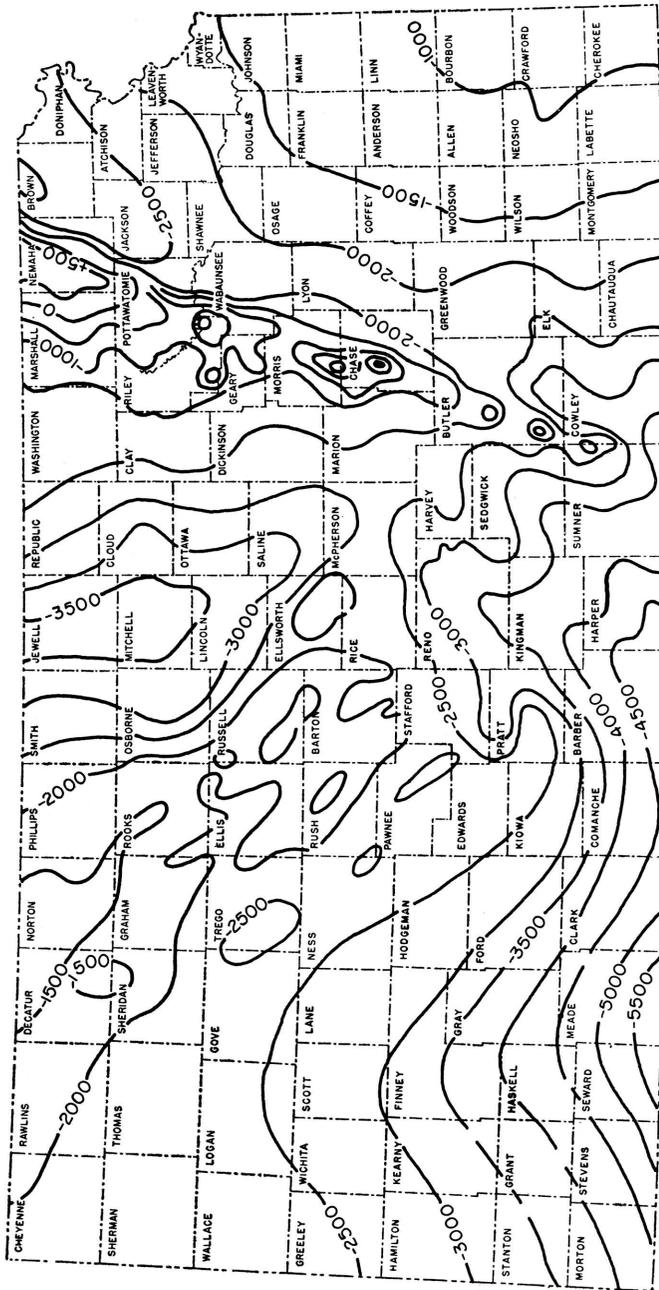


FIGURE 2.—Contour map showing relief of Precambrian surface in Kansas, contour interval 500 feet, sea level datum (from Farquhar, 1957a). Configuration of contours reveals Nemaha Anticline extending from Nemaha County southwestward through Cowley County. Central Kansas Uplift (mainly in Russell, Ellis, Barton, and Rush Counties) and Cambridge Arch (Norton and Decatur Counties) are other prominent major “highs”.

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Phillips	Sinclair Prairie No. 1 Johnson	33-1-19W NE NE NW	2190	4092	-1902	quartz schist, quartzite, and granite gneiss*	Arbuckle	4102
Norton	Empire Drilling No. 1 Atens Estate	6-1-22W SE SE SW	2387	3648	-1261	37 ft. granite wash on granite	Marmaton	3695
Do	Jones, Shelburne & Farmer No. 1 Howell	9-1-22W NW NW NW	2331	3665	-1334	30 ft. granite wash on granite	Arbuckle	3703
Do	Jones, Shelburne & Farmer No. 1 Gramzow	10-1-22W NE NE SW	2331	3723	-1392	17 ft. granite wash on granite	Arbuckle	3745
Do	Jones, Shelburne & Farmer No. 1 Keene	18-1-22W NE NE SE	2395	3702	-1307	8 ft. granite wash on granite	Marmaton	3710
Do	Jones, Shelburne & Farmer No. 1 McClelland	28-1-22W NW NW NW	2358	3761	-1403	6 ft. granite wash on granite	Arbuckle	3770
Do	C & G and Brooks Hall No. 1 Kindall	31-1-22W NE NE NE	2433	3770	-1337	7 ft. granite wash on granite	Marmaton	3783
Do	Phillips, Helmerich & Payne No. 1 Wyatt	20-1-23W E2 NE NE	2359	3577	-1218	33 ft. granite wash on granite	Marmaton	3618
Do	Jones, Shelburne & Farmer No. 1 Browne	32-1-23W NE NE NE	2460	3707	-1247	23 ft. granite wash on granite	Marmaton	3738
Do	Great Lakes Carbon No. 1 Minshall	35-1-23W SE SE SE	2412	3724	-1312	26 ft. weathered granite	Marmaton	3785
Do	Hansen No. 1 Anderson	20-1-24W C SW SW	2417	3567	-1150	granite wash	Marmaton	3601
Do	Empire Drilling No. 1 Tansill	26-1-24W NW NE NE	2391	3599	-1208	23 ft. granite wash on granite	Marmaton	3624

Wells Drilled Into Precambrian Rock in Kansas

Norton	Hansen No. 1 Thompson	28-1-24W SE SE SE	2410	3611	-1201	30 ft. granite wash on granite	Marmaton	3650
Do	Jones, Shelburne & Farmer No. 1 Brown	36-1-24W NE NE NW	2388	3604	-1216	granite wash	Reagan	3608
Do	Gulf No. 1 Butler	16-1-25W SE SW SW	2426	3596	-1170	42 ft. granite wash on granite	Marmaton	3642
Do	British-American No. 1 Yunt	25-1-25W C NW NW	2403	3555	-1152	34 ft. granite wash on granite	Marmaton	3658
Decatur	Stanolind No. 1 McCue	29-1-26W NW NW SE	2554	3632	-1078	granite	Marmaton	3641
Do	Hansen No. 1 Sater	1-1-27W SW SW NW	2566	3605	-1039	granite	Cherokee	3617
Do	Hansen No. 2 Sater	1-1-27W NW NW SW	2567	3584	-1017	weathered granite	Cherokee	3600
Do	Hansen No. 5 Sater	1-1-27W SE SW SW	2545	3634	-1089	granite wash	Cherokee	3650
Do	Sauvage & Dunn No. 1 Kilzer	2-1-27W SW SW NW	2584	3614	-1030	granite wash	Cherokee	3635
Do	Cities Service No. 3 Sater	2-1-27W NE NE SE	2586	3600	-1014	granite wash	Cherokee	3618
Do	Helmerich & Payne No. 1 Sauvage	3-1-27W NE NE NE	2612	3655	-1043	27 ft. granite wash on granite	Cherokee	3685
Do	Sauvage No. 1 Weatherwax	4-1-27W NW NW SE	2617	3661	-1044	61 ft. granite wash on granite	Reagan	3723
Do	Dunn & Sauvage No. 1 Foley	5-1-27W SW SE NW	2650	3704	-1054	granite	Cherokee	3714
Do	Cities Service No. 1 Van Vleet	9-1-27W NW NE NW	2559	3589	-1030	19 ft. granite wash on granite	Cherokee	3611

*Reported in Farquhar (1957a).

**Petrographic examination by P. C. Franks, Kansas Geological Survey.

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation of Precambrian, feet		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Decatur	Cities Service No. 1 Hendricks	9-1-27W SW SW NE	2567	3624	-1057	13 ft. granite wash on granite	Cherokee	3642
Do	Cities Service No. 1 Redman	11-1-27W SW SE NW	2499	3500	-1001	granite wash	Cherokee	3514
Do	Cities Service No. 1 "E" Warner	11-1-27W NE NE SW	2485	3474	- 989	granite wash	Cherokee	3530
Do	Great Basins No. 1 Huff	15-1-27W SE SE NE	2482	3515	-1033	52 ft. granite wash on granite	Cherokee	3575
Do	Cities Service No. 1 Catheart	17-1-27W SE SW SE	2551	3606	-1055	granite wash	Cherokee	3616
Do	Sauvage & Dunn No. 1 Wooley	25-1-27W NW NW SW	2544	3670	-1126	34 ft. granite wash on granite	Cherokee	3707
Do	Helmerich & Payne No. 1 Harger	29-1-27W SE SE NE	2541	3648	-1107	34 ft. granite wash on granite	Cherokee	3688
Do	Great Basins No. 1 Betts	31-1-27W SE SE NW	2512	3767	-1255	26 ft. granite wash on granite	Cherokee	3808
Do	Jones, Shelburne & Farmer No. 1 Metcalf	34-1-27W SW SW SW	2509	3697	-1188	35 ft. granite wash on granite	Cherokee	3760
Do	Great Basins No. 1 Com. Bank of Nelson	23-1-28W NW NW SW	2641	4026	-1385	29 ft. granite wash on granite	Reagan	4064
Rawlins	Skelly No. 1 Kompus	33-1-32W SW SW SW	2971	4620	-1649	red coarsely crystalline fractured granite	Reagan	4641
Do	Skelly No. 1 "A" Cahoj	8-1-34W SE SE SE	3141	4660	-1519	quartzite	Mississippian	4677

Wells Drilled Into Precambrian Rock in Kansas

Rawlins	Skelly No. 3"A" Cahoj	8-1-34W SE SW SE	3100	4637	-1537	quartzite	Mississippian	4644
Do	British-American No. 1 Horinek	12-1-34W C NE SE	3076	4630	-1554	granite	Cherokee	4640
Do	Imperial No. 1 Fikan	14-1-34W SE NW NW	3144	4721	-1577	quartzite	Mississippian	4758
Do	Skelly No. 1 Cahoj	17-1-34W SE SE NE	3159	4696	-1537	quartzite	Mississippian	4732
Do	Skelly No. 1"B" Cahoj	18-1-34W SE SE SE	3186	4774	-1588	quartzite	Mississippian	4778
Do	Stanolind No. 4 Stratigraphic test	20-1-34W SW SW NE	3197	4809	-1612	quartzite	Arbuckle	4817
Do	Skelly No. 1 Horinek	21-1-34W SE NW NW	3180	4946	-1766	quartzite	Reagan	4953
Cheyenne	Brack No. 1"B" Judy	26-1-39W SE SE NW	3117	5140	-2023	granite	Reagan	5142
Do	Deep Rock No. 1 Clark	23-1-42W SW SW SW	3456	5565	-2109	granite wash	Reagan	5632
Phillips	Mazda No. 1 Brands	19-2-19W SW SW SW	2235	4110	-1875	granite wash	Arbuckle	4121
Do	British-American No. 1 Miller	34-2-19W C3 SW SW	2146	3990	-1844	granite wash	Arbuckle	4005
Do	Carter No. 1 Friebus	36-2-19W CWL SW NW	2096	3815	-1719	46 ft. granite wash on granite, quartz schist & quartzite*	Reagan?	3861
Norton	Sohio No. 1 Reeves	3-2-22W NE NE SW	2330	3748	-1418	granite	Arbuckle	3755
Do	Cities Service No. 1 Heaton	15-2-22W SW SE SE	2232	3657	-1425	granite wash	Arbuckle	3667

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Norton	Empire Drilling No. 1 Schilling	18-2-22W NE NE NE	2332	3691	-1359	35 ft. granite wash on granite	Arbuckle	3740
Do	Empire Drilling No. 1 Brooks	19-2-22W SE SE NW	2318	3688	-1370	granite	Arbuckle	3693
Do	Empire Drilling & Somers No. 1 Wallack	9-2-23W NW NW NE	2423	3718	-1295	granite wash	Arbuckle	3755
Do	Jones, Shelburne & Farmer No. 1 "B" Sanderson	18-2-23W NW NW NW	2451	3733	-1282	2 ft. granite wash on granite	Reagan	3750
Do	Empire Drilling No. 1 McMullen	19-2-23W NE NE NE	2412	3723	-1311	granite wash	Reagan	3735
Do	Empire Drilling No. 1 Kohfeld	21-2-23W SE SE SW	2365	3635	-1270	17 ft. granite wash on granite	Arbuckle	3653
Do	Rine Drilling No. 1 Wallack	22-2-23W C NE NW	2403	3706	-1303	27 ft. granite wash on granite	Arbuckle	3733
Do	Farmer No. 1 Ballinger	23-2-23W SE SE SE	2281	3634	-1353	12 ft. granite wash on granite	Arbuckle	3653
Do	C & G No. 1 Sanders	25-2-23W SE SE SE	2242	3625	-1383	weathered granite	Reagan	3661
Do	Murfin, Shawver & Armour No. 1 Hahn	25-2-23W SW SW NE	2271	3631	-1360	granite wash	Arbuckle	3645
Do	Jones, Shelburne & Farmer No. 1 City of Norton	27-2-23W NE NE SE	2347	3648	-1301	72 ft. granite wash on granite	Arbuckle	3730
Do	Empire Drilling No. 1 Wallack	27-2-23W NW NW NW	2354	3641	-1287	granite wash	Reagan	3660

Norton	Allan & Aylward No. 1 Lecky	29-2-23W SE SE NW	2365	3644	-1279	28 ft. granite wash on granite	Arbuckle	3691
Do	Jones, Shelburne & Farmer No. 1 Chase	2-2-24W SE SE NW	2453	3713	-1260	granite wash	Arbuckle	3720
Do	Jones, Shelburne & Farmer No. 1 Coler	6-2-24W NW NW SW	2513	3726	-1213	46 ft. granite wash on granite	Marmaton	3775
Do	Jones, Shelburne & Farmer No. 1 Sheldon	14-2-24W SE SE NE	2417	3680	-1263	20 ft. granite wash on granite	Reagan	3702
Do	Hansen No. 1 Duensing	20-2-24W NE NE SE	2499	3748	-1249	granite wash	Reagan	3775
Do	Jones, Shelburne & Farmer No. 1 Sidman	26-2-24W SW SW NW	2436	3694	-1258	24 ft. granite wash on granite	Marmaton	3726
Do	Barnett No. 1 Legg	32-2-24W SE SE SE	2407	3665	-1258	granite wash	Marmaton	3672
Do	Helmerich & Payne & Phillips No. 1 Laccount	1-2-25W C NE SE	2480	3692	-1212	21 ft. weathered granite	Marmaton	3727
Do	Barnett No. 1 Sebaugh	4-2-25W NW NW NW	2427	3672	-1245	19 ft. granite wash on granite	Marmaton	3693
Do	Jones, Shelburne & Farmer No. 1 Bishop	6-2-25W NE NE NW	2499	3748	-1249	69 ft. granite wash on granite	Reagan	3821
Do	Jones, Shelburne & Farmer No. 1 Hansen	9-2-25W SE SE SE	2524	3765	-1241	granite	Marmaton	3766
Do	Kaiser & Francis No. 1 Strayer	12-2-25W SE SE SW	2506	3744	-1238	granite wash	Marmaton	3769
Do	Jones, Shelburne & Farmer No. 1 Bolliger	17-2-25W SW SW SW	2506	3812	-1306	6 ft. granite wash on granite	Arbuckle	3820
Do	Jones, Shelburne & Farmer No. 1 Bishop	24-2-25W NE NE NW	2499	3748	-1249	42 ft. granite wash on granite	Reagan	3821

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Norton	Cities Service No. 1 C ^o , Young	35-2-25W SW SW NE	2513	3799	-1286	10 ft. granite wash on granite	Reagan	3810
Decatur	Jones, Shelburne & Farmer No. 1 Alexander	1-2-26W SE SE SE	2469	3735	-1266	11 ft. granite wash on granite	Arbuckle	3749
Do	Jones, Shelburne & Farmer No. 1 Eckhart	3-2-26W SE SE SE	2516	3664	-1148	42 ft. granite wash on granite	Marmaton	3718
Do	Huber No. 1 Railsback	5-2-26W SE SE NE	2581	3735	-1154	45 ft. granite wash on granite	Marmaton	3790
Do	C & G No. 1 Schwab	6-2-26W NW NW SW	2570	3692	-1122	56 ft. granite wash on granite	Marmaton	3757
Do	Strain & Hall No. 1 Odle	14-2-26W NW NW SE	2508	3783	-1275	48 ft. granite wash on granite	Arbuckle	3833
Do	Empire Drilling No. 1 New	15-2-26W NW NW SW	2560	3811	-1251	19 ft. granite wash on granite	Arbuckle	3840
Do	Ayesh No. 1 Stapp	16-2-26W NW NW SW	2586	3811	-1225	21 ft. granite wash on granite	Marmaton	3835
Do	Jones, Shelburne & Farmer No. 1 Thomsen	18-2-26W NE NE NW	2638	3825	-1187	granite wash	Marmaton?	3871
Do	Marland No. 1 Reager	25-2-26W SW NE NE	2587	3865	-1278	granite wash	Reagan?	3986
Do	Jones, Shelburne & Farmer No. 1 Holben	30-2-26W NW NW NW	2668	4028	-1360	4 ft. granite wash on granite	Reagan	4040
Do	Stanolind No. 1 Hale	32-2-26W SE SE SE	2640	4007	-1367	granite	Arbuckle	4020

Wells Drilled Into Precambrian Rock in Kansas

Decatur	Franco Central No. 1 Uehlin	6-2-27W NE SW NW	2562	3958	-1396	granite	Reagan	3961
Do	Carey No. 1 Monaghan	15-2-27W SW SW SW	2608	3978	-1370	31 ft. granite wash on granite	Arbuckle	4015
Do	Jones, Shelburne & Farmer No. 1 Fortin	17-2-27W NE NE NE	2598	3990	-1392	8 ft. granite wash on granite	Reagan	3999
Do	Zoller & Carey No. 1 Edwards	21-2-27W NE NE NE	2643	4006	-1363	granite wash	Arbuckle	4022
Do	Helmerich & Payne No. 1 Jorn	28-2-28W SE SE SW	2529	4147	-1618	15 ft. granite wash on granite	Reagan	4163
Rawlins	K & E and Bradley No. 1 Focke	16-2-34W NW NW SE	3136	5069	-1933	rhyolite	Reagan	5091
Phillips	Sinclair Prairie No. 1 Dill	13-3-19W SE SE SE	1986	3872	-1886	weathered granite	Arbuckle	3889
Do	Watsonian No. 1 Merklein	21-3-19W NE NE SW	2214	3925	-1711	"schist"	Arbuckle	4071
Do	Sinclair Prairie No. 1 Cummings	2-3-20W SW NW NW	2156	3960	-1804	5 ft. quartzite on granite	Reagan	3968
Norton	C & G No. 1 Fisher	3-3-22W NE NE NW	2272	3765	-1493	granite wash	Arbuckle	3770
Do	Jones, Shelburne & Farmer No. 1 Harper	19-3-22W SW SW NW	2452	3859	-1407	23 ft. granite wash on granite	Arbuckle	3887
Do	Petroleum, Inc. No. 1 Allan	30-3-22W SE SE NE	2417	3875	-1458	19 ft. granite wash on granite	Arbuckle	3909
Do	Allan-Aylward No. 1 Fed. Farm Mortg. Corp.	33-3-22W NE NE SW	2305	3859	-1554	4 ft. granite wash on granite	Arbuckle	3864
Do	Jones, Shelburne & Farmer No. 1 Henderson	3-3-23W SE SE SW	2270	3582	-1312	granite wash	Arbuckle	3585
Do	Keating No. 1 Wesley	4-3-23W NW NW NE	2304	3602	-1298	10 ft. granite wash on granite	Reagan	3628

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Norton	Jones, Shelburne & Farmer No. 1 Coleman	5-3-23W NW NW NE	2361	3629	-1268	15 ft. granite wash on granite	Marmaton	3655
Do	Helmerich & Payne and Phillips, No. 1 Conway	7-3-23W C SE NE	2348	3623	-1275	15 ft. granite wash on granite	Marmaton	3640
Do	Gore No. 1 Snyder	9-3-23W NE NE NW	2274	3557	-1283	granite wash	Lansing-Kansas City?	3575
Do	Burch No. 1 Henderson	10-3-23W SW SW NW	2286	3581	-1295	granite wash	Lansing-Kansas City?	3600
Do	Hall No. 1 Horesky	10-3-23W NW NW SE	2333	3649	-1316	25 ft. granite wash on granite	Arbuckle	3682
Do	Great Lakes Carbon No. 1 Muir	12-3-23W NW NW SW	2344	3694	-1350	11 ft. granite wash on chloritized granite*	Arbuckle	3722
Do	C & G and Hansen No. 1 Horesky	15-3-23W NE NE SE	2428	3746	-1318	14 ft. granite wash on granite	Arbuckle	3810
Do	Jones, Shelburne & Farmer No. 1 Campbell	17-3-23W NE NE NE	2319	3598	-1279	30 ft. granite wash on granite	Marmaton	3650
Do	Jones, Shelburne & Farmer No. 1 "C" Ankeman	20-3-23W NW NW SW	2407	3719	-1312	44 ft. granite wash on granite	Marmaton	3765
Do	United Drilling No. 1 Horesky	21-3-23W SW SW SW	2446	3741	-1295	granite	Marmaton	3764
Do	Jones, Shelburne & Farmer No. 1 Sneed	21-3-23W SW SW SE	2380	3765	-1385	19 ft. granite wash on granite	Reagan	3785
Do	Lario No. 1 Kennedy	22-3-23W SW SW NW	2355	3652	-1297	28 ft. granite wash on granite	Marmaton	3692

Wells Drilled Into Precambrian Rock in Kansas

Norton	Jones, Shelburne & Farmer No. 1 Stewart	26-3-23W NE NE NE	2401	3741	-1340	17 ft. granite wash on granite	Reagan?	3778
Do	K & E and Vye No. 1 Horesky	28-3-23W NE NE SW	2460	3770	-1310	32 ft. granite wash on granite	Marmaton	3826
Do	Hansen No. 1 Cope	29-3-23W SW SW NW	2435	3787	-1352	10 ft. granite wash on granite	Reagan	3800
Do	Hansen No. 3 Cope	29-3-23W W2 W2 SW	2457	3837	-1380	10 ft. granite wash on granite	Reagan	3848
Do	Hansen No. 5 Cope	29-3-23W N2 N2 SW	2457	3815	-1358	119 ft. granite wash on granite	Reagan	3950
Do	Jones, Shelburne & Farmer No. 1 Horesky	29-3-23W SE SE SE	2379	3770	-1391	granite	Arbuckle	3779
Do	Gore No. 8 Lawson	30-3-23W SW SW NW	2346	3666	-1320	39 ft. reworked quartz on granite	Pennsylvanian?	3710
Do	Hansen No. 4 Weber	30-3-23W SE SE SW	2386	3740	-1354	"schist"	Reagan	3741
Do	Hansen No. 5 Weber	30-3-23W SW SW SE	2412	3765	-1353	granite wash	Reagan	3810
Do	Hansen No. 14 Weber	30-3-23W E2 E2 SW	2399	3758	-1359	3 ft granite wash on granite	Reagan	3863
Do	Jones, Shelburne & Farmer No. 1 Carr-Sneed	31-3-23W SW SW SE	2379	3765	-1386	20 ft. granite wash on granite	Reagan	3785
Do	Jones, Shelburne & Farmer No. 1 LeBeau	33-3-23W SE SE NE	2420	3752	-1332	13 ft. granite wash on granite	Marmaton	3784
Do	Gore No. 1 Hershiser	34-3-23W SE SE SE	2438	3768	-1330	33 ft. granite wash on granite	Marmaton	3814
Do	Phillips No. 1 Myra	36-3-23W NE NE NW	2360	3705	-1345	weathered pink granite	Marmaton	3732
Do	Helmerich & Payne No. 1 Smith	36-3-23W SE SE NE	2350	3729	-1379	32 ft. granite wash on granite	Marmaton	3772

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Norton	Savage No. 1 Collins	6-3-24W NW NW SW	2467	3721	-1254	granite wash	Marmaton	3740
Do	Savage & Dunn No. 1 Collins	6-3-24W SE SW SW	2473	3745	-1272	granite wash	Marmaton	3786
Do	Trans Era & Appleman No. 1 King	17-3-24W SW SW SE	2400	3663	-1263	8 ft. granite wash on granite	Marmaton	3675
Do	Jones, Shelburne & Farmer No. 1 Gooder	23-3-24W NE NE NE	2380	3674	-1294	37 ft. granite wash on granite, locally pegmatitic*	Marmaton	3720
Do	Gore No. 2 Lawson	25-3-24W NE SE SE	2408	3743	-1335	granite wash	Reagan	3756
Do	Gore No. 4 Lawson	25-3-24W NE NE SE	2365	3691	-1326	schist	Reagan	3705
Do	Gore No. 5 Lawson	25-3-24W SW SE NE	2396	3739	-1343	granite	Reagan	3740
Do	Trusco No. 1 Hall-Green	25-3-24W W2 SW NE	2452	3769	-1317	quartzite	Marmaton	3770
Do	Allen & Aylward No. 1 Porter	26-3-24W NW NW NW	2368	3697	-1329	weathered granite	Marmaton	3743
Do	Empire Drilling No. 1 Davis	26-3-24W SE SE SW	2424	3768	-1344	chlorite-mica schist	Marmaton	3820
Do	Savage & Dunn No. 1 Porter	26-3-24W SE SE NW	2423	3767	-1344	granite wash	Marmaton?	3792
Do	Jones, Shelburne & Farmer No. 1 Brown	27-3-24W SW SW SW	2453	3767	-1314	27 ft. granite wash on granite	Marmaton?	3799
Do	Jones, Shelburne & Farmer No. 1 Ankeman	29-3-24W SW SW SE	2402	3746	-1344	43 ft. granite wash on granite	Reagan	3811

Wells Drilled Into Precambrian Rock in Kansas

Norton	Gore and Trans Era No. 1 Clark	30-3-24W SW SW NE	2420	3783	-1363	33 ft. granite wash on granite	Reagan	3830
Do	C & G. and Aurora No. 1 Brunson	32-3-24W SE SE SE	2404	3755	-1351	30 ft. granite wash on granite	Reagan	3842
Do	Gore No. 1 Brunson	32-3-24W NW NW SW	2469	3839	-1370	59 ft. granite wash on granite	Reagan	3912
Do	Jones, Shelburne & Farmer No. 1 Conover	34-3-24W SE NE SE	2427	3753	-1326	schist	Reagan?	3783
Do	Gore No. 1 Henry	35-3-24W SE NE SW	2423	3753	-1330	quartz, biotite schist	Reagan	3757
Do	Derby No. 4 Schoen	35-3-24W C SE	2435	3770	-1335	schist cut by granite, pegmatite*	Reagan	3800
Do	Derby No. 6 Schoen	35-3-24W S2 S2 SE	2472	3815	-1343	biotite schist	Reagan	3830
Do	Derby No. 7 Schoen	35-3-24W NW NW SE	2416	3749	-1333	schist	Arbuckle	3770
Do	Nixon No. 3 Henry	35-3-24W SW SE NW	2369	3711	-1342	quartzite	Arbuckle	3715
Do	Shields No. 1 Hicks	2-3-25W C SW NE	2482	3760	-1278	20 ft. granite wash on granite	Reagan	3833
Do	Henderson No. 1 Lechlitter	8-3-25W SW SW NE	2541	3938	-1397	granite	Reagan	3958
Do	Shields No. 1 Mizell	10-3-25W SW SW NW	2510	3880	-1370	granite wash	Arbuckle	3902
Do	Helmerich & Payne No. 1 Collins	11-3-25W C NE	2482	3770	-1288	weathered granite	Pennsylvanian? Reagan	3800 3897
Do	Cities Service No. 1 Mizell	15-3-25W NE NE SE	2463	3805	-1342	83 ft weathered granite on granite	Reagan	3897
Do	Anderson-Pritchard No. 1 Brooks	17-3-25W SE SE SE	2483	3882	-1399	granite	Reagan	3895

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Norton	Jones, Shelburne & Farmer No. 1 Brunk	22-3-25W NW NW NW	2397	3784	-1387	7 ft. granite wash on granite	Reagan	3822
Do	Schermerhorn No. 1 Schoen	23-3-25W C SW NE	2435	3776	-1341	granite wash	Arbuckle	3826
Do	Trans Era No. 1 Humphrey	25-3-25W N2 NE NE	2340	3702	-1362	16 ft. granite wash on granite	Reagan	3730
Do	Murfin and Aurora No. 1 Schoen	26-3-25W SE SW SE	2440	3877	-1437	30 ft. granite wash on granite	Arbuckle	3917
Do	Empire Drilling No. 1 Gray	27-3-25W SW SE SE	2388	3855	-1467	granite wash	Reagan	3875
Do	Jones, Shelburne & Farmer No. 1 Eckhart	33-3-25W NE NE NW	2383	3886	-1503	granite wash	Reagan	3911
Decatur	Farmer No. 1 Brunk	6-3-26W C NW NW	2660	4140	-1480	granite wash	Arbuckle	4142
Do	Wentworth No. 1 Vessey	26-3-26W C NW SE	2501	4128	-1627	biotite granite	Arbuckle	4150
Do	Imperial No. 1 Krizek	28-3-27W SE SE SE	2630	4079	-1449	weathered red and pink granite	Arbuckle	4081
Do	Phillips (Westgate-Greenl'd) No. 1 Vernon	32-3-28W C NE NE	2746	4380	-1634	14 ft. granite wash on granite	Reagan	4400
Do	Anderson-Pritchard No. 1 Pollnow	4-3-29W NE NW SW	2704	4397	-1693	granite	Reagan	4406
Phillips	Westgate-Greenland No. 1 Shaw	18-4-18W NW NW SE	1946	3603	-1657	granite	Arbuckle	3619

Phillips	Carter No. 1 Jackson	20-4-18W C NW NW	1892	3472	-1580	23 ft. quartzite on granite	Arbuckle	3510
Do	Sohio No. 1 Krause	1-4-19W SE SE SE	2013	3615	-1602	quartzite	Reagan	3621
Do	Stanolind No. 1 Brenneke	2-4-19W SE SE SE	1987	3758	-1771	granite cut by quartz vein*	Arbuckle	3788
Do	Helmerich & Payne No. 1 Baird	8-4-19W NE NE NE	2060	3938	-1878	pegmatitic granite*	Reagan	3965
Do	Sohio No. 1 Meyer	12-4-19W NW NE NE	1998	3616	-1618	quartzite	Arbuckle	3622
Do	Helmerich & Payne No. 1 Kinter	20-4-19W SW NW NW	1945	3815	-1870	17 ft. granite wash on granite	Reagan	3832
Do	Lario No. 1 Lynch Estate	24-4-20W S2 SE SW	2018	3835	-1817	granite	Reagan	3848
Do	Rine No. 2 "A" Lynch	25-4-20W C NW NW	2011	3810	-1799	granite	Reagan	3825
Do	NCRA No. 1 Becker	29-4-20W SW SW SW	2070	3647	-1577	granite wash	Arbuckle	3660
Norton	Phillips and Helmerich & Payne, No. 1 Hewett	11-4-21W S2 SE NE	2161	3746	-1585	pyroxene, quartz	Arbuckle	3750
Do	Jones, Shelburne & Farmer No. 1 Wiles	16-4-22W SW SW NW	2365	3880	-1515	5 ft. granite wash on granite	Reagan	3892
Do	Jones, Shelburne & Farmer No. 1 Wiley	19-4-22W SW SW SW	2256	3685	-1429	29 ft. granite wash on granite	Reagan	3720
Do	Empire Drilling & Trans Era No. 1 Troube	20-4-22W SW SW SW	2270	3734	-1464	28 ft. granite wash on granite	Reagan	3764
Do	Rex & Morris No. 1 Weathers	28-4-22W NW SW SE	2287	3797	-1510	weathered pink granite	Arbuckle	3807
Do	Gore No. 1 Walters	36-4-22W SW SW SE	2183	3702	-1519	granite	Reagan	3710

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Norton	Walters, Isern, and Sunray Mid-Continent, No. 1 Rife	1-4-23W SW SW SE	2300	3676	-1376	20 ft. granite wash on granite	Reagan	3732
Do	Allen & Aylward No. 1 Comstock	3-4-23W SW SW SW	2451	3871	-1420	pink granite	Arbuckle	3900
Do	Alpine and Royal† No. 1 Horesky	7-4-23W NW SW NE	2450	3834	-1384	granite wash	Arbuckle	3867
Do	Cities Service No. 1 Boucher	13-4-23W NE NE NE	2296	3724	-1428	86 ft. granite wash on granite	Marmaton	3813
Do	Cities Service No. 1 Fed. Farm Mortg. Corp.	15-4-23W SE SE SE	2391	3776	-1385	18 ft. granite wash on granite	Marmaton	3794
Do	Gore No. 1 Bullock	22-4-23W NE NE NW	2390	3801	-1411	50 ft. granite wash on granite	Marmaton	3857
Do	Texas No. 1 Harmonson	23-4-23W SE SE NE	2323	3723	-1400	12 ft. granite wash on granite*	Marmaton	3748
Do	Sohio No. 1 Schandler	28-4-23W NE NE NE	2298	3842	-1544	16 ft. granite wash on granite	Reagan	3874
Do	Cities Service No. 1 "E" Johnson	35-4-23W NE SE NE	2292	3740	-1448	granite wash	Reagan	3765
Do	Leben No. 1 Conkey	36-4-23W NE NE NE	2286	3736	-1450	granite	Marmaton	3748
Do	Jones, Shelburne & Farmer No. 1 Sanderson	1-4-24W SW SW SW	2521	3892	-1371	granite	Reagan	3905
Do	Hansen No. 1 Henry	2-4-24W NE SW NW	2492	3838	-1346	4 ft. granite wash on granite	Reagan	3843
Do	Hansen No. 1 Essert	3-4-24W NW NW SE	2488	3828	-1340	16 ft. granite wash on granite	Reagan	3855

Wells Drilled Into Precambrian Rock in Kansas

Norton	Great Lakes Carbon No. 1 Henry	3-4-24W NE NE NE	2427	3764	-1337	granite wash?	Reagan?	3767
Do	Jones, Shelburne & Farmer No. 1 Ankenman	4-4-24W NE NE SW	2458	3800	-1342	granite wash	Marmaton	3813
Do	Helmerich & Payne No. 1 Paxton	10-4-24W C NE SW	2533	3936	-1403	granite	Arbuckle	3963
Do	Texas No. 1 Reed	11-4-24W SE NE SW	2452	3846	-1394	19 ft. granite wash on granite	Arbuckle	3865
Do	Sinclair Prairie No. 1 Reed	12-4-24W SW SW NE	2458	3845	-1387	granite	Arbuckle	3869
Do	Hansen No. 1 Holman	24-4-24W NW NW NE	2382	3797	-1415	31 ft. granite wash on granite	Arbuckle	3831
Do	Stanolind No. 1 Steelsmith	28-4-24W SW SW SW	2390	3920	-1530	granite	Arbuckle	3932
Do	Aurora No. 1 Zimmerman	11-4-25W SW SW NE	2463	3960	-1497	granite wash	Reagan	3980
Decatur	Texas No. 1 Jennings	25-4-27W NE NE SW	2499	3766	-1267	pink granite	Cherokee	3780
Do	Texas No. 1 Keenan	25-4-27W NW NW SE	2499	3768	-1269	27 ft. granite wash on granite	Cherokee	3926
Do	Nye No. 1 Skubal	35-4-27W NE NE NE	2565	3852	-1287	15 ft. granite wash on granite	Cherokee	3880
Do	Continental No. 1 Chenowith	36-4-27W SE SW SE	2563	3860	-1297	biotite granite	Cherokee	3907
Rawlins	Sinclair Prairie No. 1 Robbins	32-4-35W SW SW NE	3142	5200	-2058	pink granite	Reagan	5219
Cheyenne	Phillips No. 1 St. Francis	15-4-39W W2 NW SW	3495	5508	-2013	granite**	Reagan	5514
Phillips	Phillips No. 1 McKinley	13-5-18W E2 SW SE	1996	3750	-1754	granite	Reagan	3985

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Phillips	Cities Service No. 1 Templeton	14-5-20W SW SE SW	2160	3720	-1560	30 ft. granite wash on granite	Reagan	3772
Do	Cities Service No. 1 "C" Hansen	14-5-20W SW SW SE	2165	3726	-1561	granite wash	Arbuckle	3799
Do	Cities Service No. 3 Templeton	14-5-20W SW SW SW	2108	3690	-1582	granite wash	Reagan	3697
Do	Cities Service (Aladdin) No. 1 Wiltout	18-5-20W CSL SE NE	2054	3707	-1653	19 ft. granite wash on granite	Reagan	3737
Do	Skelly No. 1 Graham	23-5-20W SW NW NW	2126	3523	-1397	granite wash	Arbuckle	3524
Do	Cities Service No. 1 Griffin	27-5-20W SW SW NW	2180	3674	-1494	weathered granite	Reagan	3683
Do	Cities Service No. 2 Griffin	27-5-20W SW SE NW	2169	3664	-1495	granite wash	Reagan	3685
Do	Cities Service No. 1 "B" Pearson	27-5-20W SW NW SW	2145	3598	-1453	38 ft. granite wash on granite	Reagan	3640
Do	Cities Service No. 1 "E" Reese	28-5-20W SW SW SE	2163	3630	-1467	60 ft. weathered granite on granite	Reagan	3692
Do	Cities Service No. 2 "E" Reese	28-5-20W SW NE SE	2171	3653	-1482	37 ft. granite wash on granite	Reagan	3694
Do	Cities Service No. 3 "E" Reese	28-5-20W SW SE NE	2170	3675	-1505	16 ft. granite wash on granite	Reagan	3699
Do	Cities Service No. 1 Vehige	28-5-20W SW SW SW	2180	3637	-1457	granite wash	Reagan	3654
Do	Cities Service No. 1 "B" Vehige	28-5-20W SW SW NW	2201	3652	-1451	schist	Reagan	3675

Wells Drilled Into Precambrian Rock in Kansas

Phillips	Cities Service No. 2" B" Vehige	28-5-20W SW SE NW	2179	3640	-1461	schist	Reagan	3645
Do	Cities Service No. 3 Vehige	28-5-20W SW NW SW	2180	3663	-1483	weathered diabase(?) *	Reagan	3664
Do	Cities Service No. 4 Vehige	28-5-20W SW SE SW	2147	3595	-1448	6 ft. chloritic gneiss on granite	Reagan	3614
Do	Cities Service No. 4" B" Vehige	28-5-20W NE SW NW	2203	3705	-1502	5 ft. granite wash on granite	Reagan	3710
Do	Cities Service No. 5 Vehige	28-5-20W SW NE SW	2196	3664	-1468	granite wash	Reagan	3665
Do	Cities Service No. 1" D" Reese	29-5-20W SW SW NE	2225	3707	-1482	granite	Reagan	3723
Do	Cities Service No. 2" D" Reese	29-5-20W SW SE NE	2191	3687	-1496	granite	Reagan	3688
Do	Cities Service No. 3" A" Wallgren	29-5-20W NE NW SE	2194	3662	-1468	14 ft. granite wash on quartzite	Reagan	3679
Do	Cities Service No. 2" B" Wallgren	29-5-20W SW SW NW	2176	3663	-1487	5 ft. granite wash on granite	Reagan	3668
Do	Cities Service No. 1" B" States	30-5-20W SW SE SW	2230	3677	-1447	12 ft. granite wash on granite	Reagan	3697
Do	Cities Service No. 16 Pinkerton	31-5-20W NE SW NE	2216	3661	-1445	schist and quartzite*	Reagan	3662
Do	Cities Service No. 6" B" Johnson	31-5-20W NE SE SE	2145	3555	-1410	24 ft. granite wash on granite	Reagan	3591
Do	Cities Service No. 3 Solt	31-5-20W NE SW SW	2186	3600	-1414	13 ft. granite wash on granite	Reagan	3614
Do	Cities Service No. 2 Veeh	31-5-20W SW NE NW	2225	3668	-1443	weathered granite	Reagan	3688
Do	Cities Service No. 3 Veeh	31-5-20W SW SW NW	2228	3665	-1437	granite	Reagan	3681

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Phillips	Cetal No. 1 Ray	32-5-20W SE SW NE	2187	3625	-1438	granite wash	Reagan	3633
Do	Cities Service No. 2 "B" Johnson	32-5-20W NE NW SW	2202	3635	-1433	weathered granite	Reagan	3636
Do	Cities Service No. 1 Ray	32-5-20W NE NW SE	2156	3575	-1419	19 ft. granite wash on granite	Reagan	3603
Do	Cities Service No. 2 Ray	32-5-20W NE SW SE	2127	3541	-1414	granite	Reagan	3542
Do	Cities Service No. 2 "A" Kohlman	33-5-20W SW NE NE	2140	3715	-1575	24 ft. granite wash on granite	Reagan	3760
Do	Cities Service No. 4 Nichol	33-5-20W SW NE SW	2128	3611	-1483	granite	Reagan	3620
Do	Cities Service No. 5 Nichol	33-5-20W NW SE SW	2138	3554	-1416	granite wash	Reagan	3590
Do	Cities Service No. 7 Nichol	33-5-20W NE NE SW	2106	3645	-1539	granite wash	Reagan	3655
Do	Cities Service No. 4 "B" Pearson	34-5-20W NE NW NW	2124	3703	-1579	16 ft. granite wash on granite	Reagan	3720
Norton	Hansen No. 1 Harrison	7-5-21W SW SW SW	2081	3524	-1443	17 ft. granite wash on granite	Reagan	3546
Do	Bridgeport No. 1 "A" Riemann	10-5-21W NE NE NE	1998	3597	-1599	granite	Reagan	3620
Do	Helmerich & Payne No. 1 Kitzke	16-5-21W SE SE SE	2217	3705	-1488	quartzite	Reagan	3711
Do	C & G No. 1 Archer	17-5-21W NE NE NW	2147	3625	-1478	9 ft. granite wash on granite	Reagan	3636

Wells Drilled Into Precambrian Rock in Kansas

Norton	Cities Service No. 1 Harrison	18-5-21W SW SW NE	2148	3589	-1441	granite	Reagan	3599
Do	Phillips & Helmerich & Payne No. 1 Voss	19-5-21W NE NE SE	2238	3705	-1467	17 ft. granite wash on granite	Marmaton	3733
Do	C & G and Somers No. 1 Danewood	20-5-21W NE NE SE	2259	3744	-1485	granite wash	Reagan	3767
Do	Empire Drilling No. 1 Kemper	22-5-21W SW SW SW	2261	3750	-1489	granite	Reagan	3757
Do	Cities Service No. 4 Kitzke	25-5-21W NE SE SW	2235	3708	-1473	granite*	Reagan	3714
Do	Barnett No. 1 Kemper	25-5-21W SW SW NE	2226	3708	-1482	granite wash	Reagan	3720
Do	Phillips No. 1 Dedrick	26-5-21W SW SW SE	2280	3723	-1443	11 ft. granite wash on granite	Reagan	3738
Do	Cities Service No. 1 Dedrick	26-5-21W SW SE SE	2264	3718	-1454	granite wash	Reagan	3730
Do	Hansen No. 2 "E" Fee	26-5-21W NE SW SW	2288	3781	-1493	21 ft. granite wash on granite	Reagan	3807
Do	Hansen No. 1 Arasmith	28-5-21W NE SE SE	2270	3729	-1459	29 ft. granite wash on granite	Reagan	3766
Do	Walters No. 1 Patton	30-5-21W NE NE NW	2263	3749	-1486	granite	Reagan	3762
Do	Phillips No. 1 Irma	30-5-21W NE NE SE	2299	3780	-1481	granite	Reagan	3786
Do	Phillips No. 1 Tuck	31-5-21W SE NE NE	2313	3741	-1428	50 ft. weathered granite on granite	Marmaton	3795
Do	Powell No. 1 Voss	31-5-21W SW SW SW	2278	3936	-1658	21 ft. granite wash on granite	Reagan	3965
Do	Empire Drilling No. 1 Muir	34-5-21W NE NW NW	2282	3717	-1435	granite wash	Arbuckle	3722

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Norton	Cities Service No. 1 Muir	34-5-21W SW SW NW	2265	3749	-1484	granite wash	Arbuckle	3788
Do	Saturn No. 1 Sullivan	34-5-21W SE SE SW	2261	3684	-1423	granite wash	Reagan	3697
Do	Hansen No. 1 Sullivan	35-5-21W NE NE SW	2235	3653	-1418	3 ft. granite wash on granite	Marmaton	3660
Do	Pratt No. 1 Griffin	35-5-21W NW NW NW	2273	3707	-1434	granite wash	Reagan	3728
Do	Hansen No. 1 Calfee	35-5-21W N2 NE NW	2247	3675	-1428	2 ft. granite wash on granite	Pennsylvanian?	3679
Do	Cities Service No. 1 Fox	35-5-21W NE SE NE	2249	3680	-1431	granite wash	Marmaton	3687
Do	K & E No. 1 Sullivan	35-5-21W NW NW SW	2249	3664	-1415	granite wash	Pennsylvanian?	3677
Do	Cities Service No. 2 Kitzke	36-5-21W NE SE SE	2188	3600	-1412	granite	Arbuckle	3611
Do	Cities Service No. 3 Kitzke	36-5-21W NE NW SE	2211	3635	-1424	granite*	Reagan	3641
Do	Cities Service No. 12 Kitzke	36-5-21W NE NE SW	2190	3625	-1435	4 ft. granite wash on granite	Reagan	3630
Do	Hansen and C & G No. 1 Walters	2-5-22W SE NE SW	2101	3576	-1475	17 ft. granite wash on granite	Reagan	3596
Do	Hansen No. 1 Schafer	3-5-22W SW SW NE	2189	3680	-1491	granite wash	Reagan	3690
Do	Cities Service No. 1 B.M.A.	6-5-22W NE NE NW	2264	3735	-1471	25 ft. granite wash on granite	Reagan	3776

Wells Drilled Into Precambrian Rock in Kansas

Norton	Cities Service No. 1 Freddie	8-5-22W NE NE NE	2120	3604	-1484	granite wash	Reagan	3620
Do	Cities Service No. 1 "D" Thompson	9-5-22W SE SW NW	2112	3619	-1507	13 ft. granite wash on granite	Reagan	3634
Do	Gore No. 1 Voss	10-5-22W SE NE NE	2126	3585	-1459	granite wash	Reagan	3605
Do	Jones, Shelburne & Farmer No. 1 Weogard	12-5-22W SW SW NW	2097	3544	-1447	granite wash	Reagan	3551
Do	Cities Service No. 1 "A" Archer	12-5-22W SE SW SW	2130	3572	-1442	granite wash	Reagan	3585
Do	Hansen and C & G No. 1 Boyd	12-5-22W SW NE NE	2066	3540	-1474	16 ft. granite wash on granite	Reagan	3560
Do	Cities Service No. 1 "B" Archer	13-5-22W SE NW NW	2197	3617	-1420	granite wash	Reagan	3628
Do	B & R No. 2 Bullock	13-5-22W SE SE NE	2179	3598	-1419	12 ft. granite wash on granite	Marmaton?	3616
Do	Shields No. 1 Hunter	22-5-22W SW SW NW	2252	3857	-1605	granite wash	Reagan	3874
Do	Shields No. 1 Krehbiel	24-5-22W NW NW NW	2230	3670	-1440	30 ft. granite wash on granite	Reagan	3711
Do	Cities Service No. 1 Armstrong	25-5-22W SW SE SW	2355	3810	-1455	57 ft. granite wash on granite	Reagan	3881
Do	Hall-Jordon and Shaffer No. 1 Von Mayrhauser	26-5-22W N2 NW NE	2195	3690	-1495	granite wash	Reagan	3722
Decatur	Shields No. 1 "C" Feely	6-5-26W NE SE NW	2605	3953	-1348	weathered granite	Reagan?	3990
Do	Sterling No. 1 Randall	11-5-27W W2 NE SW	2636	4130	-1494	granite	Reagan	4144
Do	Continental No. 1 Gillespie	34-5-27W NE SE NE	2664	4045	-1381	granite wash	Marmaton	4075

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Mitchell	Murfin No. 1 Wessling	35-6-7W SE SE NE	1446	4290	-2844	granite wash	Reagan	4555
Osborne	Mid-Kansas No. 1 Boyce	18-6-13W SE SE NW	1779	4695	-2916	granite	Reagan	4860
Rooks	Cities Service No. 1 Johnston	5-6-19W SW SW NE	1998	3669	-1671	granite	Reagan	3670
Do	Harbar No. 1 Probst	7-6-19W NW NW NW	2086	3620	-1534	granite	Reagan	3645
Do	Veeder No. 1 Johnston	9-6-19W NE NE SW	2140	3636	-1556	granite	Arbuckle	3700
Do	K & E No. 1 "B" Dryden	16-6-19W C SW NW	2171	3629	-1458	granite wash	Marmaton?	3661
Do	Veeder No. 1 Probst	16-6-19W SE SE SW	2130	3622	-1492	granite wash	Marmaton?	3650
Do	Cave No. 1 Probst	18-6-19W SW NW NE	2130	3605	-1475	granite wash	Marmaton	3613
Do	National Associated No. 1 Probst	18-6-19W SW SW SE	2168	3640	-1472	10 ft. granite wash on granite	Marmaton	3657
Do	Texa Trading No. 1 Probst	18-6-19W SW SW NE	2138	3620	-1482	9 ft. granite wash on granite	Marmaton?	3639
Do	Sunray No. 1 Federal Land Bank	20-6-19W SE SE SE	2127	3591	-1464	10 ft. granite wash on granite pegmatite*	Marmaton	3619
Do	Isern No. 1 Jones	27-6-19W NE NE NW	2069	3588	-1519	schist and gneiss*	Marmaton	3618

Wells Drilled Into Precambrian Rock in Kansas

Rocks	Veeder No. 1 Cole	1-6-20W SW NW SW	2049	3555	-1506	6 ft. granite wash on granite	Reagan	3573
Do	C & G No. 1 Witt	3-6-20W NE NE SW	2136	3636	-1500	9 ft. granite wash on granite	Reagan	3645
Do	Barnett No. 2 Steele	4-6-20W SW SW SW	2145	3622	-1477	22 ft. granite wash on granite	Marmaton	3645
Do	Cities Service No. 1 "B" Nichol	5-6-20W NW NW NE	2099	3623	-1524	41 ft. granite wash on granite	Reagan	3665
Do	Gore No. 1 Nichol	5-6-20W SW SE SW	2119	3606	-1487	35 ft. granite wash on granite	Reagan	3646
Do	Cities Service No. 1 Burge	6-6-20W SE NE NW	2138	3521	-1383	11 ft. granite wash on granite	Marmaton?	3534
Do	Cities Service No. 2 Burge	6-6-20W NE NW NW	2171	3574	-1403	3 ft. granite wash on granite	Reagan	3584
Do	Barnett No. 1 Nichol	6-6-20W NE NW NE	2150	3538	-1388	1 ft. schist on granite	Marmaton?	3555
Do	Barnett No. 1 Nichol	7-6-20W SE SE SW	2229	3709	-1480	16 ft. granite wash on granite	Marmaton	3761
Do	Phillips No. 1 Steele	8-6-20W NE NE NE	2165	3634	-1469	9 ft. granite wash on granite	Marmaton	3646
Do	Derby No. 1 Steele	9-6-20W N2 NW NW	2138	3613	-1475	weathered granite	Marmaton	3639
Do	Barnett No. 1 Steele	9-6-20W NW NE NW	2144	3621	-1477	19 ft. granite wash on granite	Marmaton	3641
Do	Black-Marshall No. 1 Federal Land Bank	11-6-20W CNL SW NW	2161	3640	-1479	pink granite	Marmaton	3641
Do	National Associated No. 1 Hansen	15-6-20W NW NW NW	2224	3675	-1451	granite wash	Marmaton	3690
Do	Leben No. 1 Tribe	16-6-20W NE NE SW	2203	3655	-1452	28 ft. granite wash on granite	Reagan	3696

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Rooks	Woodman-Iannitti No. 1 Nichol	18-6-20W NW NW SW	2233	3797	-1564	granite	Arbuckle	3798
Do	Westgate-Greenland No. 1 Johnston	24-6-20W SE SW SW	2141	3890	-1749	granite wash	Reagan	3908
Do	Black-Marshall and Sinclair No. 1 Gartrell	24-6-20W NW NW NW	2162	3633	-1471	gneiss*	Marmaton	3660
Graham	Cetal No. 1 Hixenbaugh	1-6-21W SE NE NE	2134	3530	-1396	quartzite*	Marmaton	3540
Do	Hartman No. 1 Lappin	1-6-21W NW NW NW	2174	3583	-1409	granite wash	Marmaton?	3605
Do	Nadel & Gussman and Veeder No. 1 Probst	1-6-21W NW SW SW	2115	3505	-1390	17 ft. quartzite above granite dike	Marmaton	3528
Do	Hartman No. 1 Templeton	2-6-21W NW NE NE	2212	3619	-1407	granite	Marmaton?	3620
Do	Cities Service No. 1 Englebert	4-6-21W NE NE NE	2231	3639	-1408	granite wash	Marmaton	3644
Do	Republic Natural No. 1 Probst	12-6-21W SW SW NW	2149	3613	-1464	47 ft. granite wash on granite	Marmaton?	3663
Do	Gore and B & R No. 1 Thurlow	25-6-22W NE NE NE	2254	3883	-1629	19 ft. granite wash on granite	Reagan	3910
Sheridan	Continental No. 1 Vahling	24-6-26W SW NE SW	2611	4239	-1628	26 ft. granite wash on granite	Arbuckle	4268
Do	Continental No. 3 Bouts	2-6-27W NW SE SW	2600	3960	-1360	weathered metamorphics	Marmaton	4092
Do	Continental No. 1 Cramer	11-6-27W NW NW NE	2627	4012	-1385	quartzite	Marmaton	4044

Wells Drilled Into Precambrian Rock in Kansas

Sheridan	Continental No. 6 Leonard	12-6-27W SE NW NW	2595	4018	-1423	quartzite	Arbuckle	4024
Sherman	Phillips No. 1 "A" Hartley	3-6-37W C SW SE	3417	5322	-1905	16 ft. schist on 14 ft. weathered granite on granite	Arbuckle	5356
Do	Phillips No. 3 Shermanville	21-6-38W C NE SE	3423	5473	-2050	granite	Reagan	5477
Rooks	Showden No. 1 Stebbins	26-7-17W NE NE SW	1778	3575	-1797	Arkosic quartzite	Reagan	3590
Do	Magnolia No. 1 Holsman	15-7-19W SE NE SE	1958	3537	-1579	granite	Arbuckle	3538
Do	Imperial No. 1 Trarbach	18-7-20W NE NE SE	2091	3702	-1611	weathered granite	Arbuckle	3705
Graham	Appleman No. 1 Hibbitts	12-7-21W SW SW SW	2156	3640	-1484	weathered granite	Reagan	3673
Do	Imperial No. 1 Neu (twin)	12-7-21W SW SW SW	2153	3648	-1495	weathered granite	Marmaton	3705
Do	Imperial No. 1 "A" Holsman	12-7-21W C SE SW	2165	3731	-1566	weathered granite	Reagan	3733
Rooks	Sidey No. 3 Eckart	5-8-17W NW SW SE	1856	3700	-1844	granite wash	Arbuckle	3708
Do	Shell No. 9 Krug	19-8-17W S2 S2 SW	1987	3782	-1795	granite	Arbuckle	3828
Do	Stanolind No. 4 McMillen	24-8-18W NE SW SE	2008	3812	-1804	15 ft. granite wash on granite	Arbuckle	3844
Do	Deep Rock No. 9 Ondrasek	32-8-19W NW NE NW	2019	3878	-1859	granite	Reagan	3883
Do	Skelly No. 2 Rostocil	33-8-19W SE SE SW	2014	3882	-1868	pink granite	Reagan	3889

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rooks	Bird (Amerada) No. 1 Lowry	33-8-19W N2 NE NE	1988	3798	-1810	granite	Arbuckle	3800
Graham	Musgrove (Sohio) No. 1 Brault	20-8-21W NW NW NE	2064	3685	-1621	weathered granite	Arbuckle	3705
Do	Gulf Coast No. 1 St. Johns	27-8-25W SW SW SE	2506	5030	-2524	quartzite	Reagan	5052
Rooks	Osage No. 2 "C" Mainquist	9-9-17W SW SE NE	2059	3861	-1802	granite wash	Arbuckle	3869
Do	Phillips No. 2 Nettie	34-9-17W SW SW SE	2043	4040	-1997	pink granite	Reagan	4049
Do	Harbar No. 4 Stahl	17-9-18W NE SW NW	2132	4028	-1896	red granite	Reagan	4062
Do	Osage No. 3 "B" Hilgers	18-9-18W C SW SW	2152	4059	-1907	granite wash	Arbuckle	4068
Do	Heathman No. 5 Baumgartner	29-9-18W NE SW NW	2188	4114	-1926	14 ft. weathered granite on granite	Arbuckle	4128
Do	Continental No. 5 Slansky	2-9-19W SW NW NE	1987	3825	-1838	granite	Arbuckle	3842
Do	Westgate-Greenland No. 1 Novotny	3-9-19W NW NW NW	1966	3825	-1859	weathered granite	Arbuckle	3842
Do	Sohio No. 5 "C" Rostocil	10-9-19W NW SE NW	2028	3893	-1865	7 ft. granite wash on granite	Arbuckle	3901
Do	Phillips (Continental) No. 1 "A" Thyfault	11-9-19W SE SE SW	2031	3880	-1849	pink granite	Reagan	3908
Do	Phillips No. 2 Chandler	14-9-19W CNL NE NW	2036	3890	-1854	granite	Reagan	3898

Wells Drilled Into Precambrian Rock in Kansas

Rooks	Prairie No. 1 Gick	22-9-19W C SE	2167	4080	-1913	granite	Reagan	4127
Do	Bay No. 1 "B" Benoit	25-9-19W NW NW NW	2148	4063	-1915	granite	Reagan	4080
Do	Skelly (Hansen) No. 3 Miller	18-9-20W NW SE SW	2219	4242	-2023	weathered granite	Reagan	4250
Do	Nadel & Gussman No. 16 Hinkhouse	27-9-20W S2 SW SW	2264	4310	-2046	granite wash	Reagan	4345
Do	Nadel & Gussman (Hansen) No. 1 Marcotte	27-9-20W NW NW SW	2242	4296	-2054	granite	Arbuckle	4298
Graham	Sinclair (Harbar) No. 2 Brault	13-9-21W W2 SW SW	2197	4200	-2003	granite wash	Arbuckle	4210
Do	Sinclair Prairie No. 2 Brault	14-9-21W NW NE SE	2249	4248	-1999	granite wash	Reagan	4251
Do	Sinclair No. 3 Brault	14-9-21W NE NE SE	2198	4216	-2018	pink granite	Reagan	4222
Do	Sohio No. 7 Benson	15-9-21W NE SE SW	2263	4195	-1932	weathered granite	Reagan	4222
Do	Continental No. 11 Trexler	15-9-21W NW NW NW	2173	4131	-1958	granite wash	Arbuckle	4135
Do	Barnett & Shields No. 4 Boland	16-9-21W SE SE NW	2185	4139	-1954	granite wash	Arbuckle	4140
Do	Continental No. 1 Kolste	16-9-21W NE NE SE	2222	4167	-1945	granite	Arbuckle	4218
Do	Petro-Atlas No. 2 Cooley (twin)	17-9-21W W2 E2 NW	2299	4270	-1971	granite wash	Reagan	4287
Do	Petro-Atlas (NCRA) No. 8 "B" Cooley	17-9-21W SW NE NW	2305	4257	-1952	granite wash	Reagan	4282
Do	Cities Service No. 8 Seefeld	18-9-21W SW NE NE	2260	4234	-1974	granite wash	Reagan	4257

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Graham	Cities Service No. 9"B" Morel	22-9-21W SW NE NE	2249	4165	-1916	46 ft. granite wash on granite	Reagan	4212
Do	Derby No. 2"A" Cox	26-9-21W SE SE NE	2246	4238	-1992	granite wash	Arbuckle	4251
Do	Wood River No. 7 Sandzen	14-9-22W SW SW SE	2299	4336	-2037	granite wash	Arbuckle	4372
Sherman	Phillips No. 5 Goodland	11-9-37W NE NE NE	3482	5668	-2186	granite	Reagan	5669
Do	Phillips No. 4 Goodland	12-9-38W SW SW SE	3536	5746	-2210	granite	Reagan	5750
Do	Musgrove No. 1 Van Douge	31-9-38W NW NW SE	3637	5854	-2217	granite	Reagan	5863
Ottawa	Babcock No. 1 Copeman	7-10-2W CNL SW SE	1367	4008	-2641	red clastics	Arbuckle	4135
Osborne	Anderson-Prichard No. 2"B" Ruggles	23-10-15W NE SW SW	1849	3954	-2105	granite	Reagan	3972
Rooks	Nadel & Gussman No. 5 Duder Kirk	7-10-19W SW NW NE	2225	4340	-2115	granite	Reagan?	4348
Do	Francis No. 3"A" Wilson	2-10-20W SE SW NE	2250	4312	-2082	granite wash	Reagan	4322
Do	Sinclair No. 4 Baldwin	5-10-20W NW SE SW	2274	4342	-2068	granite	Reagan	4357
Do	Barnett No. 2 Hinckhouse	9-10-20W NE NE SE	2170	4254	-2084	granite wash	Reagan	4293
Do	Champlin No. 6 Marcotte	15-10-20W SE NW SW	2140	4248	-2108	granite	Reagan	4249
Do	Hansen No. 4 Williams	16-10-20W SE NE NE	2149	4268	-2119	granite	Reagan	4271

Graham	Skelly No. 3 White	2-10-21W SW NE SW	2241	4244	-2003	granite wash	Reagan?	4288
Do	Jones, Shelburne & Farmer No. 5 Miller	11-10-21W SE NE NW	2247	4219	-1972	granite	Arbuckle	4226
Do	Farmer No. 12 Miller	11-10-21W NE SE NW	2227	4205	-1978	granite	Arbuckle	4208
Do	Sunray No. 5 Custer	17-10-23W NE NE SE	2367	4626	-2259	granite	Reagan	4635
Sherman	Phillips No. 1 Goodland	7-10-39W SW SE SW	3643	5791	-2148	granite	Reagan	5801
Do	Phillips No. 2 Goodland	10-10-39W SE SE NW	3632	5841	-2209	granite**	Reagan	5854
Russell	Nixon No. 1 Gilbert	29-11-15W SW NW NE	1823	3278	-1455	granite wash	Reagan	3325
Do	Sohio No. 1 Booth	29-11-15W SE SW NE	1772	3460	-1688	granite wash	Reagan	3465
Do	Stanolind (Midwest) No. 3 "A" Booth	32-11-15W NW SE NW	1801	3190	-1389	granite wash	Reagan	3192
Do	Stanolind No. 4 "A" Booth	32-11-15W S2 NE NW	1820	3307	-1487	23 ft. weathered granite on granite and pegmatite	Reagan	3358
Do	Summit No. 1 "A" Dodge	32-11-15W E2 SW NW	1809	3192	-1383	granite wash?	Pennsylvanian?	3216
Do	Derby No. 4 Dodge	32-11-15W NE NW SW	1762	3157	-1395	granite wash	Reagan	3189
Ellis	Sinclair Prairie No. 3 Romine	7-11-16W NW SW SW	1789	3865	-2076	granite	Reagan	3871
Do	Tomlinson & Kathol No. 3 Nielson	28-11-16W NE NW SW	1768	3832	-2064	granite wash	Arbuckle	3833
Do	Champlin No. 6 Slimmer	2-11-17W NE SE NW	1905	3984	-2079	granite	Reagan	3985

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Ellis	Stanolind (Dickey) No. 7 Stein	7-11-17W E2 SE SE	1837	3898	-2061	granite wash	Reagan	3907
Do	Gulf No. 10 Mai	14-11-17W SE NW SE	1842	3885	-2043	22 ft. granite wash on granite	Reagan	3912
Do	Westgate-Greenland No. 1 Hall	14-11-17W SE SW NE	1833	3920	-2087	granite	Reagan	3930
Do	Sohio (Margay) No. 6 "B" Bemis	15-11-17W SW SE SW	1879	3940	-2061	granite	Reagan	3941
Do	Dickey No. 4 Kollman	18-11-17W S2 NW SE	1846	3885	-2039	18 ft. granite wash on granite	Arbuckle	3904
Do	Dickey No. 8 Kollman	18-11-17W S2 NE SE	1838	3877	-2039	granite	Arbuckle	3893
Do	Murfin No. 2 "A" Hadley	20-11-17W S2 S2 NW	1876	3876	-2000	granite wash	Arbuckle	3894
Do	Murfin No. 2 "J" Hadley	20-11-17W NE SW SW	1909	3895	-1986	granite	Reagan	3901
Do	Okmar No. 8 Hadley	21-11-17W NE NW NW	1823	3841	-2018	granite	Arbuckle	3844
Do	Phillips No. 5 "A" Bemis	21-11-17W W2 SW NE	1866	3898	-2032	granite	Arbuckle	3905
Do	British-American No. 6 Bemis	22-11-17W SE NW SW	1930	3966	-2036	granite wash	Reagan	3967
Do	Kerlyn No. 1 Rumsey	23-11-17W SW SW SW	1922	3927	-2005	granite wash	Arbuckle	3928
Do	Shell No. 2 "A" Rumsey	23-11-17W NE SW NW	1873	3884	-2011	granite wash	Arbuckle	3891

Wells Drilled Into Precambrian Rock in Kansas

Ellis	Shell No. 1 "W" Rumsey	23-11-17W W2 NE NW	1872	3928	-2056	quartzite	Reagan	3933
Do	Cities Service No. 3 "B" Hall	26-11-17W NW SW NW	1927	3923	-1996	granite	Reagan	3924
Do	Deep Rock No. 24 Baumer	27-11-17W NE SW NE	2002	3992	-1990	weathered granite	Arbuckle	4002
Do	Sohio No. 8 "D" Bemis	28-11-17W N2 NW SE	1914	3944	-2030	granite	Reagan	3945
Do	Texas No. 13 "A" Bemis	28-11-17W SE NW NE	1893	3924	-2031	granite	Reagan	3926
Do	Wentz-Jones No. 2 Bemis	28-11-17W SE NE NW	1953	3984	-2031	granite wash	Reagan	3989
Do	Champlin No. 2 Glatthart	29-11-17W SW NW SE	2076	4025	-1949	granite wash	Reagan	4033
Do	Champlin No. 4 "K" Hadley	29-11-17W N2 N2 NW	1918	3897	-1979	granite wash	Arbuckle	3918
Do	Lario No. 13 "A" Marshall	31-11-17W C SW NW	2108	4169	-2061	granite wash	Reagan	4200
Do	Texas No. 5 Dreiling	34-11-17W NW NE SE	2003	3997	-1994	25 ft. granite wash on granite	Arbuckle	4023
Do	Continental No. 7 Watkins	2-11-18W SW SE NW	1976	4018	-2042	granite wash	Arbuckle	4035
Do	Continental No. 4 Warren Mortgage	3-11-18W SE NE SE	2057	4115	-2058	granite	Arbuckle	4173
Do	Phillips No. 1 Sites	12-11-18W CEL SE SW	1859	3883	-2024	granite	Reagan	3884
Do	Phillips No. 2 Sites	12-11-18W E2 E2 SW	1858	3906	-2048	granite	Reagan	3922
Do	Shell No. 1 "W" Kempe	12-11-18W NE SE NW	1852	3845	-1993	granite wash	Arbuckle	3945

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Ellis	Shell No. 1-W"A" Ridler	12-11-18W NE SW NW	1856	3896	-2040	29 ft. granite wash on granite	Arbuckle	3927
Do	Skelly No. 4 Kempe	12-11-18W N2 SW NE	1870	3932	-2062	weathered granite	Arbuckle	3961
Do	Blair No. 1"C" Henderson	15-11-18W SW SE NW	1914	4030	-2116	pink granite	Reagan	4046
Do	Lario No. 2 Henderson (twin)	15-11-18W SW SE NW	1899	4014	-2115	16 ft. granite wash on granite	Reagan	4037
Do	Midstates No. 6"B" Wasinger	21-11-18W NW NW NE	1917	4037	-2120	granite wash	Reagan?	4038
Do	Lario No. 17"E" Marshall	24-11-18W SW NE SE	1881	3775	-1894	granite	Reagan	3832
Do	Walters No. 4 Marshall	25-11-18W C SE	1970	4060	-2090	granite	Reagan	4065
Do	Okmar (Elwell) No. 1 Sessin	15-11-19W NE NW SE	1981	4036	-2055	7 ft. granite wash on granite	Arbuckle	4044
Do	Skelly No. 4"E" Vine	22-11-19W SE SW NE	1957	3986	-2029	granite wash	Arbuckle	3999
Do	Continental No. 5"A" Vine	23-11-19W N2 N2 NW	1937	3984	-2047	35 ft. granite wash on granite	Reagan	4025
Do	Jones, Shelburne & Farmer No. 5"B" Vine	26-11-19W E2 SW NE	2038	4050?	-2012?	granite wash	Reagan?	4074
Do	Pratt No. 3"B" Solomon	28-11-19W NE NE NW	1974	4033	-2059	granite wash	Arbuckle	4035
Do	Sittrin No. 11 Solomon	33-11-19W SE SE NE	2131	4163	-2032	granite	Arbuckle	4165

Wells Drilled Into Precambrian Rock in Kansas

Trego	Peel-Hardman No. 14 Cook	2-11-21W SW SE NW	2088	4202	-2114	granite wash	Reagan	4203
Do	Gore No. 8 Hedstrom	3-11-21W NE SW NE	2095	4185	-2090	granite	Arbuckle	4204
Do	Pan American No. 1 Walz	11-11-21W NW NE SE	2197	4284	-2087	granite wash	Reagan	4300
Do	Norbla No. 1 Burkett	15-11-22W C SW	2163	4220	-2057	granite	Reagan	4239
Wallace	Sinclair Prairie No. 2 Wallace Investment Co.	28-11-39W SE SE NE	3405	5490	-2085	quartzite and other metamorphics	Arbuckle	5580
Russell	Borrell No. 1 Meyer	32-12-11W S2 SE SE	1532	3968	-2436	quartzite	Reagan	4037
Do	Johnson Estate No. 8 Kollman	5-12-15W CWL SE NW	1677	3079	-1402	weathered granite	Reagan	3086
Do	Johnson Estate No. 11 Kollman	5-12-15W SW NE NW	1706	3104	-1398	44 ft. granite wash on granite	Pennsylvanian?	3149
Do	Mast No. 1 "A" Sutton	5-12-15W NW SW SE	1724	3277	-1553	granite	Reagan	3280
Do	Sohio No. 1 Sutton	5-12-15W SW NE SE	1676	3364	-1688	granite wash	Arbuckle	3368
Do	Sohio (Valerius) No. 1 "A" Sutton	5-12-15W NW SE SW	1827	3225	-1398	granite wash	Pennsylvanian?	3233
Do	Sohio (Valerius) No. 4 "A" Sutton	5-12-15W SW SW SW	1693	3078	-1385	granite wash	Pennsylvanian?	3086
Do	Sohio (Valerius) No. 5 "A" Sutton	5-12-15W SE SW SW	1721	3147	-1426	7 ft. granite wash on granite	Pennsylvanian?	3154
Do	Sohio (Valerius) No. 7 "A" Sutton	5-12-15W SW SE SW	1822	3197	-1375	granite	Pennsylvanian?	3205
Do	Stearns No. 1 "B" Holland	7-12-15W SE SE SE	1824	3234	-1410	weathered granite*	Pennsylvanian?	3266

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Sohio (Stearns-Streeter) No. 3 Oswald	8-12-15W SE NW SW	1856	3229	-1373	granite wash	Pennsylvanian?	3233
Do	Sohio (Stearns-Streeter) No. 4 Oswald	8-12-15W NE NW SW	1843	3225	-1382	granite wash	Pennsylvanian?	3231
Do	Sohio (Stearns-Streeter) No. 5 Oswald	8-12-15W NW NW SW	1832	3203	-1371	weathered granite	Pennsylvanian?	3223
Do	Sohio (Stearns-Streeter) No. 7 Oswald	8-12-15W NW SW SW	1844	3206	-1362	weathered granite	Pennsylvanian	3207
Do	Stanolind (Midwest) No. 1 Oswald	8-12-15W SW SE NW	1841	3220	-1379	granite wash	Pennsylvanian?	3234
Do	Stanolind (Midwest) No. 3 Oswald	8-12-15W NW NE NW	1832	3222	-1390	pink granite	Pennsylvanian?	3259
Do	Stanolind (Midwest) No. 7 Oswald	8-12-15W NE NE NW	1834	3244	-1410	18 ft. granite wash on granite	Reagan	3266
Do	Stanolind (Midwest) No. 16 Oswald	8-12-15W SE NW NW	1835	3220	-1385	granite	Pennsylvanian?	3245
Do	Stanolind (Midwest) No. 22 Oswald	8-12-15W NW SE NW	1831	3219	-1388	granite	Pennsylvanian?	3245
Do	Stanolind (Midwest) No. 31 Oswald	8-12-15W SW SW NW	1827	3193	-1366	weathered granite	Pennsylvanian?	3200
Do	Stanolind (Midwest) No. 33 Oswald	8-12-15W SE SW NW	1848	3211	-1363	weathered granite	Pennsylvanian?	3217
Do	Stearns-Streeter No. 1 "A" Oswald	8-12-15W SE SW SW	1859	3300	-1441	granite	Pennsylvanian?	3380
Do	Mast No. 5 "C" Beller	15-12-15W SW NW NW	1797	3633	-1836	granite	Reagan	3640

Wells Drilled Into Precambrian Rock in Kansas

Russell	Valerius No. 2 Munsell	17-12-15W SW SW NE	1853	3600	-1747	32 ft. arkose on granite	Arbuckle	3656
Do	Shields No. 2 Holland	17-12-15W SW SE SW	1841	3505	-1664	granite wash	Reagan	3535
Do	Sohio (Valerius) No. 2 Oswald	17-12-15W NE NW NW	1859	3256	-1397	21 ft. granite wash on granite	Pennsylvanian?	3282
Do	Sohio (Valerius) No. 3 Oswald	17-12-15W NW NW NW	1852	3226?	-1374?	weathered granite?	Pennsylvanian?	3278
Do	Sohio (Valerius) No. 4 Oswald	17-12-15W SW NW NW	1862	3261	-1399	weathered granite	Pennsylvanian	3296
Do	Sohio (Valerius) No. 9 Oswald	17-12-15W NW NE NW	1874	3313	-1439	granite wash	Arbuckle	3322
Do	Stearns No. 1 Holland	18-12-15W E2 E2 NE	1845	3271	-1426	22 ft. granite wash on granite	Pennsylvanian?	3298
Do	Stearns No. 2 Holland	18-12-15W E2 SE NE	1849	3303	-1454	9 ft. granite wash on granite	Reagan	3312
Do	Dreiling No. 3 Mermis	18-12-15W E2 E2 SE	1893	3430	-1537	granite wash	Arbuckle	3435
Do	Dreiling (Stearns) No. 4 Mermis	18-12-15W NW NE SE	1878	3324	-1446	granite	Pennsylvanian?	3360
Do	Skelly No. 2 Oswald	18-12-15W SE NE NE	1835	3236	-1401	granite wash	Pennsylvanian?	3286
Do	Sohio No. 4 "A" Rusch	19-12-15W N2 S2 SW	1910	3304	-1394	10 ft. granite wash on granite	Lansing- Kansas City	3315
Do	Sohio No. 4 "B" Rusch	19-12-15W S2 N2 SW	1893	3294	-1401	granite wash	Reagan	3302
Do	Mai No. 4 Milke	20-12-15W SW NE SW	1861	3541	-1680	granite wash	Arbuckle	3546
Do	Amerada No. 1 Milke	20-12-15W SW SE SW	1896	3610	-1714	granite	Reagan	3617

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Russell	Nixon No. 1 Gibbs	20-12-15W SE NW NW	1852	3415	-1563	granite wash	Reagan	3417
Do	P & R No. 1 Haise	24-12-15W NW NW SE	1718	3610	-1892	granite wash	Reagan	3634
Do	Sohio (Central) No. 1 "B" Deckert	30-12-15W CNL SE NW	1908	3484	-1576	weathered granite	Reagan	3505
Do	Sohio No. 4 Deckert	30-12-15W C NW	1912	3374	-1462	granite wash	Reagan	3385
Do	Sohio No. 6 Deckert	30-12-15W NE NW NW	1898	3303	-1405	granite wash	Reagan	3304
Do	Texas No. 8 Jacobs	31-12-15W NW SE SW	1841	3476	-1635	granite	Arbuckle	3486
Do	Franco Central No. 4 Shaffer	36-12-15W NE SW SE	1780	3665	-1885	weathered granite	Arbuckle	3666
Ellis	Davis & Aylward No. 1 Dickinson	15-12-16W SW SW NE	1888	3800	-1912	granite	Arbuckle	3809
Do	Kewanee No. 3 "E" Froelich	27-12-16W NE SE SE	2007	3925	-1918	granite wash	Reagan	3956
Do	Kewanee No. 7 "E" Froelich	27-12-16W NE SW SE	2063	4003	-1940	11 ft. granite wash on granite	Reagan	4014
Do	Westgate-Greenland No. 5 Miller	3-12-17W NE SW NE	2049	4033	-1984	17 ft. granite wash on granite	Arbuckle	4052
Do	Phillips No. 1 Shuttis	5-12-17W S2 SE NE	2047	4028	-1981	granite wash	Arbuckle	4035
Do	Carter No. 10 Staab	11-12-18W E2 NW NE	2123	4185	-2062	granite wash	Arbuckle	4190

Wells Drilled Into Precambrian Rock in Kansas

Ellis	Republic Natural No. 1 "A" Joy	14-12-18W NW NE NW	2148	4195	-2047	granite wash	Reagan	4212
Do	B & R No. 5 "A" Stackhouse	23-12-18W SW NE NE	2130	4169	-2039	granite wash	Reagan	4176
Do	Central Commercial No. 1 Helms	2-12-20W SE SE NE	2096	4227	-2131	biotite granite	Reagan	4250
Do	El Dorado No. 1 Huber	32-12-20W NW NW SW	2175	4066	-1891	granite	Arbuckle	4069
Trego	Texas No. 2 Schoenthaler	26-12-21W SW NW NW	2222	4134	-1912	granite	Reagan	4160
Do	Mid-Kansas No. 1 Ridgeway	28-12-21W NE NE SW	2254	4250	-1996	arkosic sand- stone, partly quartzite	Reagan	4278
Do	Stanolind No. 1 Powers	25-12-22W SW SE SW	2339	4048	-1709	quartzite	Arbuckle	4080
Do	Stanolind No. 2 "A" Anderson	28-12-22W NE SE SE	2361	4202	-1841	granite	Arbuckle	4209
Do	Texas No. 3 Hendrickson	35-12-22W SW SE NE	2297	4058	-1761	granite wash	Reagan	4235
Do	Stanolind No. 2 Monroe	36-12-22W NW SE SE	2289	4096	-1807	granite	Reagan	4110
Russell	Prairie No. 1 Hill	13-13-14W NW NW NE	1826	3770	-1944	gneiss	Reagan	3861
Do	McBride No. 1 Jellison	19-13-14W NE NE SW	1762	3543	-1781	13 ft. granite wash on granite	Arbuckle	3575
Do	Gore (Palmer) No. 2 Borrell	21-13-14W SE SE NE	1844	3581	-1737	19 ft. granite wash on granite	Reagan	3614
Do	N C R A No. 1 Borrell	21-13-14W C E2	1849	3586	-1737	9 ft. granite wash on granite	Reagan	3597
Do	Mai No. 4 "A" Fox	22-13-14W E2 SE SE	1838	3472	-1634	granite	Arbuckle	3482

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	El Dorado No. 9 Schafer	27-13-14W CNL NW SW	1849	3481	-1632	granite	Reagan	3504
Do	Empire No. 3 Ehrlich	28-13-14W SE SE SE	1859	3415	-1556	granite pegmatite*	Reagan	3520
Do	Phillips No. 1 Downs	30-13-14W NE SE NW	1836	3590	-1754	granite	Reagan	3624
Do	Murfin No. 4 Brown	31-13-14W SW SE SE	1858	3456	-1598	granite	Arbuckle	3457
Do	Skelly No. 3 Boxberger	33-13-14W SW NW NE	1864	3406	-1542	granite wash	Reagan	3481
Do	Blair No. 3 Rusch	34-13-14W SE NW NW	1854	3488	-1634	3 ft. granite wash on granite	Reagan	3507
Do	Jones, Shelburne & Farmer No. 1 Lanholtz	34-13-14W NE SE NW	1848	3491	-1643	granite	Reagan	3496
Do	Blair No. 1 "C" Cook	26-13-15W SW SW NE	1893	3392	-1499	granite wash	Arbuckle	3400
Do	El Dorado No. 1 Polcyn	31-13-15W SE SE SE	1901	3311	-1410	gneiss*	Pennsylvanian	3400
Do	Heathman No. 1 Polcyn	31-13-15W SE SW SE	1892	3307	-1415	weathered granitic gneiss*	Pennsylvanian	3314
Do	Shields No. 2 "A" Polcyn	31-13-15W NE SW SE	1895	3316	-1421	granite wash	Pennsylvanian?	3317
Do	Heathman No. 1 Merris	32-13-15W SW SW NE	1905	3322	-1417	granite	Reagan	3357
Do	Midwest No. 1 Baxter	32-13-15W SW SE SE	1907	3311	-1404	granite	Pennsylvanian	3330

Wells Drilled Into Precambrian Rock in Kansas

Russell	Midwest No. 33 Baxter	32-13-15W SE SW SE	1903	3305	-1402	granite	Pennsylvanian	3318
Do	Midwest No. 34 Mermis	32-13-15W SW SE NW	1905	3340	-1435	4 ft. granite wash on granite	Reagan	3356
Do	Phil-Han No. 1 Mermis	32-13-15W SW NW SE	1906	3309	-1403	granite wash	Pennsylvanian	3318
Do	Stanolind (Midwest) No. 1 "A" Mermis	32-13-15W NE NW SE	1911	3325	-1414	granite wash	Reagan	3326
Do	Addis No. 7 "B" Mills	33-13-15W SE SW SE	1900	3305	-1405	granite wash	Pennsylvanian	3355
Do	Bridgeport No. 9 Mermis	33-13-15W NE SE SW	1895	3307	-1412	14 ft. granite wash on granite	Reagan	3325
Do	Bridgeport No. 3 "B" Mills	33-13-15W SW SE SE	1901	3305	-1404	granite wash	Pennsylvanian	3330
Do	Bridgeport No. 5 "B" Mills	33-13-15W SE SE SE	1896	3347	-1451	granite	Pennsylvanian?	3351
Do	Keys No. 12 Mermis	33-13-15W NW SW SW	1901	3303	-1402	granite	Pennsylvanian	3328
Do	Keys No. 13 Mills	33-13-15W SW SW SE	1893	3297	-1404	granite wash	Pennsylvanian	3353
Ellis	Solar No. 8 "B" Weiland	1-13-16W NE SW NE	1889	3433	-1544	granite wash	Arbuckle	3486
Do	Hinkle No. 4 Brungardt	25-13-16W NE NW SW	1916	3421	-1505	quartzite	Arbuckle	3435
Do	Midwest No. 19 Reidel	27-13-16W NW SW SE	1956	3858	-1902	granite	Reagan	3875
Do	Darby & Bothwell No. 2 "A" Giebler	10-13-17W NE SW SE	2001	4045	-2044	mica schist	Reagan	4076
Do	Dreiling No. 4 "E" Dreiling	15-13-17W SE NW SW	2012	3993	-1981	granite wash	Arbuckle	3995

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Ellis	Texas No. 3 "B" Dreiling	21-13-17W NE NW SE	1972	4006	-2034	schist	Reagan	4011
Do	Mid-Kansas No. 1 Johnson	9-13-19W SW SE NE	2115	4183	-2068	quartzite	Reagan	4358
Do	Musgrove No. 6 Reidel	31-13-19W SE SW SW	2261	4133	-1872	granite wash	Arbuckle	4147
Do	Texas No. 3 Reidel	31-13-19W NE NE SW	2239	4052	-1813	granite	Arbuckle	4056
Do	Sunray No. 4 "B" Bittel	6-13-20W W2 NE NE	2173	4053	-1880	granite	Reagan	4059
Do	Stearns-Streeter No. 1 Leiker	26-13-20W SW SW NE	2180	4067	-1887	quartzite and schist	Reagan	4078
Do	Texas No. 2 Nicholson	34-13-20W SE NE NW	2219	3930	-1711	18 ft. granite wash on granite	Arbuckle	3972
Trego	Bridgeport No. 1 "B" Spilker	1-13-21W CWL NE NW	2182	3920	-1738	weathered pink granite	Reagan	3928
Do	Stanolind No. 5 Cromb	1-13-21W SE SW NE	2176	3872	-1696	granite	Reagan	3880
Do	Rex & Morris and C R A No. 1 "E" Spilker	1-13-21W SE SW NW	2176	3854	-1678	granite wash	Reagan	3856
Do	Stanolind No. 1 Deutscher	2-13-21W SE NE NE	2185	3903	-1718	granite	Arbuckle	3913
Do	Lafayette (Stanolind) No. 1 Homburg	11-13-21W SE SW SW	2175	4060	-1885	20 ft. quartzite on granite	Reagan	4151
Do	Bridgeport No. 1 "A" Egger	12-13-21W NW NW NW	2171	3884	-1713	quartzite	Reagan	3889

Wells Drilled Into Precambrian Rock in Kansas

Trego	Central Commercial No. 1 "A" Wagg	17-13-21W NW NW SE	2198	4470	-2272	34 ft. granite wash on granite	Reagan	4563
Gove	Cities Service No. 1 Victory Life Insurance	36-13-30W W2 W2 NW	2780	5161	-2381	granite	Arbuckle	5169
Logan	Morgan, Flynn & Cobb No. 1 McMillen	9-13-37W C NW	3143	5430	-2287	quartzite and mica schist	Arbuckle	5465
Wallace	Sinclair No. 1 Glad & Brock Trustees	19-13-42W SE NW NE	3808	5960	-2152	schist and quartzite	Reagan	6000
Ellsworth	Frankfort No. 1 Kuck	8-14-10W SE SW NE	1803	3990	-2187	80 ft. granite wash on granite and microgranite*	Reagan	4570
Russell	Cities Service No. 2 "C" Marsh	29-14-12W S2 NE SW	1670	3400	-1730	29 ft. granite wash on granite	Arbuckle	3432
Do	Gulf No. 5 Heard	30-14-12W SE SW SW	1688	3323	-1635	granite	Arbuckle	3325
Do	Texas No. 11 Mohl	18-14-13W SW SE SE	1812	3342	-1530	24 ft. granite wash on granite	Reagan	3367
Do	C R A No. 6 Ehrlich	19-14-13W SW NE SE	1783	3204	-1421	11 ft. granite wash on granite	Lansing- Kansas City	3216
Do	C R A No. 7 Ehrlich	19-14-13W NE SE SE	1780	3183	-1403	granite wash	Pennsylvanian? 3234	
Do	Coralena No. 1 Ehrlich	19-14-13W SW SE SW	1762	3168	-1406	granite	Lansing- Kansas City	3188
Do	Cities Service No. 1 Phinney	19-14-13W SE SE SE	1759	3162	-1403	granite wash	Lansing- Kansas City	3290
Do	El Dorado No. 3 Rein	20-14-13W NW NW NW	1803	3330	-1527	10 ft. granite wash on granite	Reagan	3340
Do	Shields No. 1 "C" Rogg	20-14-13W SE SE SE	1766	3260	-1494	granite	Reagan	3262
Do	Texas No. 12 Goodheart	25-14-13W NE SW SE	1678	3284	-1606	granite wash	Arbuckle	3291

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Texas No. 14 Goodheart	25-14-13W NE SE SE	1709	3302	-1593	14 ft. granite wash on granite	Arbuckle	3329
Do	Continental No. 8 Letsch	26-14-13W SE SW SW	1679	3208	-1529	granite wash	Reagan	3260
Do	Mid-Continent No. 5 Letsch	26-14-13W SE SE NW	1697	3334	-1637	granite	Reagan	3335
Do	Braden & McClure No. 3 Opdycke	29-14-13W NW NW NW	1764	3216	-1452	granite	Reagan?	3217
Do	Cities Service No. 1 Opdycke	29-14-13W CSL NE NW	1761	3219	-1458	granite wash	Reagan	3252
Do	Skelly No. 3 Opdycke	29-14-13W SW SW NW	1741	3141	-1400	4 ft. granite wash on granite	Lansing-Kansas City	3243
Do	CRA (Coralena) No. 9 Phinney	30-14-13W SW SE NE	1749	3150	-1401	granite wash	Lansing-Kansas City	3180
Do	CRA No. 16 Phinney	30-14-13W C NW NE	1765	3164	-1399	19 ft. granite wash on granite	Lansing-Kansas City	3186
Do	Hall No. 4 Miller	30-14-13W SW SW SE	1752	3155	-1403	granite wash	Lansing-Kansas City	3163
Do	Hall No. 8 Miller	30-14-13W SW SW SW	1717	3119	-1402	24 ft. granite wash on granite	Lansing-Kansas City	3155
Do	Hall No. 9 Miller	30-14-13W NW SW SW	1739	3117	-1378	granite wash	Lansing-Kansas City	3160
Do	Hall No. 30 Miller	30-14-13W CNL NW SE	1720	3130	-1410	granite wash	Lansing-Kansas City	3156
Do	Cities Service No. 3 "D" Miller	31-14-13W S2 NW SE	1698	3099	-1401	quartzite*	Reagan	3118

Wells Drilled Into Precambrian Rock in Kansas

Russell	Texas No. 2 Schnoor	31-14-13W NW NE SW	1738	3122	-1384	quartzite and mica schist*	Lansing- Kansas City	3147
Do	Texas No. 5 Schnoor	31-14-13W SE SE SW	1703	3150	-1447	quartzite	Lansing- Kansas City	3173
Do	Darby No. 1 Letsch	34-14-13W SE NE NW	1703	3235	-1532	granite	Reagan	3265
Do	Derby No. 8 Weinmeister	36-14-13W SE NW NW	1710	3295	-1585	quartzite	Reagan	3296
Do	CRA No. 6 "W" Boxberger	3-14-14W S2 NE SW	1824	3325	-1501	granite wash	Reagan	3397
Do	Cities Service No. 1 "C" Boxberger	4-14-14W NE SE SW	1862	3350	-1488	granite wash	Pennsylvanian?	3355
Do	Phil-Han No. 1 "B" Brown Estate	6-14-14W NE NE NE	1859	3338	-1479	granite wash	Reagan	3345
Do	Miller No. 1 Brown	6-14-14W NE NE SE	1877	3515	-1638	granite	Reagan	3542
Do	Ash & Smith No. 1 "A" Brown	7-14-14W NE SE NE	1899	3346	-1447	quartzite	Reagan	3353
Do	Ash & Smith No. 1 "A" Anschutz	8-14-14W NW NW NW	1893	3367	-1474	quartzite	Pennsylvanian?	3376
Do	Hinkle No. 1 Krug	8-14-14W SE SE SW	1884	3327	-1443	quartzite	Lansing- Kansas City	3328
Do	Billings No. 5 Krug (twin)	8-14-14W SE SE SW	1884	3307	-1423	quartzite	Pennsylvanian?	3309
Do	Stearns No. 2 Olson	9-14-14W NE SE NW	1867	3316	-1449	granite wash	Pennsylvanian?	3332
Do	B & R No. 1 Newcomer	10-14-14W SE SE SW	1852	3279	-1427	quartzite	Reagan	3285
Do	B & R No. 5 "B" Newcomer	10-14-14W S2 SW SW	1858	3363	-1505	chloritic schist	Reagan	3789

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet				
									10-14-14W NE SW NE	12-14-14W NW NE SW	14-14-14W CEL SE SE	14-14-14W NW SE NE
Russell	Stanolind No. 5 Newcomer	10-14-14W NE SW NE	1833	3306	-1473	granite	Reagan	3325				
Do	Hartman No. 1 Hildebrand	12-14-14W NW NE SW	1769	3280	-1511	granite	Reagan	3345				
Do	Hartman-Blair No. 2 "D" Boxberger	14-14-14W CEL SE SE	1816	3298	-1482	quartzite	Pennsylvanian?	3299				
Do	Haynes No. 8 "B" Boxberger	14-14-14W NW SE NE	1815	3380	-1565	granite	Reagan	3388				
Do	United Drilling No. 2 Boxberger	14-14-14W SW NW SW	1835	3231	-1396	granite wash	Lansing-Kansas City	3237				
Do	B & R No. 1 "B" Boxberger	15-14-14W NE SW NE	1849	3261	-1412	granite wash	Lansing-Kansas City	3270				
Do	Cities Service No. 1 "D" Boxberger	15-14-14W SW SW NE	1852	3259	-1407	granite wash	Lansing-Kansas City	3262				
Do	CRA (Coralena) No. 1 Fink	15-14-14W C SE SW	1876	3290	-1414	granite wash	Lansing-Kansas City	3308				
Do	Hartman-Blair No. 1 Fink	15-14-14W SW SW SW	1900	3305	-1405	60 ft. granite wash on granite	Pennsylvanian	3391				
Do	Gulf No. 2 Fink	15-14-14W C SW SE	1856	3259	-1403	granite wash	Pennsylvanian?	3266				
Do	Gulf No. 3 Fink	15-14-14W C NE SE	1840	3241	-1401	weathered granite	Pennsylvanian?	3245				
Do	Gulf No. 4 Fink	15-14-14W C NW SE	1852	3254	-1402	granite	Pennsylvanian?	3258				
Do	Addis No. 1 Boxberger	16-14-14W NW SW NE	1884	3291	-1407	granite wash	Marmaton?	3311				

Wells Drilled Into Precambrian Rock in Kansas

Russell	Addis No. 2 "C" Boxberger	16-14-14W SW NW NE	1879	3286	-1407	granite wash	Marmaton	3290
Do	Addis No. 3 "C" Boxberger	16-14-14W E2 W2 NE	1878	3282	-1404	granite wash	Marmaton?	3290
Do	CRA No. 3 Fink	16-14-14W SW SE SE	1887	3305	-1418	granite	Lansing- Kansas City	3306
Do	CRA No. 1 "A" Fink	16-14-14W SE NW SE	1897	3293	-1396	19 ft. granite wash on granite	Lansing- Kansas City	3316
Do	Hartman-Blair No. 1 Fink	16-14-14W SW NW SE	1897	3318	-1421	74 ft. granite wash on graphitic schist*	Pennsylvanian? Pennsylvanian?	3479
Do	Haynes & Anschutz No. 1 Fink	16-14-14W SW SW SE	1879	3280	-1401	granite wash	Pennsylvanian?	3282
Do	Jones, Shelburne & Farmer No. 1 Boxberger	16-14-14W SE NE NE	1863	3315	-1452	granite wash	Pennsylvanian?	3390
Do	Leben No. 1 Solbach	16-14-14W SW SE NW	1889	3299	-1410	granite wash	Lansing- Kansas City	3305
Do	Mingenbach No. 1 Rusch	16-14-14W NE NE NW	1875	3290	-1415	pink granite	Pennsylvanian?	3332
Do	Palmer No. 1 Hill	16-14-14W NW NW SW	1869	3299	-1430	granite wash	Reagan	3307
Do	Phil-Han No. 1 Hill	16-14-14W SE SW SW	1859	3280	-1421	50 ft. granite wash on granite	Pennsylvanian?	3350
Do	Shumaker No. 6 Coady	16-14-14W SW NE SW	1875	3289	-1414	granite wash	Marmaton?	3295
Do	Shumaker No. 2 "B" Coady	16-14-14W NE SE SW	1873	3275	-1402	granite wash	Pennsylvanian?	3295
Do	Shumaker No. 5 "B" Coady	16-14-14W SE NE SW	1884	3290	-1406	granite wash	Pennsylvanian?	3310
Do	Shumaker No. 1 "B" Fink	16-14-14W NW SW SE	1884	3287	-1403	granite wash	Lansing- Kansas City	3316

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Empire No. 1 Vaughn	17-14-14W SW SW SW	1861	3224	-1363	quartzite	Pennsylvanian?	3247
Do	Cities Service No. 4 Vaughn	17-14-14W SW NW SW	1879	3280	-1401	quartzite	Pennsylvanian?	3300
Do	Cities Service No. 5 Vaughn	17-14-14W NW NW SW	1876	3271	-1395	quartzite	Pennsylvanian?	3305
Do	Jones, Shelburne & Farmer No. 1 "B" Krug	17-14-14W NW NW NW	1886	3324	-1438	quartzite	Pennsylvanian?	3349
Do	Nixon No. 1 Carroll	18-14-14W SE SE NW	1871	3305	-1434	quartzite	Reagan	3310
Do	Phillips No. 1 Carroll	18-14-14W SE SE SE	1875	3187	-1312	quartzite	Lansing-Kansas City	3195
Do	Phillips No. 3 Carroll	18-14-14W NE SE SE	1880	3171	-1291	quartzite	Lansing-Kansas City	3186
Do	Phillips No. 4 Carroll	18-14-14W SE NE SE	1882	3233	-1351	7 ft. weathered quartzite on quartzite*	Pennsylvanian?	3247
Do	Lebow No. 4 Reinhardt	19-14-14W NW SW SE	1829	3475	-1646	granite wash	Reagan	4038
Do	National No. 1 "D" Reinhardt	19-14-14W NE NE NE	1872	3227	-1355	quartzite	Pennsylvanian?	3228
Do	National No. 4 "D" Reinhardt	19-14-14W NE SE NE	1859	3297	-1438	quartzite	Pennsylvanian?	3302
Do	Texas No. 9 Brandenburg	20-14-14W SE NW NW	1853	3184	-1331	quartzite	Lansing-Kansas City	3256

Wells Drilled Into Precambrian Rock in Kansas

Russell	Sharon No. 1 Miller	20-14-14W SW NW SE	1842	3243	-1401	quartzite	Lansing- Kansas City?	3252
Do	Central Petroleum No. 1 Crissman	20-14-14W SW NW NE	1872	3331	-1459	granite	Marmaton	3335
Do	Texas No. 1 "A" Rusch	20-14-14W W2 SW SE	1839	3278	-1439	quartzite	Reagan	3279
Do	Cities Service No. 1 "E" Miller	20-14-14W NW NW SE	1851	3261	-1410	quartzite	Lansing- Kansas City?	3283
Do	Frontier No. 1 Boxberger	21-14-14W NE NE NW	1869	3275	-1406	granite	Lansing- Kansas City?	3282
Do	Martin No. 1 Becker	21-14-14W SE SE SW	1868	3330	-1462	granite wash	Marmaton	3345
Do	Helmerick & Payne and Ohio No. 3 Boxberger	21-14-14W CSL NE	1864	3260	-1396	11 ft. granite wash on granite	Lansing- Kansas City?	3272
Do	Skelly No. 1 "B" Boxberger	21-14-14W E2 SE NW	1855	3277	-1422	granite	Reagan	3353
Do	CRA (National Refining) No. 1 Holl	21-14-14W SE SE SE	1815	3233	-1418	granite	Lansing- Kansas City?	3238
Do	Aylward No. 4 Holl	22-14-14W SW SW SW	1846	3355	-1509	granite wash	Pennsylvanian?	3365
Do	Texas No. 5 "B" Boxberger	22-14-14W SW NE NE	1837	3230	-1393	granite wash	Lansing- Kansas City	3255
Do	Duke & Wood No. 1 Holl	22-14-14W E2 E2 NW	1876	3270	-1394	granite wash	Lansing- Kansas City?	3296
Do	Duke & Wood No. 4 Holl	22-14-14W S2 NW NW	1898	3290	-1392	granite wash	Lansing- Kansas City	3320
Do	Sunray (Darby) No. 1 Boxberger	22-14-14W SW SW SE	1839	3210	-1371	granite wash	Lansing- Kansas City?	3283
Do	Gypsy No. 1 Gurney	23-14-14W NW NW SE	1807	3195	-1388	granite wash	Lansing- Kansas City?	3250

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Hartman-Blair No. 2 Gurney	23-14-14W NW NE NW	1818	3220	-1402	granite wash	Lansing-Kansas City?	3302
Do	Hartman-Blair No. 3"B" Gurney	23-14-14W SE NW SE	1800	3218	-1418	granite wash	Lansing-Kansas City?	3248
Do	Texas No. 2 Gurney	23-14-14W NW SW NE	1804	3206	-1402	granite wash	Lansing-Kansas City?	3250
Do	Gore No. 5"B" Gurney	23-14-14W SW NW SE	1810	3200	-1390	granite wash	Lansing-Kansas City	3268
Do	Gore & NCRA No. 6"B" Gurney	23-14-14W S2 NE SE	1793	3194	-1401	55 ft. granite wash on granite	Lansing-Kansas City	3255
Do	Skelly No. 2 Gurney	23-14-14W SW SE SW	1817	3210	-1393	48 ft. granite wash on granite	Lansing-Kansas City	3268
Do	Cities Service No. 4"A" Ebel	24-14-14W SE NE SW	1774	3171	-1397	granite wash	Lansing-Kansas City?	3186
Do	Cities Service No. 5"A" Ebel	24-14-14W NE SW SW	1794	3193	-1399	granite wash	Lansing-Kansas City?	3203
Do	Cities Service No. 6"A" Ebel	24-14-14W SE NW SW	1797	3197	-1400	granite wash	Lansing-Kansas City	3202
Do	Cities Service No. 7"A" Ebel	24-14-14W NE NW SW	1795	3192	-1397	granite wash	Lansing-Kansas City	3195
Do	Cities Service No. 10"A" Ebel	24-14-14W S2 S2 SW	1775	3178	-1403	granite wash	Lansing-Kansas City	3198
Do	Cities Service No. 4"B" Ebel	24-14-14W CNL SW SE	1752	3148	-1396	170 ft. granite on schist and quartzite*	Lansing-Kansas City	3364

Wells Drilled Into Precambrian Rock in Kansas

Russell	Cities Service No. 8"B" Ebel	24-14-14W CSL NW SE	1738	3137	-1399	granite wash	Lansing- Kansas City?	3140
Do	Cities Service No. II"B" Ebel	24-14-14W NW NE SE	1758	3159	-1401	granite wash	Lansing- Kansas City	3164
Do	Empire No. 1 Ebel	24-14-14W SW SW SW	1786	3188	-1402	biotite granite wash	Lansing- Kansas City	3280
Do	Cities Service No. 2"A" Ebel	24-14-14W CSL SE SW	1772	3174	-1402	granite wash	Lansing- Kansas City?	3188
Do	Shell No. 2 Dumler	24-14-14W NE SW NW	1800	3238	-1438	granite	Pennsylvanian?	3251
Do	Cities Service No. 2 Hickey	25-14-14W CWL SW SE	1746	3134	-1388	45 ft. granite wash on granite	Lansing- Kansas City?	3214
Do	Cities Service No. 3 Hickey	25-14-14W CNL NE SE	1760	3150	-1390	granite wash	Lansing- Kansas City?	3197
Do	Cities Service No. 4 Hickey	25-14-14W CNL NW SE	1765	3165	-1400	granite	Lansing- Kansas City?	3192
Do	Cities Service No. 5 Hickey	25-14-14W CSL NW SE	1748	3138	-1390	granite	Lansing- Kansas City?	3226
Do	Cities Service No. 6 Hickey	25-14-14W SE NE SE	1741	3128	-1387	granite wash	Lansing- Kansas City	3134
Do	Skelly No. 8 Rein	25-14-14W S2 NE SW	1755	3148	-1393	quartzite	Lansing- Kansas City?	3151
Do	Skelly No. 9 Rein	25-14-14W N2 NE SW	1746	3135	-1389	granite	Lansing- Kansas City	3145
Do	Stanolind No. 2 Rein	25-14-14W SE NW NW	1777	3170	-1393	arkose	Lansing- Kansas City	3252
Do	Stanolind No. 4 Rein	25-14-14W CSL SW NW	1769	3158	-1389	granite	Lansing- Kansas City?	3223
Do	Stanolind No. 5 Rein	25-14-14W CNL NE NW	1775	3177	-1402	granite wash	Lansing- Kansas City?	3181

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Stanolind No. 7 Rein	25-14-14W CSL SE NW	1763	3155	-1392	granite	Lansing-Kansas City	3233
Do	Stanolind No. 8 Rein	25-14-14W NE SE SW	1770	3164	-1394	granite	Lansing-Kansas City	3236
Do	Stanolind No. 9 Rein	25-14-14W W2 E2 NW	1772	3162	-1390	weathered red granite cutting schist	Lansing-Kansas City	3245
Do	Hartman-Blair No. 5 Boxberger	26-14-14W SE NW NE	1791	3182	-1391	granite wash	Lansing-Kansas City?	3321
Do	Hays & Sackrider No. 2 Boxberger	26-14-14W SE SW SE	1772	3154	-1382	granite wash	Lansing-Kansas City?	3198
Do	Hays & Sackrider No. 1 Boxberger	26-14-14W SW SW SE	1775	3160	-1385	granite	Lansing-Kansas City?	3207
Do	Billings No. 4 Herbel	26-14-14W NW NW SW	1785	3161	-1376	granite	Lansing-Kansas City?	3166
Do	Billings No. 1 "B" Herbel	26-14-14W SE SE SW	1773	3175	-1402	granite wash	Lansing-Kansas City?	3204
Do	Saco No. 2 "B" Krug	26-14-14W NW NW NW	1798	3191	-1393	44 ft. granite wash on granite	Lansing-Kansas City?	3250
Do	Trans Era No. 1 "B" Krug	26-14-14W NW SW NW	1796	3195	-1399	granite wash	Lansing-Kansas City?	3232
Do	Cities Service (Empire) No. 1 Herbel	26-14-14W NW NE SW	1786	3224	-1438	granite	Lansing-Kansas City?	3323
Do	Driscoll No. 1 Driscoll	27-14-14W E2 SE SW	1806	3226	-1420	granite wash	Lansing-Kansas City?	3234

Russell	Stanolind No. 3"B" Krug	27-14-14W S2 N2 SE	1795	3162	-1367	quartzite	Pennsylvanian? 3360
Do	Stanolind No. 4"B" Krug	27-14-14W N2 SE SE	1788	3169	-1381	granite wash on quartzite	Lansing- Kansas City? 3185
Do	Stearn No. 1 Krug	27-14-14W SE SE SE	1782	3205	-1423	weathered granite	Pennsylvanian? 3240
Do	Westgate-Greenland No. 2 Rusch	29-14-14W W2 SE NE	1811	3332	-1521	granitic gneiss and muscovite quartzite*	Reagan 3357
Do	Duke & Wood No. 2 Rexroad	30-14-14W NE NW SW	1818	3429	-1611	granite wash	Reagan 3430
Do	El Capitan No. 2"A" Mai	34-14-14W SW NW NE	1802	3333	-1531	granite	Pennsylvanian? 3337
Do	Billings No. 2"A" Herbel	35-14-14W SE NE NW	1769	3191	-1422	granite wash	Lansing- Kansas City 3192
Do	Braden & McClure No. 1 Herbel	35-14-14W NE NW NW	1775	3173	-1398	granite wash	Lansing- Kansas City? 3185
Do	Braden No. 2 Herbel	35-14-14W NW NW NW	1785	3190	-1405	granite wash	Reagan 3198
Do	Cities Service No. 5"A" Strecker	35-14-14W SW SW NE	1745	3255	-1510	schist and speckled quartzite*	Reagan 3280
Do	Cities Service No. 8"A" Strecker	35-14-14W NW NE NE	1770	3164	-1394	granite wash	Lansing- Kansas City? 3318
Do	Cities Service No. 10"A" Strecker	35-14-14W CEL NE NE	1771	3166	-1395	quartzite	Lansing- Kansas City 3174
Do	Texas No. 1 Keil	36-14-14W CWL NW SE	1732	3124	-1392	schist and speckled quartzite*	Lansing- Kansas City 3132
Do	Cities Service No. 7"B" Strecker	36-14-14W S2 N2 NE	1751	3145	-1394	granite wash	Reagan 3147

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Cities Service No. 1 "C" Strecker	36-14-14W NE NW SW	1759	3130	-1371	muscovite quartzite*	Lansing-Kansas City	3153
Do	Cities Service No. 2 "B" Strecker	36-14-14W CWL NW NE	1751	3138	-1387	granite	Lansing-Kansas City	3173
Do	Cities Service (Empire) No. 1 "B" Strecker	36-14-14W NE NE NE	1740	3125	-1385	granite*	Pennsylvanian?	3164
Do	Cities Service No. 3 "B" Strecker	36-14-14W CWL SW NE	1750	3152	-1402	weathered granite	Pennsylvanian?	3160
Do	Hinkle No. 2 Michel	36-14-14W CEL NE SW	1745	3134	-1389	quartzite	Pennsylvanian?	3138
Do	Phillips No. 2 Michel	36-14-14W SE SW NW	1758	3160	-1402	quartzite	Pennsylvanian?	3161
Do	Texas No. 2 Keil	36-14-14W E2 NW SE	1748	3132	-1384	quartzite*	Pennsylvanian?	3146
Do	Texas No. 5 Anschutz	1-14-15W SW SW SW	1879	3390	-1511	granite	Reagan	3394
Do	Texas No. 11 Anschutz	1-14-15W E2 E2 SW	1867	3365	-1498	granite	Reagan	3379
Do	Gulf No. 7 Ehrlich	1-14-15W NE SE NW	1878	3463	-1585	granite	Reagan	3475
Do	Cities Service No. 15 Crawford	2-14-15W NE SE SW	1882	3409	-1527	weathered granite	Reagan	3423
Do	Billings No. 23 Witt	3-14-15W NE SW SW	1866	3274	-1408	granite	Lansing-Kansas City?	3313
Do	Billings No. 31 Witt	3-14-15W NE SE SW	1881	3360	-1479	granite	Pennsylvanian?	3371

Wells Drilled Into Precambrian Rock in Kansas

Russell	Bridgeport No. 4 "B" Witt	3-14-15W NE NE SW	1883	3310	-1427	granite	Arbuckle	3315
Do	Central Petroleum No. 8 Witt	3-14-15W NW SW SE	1878	3289	-1411	granite	Lansing- Kansas City?	3319
Do	Stanolind No. 6 Benso	4-14-15W NW NW SW	1893	3274	-1381	granite and schist*	Lansing- Kansas City	3400
Do	Stanolind No. 7 Benso	4-14-15W NW SW SW	1886	3268	-1382	granite	Lansing- Kansas City?	3407
Do	Midwest No. 33 Witt	4-14-15W SE SW SE	1874	3260	-1386	granite	Lansing- Kansas City?	3297
Do	Stearns-Streeter No. 1 Benso	4-14-15W SE SE SW	1872	3257	-1385	biotite granite	Lansing- Kansas City?	3279
Do	Riggs No. 2 "D" Dortland	4-14-15W SE SE NW	1873	3280	-1407	granite	Pennsylvanian	3285
Do	Bridgeport No. 1 "A" Mills	4-14-15W CNL NE NE	1898	3299	-1401	granite	Pennsylvanian?	3300
Do	CRA No. 1 "F" Witt	4-14-15W C NE SW	1883	3265	-1382	9 ft. granite wash on granite	Lansing- Kansas City?	3275
Do	Stanolind No. 12 "D" Dortland	5-14-15W SW NE SW	1877	3278	-1401	granite	Lansing- Kansas City	3280
Do	Phil-Han No. 1 Foster-Aley	6-14-15W SE SE NE	1874	3281	-1407	syenitic granite*	Lansing- Kansas City?	3283
Do	Bridgeport No. 3 Dortland	8-14-15W C NE	1871	3264	-1393	granite	Lansing- Kansas City	3306
Do	Day & Keys No. 2 Dortland	8-14-15W NE NE NE	1881	3270	-1389	granite	Pennsylvanian?	3340
Do	Allison No. 1 Swartz	8-14-15W NE NE NW	1878	3257	-1379	granite	Lansing- Kansas City	3295
Do	Central Petroleum No. 1 "C" Benso	9-14-15W SE SE SW	1870	3257	-1387	biotite granite	Lansing- Kansas City	3313

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Furthmeyer No. 1 Furthmeyer	9-14-15W SE SE SE	1848	3234	-1386	6 ft. granite wash on granite	Lansing-Kansas City	3248
Do	Witt No. 1 Furthmeyer	9-14-15W SE NE SE	1858	3252	-1394	granite wash	Lansing-Kansas City	3267
Do	P & R No. 1 Mermis	9-14-15W SW NW NE	1867	3250	-1383	granite wash	Lansing-Kansas City?	3327
Do	Wicks No. 1 Benso	9-14-15W NE NW SW	1879	3268	-1389	granite	Lansing-Kansas City?	3272
Do	Bridgeport No. 4 Polcyn	10-14-15W SW NW NE	1871	3297	-1426	granite	Pennsylvanian?	3298
Do	Saco No. 1 Mills	10-14-15W NW NW NW	1864	3240	-1376	granite	Marmaton	3280
Do	Paxton & Scott No. 1 Mills	10-14-15W NE NE NW	1871	3278	-1407	weathered granite	Marmaton	3368
Do	Wolfcreek No. 1 Mills	10-14-15W SW SW SW	1850	3256	-1406	granite	Pennsylvanian?	3307
Do	Wolfcreek No. 2 Mills	10-14-15W NE SE NW	1868	3284	-1416	granite	Lansing-Kansas City	3287
Do	Wolfcreek No. 3 Mills	10-14-15W SE SE NW	1865	3273	-1408	9 ft. granite wash on granite	Marmaton?	3289
Do	Stanolind No. 3 Witt	10-14-15W W2 NE SW	1855	3263	-1408	granite	Lansing-Kansas City	3296
Do	Wormer-Bradley No. 1 Witt	10-14-15W SE NW NW	1863	3261	-1398	5 ft. granite wash on granite	Lansing-Kansas City?	3267
Do	Witt No. 1 "B" Witt	10-14-15W SE SW SW	1831	3236	-1405	granite	Pennsylvanian?	3250

Wells Drilled Into Precambrian Rock in Kansas

Russell	Skelly No. 3"C" Boxberger	12-14-15W SE NW SE	1847	3407	-1560	quartzite	Reagan	3425
Do	Transwestern No. 1 Polcyn	14-14-15W E2 SW NW	1796	3270	-1474	quartzite on granite	Reagan	3310
Do	Haynes & Anschutz No. 1 Ball	16-14-15W SE NE NW	1864	3315	-1451	quartzite and gneissic layers*	Lansing- Kansas City?	3392
Do	Frontier No. 1 Rouback	16-14-15W E2 E2 NE	1857	3251	-1394	granite	Lansing- Kansas City	3312
Do	Gross & Carlock No. 1 Rouback	16-14-15W C NE NE	1857	3253	-1396	granite	Lansing- Kansas City	3296
Do	Sunray No. 1 Furthmeyer	22-14-15W NE NE SE	1812	3371	-1559	granite wash	Reagan	3395
Do	Sohio No. 1 Preston	22-14-15W NW SW NW	1811	3383	-1572	granite wash	Arbuckle	3430
Do	Finston & Murfin No. 2 Furthmeyer	23-14-15W N2 NE NW	1803	3323	-1520	granite	Reagan	3326
Do	Murfin No. 1 Furthmeyer (twin)	23-14-15W NE NE NW	1789	3315	-1526	quartzite	Reagan?	3320
Do	Palmer No. 3"A" Niedenthal	23-14-15W NE SE SE	1755	3309	-1554	granite	Arbuckle	3327
Do	Phillips No. 2 Boxberger	24-14-15W E2 SW NW	1808	3374	-1566	interbedded gneiss, chloritic schist, and quartzite*	Reagan	3387
Do	Skelly No. 6 Ehrlich	25-14-15W N2 SE NE	1796	3433	-1637	quartzite	Arbuckle	3436
Do	Ohio No. 5 Harbaugh	25-14-15W SE SW NW	1747	3385	-1638	schist	Reagan	3430
Do	Lario No. 7 Waudby	26-14-15W NW SE NE	1752	3327	-1575	6 ft. granite wash on granite	Reagan	3333

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company well number, and farm	Location	Surface elevation, feet	Elevation		Rock unit on basement	Total depth, feet	
				Depth to Precambrian, feet	Precambrian rock type			
Ellis	Transit No. 2 Heyl	26-14-16W SE NW SW	1838	3653	-1815	granite wash	Reagan	3705
Do	Haynes (Atlantic) No. 3 Schulte	27-14-16W NW NE SE	1841	3682?	-1841?	granite wash	Arbuckle	3717
Do	Phillips No. 1 Brull	34-14-17W C NW	1962	3877	-1915	granite	Reagan	3895
Do	Colorado No. 3 Engel	34-14-18W SW SE NW	2052	3882	-1850	8 ft. granite wash on granite	Arbuckle	3895
Do	Stanolind No. 1 Furthmeyer	5-14-19W SE SW NW	2251	4070	-1819	granite	Arbuckle	4079
Do	Davis & Transit No. 4 Kinderknecht	8-14-19W SE SE SE	2205	4034	-1829	6 ft. granite wash on granite	Arbuckle	4048
Do	Frontier No. 4 Kinderknecht	16-14-19W NE NE NW	2197	4040	-1843	granite wash	Arbuckle	4075
Do	Frontier No. 2 "A" Seitz	17-14-19W NE SW SE	2172	3952	-1780	granite wash	Arbuckle	3981
Do	Frontier No. 3 "D" Kraus	27-14-19W NW NW NW	2149	3964	-1815	granite wash	Arbuckle	3984
Do	Walters (Brunson) No. 1 Weber	28-14-19W NE NE SW	2135	3956	-1821	granite	Reagan	3963
Do	Sunray No. 2 "A" Pfeifer	2-14-20W SW SW SE	2217	3903	-1686	granite wash	Reagan	3944
Do	Sunray (Vickers) No. 2 Dinkel	3-14-20W S2 NE NE	2261	3995	-1734	26 ft. granite wash on granite	Reagan	4028
Do	Thunderbird No. 1 Cerney	14-14-20W NE NW NW	2152	3837	-1685	quartzite?	Reagan	3840

Wells Drilled Into Precambrian Rock in Kansas

Ellis	Birmingham-Bartlett No. 1 "A" Cerney	15-14-20W SW SE SE	2207	3851	-1644	quartzite	Reagan	3853
Do	Helmerich & Payne No. 1 Kuhn	16-14-20W C NE	2216	3970	-1754	28 ft. granite wash on granite	Reagan	4002
Do	Shields No. 1 "B" Solomon	22-14-20W SE SW NW	2234	3885	-1651	quartzite	Reagan	3886
Do	Keystone No. 1 Lee	25-14-20W SE SE NE	2130	3839	-1709	quartzite	Reagan	3842
Trego	Lauck & Harra (Olson) No. 1 Lang	1-14-21W SE SE NW	2221	4120	-1899	quartzite?	Reagan	4134
Do	Central Commercial No. 1 Locker	12-14-22W SW NE SW	2229	4707	-2478	granite	Reagan	4731
Do	Marathon No. 1 Kline	19-14-24W SW SW SE	2349	5050	-2701	granite	Reagan	5144
Ellsworth	Lario-Elwell No. 1 State	29-15-8W SW SW SW	1641	3204	-1563	metamorphics	Reagan	3953
Do	Borell No. 1 Mattas	1-15-10W NW NW NW	1614	3520	-1906	granite wash	Reagan	4020
Do	Stearns No. 1 Diabal	3-15-10W SE SE NE	1586	3800	-2214	arkose	Reagan	4115
Russell	Lebow No. 4 Chegwiddden	29-15-11W NE SW SW	1772	3230	-1458	granite wash	Marmaton	3235
Do	Mid Plains No. 1 Chegwiddden	29-15-11W SW SW SE	1811	3320	-1509	quartzite	Marmaton	3334
Do	Mid Plains No. 1 "B" Chegwiddden	29-15-11W N2 SE SW	1785	3255	-1470	granite wash	Marmaton	3256
Do	Mid Plains No. 3 "B" Chegwiddden	29-15-11W S2 SE SW	1839	3312	-1473	quartzite	Pennsylvanian?	3315
Do	Blair No. 1 Foster	33-15-11W CSL SE SE	1785	3243	-1458	quartzite*	Arbuckle	3285

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Salina No. 1 Kyner	33-15-11W NE SE NW	1775	3444	-1669	granite wash	Reagan	3445
Do	Herndon No. 1 Phillips	34-15-11W SW SW SE	1856	3289	-1433	quartzite	Pennsylvanian?	3310
Do	Shell No. 2 Major	4-15-12W SW NW NE	1766	3312	-1546	quartzite	Reagan	3336
Do	Shell and Skelly No. 1 Vejl	5-15-12W CSL NE NW	1764	3405	-1641	granite	Reagan	3408
Do	Stanolind No. 2 Zeman	9-15-12W N2 NE NE	1853	3449	-1596	weathered granite	Reagan	3466
Do	B & R No. 1 Kaufman	10-15-12W NW SW SW	1785	3255	-1470	quartzite	Lansing-Kansas City	3278
Do	Skelly No. 1 Heinze	13-15-12W SW SE SW	1862	3343	-1481	granite	Reagan	3344
Do	Kaufman & Morris No. 1 Gustason	14-15-12W SE SW NE	1857	3363	-1506	granite wash	Arbuckle	3365
Do	B & R No. 1 Kastrup	15-15-12W C NW SE	1732	3192	-1460	quartzite	Arbuckle	3227
Do	Gore No. 3 Kastrup	15-15-12W NW NW SW	1791	3342	-1551	42 ft. granite wash on granite	Reagan	3388
Do	Skelly No. 3 "A" Parker	18-15-12W NW SW NW	1849	3529	-1680	quartzite	Reagan	3563
Do	Sohio No. 2 Meier	20-15-12W N2 SW SE	1855	3438	-1583	granite	Reagan	3559
Do	Duke & Wood No. 6 Krause	21-15-12W NE SE NE	1793	3344	-1551	quartzite	Arbuckle	3350

Wells Drilled Into Precambrian Rock in Kansas

Russell	Phil-Han and Helemrich & Payne, No. 1 Miller	22-15-12W NE NE NE	1803	3311	-1508	quartzite	Arbuckle	3314
Do	Fleming & Woodman No. 1 Brown	24-15-12W SE NE NW	1850	3343	-1493	quartzite	Arbuckle	3355
Do	Lauck & Moncrief No. 1 "A" Janne	24-15-12W SW SW NE	1846	3253	-1407	quartzite	Lansing- Kansas City?	3272
Do	Lauck & Moncrief No. 2 "A" Janne	24-15-12W SW SE NE	1857	3281	-1424	quartzite	Pennsylvanian?	3282
Do	Siegrist No. 1 "A" Janne	24-15-12W N2 NW NE	1859	3314	-1455	9 ft. granite wash on granite	Lansing- Kansas City	3334
Do	Jones, Shelburne & Farmer No. 2 Buehler	26-15-12W NW NW SW	1874	3275	-1401	quartzite	Pennsylvanian?	3295
Do	Jones, Shelburne & Farmer No. 3 Buehler	26-15-12W SE NW SW	1861	3307	-1446	quartzite	Pennsylvanian?	3310
Do	Lewis (Ingling) No. 2 Brown	27-15-12W NE SE SW	1845	3247	-1402	3 ft. granite wash on granite	Lansing- Kansas City	3254
Do	Lewis No. 3 Brown	27-15-12W NW SE SW	1810	3211	-1401	quartzite	Lansing- Kansas City?	3212
Do	Lewis No. 4 Brown	27-15-12W SW SE SW	1802	3201	-1399	quartzite	Lansing- Kansas City?	3204
Do	Murfin No. 4 Janne	27-15-12W NW SW SE	1868	3293	-1425	quartzite	Lansing- Kansas City?	3303
Do	Gore No. 1 Klusener	28-15-12W NW SE NE	1791	3390	-1599	quartzite	Pennsylvanian?	3499
Do	Lauck No. 9 Klusener	28-15-12W W2 NE SW	1847	3490	-1643	weathered granite	Reagan	3536
Do	El Dorado No. 5 "A" Steinle	29-15-12W SE SE NE	1868	3416	-1548	quartzite?	Arbuckle	3447
Do	Phillips No. 1 Luermann	29-15-12W SE SW SW	1870	3354	-1484	quartzite	Arbuckle	3357

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Rupp-Ferguson No. 1 Luermann	29-15-12W SW SE SW	1871	3338	-1467	quartzite	Arbuckle	3341
Do	Stearns No. 2 Luermann	29-15-12W E2 E2 SE	1855	3361	-1506	granite	Arbuckle	3364
Do	El Dorado and Aylward No. 5 Meier	30-15-12W SE NE SW	1878	3458	-1580	granite wash?	Arbuckle	3485
Do	Terrel No. 1 Ney	31-15-12W NE SE SE	1869	3354	-1485	granite wash	Pennsylvanian?	3373
Do	Wood River No. 3 Ney	31-15-12W SE NW SE	1876	3386	-1510	quartzite	Pennsylvanian?	3387
Do	NCRA No. 2 Hilgenberg	32-15-12W S2 S2 SE	1813	3255	-1442	quartzite	Lansing-Kansas City	3259
Do	Wood River No. 1 Hilgenberg	32-15-12W NW NW SW	1854	3284	-1430	quartzite	Lansing-Kansas City	3292
Do	Wood River No. 2 Hilgenberg	32-15-12W SE NW SW	1851	3270	-1419	quartzite	Lansing-Kansas City	3308
Do	Wood River No. 4 Hilgenberg	32-15-12W SW NW SW	1865	3358	-1493	quartzite	Marmaton	3380
Do	NCRA No. 1 Hilgenberg	32-15-12W SW SW SE	1830	3290	-1460	quartzite	Lansing-Kansas City	3291
Do	NCRA No. 1 Kaufman	33-15-12W SW SW SW	1859	3359	-1500	quartzite	Lansing-Kansas City?	3365
Do	Sitrin No. 3 Galliard	34-15-12W SE NW SE	1883	3370	-1487	8 ft. granite wash on granite	Pennsylvanian?	3379
Do	B & R No. 4 Hitchman	34-15-12W NW SE SE	1895	3422	-1527	granite wash	Arbuckle	3429

Wells Drilled Into Precambrian Rock in Kansas

Russell	B & B No. 1 Galliant	34-15-12W NE SE SW	1871	3456	-1585	51 ft. quartzite on granite	Reagan	3618
Do	Trapp No. 3 Gross	5-15-13W N2 N2 NW	1748	3220	-1472	granite wash	Lansing- Kansas City?	3243
Do	CRA No. 2 Berrick	6-15-13W SW SW NE	1833	3299	-1466	granite wash	Lansing- Kansas City	3300
Do	CRA No. 3 Berrick	6-15-13W NE SW NE	1812	3292	-1480	granite	Lansing- Kansas City	3293
Do	Derby No. 9 Krug	7-15-13W W2 W2 NW	1864	3593	-1729	granite wash	Arbuckle	3637
Do	Skelly No. 3 Rein	8-15-13W SE NE SW	1740	3336	-1596	quartzite	Reagan	3340
Do	Skelly No. 6 Rein	8-15-13W CSL NE SE	1870	3304	-1434	pink and gray quartzite	Lansing- Kansas City	3317
Do	Skelly No. 7 Rein	8-15-13W CNL NE SW	1742	3430	-1688	granite	Reagan	3482
Do	Skelly No. 9 Rein	8-15-13W N2 NE SE	1853	3225	-1372	quartzite	Lansing- Kansas City	3234
Do	Empire No. 1 Hlad	10-15-13W SW NW SW	1866	3540	-1674	quartzite	Arbuckle	3578
Do	Sinclair Prairie No. 4 Sellens	15-15-13W S2 NE SW	1874	3601	-1727	granite	Arbuckle	3608
Do	Sinclair Prairie No. 6 Sellens	15-15-13W S2 NE SW	1875	3535	-1660	quartzite	Reagan	3670
Do	Isern No. 2 "B" Schultz	16-15-13W CWL SE NE	1876	3600	-1724	granite wash	Reagan	3622
Do	Isern No. 7 Schultz	16-15-13W SE NE NE	1880	3605	-1725	granite wash	Reagan	3643
Do	Continental No. 10 Meharg	17-15-13W CNL S2 NE	1838	3515	-1677	quartzite	Arbuckle	3565

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	CRA No. 11 Sellens	17-15-13W N2 S2 NW	1761	3195?	-1434?	13 ft. granite wash on granite	Pennsylvanian?	3214
Do	CRA (Coralena) No. 1 Sellens	17-15-13W NW NW NW	1767	3405	-1638	quartzite	Arbuckle	3420
Do	Southern No. 4 Meharg	18-15-13W NW NW NE	1810	3574	-1764	granite wash	Reagan	3644
Do	Sturm and National Marketing, No. 4 Meharg	18-15-13W SE NW NE	1818	3541	-1723	granite wash	Reagan	3547
Do	CRA (Coralena) No. 9 Sellens	19-15-13W NE NE NE	1803	3555	-1752	granite	Reagan	3571
Do	CRA No. 16"W" Sellens	19-15-13W C NE NE	1787	3501	-1714	quartzite	Reagan	3537
Do	CRA No. 18 Sellens	19-15-13W E2 NE NE	1785	3516	-1731	granite	Arbuckle	3521
Do	Sunray (Transwestern) No. 4 Boomhower	19-15-13W SW SW SW	1873	3585	-1712	granite wash	Reagan	3628
Do	Helmerich & Payne No. 8 Sylvia	20-15-13W N2 SE NW	1783	3510	-1727	quartzite and granite	Reagan	3513
Do	Jones, Shelburne & Farmer No. 4"C" Sellens	20-15-13W SW SW SW	1801	3530	-1729	granite wash	Reagan	3531
Do	Kewanee (Adair) No. 3 Berrick	24-15-13W NE NW SW	1774	3473	-1699	granite wash	Reagan	3675
Do	Kewanee No. 6 Berrick	24-15-13W NW SW SW	1835	3361	-1526	quartzite	Arbuckle	3479
Do	Sinclair Prairie No. 3 Hefferman	26-15-13W NW SW NE	1801	3367	-1566	muscovite quartzite*	Reagan	3517

Wells Drilled Into Precambrian Rock in Kansas

Russell	Carter (Southern) No. 2 "A" Sellens	26-15-13W NW NE SW	1803	3376	-1573	quartzite and mica	Reagan	3543
Do	Signal No. 2 Taylor	26-15-13W CEL SE	1882	3368	-1486	quartzite	Arbuckle	3387
Do	Coralena No. 3 Sellens	29-15-13W NW SW NW	1811	3560	-1749	granite	Reagan	3610
Do	Carter (Southern) No. 1 "A" Boomhower	30-15-13W SE SE NE	1809	3532	-1723	granite	Reagan	3536
Do	Empire No. 6 Sellens	30-15-13W NW SW SW	1854	3570	-1716	granite wash	Reagan	3583
Do	Gulf No. 14 Hoffman	31-15-13W SE NW SW	1836	3524	-1688	granite	Reagan	3529
Do	Gulf No. 15 Hoffman	31-15-13W NE SW SW	1833	3524	-1691	weathered granite	Reagan	3531
Do	Gulf No. 16 Hoffman	31-15-13W SW NW SW	1839	3528	-1689	granite	Reagan	3532
Do	Phillips No. 10 Hoffman	31-15-13W NE SW SE	1904	3585	-1681	granite	Reagan	3605
Do	Derby No. 1 Michaelis	31-15-13W SE SE NW	1829	3482	-1653	26 ft. granite wash on granite	Reagan	3509
Do	Shell No. 1 "W" Michaelis	31-15-13W NE SW NE	1836	3498	-1662	weathered granite	Reagan	3555
Do	Gulf No. 14 Michaelis	32-15-13W E2 SW SW	1898	3582	-1684	granite	Reagan	3590
Do	Skelly No. 3 Niedens	32-15-13W NE SW NE	1888	3581	-1693	granite	Arbuckle	3583
Do	Skelly No. 7 Niedens	32-15-13W NW SW SE	1851	3537	-1686	24 ft. granite wash on granite	Reagan	3629
Do	Shawver-Graham No. 1 Michaelis	33-15-13W W2 NE SE	1893	3597	-1704	granite	Arbuckle	3598

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Russell	Alcorn (Marland) No. 1 Seilens	36-15-13W SE SE SE	1892	3520	-1628	quartzite	Reagan	3643
Do	NCRA No. 2 Michel	2-15-14W NE NE SE	1715	3327	-1612	quartzite	Reagan	4009
Do	Ohio No. 2 Meier	10-15-14W C SW SW	1775	3452	-1677	quartzite	Reagan	3621
Do	NCRA No. 5 "A" Flegler	10-15-14W SE NE NE	1740	3455	-1715	granite wash	Reagan	3740
Do	Cities Service No. 4 "A" Tittle	12-15-14W CEL NE SW	1856	3538	-1682	quartzite	Reagan	3539
Do	B & R No. 5 Tittle	13-15-14W SE NW NW	1893	3598	-1705	granite wash	Reagan	3627
Do	Phillips No. 1 Kramer	14-15-14W NE NW SW	1885	3584	-1699	granite wash	Reagan	3630
Do	Champlin No. 5 "A" Tittle	14-15-14W NW SW SE	1878	3566	-1688	21 ft. granite wash on granite	Reagan	3591
Do	Phillips No. 3 Krug	15-15-14W SW SE SE	1860	3568	-1708	granite wash	Reagan	3611
Do	Phil-Han No. 1 Karst	22-15-14W NE NE SE	1841	3484	-1643	quartzite	Reagan	3489
Do	Empire No. 3 "A" Krug	24-15-14W NE NW NW	1905	3599	-1694	magnetite-bearing quartzite on syenite*	Reagan	3631
Do	Empire No. 1 "A" Bender	26-15-14W NW NE NE	1894	3616	-1722	granite wash	Reagan	3619

Wells Drilled Into Precambrian Rock in Kansas

Russell	Skelly No. 1 Mai	35-15-14W NW NE SW	1915	3610	-1695	granite	Arbuckle	3629
Do	CRA (Coralena) No. 9 Deines	36-15-14W NE NW NE	1847	3526	-1679	granite	Reagan	3568
Ellis	Labette No. 1 Urban	19-15-16W NE NW NW	1961	3815	-1854	red weathered granite	Reagan	3905
Do	NCRA No. 1 Leiker	30-15-17W NW NW SW	1952	3774	-1822	granite wash	Reagan	3785
Do	Francis No. 6 Wasinger	10-15-18W SE SW SE	2005	3840	-1835	granite wash?	Reagan	3845
Do	Alpine No. 2 Leiker	13-15-18W SW SW NE	2006	3990	-1984	granite wash	Arbuckle	4008
Do	Wood River No. 8 Dechant	14-15-18W NE SW NE	2004	3847	-1843	32 ft. granite wash on granite	Reagan	3900
Do	Gulf (H H & B) No. 3 Engel	21-15-18W S2 NE SE	2004	3818	-1814	granite	Reagan	3822
Do	Frontier No. 1 Gross	23-15-18W NW NW NE	1962	3778	-1816	16 ft. granite wash on granite	Reagan	3807
Do	Herndon No. 1 Younger	6-15-19W NE NE SE	2053	3755?	-1702?	quartzite?	Arbuckle	3756
Do	Flournoy & Haston No. 1 Urban	11-15-19W NW NW SW	2030	3725	-1695	quartzite	Reagan	3738
Do	Continental and Lion No. 1 Unrein	16-15-19W NE NE SE	1998	3651	-1653	quartzite	Reagan	3654
Do	Musgrove No. 1 Hauschild	16-15-19W NE NE SW	2014	3636	-1622	quartzite	Reagan	3638
Do	Stickle No. 1 Penny	18-15-19W NE NE NW	2009	3651	-1642	quartzite	Reagan	3652
Do	Lauck No. 1 Werth	19-15-19W SE SE SE	2061	3742	-1681	quartzite	Reagan	3747

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Ellis	Stanolind No. 1 Wann	12-15-20W NW SW SE	1990	3702	-1712	10 ft. granite wash on granite	Reagan	3716
Do	Falcon-Seaboard No. 1 Wann	14-15-20W N2 NW NW	2067	3847	-1780	granite	Arbuckle	3861
Do	Pratt No. 1 North	20-15-20W SE SW SW	2157	3962	-1805	granite wash	Reagan	3980
Do	Buffalo and Rine No. 1 Mutual	28-15-20W SW SW NW	2191	3988	-1797	22 ft. granite wash on granite	Reagan	4055
Do	Texas No. 1 Elmore	35-15-20W SE SE SW	2164	3810	-1646	25 ft. weathered granite on granite	Reagan	3843
Logan	Alma No. 1 Watchorn	13-15-33W C SW NE	2780	5660	-2880	30 ft. granite wash on granite	Arbuckle	5750
Ellsworth	Wrightsmen No. 1 Kunkle	3-16-8W C SW	1563	3390	-1827	arkose	Reagan	4445
Do	Continental No. 3'A' Hodgson	32-16-8W C SE	1684	3910?	-2226?	granite wash	Reagan	3911
Do	Independent No. 1 Gregory	24-16-9W C SW	1738	3895	-2157	granite wash	Reagan	4009
Do	NCRA No. 5 Harbacek	7-16-10W W2 NE NW	1860	3827	-1967	granite wash	Arbuckle	3966
Do	Elwell No. 5 Lanzel	20-16-10W W2 E2 SE	1844	3759	-1915	granite	Reagan	3762
Do	Gulf and Stanolind No. 1 Frevert	21-16-10W NE NE NE	1880	3900	-2020	granite	Reagan	3960
Do	Magnolia No. 6 Schroeder	26-16-10W CEL NW SW	1827	3857	-2030	pink biotite granite	Reagan	3879

Wells Drilled Into Precambrian Rock in Kansas

Ellsworth	Magnolia No. 7 Schroeder	26-16-10W W2 W2 SW	1839	3870	-2031	granite	Reagan	3878
Do	Atlantic No. 5 "E" Stoltenberg	27-16-10W SE SW SE	1810	3823	-2013	granite	Reagan	3866
Do	Atlantic No. 7 "E" Stoltenberg	27-16-10W C SW SE	1815	3816	-2001	granite wash	Reagan	3840
Do	Artnell No. 4 "B" Stoltenberg	28-16-10W C SW	1831	3767	-1936	22 ft. granite wash on granite	Reagan	3801
Do	Murfin No. 4 "B" Loula	28-16-10W C S2 SE	1813	3782	-1969	24 ft. granite wash on granite	Reagan	3807
Do	Lauck & Moncrief No. 3 Meyer	35-16-10W NE NE NW	1836	3878	-2042	55 ft. granite wash on granite	Reagan	3939
Barton	NCRA No. 1 Kaiser	6-16-11W SW SE SE	1793	3448	-1655	granite wash	Arbuckle	3584
Do	G M R No. 1 Oeser	17-16-11W NW SW SE	1879	3276	-1397	quartzite	Lansing- Kansas City?	3277
Do	Sinclair Prairie No. 1 E. Oeser	17-16-11W NE NE SE	1848	3272	-1424	quartzite	Lansing- Kansas City	3277
Do	Sinclair Prairie No. 2 E. Oeser	17-16-11W SE SE SE	1870	3420	-1550	quartzite	Reagan	3426
Do	Sinclair Prairie No. 3 E. Oeser	17-16-11W SW SW SE	1852	3239	-1387	quartzite	Lansing- Kansas City	3249
Do	Sinclair No. 5 E. Oeser	17-16-11W SW NW SE	1869	3278	-1409	quartzite	Lansing- Kansas City	3351
Do	Sinclair No. 1 M. Oeser	17-16-11W SE SE SW	1880	3255	-1375	quartzite	Lansing- Kansas City	3263
Do	Sinclair No. 5 M. Oeser	17-16-11W NE SE SW	1882	3277	-1395	quartzite	Lansing- Kansas City	3278
Do	Sinclair No. 6 M. Oeser	17-16-11W SE NE SW	1869	3277	-1408	quartzite	Pennsylvanian?	3288

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Rock unit on basement	Total depth, feet	
				Depth to Precambrian, feet	of Precambrian, feet			
Barton	NCRA (Black & Marshall) No. 2 Krier	18-16-11W CEL SW NW	1853	3384	-1531	quartzite	Reagan	3396
Do	Black & Marshall No. 6 Krier	18-16-11W SE SW NW	1855	3372	-1517	granite wash	Reagan	3453
Do	Brunson No. 7 Redetzke	18-16-11W N2 SW SE	1887	3436	-1549	granite wash	Arbuckle	3466
Do	Solar and Sinclair No. 1 Schartz	18-16-11W SE SE NE	1883	3471	-1588	granite	Arbuckle	3476
Do	Solar No. 2 Schartz	18-16-11W CSL SW NE	1842	3250	-1408	quartzite	Lansing- Kansas City	3283
Do	Solar No. 3 Schartz	18-16-11W SE NE NE	1871	3282	-1411	quartzite	Pennsylvanian?	3323
Do	Solar No. 7 Schartz	18-16-11W SW NE NE	1860	3263	-1403	quartzite	Pennsylvanian?	3271
Do	Solar No. 8 Schartz	18-16-11W SE SW NE	1873	3356	-1483	granite wash	Pennsylvanian?	3359
Do	Black-Marshall No. 5 Hoffman	19-16-11W SW NE SW	1909	3363	-1454	granite	Pennsylvanian?	3366
Do	Black-Marshall No. 6 Hoffman	19-16-11W SE SW SW	1924	3380	-1456	quartzite	Pennsylvanian?	3405
Do	Black-Marshall No. 1 Redetzke	19-16-11W SE SW SE	1902	3358	-1456	quartzite	Reagan	3360
Do	Brunson No. 2 Redetzke	19-16-11W NE NW NW	1889	3395	-1506	granite wash	Arbuckle	3398
Do	Pam Kar (Brunson) No. 6 Redetzke	19-16-11W SW NE NW	1892	3399	-1507	granite wash	Arbuckle	3400

Wells Drilled Into Precambrian Rock in Kansas

Barton	Sinclair No. 7 Prusa	20-16-11W SE SW SE	1868	3400	-1532	35 ft. quartzite on schist*	Reagan	3515
Do	Sinclair Prairie No. 4 Prusa	20-16-11W CNL SW SE	1843	3350	-1507	gneiss and schist*	Reagan	3583
Do	Sinclair Prairie No. 5 Schmitt	20-16-11W NE NW NW	1883	3425	-1542	granite	Arbuckle	3428
Do	Texon No. 5 Esfeld	20-16-11W SW SE SW	1884	3367	-1483	quartzite	Arbuckle	3378
Do	Sinclair Prairie No. 1 Laudick	21-16-11W SW NW NE	1890	3670	-1780	granite wash	Arbuckle	3709
Do	Sinclair Prairie No. 1 Prusa	21-16-11W NW NW SE	1877	3483	-1606	quartzite and pink granite	Reagan	3986
Do	Gulf, Hinkle and Stanolind No. 8 Willenberg	27-16-11W SW NW NW	1914	3511	-1597	granite	Arbuckle	3513
Do	NCRA No. 2 Esfeld	28-16-11W N2 N2 SE	1910	3405?	-1495?	granite?	Arbuckle	3605
Do	Sinclair Prairie No. 9 "C" Seyfert	28-16-11W NW NE NW	1918	3441	-1523	granite	Reagan	3510
Do	Sohio No. 4 Dolechek	29-16-11W W2 W2 SE	1906	3358	-1452	quartzite	Pennsylvanian? 3373	
Do	Skelly No. 1 Esfeld	30-16-11W E2 SE NE	1900	3316	-1416	quartzite	Pennsylvanian? 3322	
Do	Skelly No. 6 Esfeld	30-16-11W E2 SW NE	1906	3304	-1398	quartzite*	Lansing- Kansas City	3306
Do	Skelly No. 7 Esfeld	30-16-11W S2 NW NE	1904	3287	-1383	quartzite	Lansing- Kansas City	3288
Do	Skelly No. 9 Esfeld	30-16-11W N2 NE NE	1895	3354	-1459	quartzite	Lansing- Kansas City?	3383
Do	Skelly No. 4 "A" Esfeld	30-16-11W CWL SW NE	1910	3286	-1376	quartzite	Lansing- Kansas City	3388

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	BB&M and Johnson & Pigott No. 4 "A" Krier	30-16-11W NE NE SE	1909	3348	-1439	quartzite	Pennsylvanian?	3361
Do	Brunson No. 5 "A" Krier	30-16-11W NW NE SE	1905	3260	-1355	quartzite*	Lansing-Kansas City	3291
Do	Brunson No. 8 "A" Krier	30-16-11W CWL SE SE	1923	3254	-1331	quartzite	Lansing-Kansas City	3264
Do	Brunson No. 3 "C" Krier	30-16-11W SW SW SE	1929	3265	-1336	quartzite	Lansing-Kansas City	3270
Do	Brunson No. 4 "C" Krier	30-16-11W NW SW SE	1930	3293	-1363	quartzite	Lansing-Kansas City	3300
Do	Springer (Johnston) No. 1 Oeser	30-16-11W CEL NE SW	1919	3284	-1365	quartzite*	Lansing-Kansas City	3293
Do	Springer No. 3 N Oeser	30-16-11W C NW NW	1933	3349	-1416	quartzite	Lansing-Kansas City	3350
Do	Springer No. 5 N Oeser	30-16-11W SW SW NW	1924	3297	-1373	quartzite	Lansing-Kansas City	3302
Do	Springer No. 7 N Oeser	30-16-11W C NW	1927	3276	-1349	quartzite	Lansing-Kansas City	3278
Do	Springer No. 8 N Oeser	30-16-11W SW SE NW	1925	3202	-1277	quartzite	Lansing-Kansas City	3205
Do	Springer No. 9 N Oeser	30-16-11W SE SW NW	1927	3265	-1338	quartzite	Lansing-Kansas City	3273
Do	Springer No. 10 N Oeser	30-16-11W E2 E2 NW	1918	3240	-1322	quartzite	Lansing-Kansas City	3245
Do	Springer No. 5 S Oeser	30-16-11W NW NW SW	1924	3294	-1370	quartzite	Lansing-Kansas City	3299

Barton	Springer No. 7 S Oeser	30-16-11W NW SW SW	1913	3260	-1347	quartzite	Lansing- Kansas City	3295
Do	Springer No. 8 S Oeser	30-16-11W SW NW SW	1916	3256	-1340	quartzite	Lansing- Kansas City	3263
Do	Springer No. 9 S Oeser	30-16-11W NW NE SW	1927	3302	-1375	quartzite	Lansing- Kansas City?	3304
Do	Springer No. 10 S Oeser (twin)	30-16-11W NE NW SW	1921	3260	-1339	quartzite	Lansing- Kansas City?	3269
Do	Springer No. 11 S Oeser	30-16-11W SE NW SW	1921	3269	-1348	quartzite	Lansing- Kansas City	3274
Do	Texas No. 2 Janssen	31-16-11W NE NW SE	1897	3372	-1475	quartzite	Pennsylvanian?	3373
Do	Black-Marshall No. 2 Valenta	31-16-11W NE NE NE	1911	3363	-1452	quartzite	Arbuckle?	3370
Do	Black-Marshall No. 3 Valenta	31-16-11W SW NW NE	1911	3153	-1242	quartzite	Lansing- Kansas City	3182
Do	NCRA No. 6 Valenta	31-16-11W SW NE NE	1908	3332	-1424	quartzite?	Reagan	3346
Do	NCRA No. 7 Valenta	31-16-11W NW NE NE	1916	3308	-1392	quartzite?	Reagan	3312
Do	Skelly No. 3 Valenta	31-16-11W NW SW NE	1903	3288	-1385	quartzite	Lansing- Kansas City	3290
Do	Skelly No. 4 Valenta	31-16-11W NW SE NE	1906	3372	-1466	quartzite	Arbuckle	3376
Do	Vickers No. 1 Valenta	31-16-11W CWL NE NE	1909	3278	-1369	quartzite	Lansing- Kansas City	3285
Do	Skelly No. 1 Zorn	31-16-11W C NW NW	1898	3269	-1371	quartzite	Lansing- Kansas City	3309
Do	Skelly No. 2 Zorn	31-16-11W NE SE NW	1924	3273	-1349	quartzite	Lansing- Kansas City	3280

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Skelly No. 3 Zorn	31-16-11W NE NE NW	1926	3252	-1326	quartzite	Lansing-Kansas City	3264
Do	Skelly No. 4 Zorn	31-16-11W SE NE NW	1928	3177	-1249	quartzite	Lansing-Kansas City	3233
Do	Skelly No. 5 Zorn	31-16-11W NW NE NW	1911	3265	-1354	quartzite	Lansing-Kansas City	3328
Do	Skelly No. 6 Zorn	31-16-11W S2 E2 NW	1905	3244	-1339	quartzite	Lansing-Kansas City	3315
Do	Skelly No. 7 Zorn	31-16-11W N2 S2 NW	1898	3182	-1284	quartzite	Lansing-Kansas City	3298
Do	B & R. (Winkler-Koch) No. 5 "C" Hitchman	32-16-11W C NE SE	1879	3514	-1635	granite wash	Reagan?	3553
Do	Derby No. 4 Bernstorff & Janke	33-16-11W SE SE NE	1938	3622	-1684	40 ft. granite wash on quartzite*	Arbuckle	3664
Do	Murfin No. 6 Frees	34-16-11W NW NE NW	1939	3590	-1651	schist	Arbuckle	3869
Do	Phillips No. 2 Schauf	1-16-12W SW NE SE	1865	3455	-1590	pegmatitic granite*	Arbuckle	3470
Do	Sinclair Prairie No. 1 Turgeon	3-16-12W C NE NW	1889	3464?	-1575?	quartzite	Arbuckle	3479
Do	Darby No. 1 Casey	4-16-12W SE SE NW	1879	3393?	-1514?	granite wash	Arbuckle	3400
Do	Palmer No. 3 Polzin	4-16-12W SW NE SE	1847	3396	-1549	quartzite	Reagan	3451
Do	Jackson & Lindsley No. 1 Hilgenberg	5-16-12W NW NE NW	1822	3247	-1425	quartzite	Lansing-Kansas City	3271

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Barton	NCRA No. 3"A" Hilgenberg	5-16-12W NW NW NE	1861	3336	-1475	quartzite	Pennsylvanian? 3338
Do	Phillips No. 1 Hilgenberg	5-16-12W SW NE NW	1860	3271	-1411	quartzite	Lansing- Kansas City 3292
Do	Phillips No. 2 Hilgenberg	5-16-12W E2 E2 NW	1868	3267	-1399	quartzite	Lansing- Kansas City 3317
Do	Phillips No. 3 Hilgenberg	5-16-12W SW SE NW	1858	3262	-1404	quartzite	Lansing- Kansas City 3304
Do	Phillips No. 4 Hilgenberg	5-16-12W NW SE NW	1865	3264	-1399	quartzite	Lansing- Kansas City 3290
Do	NCRA No. 1 Hofmeister	5-16-12W NW SW NW	1829	3252	-1423	quartzite	Lansing- Kansas City 3253
Do	NCRA No. 4 Hofmeister	5-16-12W SW SW NW	1820	3225	-1405	quartzite	Lansing- Kansas City 3266
Do	NCRA No. 5 Hofmeister	5-16-12W SE NW NW	1816	3226	-1410	quartzite	Reagan? 3228
Do	NCRA No. 6 Hofmeister	5-16-12W SE SW NW	1835	3229	-1394	quartzite	Lansing- Kansas City 3273
Do	NCRA No. 7 Hofmeister	5-16-12W NE SW NW	1821	3242	-1421	quartzite	Lansing- Kansas City 3248
Do	Phil-Han No. 1 Standing	5-16-12W SE SW SW	1868	3286	-1418	quartzite	Lansing- Kansas City 3296
Do	Phil-Han No. 2"A" Standing	5-16-12W NW NW SW	1827	3240	-1413	quartzite	Lansing- Kansas City 3258
Do	Phil-Han No. 4"A" Standing	5-16-12W NE SW SW	1856	3276	-1420	quartzite	Lansing- Kansas City 3288
Do	Brack No. 5"A" Standing	5-16-12W NE NW SW	1843	3236	-1393	quartzite	Lansing- Kansas City 3246
Do	Phil-Han No. 1 Depiesse	5-16-12W SW SE SW	1877	3289	-1412	quartzite	Lansing- Kansas City 3314

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Appleman No. 1 Stull	6-16-12W S2 SE SW	1869	3320	-1451	quartzite	Arbuckle	3332
Do	Northern Ordnance No. 1 "P" Bushnell	8-16-12W NW SW NE	1883	3292	-1409	quartzite	Lansing-Kansas City	3293
Do	Franco Central No. 6 Feltes	8-16-12W N2 NE SE	1883	3296	-1413	quartzite	Lansing-Kansas City	3300
Do	Franco Central No. 7 Feltes	8-16-12W SE NE SE	1894	3302	-1408	quartzite	Lansing-Kansas City	3328
Do	Franco Central No. 8 Feltes	8-16-12W N2 N2 SE	1866	3350	-1484	granite	Reagan	3357
Do	Martin & Hearing No. 2 Feltes	8-16-12W SE NW SE	1884	3301	-1417	quartzite	Lansing-Kansas City?	3332
Do	Martin & Hearing No. 5 Feltes	8-16-12W CWL NW SE	1890	3285	-1395	muscovite quartzite*	Lansing-Kansas City	3330
Do	Sinclair Prairie No. 1 Feltes	8-16-12W SE SE SE	1892	3290	-1398	muscovite quartzite*	Marmaton	3380
Do	Texas No. 1 Luerman	8-16-12W NE SE SW	1883	3286	-1403	quartzite	Lansing-Kansas City	3345
Do	Gulf No. 1 Bushnell	8-16-12W S2 SW NE	1881	3284	-1403	quartzite	Pennsylvanian	3320
Do	Darby No. 1 Standing	8-16-12W CSL SE NW	1884	3344	-1460	quartzite	Pennsylvanian	3349
Do	Black-Marshall No. 2 Turgeon	9-16-12W NE SW NW	1880	3322	-1442	granite wash	Pennsylvanian	3334
Do	NCRA No. 3 "A" Turgeon	9-16-12W SE SW NW	1880	3312	-1432	quartzite	Pennsylvanian	3318

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Barton	Sunray and Ash No. 3 Turgeon	9-16-12W NW NW SW	1899	3302	-1403	quartzite	Lansing- Kansas City	3348
Do	Allan No. 1 Christians	10-16-12W SW NE SE	1907	3311	-1404	quartzite	Lansing- Kansas City	3341
Do	Phil-Han No. 1 Schauf	10-16-12W SE SW NW	1864	3296	-1432	quartzite?	Reagan	3312
Do	Orlando No. 1 Schauf	11-16-12W SE SE NW	1907	3503	-1596	schist	Reagan?	3509
Do	Winkler-Koch No. 1 Thill	11-16-12W C NE NE	1917	3472	-1555	granite wash	Arbuckle	3480
Do	Bergman No. 7 Weber	12-16-12W SE SW NW	1897	3429	-1532	quartzite	Arbuckle	3430
Do	Phillips No. 3 Weber	13-16-12W S2 SE NW	1890	3464	-1574	gabbro	Reagan	3740
Do	Bradley No. 1 Dolechek	13-16-12W SE SE NE	1870	3343	-1473	schist and quartzite*	Arbuckle	3345
Do	Skelly No. 1 Weber	13-16-12W S2 NW NW	1897	3413	-1516	granite wash	Reagan	3434
Do	Phillips No. 3 Theisen	14-16-12W S2 SE NW	1916	3426	-1510	gabbro	Reagan	3446
Do	Vickers No. 1 Kerr	15-16-12W NW NW SE	1923	3454	-1531	schist and quartzite	Arbuckle	3494
Do	Transwestern No. 1 Kultgen	16-16-12W CSL SE SW	1920	3352	-1432	quartzite	Pennsylvanian?	3362
Do	Darby No. 4 Kultgen	16-16-12W CSL N2 NW	1907	3407	-1500	quartzite	Reagan	3417
Do	Polk & Fortson No. 2 Kultgen	16-16-12W NW NW SW	1909	3379	-1470	quartzite	Reagan	3404
Do	Franco Central and Gore No. 1 Kultgen	16-16-12W SW NE SW	1915	3373	-1458	quartzite	Reagan	3383

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Black-Marshall No. 1 Kulgen	17-16-12W SW SE SE	1910	3355	-1445	quartzite	Reagan	3375
Do	Franco Central No. 3 "A" Kultgen	17-16-12W NW NE NE	1891	3272	-1381	quartzite	Lansing-Kansas City	3278
Do	Franco Central No. 1 Lambert	17-16-12W W2 SW NE	1895	3307	-1412	quartzite	Lansing-Kansas City	3356
Do	Franco Central No. 2 Lambert	17-16-12W SE NW NE	1903	3306	-1403	quartzite	Lansing-Kansas City	3321
Do	Gulf No. 2 Lambert	17-16-12W NE SW NE	1898	3325	-1427	quartzite	Pennsylvanian?	3332
Do	Darby No. 1 Kramer	17-16-12W C NE NW	1894	3310	-1416	quartzite	Pennsylvanian?	3348
Do	Darrah No. 2 Norton	21-16-12W SW NW SW	1923	3476	-1553	quartzite	Arbuckle	3487
Do	Bay No. 1 Stoskopf	21-16-12W CSL NE NE	1916	3420	-1504	quartzite	Arbuckle	3432
Do	Darrah (Keyes) No. 1 Stoskopf	21-16-12W NW NW NE	1919	3340	-1421	quartzite	Pennsylvanian?	3363
Do	Darby No. 1 Stoskopf	21-16-12W CNL NW NW	1925	3353	-1428	quartzite	Pennsylvanian?	3369
Do	Hartman No. 1 Riemann	23-16-12W NW NE SW	1929	3355	-1426	weathered quartzite	Lansing-Kansas City	3363
Do	Hartman No. 5 Riemann	23-16-12W SE SW SW	1924	3349	-1425	2 ft. reworked quartzite on quartzite	Lansing-Kansas City	3354

Barton	Gulf No. 1 Wells-Hofmeister	23-16-12W N2 NE SE	1919	3332	-1413	syenite*	Arbuckle	3341
Do	Gulf No. 2 Wells-Hofmeister	23-16-12W N2 NW SE	1929	3351	-1422	syenite*	Pennsylvanian?	3375
Do	Gulf No. 3 Wells-Hofmeister	23-16-12W SE NE SE	1912	3348	-1436	quartzite	Reagan	3350
Do	Shell No. 1 Riemann	23-16-12W CNL NE NW	1922	3385	-1463	schist	Arbuckle?	3461
Do	Shell No. 3 Riemann	23-16-12W CNL SE NW	1927	3454	-1527	metamorphics?	Pennsylvanian	3460
Do	Black-Marshall No. 1 Dolechek	24-16-12W C SE SW	1905	3358	-1453	schist	Reagan	3368
Do	Black-Marshall No. 2 Dolechek Estate	24-16-12W C SW SW	1914	3372	-1458	schist	Arbuckle	3400
Do	Gulf No. 1 Dolechek	24-16-12W CNL NE SW	1901	3380	-1479	schistose granulite and schist*	Pennsylvanian?	3400
Do	Black-Marshall No. 1 Dolechek	24-16-12W CNL NW NE	1883	3386	-1503	quartzite	Pennsylvanian?	3390
Do	NCRA No. 11 Dolechek	24-16-12W NW SW NE	1883	3413	-1530	chlorite schist*	Pennsylvanian	3491
Do	NCRA No. 13 Dolechek	24-16-12W SW NW SE	1896	3370	-1474	quartzite	Pennsylvanian	3372
Do	Gulf No. 2 Hofmeister	24-16-12W N2 SW NW	1910	3322	-1412	syenite*	Pennsylvanian	3340
Do	Gulf No. 3 Case	25-16-12W NE SW NW	1925	3307	-1382	quartzite	Lansing- Kansas City	3311
Do	Black-Marshall No. 2 Riemann	25-16-12W NE SE NE	1933	3342	-1409	quartz-mica schist	Pennsylvanian	3350
Do	Brunson No. 6 Oesser	25-16-12W CSL NE SW	1929	3288	-1359	granite wash	Lansing- Kansas City	3298

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Flournoy & Haston No. 1 Oeser	25-16-12W NE SE SW	1984	3318	-1384	quartzite	Lansing-Kansas City	3338
Do	Lauck & Moncrief No. 1 Oeser	25-16-12W SE SE SE	1903	3270	-1367	quartzite	Lansing-Kansas City	3275
Do	Lauck & Moncrief No. 2 Oeser	25-16-12W NE SW SE	1916	3300	-1384	metamorphics	Pennsylvanian? 3393	
Do	Lauck & Moncrief No. 3 Oeser	25-16-12W NE NE SE	1928	3297	-1369	quartzite	Pennsylvanian? 3306	
Do	Lauck & Moncrief No. 4 Oeser	25-16-12W NE NW SE	1930	3295	-1365	quartzite	Pennsylvanian? 3330	
Do	Lauck & Moncrief No. 5 Oeser	25-16-12W SW NW SE	1923	3287	-1364	quartzite	Lansing-Kansas City	3300
Do	Lauck No. 6 Oeser	25-16-12W NW NW SE	1927	3278	-1351	quartzite	Lansing-Kansas City	3279
Do	Lauck No. 7 Oeser	25-16-12W SE NE SE	1922	3275	-1353	quartzite	Lansing-Kansas City	3276
Do	Lauck No. 8 Oeser	25-16-12W NE SE SE	1912	3308	-1396	quartzite	Pennsylvanian? 3314	
Do	Lauck No. 9 Oeser	25-16-12W SW NE SE	1917	3283	-1366	quartzite	Lansing-Kansas City	3287
Do	Marshall No. 2"B" Oeser	25-16-12W NE SE SW	1932	3317	-1385	quartzite	Pennsylvanian? 3337	
Do	Marshall No. 3"B" Oeser	25-16-12W NE NW SW	1933	3291	-1358	quartzite	Lansing-Kansas City	3292
Do	Marshall No. 4"B" Oeser	25-16-12W NE SW SW	1936	3393	-1457	quartzite	Arbuckle	3394

Wells Drilled Into Precambrian Rock in Kansas

Barton	Marshall No. 5 "B" Oeser	25-16-12W NW NE SW	1932	3288	-1356	quartzite	Lansing- Kansas City	3293
Do	Delta No. 1 Riemann	25-16-12W SE SE NW	1925	3293	-1368	quartzite	Lansing- Kansas City	3296
Do	Black-Marshall No. 6 Riemann	25-16-12W SW SE NE	1926	3316	-1390	quartzite?	Lansing- Kansas City	3330
Do	Black-Marshall No. 9 Riemann	25-16-12W SE SE NE	1933	3325	-1392	quartzite	Reagan	3334
Do	Gulf No. 4 Remmers	25-16-12W NE SE NW	1926	3316	-1390	quartzite	Lansing- Kansas City	3337
Do	Black-Marshall No. 1 Dolechek	26-16-12W NE NE NE	1924	3354	-1430	biotite-sericite schist**	Arbuckle	3400
Do	El Dorado No. 1 Dolechek	26-16-12W SE SE NE	1935	3332	-1397	granite wash	Reagan	3375
Do	Harms & Knight No. 1 Dolechek	26-16-12W NE NW NE	1934	3351	-1417	granite wash	Pennsylvanian?	3413
Do	Gulf, Shell, and Wells No. 1 Feltes	26-16-12W NW NW SE	1923	3588	-1665	quartzite	Arbuckle	3590
Do	Vickers No. 1 "B" Dolechek	26-16-12W NE NW NW	1926	3412	-1486	quartzite	Pennsylvanian?	3413
Do	K & E and Bell No. 1 "B" Rude	1-16-13W NW NE SE	1906	3350	-1444	quartzite	Pennsylvanian?	3359
Do	Petroleum, Inc. No. 1 Rude	1-16-13W NE SW NE	1900	3312	-1412	quartzite	Pennsylvanian?	3333
Do	Petroleum, Inc. No. 2 Rude	1-16-13W SW NE NE	1894	3385	-1491	quartzite	Pennsylvanian?	3390
Do	Petroleum, Inc. No. 3 Rude	1-16-13W NW SW NE	1901	3311	-1410	quartzite	Pennsylvanian?	3325
Do	Petroleum, Inc. No. 4 Rude	1-16-13W SW SE NE	1902	3337	-1435	quartzite	Pennsylvanian?	3348

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Elevation			Rock unit on basement	Total depth, feet	
			Surface elevation, feet	Depth to Precambrian, feet	of Precambrian, feet			Precambrian rock type
Barton	Shell No. 1 "B" Bitter	5-16-13W SE NW SW	1886	3556	-1670	granite*	Reagan	3602
Do	Shell No. 2 "B" Bitter	5-16-13W NW NW SW	1880	3393	-1513	granite wash	Arbuckle	3621
Do	Cities Service No. 5 "B" Hoffman	7-16-13W E2 SE NW	1911	3523	-1612	granite wash	Arbuckle	3549
Do	Shell No. 8 "A" Hoffman	7-16-13W SE NW SW	1915	3349	-1434	quartzite	Arbuckle	3365
Do	Shell No. 9 "A" Hoffman	7-16-13W SW SW SW	1908	3300	-1392	quartzite	Lansing-Kansas City	3310
Do	Shell No. 10 "A" Hoffman	7-16-13W SW NW SW	1916	3325	-1409	quartzite	Lansing-Kansas City	3342
Do	Johnson No. 1 "W" Bitter	8-16-13W C SW SW	1926	3580	-1654	granite	Reagan	3596
Do	Herndon (Empire) No. 2 Demel	9-16-13W CEL SW	1925	3664	-1739	8 ft. granite wash on granite	Arbuckle	3676
Do	Cities Service No. 1 Leurman	18-16-13W NW NW SE	1940	3353	-1413	quartzite	Pennsylvanian?	3500
Do	Shell No. 4 "A" Ehrlich	18-16-13W SE SE NW	1931	3324	-1393	graphitic schist	Lansing-Kansas City	3347
Do	Sharon No. 2 Luerman	18-16-13W CNL SE SE	1948	3366	-1418	quartzite	Lansing-Kansas City	3380
Do	Shell No. 4 Luerman	18-16-13W SW NE SW	1933	3334	-1401	quartzite	Lansing-Kansas City?	3351
Do	Skelly No. 1 Susank	19-16-13W NW NW NE	1932	3349	-1417	quartzite	Lansing-Kansas City	3352

Wells Drilled Into Precambrian Rock in Kansas

Barton	Skelly No. 3 Susank	19-16-13W SE SW NE	1951	3515	-1564	quartzite and schist	Reagan	3548
Do	Skelly No. 6 Susank	19-16-13W SE NW NE	1947	3365	-1418	quartzite	Lansing- Kansas City	3372
Do	Weaver No. 2 Redetzke	20-16-13W NW NW SE	1954	3365	-1411	quartzite	Pennsylvanian	3415
Do	Weaver No. 4 Prusa	20-16-13W SW NW NE	1959	3400	-1441	quartzite	Lansing- Kansas City	3401
Do	Williams & Wilson No. 1 Prusa	20-16-13W SW SW NE	1954	3353	-1399	quartzite	Lansing- Kansas City	3360
Do	Continental No. 5 Stoskopf	20-16-13W SE NE NW	1943	3375	-1432	quartzite	Lansing- Kansas City	3407
Do	Weaver No. 3 Prusa	20-16-13W NE SW NE	1968	3397	-1429	granite	Lansing- Kansas City	3410
Do	Continental No. 2 Stoskopf	28-16-13W NW NW SW	1934	3358	-1424	quartzite	Pennsylvanian?	3370
Do	Continental No. 1 Harrington	29-16-13W SE NE SE	1940	3371	-1431	quartzite	Lansing- Kansas City	3402
Do	Mabee No. 2 Stoskopf	29-16-13W SE SW NW	1926	3378	-1452	granite wash	Pennsylvanian?	3398
Do	Continental No. 4 Schreiber	32-16-13W NW NW SE	1908	3460	-1552	quartzite	Arbuckle	3590
Do	Continental No. 5 Schreiber	32-16-13W NW SW SE	1897	3305	-1408	quartzite	Lansing- Kansas City	3327
Do	Continental No. 7 Schreiber	32-16-13W SE NW SE	1899	3305	-1406	quartzite	Lansing- Kansas City	3450
Do	Continental No. 8 Schreiber	32-16-13W SE NE SW	1918	3321	-1403	quartzite	Lansing- Kansas City	3330
Do	Continental No. 1 Susank	32-16-13W SE SE SW	1917	3347	-1430	quartzite	Lansing- Kansas City	3382

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Continental No. 2 Susank	32-16-13W NE SE SW	1917	3327	-1410	quartzite	Lansing-Kansas City	3330
Do	Herndon No. 2 Schreiber	32-16-13W C NE NE	1914	3590	-1676	quartzite?	Reagan	3720
Do	Herndon No. 5 Schreiber	32-16-13W SE SW NE	1914	3370	-1456	quartzite	Lansing-Kansas City	3378
Do	Kaiser-Francis (Armer & Vernon) No. 4 Marquis-Johnson	32-16-13W S2 NE NW	1924	3594	-1670	granite wash	Reagan	3595
Do	Continental No. 5 "A" Ainsworth	33-16-13W NW SE NE	1944	3660	-1716	granite wash	Reagan	3720
Do	Continental No. 7 "A" Ainsworth	33-16-13W SW NE NE	1949	3660	-1711	80 ft. pink clastics on quartzite	Reagan	3744
Do	Continental No. 8 "A" Ainsworth	33-16-13W NE NE NE	1933	3726?	-1793?	metamorphics?	Reagan?	3742
Do	Eason No. 2 Ainsworth	33-16-13W NW SE SE	1945	3680	-1735	52 ft. granite wash on granite	Reagan	3740
Do	Stanolind No. 1 Riemann	34-16-13W SW SW NW	1914	3625	-1711	granite	Arbuckle	3762
Do	Stanolind No. 5 Riemann	34-16-13W SE SW NW	1933	3650	-1717	granite	Arbuckle	3761
Do	Alpine No. 1 Deal	35-16-13W SW NW SE	1902	3328	-1426	quartzite	Lansing-Kansas City	3335
Do	Skelly No. 1 Gage	35-16-13W SE SE SW	1873	3291	-1418	quartzite	Lansing-Kansas City	3383

Wells Drilled Into Precambrian Rock in Kansas

Barton	NCRA (Black-Marshall) No. 1 Zugg	35-16-13W NW SW NW	1876	3566	-1690	granite wash	Arbuckle	3594
Do	Cities Service No. 7"A" Hoffman	1-16-14W NW SE NE	1875	3579	-1704	granite wash	Reagan	3599
Do	Shell No. 1"B" Schneider	1-16-14W NE NE NW	1844	3575	-1731	8 ft. granite wash on granite	Reagan	3586
Do	Shell No. 2"B" Schneider	1-16-14W NW NE NW	1857	3565	-1708	granite wash	Reagan	3607
Do	Shell No. 9"B" Schneider	1-16-14W SW NW NW	1865	3590	-1725	granite	Reagan	3600
Do	Shell No. 10"B" Schneider	1-16-14W NW SE NW	1847	3580	-1733	granite wash	Reagan	3618
Do	Shell No. 4"C" Hoffman	1-16-14W CWL E2 SE	1891	3576	-1685	granite wash	Arbuckle	3667
Do	Shell No. 2"B" Hoffman	12-16-14W NE NE NE	1909	3600	-1691	quartzite	Arbuckle	3632
Do	Shell No. 6"B" Hoffman	12-16-14W NE NE NE	1909	3598	-1689	quartzite	Reagan	3602
Do	Shell No. 2"A" Peterman	13-16-14W NE NE SE	1913	3684	-1771	granite wash	Arbuckle	3725
Do	Bridgeport No. 4"A" Sausen	13-16-14W NE SW NE	1893	3695	-1802	granite	Arbuckle	3707
Do	Derby No. 5 Siemsen	24-16-14W SE NW NE	1927	3576	-1649	quartzite	Arbuckle	3606
Do	Helmerich & Payne No. 1 Davis	32-16-14W NW NW SW	1982	3690	-1708	pink weathered granite	Arbuckle	3719
Do	Midwest No. 34 Karst	11-16-15W SW SE SW	1977	3711	-1734	granite*	Reagan	3730
Rush	National Associated No. 1"A" Shade	5-16-16W SE SE NW	1892	3640	-1748	quartzite	Reagan	3657

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rush	Hilton No. 1 Hartman	17-16-17W NW NW NW	2003	3507	-1504	quartzite	Pennsylvanian?	3535
Do	Adair-Morton and Hershey No. 1 Schlitter	18-16-17W SW SE NE	2000	3550	-1550	quartzite	Reagan	3553
Do	Falcon-Seaboard No. 1 Urban	19-16-17W SE NE SE	2025	3481	-1456	quartzite	Lansing-Kansas City	3524
Do	Leben and Aurora No. 1 Lippert	29-16-17W NE NE SW	2029	3587	-1558	quartzite	Reagan	3607
Do	Prairie and Gypsy No. 1 Leiker	5-16-18W NW SW SW	2038	3741	-1703	granite	Reagan	3758
Do	Phillips No. 1 Legleiter	10-16-18W NE NW SE	2005	3722	-1717	granite wash	Reagan	3760
Do	Vickers No. 1 Herrman	12-16-18W SW SW NE	1954	3632	-1678	granite wash	Reagan	3633
Do	Imperial No. 2 "B" Herrman	13-16-18W SW SW SE	2029	3660	-1631	quartzite	Arbuckle	3675
Do	Woodman-Iannitti and Oyster No. 1 Depperschmidt	16-16-18W SE SE SE	1963	3519	-1556	granite wash	Pennsylvanian?	3544
Do	Bay, Strain and Buffalo No. 1 Dechant	20-16-18W SE SE SE	1999	3573	-1574	granite	Reagan	3576
Do	Vickers and B & R No. 1 Schuckman	20-16-18W NW NW NW	2019	3597	-1578	quartzite	Reagan	3620
Do	Murphy No. 1 Roth	21-16-18W NW NW SW	2001	3585	-1584	granite	Marmaton	3608
Do	Lee Phillips No. 1 Herrman	23-16-18W NW NW SW	2052	3598	-1546	13 ft. granite wash on granite	Marmaton	3642

Rush	Davis and Child No. 1 Honderick	25-16-18W C NW SW	2058	3593	-1535	granite	Marmaton	3600
Do	B & R No. 1 Legleiter	30-16-18W NE NE SE	2009	3616	-1607	biotite granite- gneiss interbanded with quartzite*	Marmaton?	3642
Do	Heathman-Honaker No. 1 Weitzell	1-16-20W NE SW NW	2109	3736	-1627	quartzite	Marmaton	3742
Do	Darby & Bothwell No. 2 "A" Weitzell	1-16-20W NE NW SW	2102	3718	-1616	quartzite	Marmaton	3750
Do	Darby & Bothwell No. 1 Weitzell	1-16-20W SW SW NW	2114	3678	-1564	quartzite	Marmaton	3695
Do	Phillips No. 1 Doerr	2-16-20W NE NE SE	2110	3699	-1589	quartzite	Pennsylvanian	3719
Do	Phillips No. 2 Doerr	2-16-20W NE SE NE	2121	3697	-1576	quartzite on granite gneiss*	Pennsylvanian	3790
Do	Messman-Rinehart No. 1 Bullock	11-16-20W SE SE NW	2130	3943	-1813	granite wash	Reagan	3945
McPherson	Westgate-Greenland No. 2 Robinson	31-17-1W NW SW SE	1352	3803	-2451	weathered granite	Reagan	3915
Do	Auto-Ordnance No. 1 Melander	9-17-3W C SW NW	1332	3985	-2653	metamorphics	Reagan	4092
Ellsworth	NCRA (Nelson) No. 4 Janssen	21-17-8W SE SW NE	1786	3800?	-2014?	granite wash	Reagan?	3995
Do	Continental No. 1 "A" Ploog	27-17-8W SE SE SW	1777	3800?	-2023?	granite wash?	Reagan	3990
Do	Continental No. 1 Buehler	33-17-8W SE SE SE	1772	3723	-1951	arkose and quartzite	Reagan	4277
Do	Davis No. 3 Edwards	34-17-8W SE SW SE	1785	3857	-2072	weathered granite	Reagan	3880
Do	Empire No. 10 Rolfs	14-17-9W SW NE NE	1791	3726	-1935	granite wash	Reagan	4069

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Ellsworth	Empire No. 12 Roifs	14-17-9W NW NE NE	1796	3740	-1944	red clastics	Reagan	4045
Do	Empire No. 13 Roifs	14-17-9W SE NW NE	1795	3725	-1930	arkose on quartzite	Reagan?	4050
Do	Bradley No. 8 Mahoney	14-17-9W SE SE SE	1787	3735	-1948	quartzite?	Reagan	3876
Do	Gulf No. 7 Mehl	18-17-9W C S2 N2	1795	3792	-1997	quartzite	Arbuckle	3796
Do	Sohio No. 3 Wesseler	19-17-9W SE NW NW	1794	3816	-2022	granite	Arbuckle	3817
Do	Gulf No. 5 Schroeder	20-17-9W SE SE SW	1770	3803	-2033	quartzite	Reagan	3808
Do	Phillips (Carter) No. 2 "A" Melchert	23-17-9W NE NW SE	1786	3776	-1990	quartzite and arkose	Reagan	4304
Do	Texas No. 4 Dees	23-17-9W SE SE NW	1779	3785	-2006	weathered granite	Arbuckle	4100
Do	Cities Service No. 2 "C" Mollhagen	29-17-9W NW NW SE	1769	3753	-1984	granite wash	Arbuckle	3824
Do	NCRA (Pryor & Lockhart) No. 4 Stratmann	1-17-10W CEL NW NW	1820	3830	-2010	25 ft. granite wash on granite	Reagan	3871
Do	B & R No. 2 Siemsen	3-17-10W S2 NE SE	1791	3716	-1925	granite wash	Arbuckle	3813
Do	B & R No. 3 Siemsen	3-17-10W SE NE SE	1790	3776	-1986	granite	Arbuckle	3778
Do	Magnolia No. 1 Andrea	7-17-10W NW NW SW	1926	3389	-1463	quartzite*	Arbuckle	3394

Wells Drilled Into Precambrian Rock in Kansas

Ellsworth	Magnolia No. 6 Andrea	7-17-10W NW SW SW	1897	3365	-1468	quartzite	Arbuckle	3366
Do	Slick, Pryor Lockhart, and Darby, No. 1 Breford	7-17-10W SW SW NW	1927	3399	-1472	quartzite	Reagan	3407
Do	El Dorado No. 1 Myers	18-17-10W NW NW NW	1869	3245	-1376	quartzite	Lansing- Kansas City	3259
Do	Hinkle No. 1 "A" Myers	18-17-10W SE NW NW	1860	3312	-1452	quartzite	Pennsylvanian?	3316
Do	Transwestern No. 1 Myers	18-17-10W SW NW NW	1878	3303	-1425	quartzite	Pennsylvanian?	3306
Do	Elwell No. 9 Janssen	29-17-10W NW NW NW	1808	3514	-1706	granite wash	Arbuckle	3565
Do	Phillips No. 3 Patzner	30-17-10W NW SW SW	1820	3487	-1667	red and gray schist	Reagan	3555
Do	Gulf No. 8 Grizzell	31-17-10W SW SE NW	1801	3362	-1561	schist	Arbuckle	3491
Do	Atlantic No. 6 "B" Gemeinhardt	31-17-10W NW SE SW	1798	3390	-1592	schist	Reagan	3714
Do	Skelly No. 7 Moran	31-17-10W S2 NE SE	1789	3377	-1588	schist	Arbuckle	3564
Do	Transwestern No. 1 Stumps	33-17-10W SW SW SW	1775	3512	-1737	18 ft. quartzite on schist	Reagan	3538
Barton	Texas No. 3 "A" Burmeister	2-17-11W CEL NE SW	1917	3545	-1628	quartzite	Arbuckle	3558
Do	Texas No. 9 Disque	3-17-11W NW SW SW	1873	3548	-1675	granite	Arbuckle	3637
Do	Magnolia No. 3 Riemann	4-17-11W CSL SW SE	1860	3530	-1670	granite	Reagan	3572
Do	NCRA No. 3 Grosshardt	4-17-11W N2 NW NW	1863	3497	-1634	granite	Arbuckle	3514

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	NCRA No. 9 Grosshardt	4-17-11W N2 S2 NW	1857	3501	-1644	granite?	Arbuckle	3534
Do	Phillips No. 1 Krautwurst	11-17-11W SE SW SW	1885	3595	-1710	13 ft. granite wash on granite	Reagan	3616
Do	Cities Service No. 4 "A" Hogan	11-17-11W CEL NE NW	1939	3520	-1581	quartzite, calcareous(?) cement*	Arbuckle	3549
Do	El Dorado No. 6 "B" Ehler	12-17-11W SE SE SW	1890	3536	-1646	granite wash	Reagan	3578
Do	Champlin No. 2 "B" Burmeister	13-17-11W NE SE SW	1870	3560	-1690	phyllite, schist, quartzite, and gneiss*	Reagan	3635
Do	Champlin No. 2 "A" Burmeister	13-17-11W CWL NE NW	1892	3608	-1716	granite	Reagan	3653
Do	Texas No. 4 Peterman	13-17-11W N2 SE SE	1854	3532	-1678	garnetiferous schist*	Arbuckle	3723
Do	Gulf No. 5 Peterman	15-17-11W SW NW SE	1836	3574	-1738	granite	Arbuckle	3584
Do	Gulf No. 8 Peterman	15-17-11W SE NW SE	1833	3573	-1740	granite	Reagan	3589
Do	Shell and Vickers No. 1 "B" Soeken	21-17-11W S2 N2 NE	1808	3544	-1736	granite?	Reagan	3576
Do	Shell No. 2 "B" Soeken	21-17-11W NE NW NE	1808	3542	-1734	granite	Reagan	3559
Do	Transwestern No. 3 Peterman	24-17-11W N2 SE NE	1849	3553	-1704	15 ft. schist on granite	Reagan	3568

Wells Drilled Into Precambrian Rock in Kansas

Barton	Francis No. 5 McLean	25-17-11W E2 NW SE	1832	3457	-1625	schist	Reagan	3540
Do	CRA (National Refining) No. 5 McLean	25-17-11W NW SE SE	1829	3514	-1685	154 ft. granite wash on granite	Reagan	3880
Do	National Refining No. 6 McLean	25-17-11W NE SE SE	1821	3488	-1667	schist	Reagan	3666
Do	Atlantic No. 10 Patzner	36-17-11W E2 W2 SE	1815	3420	-1605	chiasfolite? schist**	Reagan	3589
Do	Skelly No. 1 Bloomer	36-17-11W NW SW NE	1821	3400	-1579	schist?	Reagan	3568
Do	Atlantic (Spencer & Yarnell) No. 2 Gemeinhardt	36-17-11W NW NE SW	1815	3536	-1721	schist?	Reagan	3610
Do	Atlantic (Spencer & Yarnell) No. 3 Gemeinhardt	36-17-11W SE SE SW	1811	3505	-1694	schist?	Reagan	3518
Do	Texas No. 5 Bloomer	36-17-11W SW NE NE	1809	3403	-1594	gray schist	Reagan	3744
Do	Aladdin & Hannum No. 3 Gage	2-17-13W E2 NW NW	1875	3316	-1441	quartzite	Lansing- Kansas City	3333
Do	Alpine No. 1 Gage	2-17-13W NW NE NW	1861	3270	-1409	quartzite	Lansing- Kansas City	3281
Do	Aladdin & Hannum No. 9"B" Lowry	2-17-13W NE NE SW	1856	3415	-1559	quartzite	Reagan	3433
Do	Sohio and Black-Marshall No. 2 Horst	2-17-13W SW SE SE	1882	3608	-1726	granite wash	Reagan	3667
Do	Continental No. 2 Ford	10-17-13W NE NE NW	1920	3593	-1673	muscovite quartzite*	Reagan	3747
Do	Harms-Burt No. 2 Stoskopf	28-17-13W W2 E2 NW	1918	3790	-1872	granite	Arbuckle	3791
Do	Bradley No. 1 Janke	7-17-14W NE NE SW	1906	3593	-1687	granite wash on granite	Arbuckle	3729

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Republic No. 6 Eveleigh	15-17-14W SW NW SW	1885	3714	-1829	quartzite	Arbuckle?	3971
Do	Phillips No. 4 Karst	21-17-14W SW SW SE	1869	3630	-1761	quartzite, gneiss and mica schist	Reagan	3748
Do	Bridgeport No. 6 A. Meitner	28-17-14W W2 NE NW	1858	3611	-1753	11 ft. quartzite on 53 ft. granite on 23 ft. basic rock	Reagan	3698
Do	Phillips No. 1 Boyle	25-17-15W C SE	1979	3950	-1971	granite	Reagan	4003
Rush	Corbett No. 1 Schmidt	10-17-16W C SW SE	2001	3683	-1682	quartzite	Reagan	3732
Do	Tennessee No. 1 Brack	14-17-16W NW SW NW	2013	3706	-1693	granite wash	Arbuckle	3715
Do	Brunson No. 1 Schriener	18-17-16W SW SW SE	2034	3540	-1506	granite wash	Lansing-Kansas City	3591
Do	McPherson No. 1 Brack	24-17-16W C NW	2048	3830	-1782	75 ft. granite wash on granite?	Reagan	3980
Do	Westgate-Greenland No. 1 Hartung	29-17-16W SW SW NW	2053	3559	-1506	granite wash	Pennsylvanian?	3586
Do	Morrison No. 1 Rothe	31-17-16W SE NE NW	2014	3514	-1500	50 ft. granite wash on granite	Pennsylvanian?	3564
Do	Bradley No. 1 Schlegel	34-17-16W CEL SE NE	2005	3505	-1500	red granite	Pennsylvanian?	3661
Do	Lebsack No. 1 Juno	35-17-16W NE NW NW	2022	3665	-1643	granite wash	Reagan	3667

Rush	B & R No. 1 Brack	4-17-17W SE SE NW	2060	3588	-1528	granite	Lansing- Kansas City	3594
Do	Palmer No. 1 Lippert	5-17-17W SW SW NW	2091	3645	-1554	19 ft. granite wash on granite	Lansing- Kansas City	3666
Do	Imperial No. 1 Ernie	14-17-17W SW NW NE	2048	3547	-1499	63 ft. granite wash on granite	Pennsylvanian? 3617	
Do	Morrison No. 1 Thielenhau	14-17-17W SW NW SE	2043	3521	-1478	25 ft. granite wash on granite	Pennsylvanian? 3617	
Do	Morrison No. 1 Bieber	15-17-17W NW SE NE	2046	3540	-1494	18 ft. granite wash on granite	Lansing- Kansas City	3580
Do	Lario No. 1 Schwindt	15-17-17W N2 NE SW	2079	3570	-1491	granite	Reagan?	3579
Do	Barnsdall No. 1 Brack	21-17-17W SE SE SE	2069	3590	-1521	10 ft. granite wash on granite	Pennsylvanian? 3602	
Do	Morrison No. 1 Foes	22-17-17W SW NE NE	2070	3575	-1505	6 ft. granite wash on granite	Lansing- Kansas City	3608
Do	Danciger No. 1 Schwindt	22-17-17W SW SW SW	2074	3580	-1506	granite wash	Pennsylvanian? 3850	
Do	Morrison No. 1 Kleweno	23-17-17W SW NW SE	2018	3500	-1482	3 ft. granite wash on granite	Lansing- Kansas City	3507
Do	Morrison No. 1 Reichel	23-17-17W SW NW NE	2026	3465	-1439	granite	Lansing- Kansas City	3476
Do	Lario No. 1 Gillig	24-17-17W NE SE NW	2050	3518	-1468	granite	Lansing- Kansas City	3558
Do	Morrison No. 1 Gillig	24-17-17W SW SE NW	2060	3531	-1471	granite wash	Lansing- Kansas City	3554
Do	Danciger No. 1 Neve	26-17-17W NW NW NW	2063	3562	-1499	gneiss	Pennsylvanian? 3607	
Do	Wilcox No. 1 Schwartzkopf	27-17-17W NE NW SW	2067	3700	-1633	7 ft. granite wash on granite	Lansing- Kansas City	3730

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rush	Twin No. 1 Appl	29-17-17W SW SW NE	2034	3625	-1591	granite	Pennsylvanian	3660
Do	Honaker-Davis and E. J. Carter, No. 1 Nies	31-17-17W NW NW SW	2056	3708	-1652	27 ft. granite wash on granite	Pennsylvanian?	3737
Do	Imperial No. 1 Bieber	32-17-17W NW NW NE	2019	3585	-1566	granite wash	Pennsylvanian?	3615
Do	Imperial No. 1 Miller	32-17-17W SW SW NW	2021	3605	-1584	30 ft. granite wash on granite	Pennsylvanian	3636
Do	Darby-Bothwell No. 1 Ficken	33-17-17W NE NE SE	2030	3589	-1559	5 ft. granite wash on granite	Reagan	3595
Do	Aylward No. 1 "B" Lohrey	34-17-17W SE SE NE	2013	3569	-1556	2 ft. granite wash on granite	Pennsylvanian	3582
Do	Sunray Mid-Continent No. 1 Oberny	34-17-17W NW SE SE	2011	3577	-1566	5 ft. granite wash on granite	Pennsylvanian	3599
Do	Aylward No. 1 Lohrey	35-17-17W SW SW SW	2010	3598	-1588	6 ft. granite wash on granite	Marmaton	3605
Do	Morrison No. 1 Witt	35-17-17W SW NW SE	2009	3545	-1536	granite	Pennsylvanian	3558
Do	El Dorado No. 1 Stang	36-17-17W SE SE NW	2040	3550	-1510	quartzite and schist	Pennsylvanian	3579
Do	Keith No. 1 Scheiderman	3-17-18W SW SW NE	2064	3633	-1569	granite	Lansing-Kansas City	3705
Do	Kaiser-Francis No. 1 "A" Boomhower	5-17-18W SW SW SW	2059	3700	-1641	19 ft. granite wash on granite	Pennsylvanian	3721
Do	Kaiser-Francis No. 1 Ransom	14-17-18W SE SE NE	2094	3681	-1587	43 ft. granite wash on granite	Pennsylvanian	3726

Rush	Honaker No. 1 Becker	20-17-18W NW NW SW	2107	3808	-1701	granite	Reagan	3813
Do	Boyle-Grossman No. 1 Yost	23-17-18W C SW SW	2086	3702	-1616	25 ft. granite wash on schist	Pennsylvanian	3759
Do	Honaker-Davis and E. J. Carter, No. 1 Mullen	27-17-18W SW SW SE	2067	3750	-1683	20 ft. granite wash on granite	Pennsylvanian	3777
Do	Lario-Phillips No. 1 Benbow	12-17-19W NW NE NE	2094	3772	-1678	18 ft. granite wash on granite	Marmaton	3818
McPherson	Barbara No. 5 Tector	9-18-1W W2 SE NE	1390	3810	-2420	weathered granite	Arbuckle	3910
Do	Phillips No. 3 Tector	10-18-1W SW NE NW	1372	3870	-2498	97 ft. granite wash on granite	Arbuckle	3967
Rice	Continental No. 1 "B" Hamilton	19-18-7W SW SW NE	1707	3840	-2133	pink quartzite	Reagan	4180
Do	Continental No. 1 "A" Ainsworth	30-18-7W SW SW NW	1713	3705	-1992	arkose	Reagan	3925
Do	Continental No. 1 Poland	30-18-7W SW SW SE	1687	3740?	-2053?	granite?	Reagan	3994
Do	Sinclair Prairie No. 2 Bolton	31-18-7W SE SW SW	1752	3877	-2125	8 ft. granite wash on granite	Reagan	3885
Do	Sinclair Prairie No. 6 Bolton	31-18-7W SW NW SW	1731	3840	-2109	granite	Reagan	3910
Do	Raymond No. 9 Dobrinski	3-18-8W NE NW SE	1787	3893	-2106	granite wash	Reagan	3921
Do	Dozier No. 3 Kalina	3-18-8W SW SE SW	1774	3921	-2147	granite wash	Reagan	4000
Do	Virginia No. 3 Godshalk	11-18-8W SE NW SW	1776	3948	-2172	granite	Reagan	3950
Do	Continental No. 1 Fuller	12-18-8W SE SE NW	1733	3834	-2101	granite wash	Reagan	3965

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rice	Continental No. 3 "A" Lewis	13-18-8W NE SW NW	1745	3813	-2068	granite wash	Reagan	4304
Do	Continental No. 2 Nickel	13-18-8W NW NW SW	1722	3800	-2078	granite wash	Arbuckle	4258
Do	Raymond No. 4 Lewis	14-18-8W SE SE NE	1726	3792	-2066	gneiss	Arbuckle	4281
Do	Williams No. 4 Skiles	14-18-8W SW SW NE	1753	3615	-1862	granite wash	Reagan	3825
Do	Continental No. 3 Ainsworth	24-18-8W SW SE SE	1697	3645	-1948	granite wash	Reagan	3940
Do	Continental No. 9 Ainsworth	24-18-8W SE NE SE	1694	3648	-1954	granite wash	Reagan	3687
Do	Continental No. 3 Diskey	24-18-8W NE NE NW	1705	3739	-2034	granite wash	Reagan	3844
Do	Continental No. 3 Gibson	24-18-8W NW NE SW	1725	3820	-2095	metasediments	Reagan	3825
Do	Continental No. 10 Lansing	25-18-8W W2 E2 SE	1710	3730	-2020	metasediments	Reagan	3970
Do	Continental No. 8 "A" Lansing	25-18-8W SW NW SW	1753	3825	-2072	metasediments	Arbuckle	3869
Do	Empire No. 1 Janzen	17-18-9W NE NE NE	1743	3780	-2037	granite wash	Arbuckle	3873
Do	Shell No. 3 "A" Haxton	33-18-9W CEL NW	1706	3750	-2044	quartzite	Arbuckle	3763
Do	Vickers No. 5 Roesler	5-18-10W NW SW SW	1776	3435	-1659	quartzite	Reagan	3536

Wells Drilled Into Precambrian Rock in Kansas

Rice	Gulf No. 7 Ames	6-18-10W SE NE NW	1794	3373	-1579	schist	Arbuckle	3375
Do	Sunray No. 8"B" Roesler	6-18-10W NE NW SW	1798	3415	-1617	granite wash	Reagan	3590
Do	Mid-Continent No. 4 Schlicht	6-18-10W CSL NW SE	1776	3435	-1659	mica schist	Reagan	3885
Do	Francis No. 5"D" Stout	6-18-10W NW SE NE	1790	3370	-1580	schist on quartzite*	Arbuckle	3552
Do	Sunray (Transwestern) No. 1"C" Habiger	8-18-10W SW SW NE	1766	3428	-1662	10 ft. granite wash on quartzite	Arbuckle	3482
Do	Allison No. 1"A" Blake	9-18-10W NE NW NW	1774	3512	-1738	pink granite	Reagan	3605
Do	Slick, Pryor & Lockhart No. 1 Schmidt	15-18-10W C NW NW	1771	3528	-1757	quartzite	Reagan	3548
Do	Anderson-Prichard No. 4 Feist	21-18-10W NE SW SW	1742	3170	-1428	quartzite	Lansing-Kansas City	3254
Do	Anderson-Prichard No. 5 Feist	21-18-10W SW NW SW	1742	3254	-1512	quartzite	Pennsylvanian	3260
Do	Vickers No. 2 Schoenig	21-18-10W NW NE SE	1744	3506	-1762	quartzite	Arbuckle	3522
Do	Bartlett No. 1 Bieberle	22-18-10W CSL SE SW	1754	3148	-1394	quartzite*	Lansing-Kansas City	3223
Do	Bartlett No. 1 Boldt	22-18-10W CSL SW SE	1739	3155	-1416	quartzite	Pennsylvanian	3224
Do	Musgrove No. 1 Boldt	22-18-10W SW SW SE	1754	3161	-1407	quartzite*	Lansing-Kansas City	3176
Do	Murfin-Jones-Swain No. 1 Behnke	25-18-10W CWL SW NW	1741	3200	-1459	quartzite	Pennsylvanian	3207
Do	Bay No. 1 Roelfs	26-18-10W NW NW SE	1747	3196	-1449	quartzite	Arbuckle	3246

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rice	Bay No. 1 "B" Roelfs	26-18-10W SE SW NE	1746	3203	-1457	quartzite	Pennsylvanian	3228
Do	Bay No. 3 Roelfs	26-18-10W NW SW SE	1748	3240	-1492	quartzite	Pennsylvanian	3291
Do	Bay No. 5 Roelfs	26-18-10W SE NW SE	1746	3281	-1535	quartzite	Arbuckle	3288
Do	Birmingham-Bartlett No. 2 Godfrey	26-18-10W CWL SE SW	1751	3195	-1444	quartzite	Pennsylvanian	3218
Do	Birmingham-Bartlett No. 6 Godfrey	26-18-10W SW SW SW	1746	3247	-1501	quartzite	Pennsylvanian	3257
Do	Cities Service No. 1 Culbertson	26-18-10W CEL SE NE	1742	3148	-1406	quartzite	Pennsylvanian	3215
Do	Cities Service No. 1 Roelfs	26-18-10W CEL NE SE	1740	3263	-1523	quartzite	Arbuckle	3265
Do	Hinkle No. 1 Culbertson	26-18-10W NE SW NE	1746	3192	-1446	3 ft. quartzite on granite gneiss	Pennsylvanian	3215
Do	Hinkle No. 2 Culbertson	26-18-10W NW SE NE	1744	3239	-1495	quartzite	Pennsylvanian	3248
Do	Hinkle No. 3 Culbertson	26-18-10W NE SE NE	1738	3252	-1514	quartzite	Pennsylvanian	3255
Do	Hinkle No. 4 Culbertson	26-18-10W NW SW NE	1748	3196	-1448	quartzite	Pennsylvanian	3214
Do	Robertson and Gypsy No. 1 Habiger	26-18-10W SW SW NW	1753	3307	-1554	quartzite	Arbuckle	3332
Do	Stick Pryor & Lockhart No. 1 Godfrey	26-18-10W NW NW SW	1750	3235	-1485	quartzite	Pennsylvanian	3260

Rice	Sunray No. 2 Roelfs	26-18-10W SE NW NE	1749	3202	-1453	quartzite	Pennsylvanian	3205
Do	Transwestern No. 1 Roelfs (Culbertson)	26-18-10W CSL NE NE	1745	3211	-1466	quartzite	Lansing- Kansas City	3218
Do	Artnell No. 1 Habiger	27-18-10W S2 NW NW	1742	3164	-1422	quartzite	Pennsylvanian	3183
Do	Artnell No. 2 Habiger	27-18-10W SW NE NW	1751	3075	-1324	quartzite	Pennsylvanian	3118
Do	Artnell No. 4 Habiger	27-18-10W NW NE NW	1752	3100	-1348	quartzite	Pennsylvanian	3135
Do	Artnell No. 7 Habiger	27-18-10W CEL NE NW	1754	3079	-1325	quartzite	Pennsylvanian	3137
Do	Artnell No. 1 Herzog	27-18-10W W2 E2 SE	1741	3277	-1536	quartzite	Arbuckle	3281
Do	Birmingham-Bartlett No. 1 ^B Herzog	27-18-10W SE SE SE	1739	3145	-1406	quartzite	Lansing- Kansas City	3168
Do	Birmingham-Bartlett No. 2 Herzog	27-18-10W SW SE SE	1744	3128	-1384	quartzite	Lansing- Kansas City	3175
Do	Hinkle and Atlantic No. 4 Mehl	27-18-10W SW NE SW	1753	3131	-1378	quartzite	Lansing- Kansas City	3171
Do	Lario-Carter No. 1 Habiger	27-18-10W SE NE NW	1753	3121	-1368	quartzite	Pennsylvanian?	3123
Do	Musgrove No. 2 Habiger	27-18-10W NW SE SW	1752	3137	-1385	quartzite	Lansing- Kansas City	3155
Do	Musgrove No. 3 Habiger	27-18-10W NE SE SW	1753	3239	-1486	quartzite	Pennsylvanian	3243
Do	Musgrove No. 4 Habiger (twin)	27-18-10W NW SE SW	1750	3144	-1394	quartzite	Lansing- Kansas City	3157
Do	Musgrove No. 5 Habiger	27-18-10W E2 SW SW	1751	3149	-1398	quartzite	Pennsylvanian	3159

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Rice	Reserve No. 1 Mehl	27-18-10W NE NE SW	1749	3178	-1429	quartzite	Pennsylvanian	3192
Do	Reserve No. 2 Mehl	27-18-10W NW NE SW	1751	3172	-1421	quartzite	Pennsylvanian	3204
Do	Sunray No. 3 "A" Habiger	27-18-10W E2 W2 SE	1746	3216	-1470	quartzite	Pennsylvanian	3225
Do	Skelly No. 1 Volkland	27-18-10W SE SE NW	1752	3153	-1401	quartzite	Pennsylvanian	3168
Do	Skelly No. 2 Volkland	27-18-10W SW SE NW	1752	3152	-1400	quartzite	Lansing-Kansas City	3186
Do	Skelly No. 3 "A" Volkland	27-18-10W N2 SE NW	1752	3127	-1375	quartzite	Lansing-Kansas City	3131
Do	Skelly No. 4 "A" Volkland	27-18-10W E2 SW NW	1745	3145	-1400	quartzite	Pennsylvanian?	3162
Do	Skelly No. 5 "A" Volkland	27-18-10W NW SE NW	1752	3127	-1375	quartzite	Lansing-Kansas City	3162
Do	Slick, Pryor & Lockhart No. 1 Habiger	27-18-10W NE NW SE	1747	3237	-1490	quartzite	Pennsylvanian	3242
Do	Slick, Pryor & Lockhart No. 2 Habiger	27-18-10W NW NW SE	1748	3162	-1414	quartzite	Pennsylvanian	3248
Do	Slick, Pryor & Lockhart No. 2 Herzog	27-18-10W NW NE SE	1747	3213	-1466	quartzite	Pennsylvanian	3219
Do	Slick, Pryor & Lockhart No. 2 Orth	27-18-10W SW SE NE	1749	3255	-1506	quartzite	Pennsylvanian?	3272
Do	Slick, Pryor & Lockhart No. 3 Orth	27-18-10W SW SW NE	1751	3165	-1414	quartzite	Pennsylvanian?	3178

Wells Drilled Into Precambrian Rock in Kansas

Rice	Transwestern (Slick, Pryor & Lockhart) No. 4 Orth	27-18-10W SW NW NE	1753	3155	-1402	quartzite	Pennsylvanian? 3162
Do	Anderson-Prichard No. 1 Heinz	28-18-10W SW SE SE	1750	3143	-1393	quartzite	Pennsylvanian 3159
Do	Anderson-Prichard No. 2 Heinz	28-18-10W NW SE SE	1743	3118	-1375	quartzite	Lansing- Kansas City 3150
Do	Anderson-Prichard No. 3 Heinz	28-18-10W SE SW SE	1740	3117	-1377	quartzite	Lansing- Kansas City 3137
Do	Anderson-Prichard No. 4 Heinz	28-18-10W NE SW SE	1741	3165	-1424	quartzite	Lansing- Kansas City? 3175
Do	Hinkle No. 1 Heinz	28-18-10W CEL NE SE	1749	3313	-1564	quartzite	Pennsylvanian 3319
Do	Skelly No. 1 Sittner	28-18-10W SW SW SW	1738	3172	-1434	quartzite	Lansing- Kansas City 3205
Do	Anderson-Prichard No. 1 Gemeinhardt	29-18-10W SE SE SE	1741	3144	-1403	quartzite	Lansing- Kansas City 3200
Do	Sohio No. 4 "A" Reif	31-18-10W NW NW SW	1749	3259	-1510	quartzite	Arbuckle? 3272
Do	Anderson-Prichard No. 1 Ringwald	32-18-10W NE SE NE	1746	3066	-1320	quartzite	Lansing- Kansas City 3090
Do	Anderson-Prichard No. 2 Ringwald	32-18-10W NE NE NE	1747	3095	-1348	quartzite	Lansing- Kansas City 3112
Do	Anderson-Prichard No. 3 Ringwald	32-18-10W SW NE NE	1739	3243	-1504	quartzite	Pennsylvanian 3247
Do	Anderson-Prichard No. 4 Ringwald	32-18-10W S2 SE NE	1748	3146	-1398	quartzite	Lansing- Kansas City 3172
Do	Anderson-Prichard No. 5 Ringwald	32-18-10W SE SW NE	1752	3168	-1416	quartzite	Pennsylvanian 3204
Do	Anderson-Prichard No. 6 Ringwald	32-18-10W SE NE NE	1744	3113	-1369	quartzite	Pennsylvanian 3125

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rice	Anderson-Prichard No. 7 Ringwald	32-18-10W C SE NE	1741	3092	-1351	quartzite	Lansing-Kansas City	3171
Do	Branine-Holl No. 1 Bieberle	32-18-10W NW NE SE	1742	3230	-1488	quartzite	Lansing-Kansas City	3252
Do	Sargent No. 1 Gemeinhardt	32-18-10W NE NE SW	1746	3278	-1532	quartzite	Pennsylvanian	3282
Do	Sargent No. 1 Ringwald	32-18-10W SE SE NW	1742	3180	-1438	quartzite	Pennsylvanian	3210
Do	Sargent No. 2 Wessler	32-18-10W SE SW NW	1749	3262	-1513	quartzite	Pennsylvanian	3281
Do	Skelly No. 1 Buehler	33-18-10W NW SW NW	1738	3124	-1386	quartzite	Lansing-Kansas City	3157
Do	Skelly No. 2 Buehler	33-18-10W NW NW NW	1738	3131	-1393	quartzite	Lansing-Kansas City	3134
Do	Skelly No. 3 Buehler	33-18-10W SW SW NW	1740	3230	-1490	quartzite	Pennsylvanian	3247
Do	Skelly No. 4 "A" Buehler	33-18-10W NW NE NW	1746	3325	-1579	quartzite	Pennsylvanian	3226
Do	Skelly No. 5 "A" Buehler	33-18-10W SW NW NW	1739	3148	-1409	quartzite	Pennsylvanian	3189
Do	Skelly No. 1 "B" Buehler	33-18-10W NW NE NE	1745	3126	-1381	quartzite	Lansing-Kansas City	3148
Do	Skelly No. 2 "B" Buehler	33-18-10W NE NW NE	1740	3100	-1360	quartzite	Lansing-Kansas City	3122
Do	Skelly No. 3 "B" Buehler	33-18-10W NW NW NE	1737	3158	-1421	quartzite**	Pennsylvanian	3186

Rice	Skelly No. 4" B" Buehler	33-18-10W SE NW NE	1737	3115	-1378	quartzite	Lansing- Kansas City	3150
Do	Skelly No. 5" B" Buehler	33-18-10W SW NE NE	1744	3234	-1490	quartzite	Pennsylvanian	3254
Do	Skelly No. 6" B" Buehler	33-18-10W NE SW NE	1744	3090	-1346	quartzite**	Pennsylvanian	3135
Do	Skelly No. 7" B" Buehler	33-18-10W NW SE NE	1739	3180	-1441	quartzite**	Pennsylvanian	3218
Do	Skelly No. 8" B" Buehler	33-18-10W SE SW NE	1738	3137	-1399	quartzite	Pennsylvanian	3174
Do	Skelly No. 9" B" Buehler	33-18-10W SW SE NE	1737	3156	-1419	quartzite	Pennsylvanian	3200
Do	Skelly No. 10" B" Buehler	33-18-10W SW NW NE	1739	3230	-1491	quartzite	Pennsylvanian	3260
Do	Skelly No. 1 Haas	33-18-10W NE NW SE	1738	3307	-1569	quartzite	Arbuckle	3320
Do	B & R No. 1 Wessler	34-18-10W NE NW NW	1748	3220	-1472	quartzite	Lansing- Kansas City	3245
Do	Birmingham-Bartlett No. 1 Wessler	34-18-10W NE NE NE	1741	3135	-1394	quartzite	Lansing- Kansas City	3157
Do	Birmingham-Bartlett No. 2 Wessler	34-18-10W NW NE NE	1736	3207	-1471	quartzite	Pennsylvanian	3215
Do	Hinkel No. 1 Wessler	34-18-10W SE NE NW	1745	3247	-1502	quartzite	Pennsylvanian	3257
Do	Skelly No. 1 Allinger	35-18-10W NW NW NW	1739	3162	-1423	quartzite	Pennsylvanian	3214
Barton	Harms-Burt and Fleming No. 3 Mueller	1-18-11W SE SW NE	1798	3494	-1696	granite wash	Arbuckle	3524
Do	Magnolia No. 2 Roesler	1-18-11W CSL NE NW	1804	3518	-1714	schist	Reagan	3690

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	B & R No. 3 Hamilton	10-18-11W NE NE NW	1781	3876	-2095	granite	Arbuckle	3887
Do	Gulf No. 1 Bloomer	12-18-11W N2 SW NE	1774	3783	-2009	red schist	Reagan	3800
Do	Derby No. 5 Klepper	16-18-11W SE NW SE	1796	3922	-2126	granite	Arbuckle	3923
Do	Crane & Hoffine No. 1 Eveleigh	6-18-12W C SW	1800	3828	-2028	quartzite and schist	Reagan	4390
Do	Herndon No. 2-A" McCauley	6-18-13W NW SW SW	1830	3660	-1830	granite wash	Arbuckle	3664
Do	Skelly and Pacific Western No. 5 Robison	8-18-13W SW NW SE	1818	3516	-1698	mica schist	Arbuckle	3557
Do	Continental No. 3 Jilg	18-18-13W SW NE NW	1861	3595	-1734	100 ft. weathered granite on granite	Arbuckle	3748
Do	Roxana and Cooper No. 1 Eveleigh	22-18-13W SE NE NE	1803	3600	-1797	quartzite, schist and granite	Reagan	4460
Do	Continental and Phillips No. 5 Monroe	4-18-14W NW SE SE	1940	3640	-1700	granite wash?	Reagan	3794
Do	Continental No. 3 Riedel	4-18-14W SE NW NE	1943	3653	-1710	granite wash	Arbuckle	3716
Do	Texas No. 4 Harper	10-18-14W SE SE NW	1940	3578	-1638	granite*	Arbuckle	3608
Do	Cities Service No. 1 Eveleigh	11-18-14W NE NE SE	1859	3311	-1452	quartzite	Pennsylvanian?	3337
Do	Hannum No. 1 Haberman	8-18-15W C SW	1985	3553	-1568	granite	Reagan	3555

Wells Drilled Into Precambrian Rock in Kansas

Barton	Herndon No. 1 Schneider	18-18-15W C NW	1971	3548	-1577	21 ft. granite wash on granite	Reagan	3570
Do	Schermerhorn No. 1 Haas	30-18-15W NW NW SE	1919	3580	-1661	granite?	Reagan	3647
Do	United Drilling No. 1 Haas	30-18-15W SW SW SE	1919	3492	-1573	granite	Reagan	3498
Do	Leben No. 1 Oetken	30-18-15W NE NE NW	1921	3537	-1616	granite wash	Reagan	3560
Do	Coppinger No. 2 "C" Arnold	32-18-15W SE SW SE	1997	3627	-1630	granite wash	Reagan	3644
Do	Coppinger No. 1 Schope	32-18-15W SE NW SE	1981	3570	-1589	quartzite	Reagan	3582
Do	Appleman and Wakefield No. 1 Bird	33-18-15W SW SW SW	1997	3614	-1617	micaceous, graphitic quartzite*	Reagan	3680
Do	Harms-Burt No. 1 Bird	33-18-15W NW NW SW	1973	3572	-1599	quartzite and schist	Reagan	3577
Do	Clay No. 2 Bahr	35-18-15W CNL NE SW	1928	3521	-1593	schist	Arbuckle	3544
Do	Wilkinson No. 6 Howell	36-18-15W SE NE SE	1897	3683	-1786	granite	Arbuckle	3686
Rush	Aylward No. 1 Hall	1-18-16W C NE SW	1992	3508	-1516	arkose	Reagan	3560
Do	Morgan-Flynn No. 1 Mohr	2-18-16W C SW	1997	3504	-1507	granite	Pennsylvanian	3762
Do	Morgan-Flynn No. 1 Hartman	4-18-16W SW SW NW	1994	3526	-1532	13 ft. granite wash on granite	Reagan	3539
Do	Olson No. 1 Schmidt	4-18-16W C SE	2003	3535	-1532	biotite granite	Pennsylvanian?	3546

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rush	Solar and Skelly No. 1 Crofingier	4-18-16W NE SW SW	1987	3524	-1537	10 ft. weathered granite on solid granite	Pennsylvanian?	3538
Do	Sinclair Prairie No. 1 Scheuerman	5-18-16W SE SE NE	2000	3540	-1540	granite	Reagan	3550
Do	Skelly No. 1 Betz	5-18-16W NE SE SW	1991	3532	-1541	granitic gneiss**	Marmaton	3571
Do	Skelly No. 1 Scheuerman	6-18-16W NE NE SW	1976	3510	-1534	red granite	Marmaton	3523
Do	Skelly, Lion and Sunray No. 1 Dirks	7-18-16W NE NE SW	1952	3514	-1562	quartzite on granite	Pennsylvanian	3521
Do	Solar No. 1 Betz	8-18-16W NE NE NW	1978	3545	-1567	granite	Pennsylvanian?	3560
Do	Solar No. 1 Luft-Maneth	8-18-16W W2 NW SE	1949	3488	-1539	4 ft. granite wash on granite	Pennsylvanian	3500
Do	Interstate No. 1 Schmidt	9-18-16W C SE	1943	3508	-1565	red granite	Pennsylvanian?	3559
Do	Martin No. 1 Buthrus	10-18-16W NE NE NW	1982	3509	-1527	16 ft. weathered mica schist on mica schist	Reagan	3531
Do	Mid-Kansas No. 1 Mohr	10-18-16W C NW	1980	3540	-1560	weathered granite	Pennsylvanian?	3581
Do	Northern Natural No. 65 Otis	10-18-16W C SW	1947	3499	-1552	weathered diabase**	Pennsylvanian	3511
Do	Moore No. 1 Schroyer	12-18-16W C NW	1989	3549	-1560	granite	Reagan	3552

Wells Drilled Into Precambrian Rock in Kansas

Rush	Aylward No. 1 Brack	14-18-16W C SW	1929	3523	-1594	granite wash	Reagan	3554
Do	Schermerhorn No. 1 "B" Eitel	14-18-16W C SE	1930	3515	-1585	granite	Reagan	3520
Do	Marathon No. 1 Mohr	15-18-16W C SW	1936	3540	-1604	white quartzite and red schist	Reagan	3576
Do	Frazier No. 1 Budde	16-18-16W NW SW NE	1938	3455	-1517	quartzite	Pennsylvanian?	3479
Do	Interstate No. 1 Kerbs	16-18-16W C SE	1935	3441	-1506	quartzite	Reagan	3554
Do	Appleman No. 1 Schneider	17-18-16W SE SE SW	1943	3529	-1586	granite	Marmaton	3533
Do	Brack No. 1 Weigt	17-18-16W SW SW NE	1944	3562	-1618	quartzite	Reagan	3581
Do	Imperial No. 1 Huenergardt	18-18-16W SE SE SE	1948	3540	-1592	8 ft. granite wash on granite	Reagan	3552
Do	Phillips No. 1 Pechanec	18-18-16W C SE SW	1951	3596	-1645	granite	Reagan	3602
Do	Solar No. 1 Pechanec	18-18-16W SE SW SE	1948	3580	-1632	altered porphyritic rhyolite or trachyte**	Reagan	3597
Do	Wentz No. 1 Rodie	19-18-16W SW SW SW	1996	3663	-1667	5 ft. granite wash on granite	Reagan	3670
Do	Hines No. 1 Roth	20-18-16W SW SW NE	1968	3593	-1625	quartz porphyry	Reagan	3605
Do	Hines No. 2 Roth	20-18-16W SE SE NE	1970	3560	-1590	quartzite	Reagan	3572
Do	Hines No. 3 Roth	20-18-16W SE SW NE	1983	3615	-1632	quartz porphyry	Reagan	3616

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Rush	Knight No. 3 Roth	20-18-16W NE NE SE	1986	3614	-1628	granite wash	Reagan	3631
Do	Knight No. 4 Roth	20-18-16W NE NW SE	1995	3632	-1637	granite wash	Reagan	3642
Do	Skelly No. 2 Huenergardt	20-18-16W NW SE NW	1979	3597	-1618	chloritic schist	Reagan	3607
Do	Carter No. 1 Prosch	21-18-16W CNL SE	1957	3611	-1654	sericitic quartz porphyry	Reagan	3614
Do	Knight No. 3 Reinhardt	21-18-16W SW SE SW	2029	3694	-1665	granite wash	Reagan	3710
Do	Nadel & Gussman No. 1 Reinhardt	21-18-16W SE SE SW	2027	3636	-1609	granite	Reagan	3638
Do	Skelly No. 1 Dyer	21-18-16W NE NE NW	1939	3505	-1566	quartzite	Pennsylvanian	3551
Do	Skelly No. 2 Dyer	21-18-16W SE SE NW	1960	3559	-1599	quartzite	Reagan	3571
Do	Skelly No. 3 Dyer	21-18-16W SW SE NW	1968	3576	-1608	chloritic schist	Reagan	3585
Do	Skelly No. 4 Dyer	21-18-16W NE SE NW	1939	3507	-1568	gray quartzite	Pennsylvanian	3570
Do	Skelly No. 2 Miller	21-18-16W NW NE SW	1988	3619	-1631	chloritic schist	Reagan	3630
Do	Skelly No. 3 Miller	21-18-16W SE NW SW	1992	3605	-1613	silicified rhyolite porphyry**	Reagan	3624
Do	Skelly No. 4 Miller	21-18-16W NE NW SW	1989	3601	-1612	chloritic schist	Reagan	3616

Wells Drilled Into Precambrian Rock in Kansas

Rush	Skelly No. 5 Miller	21-18-16W SE NE SW	1992	3635	-1643	weathered schist	Reagan	3645
Do	Skelly No. 6 Miller	21-18-16W NW NW SW	1969	3621	-1652	red and green schist	Reagan	3637
Do	Solar No. 1 Miller	21-18-16W SW SW NE	1950	3549	-1599	quartz porphyry	Reagan	3571
Do	Solar No. 1 Hanhardt	21-18-16W SE SW NW	1974	3597	-1623	quartz porphyry	Reagan	3613
Do	Solar No. 2 Hanhardt	21-18-16W NW SW NW	1950	3543	-1593	quartz porphyry	Reagan	3562
Do	Solar No. 1 Monson	21-18-16W NW NW SE	1973	3590	-1617	quartz porphyry	Reagan	3597
Do	Solar No. 2 Monson	21-18-16W SE NW SE	1973	3605	-1632	quartz porphyry	Reagan	3613
Do	Solar No. 3 Monson	21-18-16W SW NE SE	1960	3561	-1601	quartz porphyry	Reagan	3577
Do	Solar No. 4 Monson	21-18-16W SW NW SE	1992	3634	-1642	quartz porphyry?	Reagan	3636
Do	Solar No. 5 Monson	21-18-16W NE SE SE	1956	3574	-1618	quartz porphyry	Reagan	3579
Do	Solar No. 6 Monson	21-18-16W NW SE SE	1966	3606	-1640	quartz porphyry	Reagan	3651
Do	Solar No. 7 Monson	21-18-16W NE SW SE	1979	3618	-1639	quartz porphyry	Reagan	3630
Do	Solar No. 8 Monson	21-18-16W SE SE SE	1959	3611	-1652	quartz porphyry	Reagan	3616
Do	Solar No. 9 Monson	21-18-16W NE NW SE	1962	3552	-1590	quartz porphyry	Reagan	3585
Do	Chief No. 4 Schneider	22-18-16W SE SW SW	1986	3625	-1639	granite wash	Reagan	3650

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rush	Chief No. 5 Schneider	22-18-16W NE SW SW	1987	3575	-1588	schist	Reagan	3587
Do	Morgan, Flynn & Cobb No. 1 Shaffer	22-18-16W NE NE SE	1930	3523	-1593	quartzite and mica schist	Pennsylvanian?	3595
Do	Shell No. 1 Shaffer	22-18-16W C NW	1933	3435	-1502	quartzite	Pennsylvanian	3577
Do	Solar No. 1 Ater	22-18-16W CWL NW SW	1956	3516	-1560	quartzite	Reagan	3550
Do	Solar No. 1 Koochel	22-18-16W SW NW NE	1932	3510	-1578	granite wash	Pennsylvanian?	3515
Do	Welch & Olsson No. 1 Schneider	22-18-16W SW SE SW	1969	3570	-1601	granite wash?	Reagan	3575
Do	Welch & Olsson No. 2 Schneider	22-18-16W NW SW SW	1969	3588	-1619	granite	Reagan	3590
Do	Welch & Olsson No. 3 Schneider	22-18-16W SW SW SW	1969	3598	-1629	granite wash?	Reagan	3630
Do	Brunson-Spines No. 6 ^a Koriel	23-18-16W E2 NW NW	1930	3543	-1613	weathered diabase**	Reagan	3570
Do	Brunson-Spines No. 5 ^b Koriel	23-18-16W S2 N2 SW	1930	3537	-1607	metamorphics?	Reagan	3570
Do	Brunson-Spines No. 6 Schroeder	23-18-16W C N2 SE	1930	3570	-1640	metamorphics	Reagan	3578
Do	Carter No. 2 Woodward	23-18-16W SW SW SE	1929	3537	-1608	quartzite on red and gray schist	Reagan	3560
Do	Dunn-May (Interstate) No. 1 Crowell	23-18-16W C NE	1929	3536?	-1607?	granite wash?	Reagan	3552

Rush	Morgan & Flynn No. 2 "A" Koriel	23-18-16W SW SW NW	1930	3553	-1623	red schist	Reagan	3558
Do	Flynn No. 4 Crowell	23-18-16W S2 SE NE	1931	3549	-1618	red quartzite	Reagan	3554
Do	Brach No. 1 Rubart	24-18-16W SW SW SE	1921	3546	-1625	granite wash	Reagan	3550
Do	Carter No. 1 Rubart	24-18-16W SE SE SE	1920	3541	-1621	granite	Reagan	3543
Do	Ohio No. 2 Brack	24-18-16W SW SW SW	1928	3534	-1606	quartzite	Reagan	3550
Do	Ohio No. 3 Brack	24-18-16W C NW SW	1924	3536	-1612	schist	Reagan	3547
Do	Morgan, Flynn & Cobb No. 1 Giesick	25-18-16W NW NW SE	1928	3537	-1609	quartzite	Pennsylvanian	3582
Do	Ohio No. 1 Dirks	25-18-16W NE NE NE	1919	3552	-1633	granite wash	Reagan	3566
Do	Schermerhorn No. 1 Hergert	25-18-16W C SE SW	1947	3590	-1643	quartzite	Reagan	3597
Do	B & R No. 1 Bradley	26-18-16W N2 SE NW	1963	3570	-1607	weathered granite	Reagan	3575
Do	B & R No. 1 Schroeder	26-18-16W S2 SW NE	1942	3530	-1588	granite	Reagan	3531
Do	Circle No. 1 Schroeder	26-18-16W CSL NW NE	1946	3481	-1535	quartzite	Pennsylvanian?	3507
Do	Stickle No. 1 Hergert	26-18-16W N2 N2 SE	1940	3552	-1612	granite	Reagan	3564
Do	Moss No. 1 Rodie	27-18-16W NE NE NE	1971	3577	-1606	granite wash	Reagan	3599
Do	Skelly No. 1 Rodie	27-18-16W SE SE NW	1991	3670	-1679	weathered granite	Reagan	3680

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Rush	Brack and Phillips No. 1 Wagner	28-18-16W SE SE SW	2044	3675	-1631	pink granite	Reagan	3681
Do	Knight No. 2 Brady	28-18-16W SW NW NE	1986	3664	-1678	granite wash?	Reagan	3665
Do	Knight and Luft & Weber No. 2 "B" Wagner	28-18-16W NE NW NW	2012	3679	-1667	granite wash	Reagan	3686
Do	Solar No. 1 Wagner	28-18-16W SW NW SW	2065	3690	-1625	granite wash	Reagan	3693
Do	Auto-Ordinance No. 1 Luft	29-18-16W SE NW NW	2021	3629	-1608	granite wash?	Pennsylvanian	3632
Do	Osage No. 1 Lohrey	29-18-16W NE NE SE	2049	3667	-1618	granite wash	Reagan	3683
Do	Osage No. 2 Lohrey	29-18-16W SW NE SE	2067	3696	-1629	granite wash	Reagan	3718
Do	Solar No. 1 Luft	29-18-16W SW SW NW	2082	3722	-1640	granite	Pennsylvanian	3726
Do	Schermerhorn No. 1 Schroeder	36-18-16W NE NE NE	1991	3626	-1635	granite wash?	Reagan	3635
Do	Aylward No. 1 Robison	2-18-17W C NW NW	2009	3579	-1570	schist	Pennsylvanian?	3588
Do	Pan American No. 1 Robison Unit	2-18-17W SE NE NW	1992	3531	-1539	2 ft. granite wash on granite	Pennsylvanian	3536
Do	Aylward No. 1 Reinhardt	3-18-17W NE NE SW	2008	3570	-1562	31 ft. granite wash on granite	Pennsylvanian	3606
Do	Aylward No. 2 Reinhardt	3-18-17W NE SE SW	2001	3606	-1605	granite wash	Pennsylvanian	3609

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Rush	Aylward No. 1 Timken	3-18-17W NW SE NE	2001	3618	-1617	schist	Pennsylvanian	3663
Do	Imperial No. 1 Seuser	5-18-17W SE SE NE	1997	3631	-1634	weathered granite	Marmaton	3683
Do	Sinclair No. 1 Seuser	8-18-17W SE NW NW	2090	3780	-1690	weathered granite	Reagan	3837
Do	Great Lakes Carbon No. 1 Kottal	9-18-17W NE NE NE	1981	3610	-1629	granite	Reagan	3611
Do	Aylward No. 1 Hardy	11-18-17W NW NW SW	1985	3610	-1625	granite wash	Reagan	3613
Do	Aylward No. 1 Rothweiler	11-18-17W NW NW NW	1982	3616	-1634	granite wash	Pennsylvanian	3625
Do	Victor No. 1 Crottinger	12-18-17W SW SW NE	1967	3550	-1583	quartzite	Reagan	3558
Do	Phillips No. 1 Timken	13-18-17W SE SE NE	1949	3587	-1638	granite	Reagan	3588
Do	Gypsy No. 1 Kraisinger	23-18-17W SE NE SE	2026	3713	-1687	weathered granite	Reagan	3720
Do	Skelly No. 1 Rodie	25-18-17W NW NW SE	2055	3759	-1704	granite	Reagan	3768
Do	Gabbert & Jones No. 3 Beaton	21-18-18W SW NE NE	2043	4099	-2056	granite	Reagan	4115
Rice	Slick No. 1 Deeds	1-19-7W SE SW NW	1601	4055	-2454	arkose	Arbuckle	4456
Do	Henderson No. 7 Keller	5-19-9W NW SE NE	1717	3760	-2043	granite wash	Arbuckle	3880
Do	Shell No. 1 "A" Reese	5-19-9W SW SW NW	1710	3757	-2047	mica schist	Arbuckle	3850
Do	Cities Service (Sinclair Prairie), No. 1 Willard	6-19-9W NE NE SW	1711	3705	-1994	quartzite	Arbuckle	3706

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rice	Shell No. 2 Haferman	6-19-9W C SE	1709	3750	-2041	schist and quartzite	Reagan	3835
Do	Bay No. 2 Grizzell	8-19-9W SW NE NW	1706	3790	-2084	schist	Reagan	3809
Do	McPherson No. 4'D' Cramm	15-19-9W N2 S2 SW	1694	3690	-1996	gneiss	Reagan	3718
Do	Sohio No. 2'D' Cramm	15-19-9W C SW	1693	3695	-2002	quartzite	Reagan	3749
Do	Weaver No. 1 Callis	16-19-9W NW NE SE	1695	3750	-2055	gneiss?	Reagan	3772
Do	Sinclair No. 2 Volkland	20-19-9W SE SE SE	1716	3747	-2031	granite	Reagan	3748
Do	Phillips No. 6 Link	21-19-9W SE NE SW	1704	3710	-2006	granite	Reagan	3742
Do	Empire No. 4 Meyers	21-19-9W NW SE SW	1717	3725	-2008	5 ft. granite wash on granite	Arbuckle	3751
Do	Bishop No. 5 Reese	22-19-9W NE NE NW	1694	3680?	-1986?	granite wash?	Reagan?	3831
Do	Texas No. 3 Grove	29-19-9W NE NE NE	1715	3758	-2043	12 ft. granite wash on granite	Reagan	3785
Do	Gypsy No. 1 Burden	31-19-9W NE SE SE	1713	3820	-2107	metamorphics	Reagan	3831
Do	Lewis No. 1 Stratman	5-19-10W SE NW NE	1741	3318	-1577	quartzite	Pennsylvanian?	3338
Do	Isern No. 5 Flora	12-19-10W NW SW SE	1738	3706	-1968	granite wash	Arbuckle	3724

Rice	Lebsack No. 3 Doran	13-19-10W SW SE SE	1743	3726	-1983	granite	Arbuckle	3730
Do	Lebsack No. 6 Emerick	13-19-10W SW SE NE	1740	3740	-2000	granite	Reagan	3802
Do	Weaver No. 5 Ankerholz	14-19-10W NE NW NW	1749	3682	-1933	granite	Reagan	3689
Do	Lee Phillips No. 1 Eberhart	18-19-10W NE NE SE	1772	3894	-2122	granite wash	Arbuckle	3897
Do	Lauck No. 1 Probst	20-19-10W NE SE NE	1772	3270	-1498	quartzite	Pennsylvanian	3284
Do	Lauck No. 3 Probst	20-19-10W SE SE NE	1767	3222	-1455	quartzite	Pennsylvanian	3227
Do	Continental No. 1 Roelfs	20-19-10W NE NE SE	1763	3234	-1471	quartzite	Pennsylvanian	3237
Do	Bergman No. 2 Eatinger	21-19-10W NW SW NW	1766	3262	-1496	quartzite	Pennsylvanian	3297
Do	Bergman No. 3 Eatinger	21-19-10W SW NW NW	1766	3276	-1510	quartzite	Pennsylvanian	3280
Do	Skelly No. 1 Knop	21-19-10W NE NE SW	1764	3226	-1462	quartzite	Pennsylvanian?	3268
Do	Lewis No. 1 Bernstorf	27-19-10W N2 NE NE	1745	3286	-1541	granite wash	Arbuckle	3291
Do	Skelly No. 1 "C" Bernstorf	27-19-10W CSL SE NE	1751	3284	-1533	quartzite	Arbuckle	3310
Do	Skelly No. 2 Ira	27-19-10W CSL SE NW	1758	3195	-1437	red quartzite	Marmaton	3215
Do	Skelly No. 4 Ira	27-19-10W NE SE NW	1756	3210	-1454	gray quartzite	Pennsylvanian	3212
Do	Skelly No. 5 Ira	27-19-10W NE SW NW	1760	3264	-1504	quartzite	Arbuckle	3269

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Rice	Sharon No. 1 Dittmers	28-19-10W CEL NE SW	1767	3237	-1470	quartzite	Lansing-Kansas City	3239
Do	Skelly No. 1 Smith	28-19-10W CSL SE NE	1758	3239	-1481	quartzite	Arbuckle	3250
Do	Stanolind No. 6 Manke	28-19-10W N2 NW SE	1768	3207	-1439	quartzite	Pennsylvanian? 3235	
Do	Stanolind No. 1 Roth	29-19-10W NE SW NE	1776	3224	-1448	quartzite	Pennsylvanian 3227	
Do	Stanolind No. 4 Roth	29-19-10W SE SW NE	1786	3196	-1410	5 ft. granite wash on quartzite	Arbuckle	3207
Do	Gulf No. 1 Steckel	30-19-10W CWL SE SW	1772	3826	-2054	mica schist	Reagan	3842
Do	Davis No. 11 Dueser	31-19-10W CWL E2 SW	1783	3804	-2021	granite	Arbuckle	3810
Do	Bradley and Republic Natural, No. 3 Wendell	32-19-10W SW SE NE	1791	3758	-1967	talc schist	Arbuckle	3807
Do	Gulf No. 8 Wendel	32-19-10W SE SW SE	1801	3818	-2017	mica schist	Arbuckle	3842
Do	Stanolind No. 3 Mitchell	32-19-10W SW NW SW	1790	3770	-1980	pyroxene	Reagan	3890
Do	Stanolind No. 3 Panning	33-19-10W NW SE NW	1779	3790	-2011	granite wash	Arbuckle	3820
Do	Hartman-Blair No. 2 "B" Scharztz	33-19-10W SW NW SE	1782	3800	-2018	dark schist	Reagan	3920
Do	Continental No. 3 Gum	34-19-10W NW NW SE	1766	3872	-2106	dark basic igneous rock	Arbuckle	4148

Wells Drilled Into Precambrian Rock in Kansas

Rice	Texas No. 3 Kleile	34-19-10W NW NW SW	1775	3870	-2095	34 ft. phyllite on granite	Reagan	3920
Do	Phillips No. 1 Miner	35-19-10W CEL NW SE	1743	3840	-2097	dark basic igneous rock	Arbuckle	4135
Do	Hartman No. 5 "E" Linke	36-19-10W SW NE SE	1731	3870	-2139	dark basic igneous rock	Reagan	3900
Barton	Hoffine & Crane No. 1 Beck	17-19-11W CNL SE NE	1767	3805	-2038	graphitic schist and quartzite*	Reagan	5090
Do	Continental No. 14 Risse	36-19-11W CNL NE SE	1763	3820	-2057	schist	Reagan	3940
Do	Mid-Continent No. 5 Schmidt	36-19-11W NW SE SW	1763	3785	-2022	schist	Reagan	3796
Do	Texaco No. 7 Schmidt	36-19-11W SW SW NW	1766	3769	-2003	weathered gneiss	Reagan	3808
Do	Honaker & Davis (Sun) No. 1 "B" McKinney	20-19-13W NE SE SW	1855	3706	-1851	granite wash	Reagan	3741
Do	Honaker (Trans Era) No. 1 Moses	27-19-13W NW NW SW	1845	3810	-1965	granite wash?	Reagan	3875
Do	Morgan, Flynn & Cobb No. 1 Essmiller	16-19-14W SE SE NE	1904	3725	-1821	schist	Reagan	3742
Do	Skelton No. 1 Ott	16-19-14W C SE SE	1887	3659	-1772	granite	Reagan	3705
Do	Honaker No. 1 Hall	28-19-14W NE NE NE	1892	3532	-1640	granite	Pennsylvanian	3550
Do	Petroleum, Inc. No. 1 Loy	28-19-14W NW SW NW	1898	3528	-1630	quartzite	Lansing- Kansas City	3535
Do	Honaker No. 1 "B" Harrison	29-19-14W NE SE NE	1899	3470	-1571	granite*	Lansing- Kansas City	3580
Do	Helmerich & Payne No. 1 "B" Merten	3-19-15W C SE SW	1960	3582	-1622	granite	Reagan	3587

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Vickers No. 3 Saylor	3-19-15W N2 NW NW	1952	3553	-1601	quartzite	Reagan	3554
Do	M & L No. 1 Roger-Saylor	4-19-15W SE NW NE	1976	3545	-1569	quartzite	Reagan	3550
Do	Huff No. 4 Quimby	4-19-15W SW NW NW	2007	3630	-1623	quartzite	Reagan	3643
Do	Cities Service No. 1 Merten	4-19-15W SW SE SE	1992	3595	-1603	mica-quartz schist	Reagan	3615
Do	Coppinger No. 3 ^B Arnold	5-19-15W NE NE NW	2013	3660	-1647	granite wash	Reagan	3667
Do	Skelly No. 2 Schultz	5-19-15W SW NW NE	2005	3614	-1609	quartzite	Reagan	3617
Do	Skelly No. 6 Schultz	5-19-15W NW SE NE	2003	3623	-1620	granite wash	Reagan	3646
Do	Skelly No. 7 Schultz	5-19-15W NW NW NE	1995	3627	-1632	quartz-sericite schist**	Reagan	3657
Do	Skelly No. 8 Schultz	5-19-15W NW NE NE	1990	3612	-1622	schist	Reagan	3618
Do	Skelly No. 9 Schultz	5-19-15W SE NE NE	1985	3615	-1630	quartzite	Reagan	3630
Do	Stanolind No. 3 Haas	6-19-15W SE SE NE	2041	3696	-1655	quartzite	Arbuckle	3697
Do	Brach No. 1 Peterson	7-19-15W SW SW SW	1985	3630	-1645	weathered granite	Reagan	3631
Do	Champlin No. 1 Hanken	9-19-15W NW SE SE	1943	3620	-1677	metamorphics	Arbuckle	3659

Wells Drilled Into Precambrian Rock in Kansas

Barton	M & L No. 8 Hanken	9-19-15W NW SE SW	1960	3634	-1674	schist	Arbuckle	3637
Do	Helmerick & Payne and Phillips, No. 3 "A", Merten	10-19-15W NW NW SE	1939	3502	-1563	quartzite	Reagan	3510
Do	Helmerick & Payne and Phillips, No. 3 "A", Seeber	10-19-15W NW SW NW	1966	3470	-1504	schist	Pennsylvanian	3509
Do	Helmerick & Payne and Phillips, No. 3 "B", Seeber	10-19-15W NW SE SW	1937	3474	-1537	quartzite	Pennsylvanian	3535
Do	Amerada No. 1 Merten	14-19-15W C NW NW	1946	3460	-1514	quartzite	Lansing- Kansas City	3470
Do	Frontier No. 1 Ummen	14-19-15W NE SW NW	1955	3497	-1542	15 ft. quartzite on granite*	Reagan	3513
Do	Petroleum, Inc. No. 1 Lawrence	14-19-15W SW NW NE	1946	3623	-1677	granite wash	Reagan	3653
Do	Dahl No. 1 Saylor	16-19-15W NW NW NE	1949	3623	-1674	mica schist	Arbuckle	3629
Do	Cohen No. 1 Converse	17-19-15W NW NW SW	1954	3635	-1681	granite wash on granite	Reagan	3650
Do	Schermerhorn No. 1 Pendergast	27-19-15W SW SW NE	1928	3627	-1699	quartzite	Reagan	3633
Do	Bove No. 2 Button	35-19-15W N2 SE NW	1921	3622	-1701	quartzite	Arbuckle	3626
Do	Great Bend Brick & Tile No. 1 Button	35-19-15W SW NE NW	1920	3539	-1619	quartzite	Marmaton	3543
Do	Nixon No. 1 Ewing-Merten	35-19-15W E2 NE SE	1937	3555	-1618	quartzite	Reagan	3564
Do	Schermerhorn No. 1 Merten	35-19-15W NW NE SE	1933	3520	-1587	quartzite	Reagan	3541
Do	Schermerhorn No. 2 Merten	35-19-15W NW SE SE	1931	3553	-1622	quartzite	Pennsylvanian	3558

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Rock unit on basement	Total depth, feet	
				Depth to Precambrian, feet	of Precambrian, feet			
Barton	Schermerhorn No. 1 "A" Merten	36-19-15W SW NW SW	1938	3549	-1611	quartz schist*	Reagan	3562
Rush	Stanolind No. 1 "A" Budde	2-19-16W SE SE NW	2017	3661	-1644	granite	Reagan	3663
Do	Kewanee (Brack) No. 6 Rankin	27-19-16W NW NW SE	2032	4280	-2248	19 ft. granite wash on granite	Reagan	4299
Do	Gulf (Stanolind) No. 1 Tammen	35-19-16W NW SE SE	1982	4249	-2267	weathered granite	Reagan	4254
McPherson	Brunson No. 1 "E" Stucky	33-20-3W SW NW SE	1456	4345	-2889	quartzite	Reagan	4352
Rice	Bay No. 3 Keesling	3-20-9W S2 NE SW	1686	3680	-1994	granite wash	Reagan	3744
Do	Continental No. 3 Peterson	10-20-9W SE SW SE	1691	3965	-2274	granite wash	Arbuckle	4032
Do	Gulf No. 1 Morse	15-20-9W NW NW SE	1696	3915	-2219	85 ft. arkose on quartzite	Reagan	4103
Do	Mid-Continent No. 9 Hartle	15-20-9W NE SW NW	1709	3810	-2101	quartzite	Reagan	3905
Do	Mid-Continent No. 2 Wood	4-20-10W NW NE NE	1792	3920	-2128	schist	Reagan	3968
Do	Tatlock No. 9 Drews	5-20-10W SE NE SW	1808	3906	-2098	schist	Reagan	3918
Do	Tatlock No. 8 Berscheit	6-20-10W NE SW NW	1772	3803	-2031	granite wash	Reagan	3821

Wells Drilled Into Precambrian Rock in Kansas

Rice	Tatlock No. 14 Berscheit	6-20-10W SW SW NW	1772	3794	-2022	18 ft. granite wash on granite	Reagan	3819
Do	Tatlock No. 4 "A" Berscheit	6-20-10W NE SW SW	1782	3796	-2014	schist	Reagan	3806
Do	NCRA No. 3 Berscheit	18-20-10W SE SE SW	1743	3879	-2136	granite	Arbuckle	3880
Do	Vickers No. 4 "A" Rose	20-20-10W CSL NE SW	1740	3917	-2177	granite	Reagan	3918
Do	Sinclair Prairie No. 4 Thompson	21-20-10W NW SE NW	1795	3940	-2145	granite wash	Arbuckle	3974
Do	Texas No. 5 West	21-20-10W SE NW NW	1794	3958	-2164	granite	Arbuckle	3960
Barton	Magnolia No. 6 Steckel	1-20-11W NE SE NW	1762	3775	-2013	granite wash on red schist	Arbuckle	3830
Do	Magnolia No. 8 Steckel	1-20-11W NE SW NW	1764	3806	-2042	schist	Arbuckle	3813
Do	Stanolind No. 1 Dick	2-20-11W SE SE SW	1760	3880	-2120	granite wash	Arbuckle	3892
Do	Stanolind No. 11 "B" Panning	2-20-11W SE SE NE	1766	3849	-2083	granite wash	Arbuckle	3850
Do	Stanolind No. 11 "A" Panning	2-20-11W S2 S2 SE	1765	3844	-2079	granite wash	Reagan	3850
Do	Texas No. 2 Koch	7-20-11W E2 SW SW	1783	3920	-2137	granite wash	Arbuckle	3927
Do	Stanolind No. 9 Panning	10-20-11W CEL NE	1763	3920	-2157	granite	Arbuckle	3922
Do	Stanolind No. 4 Kowalsky	11-20-11W SW SW NE	1758	3880?	-2122?	granite wash?	Reagan	3882
Do	Stanolind No. 12 Kowalsky	11-20-11W CSL N2 NE	1765	3868	-2103	granite wash	Reagan	3872

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Barton	Stanolind No. 1 Stuckemann	11-20-11W NE NE SW	1756	3863	-2107	granite wash?	Arbuckle	3866
Do	Gulf No. 5 Nicholas	12-20-11W N2 S2 NW	1765	3845	-2080	schist	Reagan	3865
Do	Derby and Franco Central (Skelly and Falcon-Seaboard) No. 1 Burchart	14-20-11W N2 SE NE	1755	3814	-2059	granite wash	Arbuckle	3815
Do	Henderson No. 3 Scheufler	16-20-11W E2 E2 SW	1766	3883	-2117	35 ft. granite wash on granite	Reagan	3920
Do	Virginia (Broderick & Gordon), No. 3 Selle	17-20-11W N2 NE SW	1783	3765	-1982	6 ft. granite wash on granite	Arbuckle	3771
Do	Bridgeport No. 8 Kowalsky	18-20-11W SW SE NE	1781	3819	-2038	granite	Arbuckle	3823
Do	Gulf No. 4 Sessler	24-20-11W CNL SW	1751	3798	-2047	weathered diorite on basalt	Reagan	3812
Do	Lario and Atlantic No. 5 Peter	24-20-11W SE NE NW	1753	3744	-1991	granite	Arbuckle	3745
Do	Continental No. 5 Scheufler	24-20-12W NE NE NW	1813	3815	-2002	granite	Arbuckle	3820
Do	NCRA (Armer) No. 2 Bryant	27-20-12W NW NW SW	1833	3918	-2085	granite wash	Arbuckle	3940
Do	Alpine No. 1 Spacil	28-20-12W NE NE NE	1842	3974	-2132	granite wash	Arbuckle	3994
Do	Kewanee No. 5 Langrehr	34-20-12W SE SE NE	1843	4012	-2169	granite wash	Reagan	4041

Wells Drilled Into Precambrian Rock in Kansas

Barton	Adair No. 6 Lanterman	34-20-12W SW SW SE	1839	3981	-2142	granite wash	Arbuckle	3985
Do	Everett-Wiley No. 1 Ward	12-20-13W NW NW SW	1853	3903	-2050	hornblende granite	Arbuckle	3940
Do	Schermerhorn No. 3 Weathers	27-20-13W NW SW NW	1883	3548	-1665	quartzite	Arbuckle	3551
Do	Schermerhorn No. 1 Jackson	28-20-13W SE SE NE	1886	3625	-1739	granite	Pennsylvanian	3632
Do	Schermerhorn No. 3 Jackson	28-20-13W SW SW NE	1888	3599	-1711	granite	Pennsylvanian	3600
Do	Branine No. 1 McGreevy	29-20-13W NW NW SW	1896	3406	-1510	granite	Lansing- Kansas City	3408
Do	Graybol No. 1 McGreevy	29-20-13W NE NW SW	1898	3474	-1576	granite	Pennsylvanian	3473
Do	Graybol No. 2 Murphy	29-20-13W NW SE NW	1894	3413	-1519	granite	Lansing- Kansas City	3420
Do	Graybol No. 3 Murphy	29-20-13W SE SW NW	1897	3411	-1514	5 ft. granite wash on granite	Lansing- Kansas City	3417
Do	Graybol No. 5 Murphy	29-20-13W SW NE NW	1889	3416	-1527	granite	Lansing- Kansas City	3419
Do	Graybol No. 6 Murphy	29-20-14W NE SE NW	1895	3514	-1619	5 ft. granite wash on granite	Lansing- Kansas City	3520
Do	Graybol No. 7 Murphy	29-20-13W SW SW NW	1898	3424	-1526	2 ft. granite wash on granite	Lansing- Kansas City	3427
Do	Frontier No. 1 Woodburn	29-20-13W NW SW SW	1900	3458	-1558	granite	Pennsylvanian	3462
Do	Frontier No. 1 McGreevy	30-20-13W SW SE SE	1902	3375	-1473	granite	Lansing- Kansas City	3381
Do	Frontier No. 2 McGreevy	30-20-13W C SE SE	1899	3362	-1463	granite	Lansing- Kansas City	3365

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Barton	Frontier No. 3 McGreevy	30-20-13W NE SE SE	1899	3358	-1459	granite	Lansing-Kansas City	3360
Do	Frontier No. 4 McGreevy	30-20-13W E2 E2 SE	1898	3433	-1535	11 ft. granite wash on granite	Lansing-Kansas City	3448
Do	Phillips (Texas) No. 3 McGreevy	30-20-13W SW SW SE	1898	3422	-1524	felsite porphyry	Lansing-Kansas City	3436
Do	Texas No. 4 McGreevy	30-20-13W SE SW SE	1898	3405	-1507	granite	Pennsylvanian	3410
Do	Branine No. 1 Murphy	30-20-13W NE SE NE	1895	3624	-1729	granite	Arbuckle	3626
Do	Phillips No. 1 Titus	30-20-13W SE SE SW	1897	3425	-1528	granite wash on felsite	Lansing-Kansas City	3438
Do	Atlantic No. 1 Asher	31-20-13W C NE NW	1899	3301	-1402	felsite porphyry	Lansing-Kansas City	3304
Do	Graham No. 1 Hiss	31-20-13W NW NW NE	1901	3314	-1413	granite	Lansing-Kansas City	3315
Do	Armer (Atlantic, Simpson, Noble), No. 1 Hiss	31-20-13W C NW NE	1905	3404	-1499	rhyolite?	Lansing-Kansas City	3416
Do	Simpson & Noble No. 1 Asher	31-20-13W NE SE NW	1910	3615	-1705	rhyolite porphyry	Lansing-Kansas City	3647
Do	Graham No. 3 Hiss	31-20-13W NE NW NE	1907	3419	-1512	granite	Lansing-Kansas City	3425
Do	Vickers No. 1 Benjamin	31-20-14W SW SW SW	1925	3641	-1716	felsite	Arbuckle	3655
Do	Phillips No. 1 Spani	36-20-14W NE NW NE	1900	3325	-1425	felsite	Lansing-Kansas City	3327

Wells Drilled Into Precambrian Rock in Kansas

Barton	Phillips No. 2 Spani	36-20-14W SW SW NE	1905	3454	-1549	granite	Pennsylvanian	3456
Do	Phillips No. 3 Spani	36-20-14W SW NE NE	1905	3694	-1789	granite wash	Arbuckle	3724
Do	Phillips No. 4 Spani	36-20-14W N2 SW NE	1909	3415	-1506	granite	Lansing- Kansas City	3420
Do	Phillips No. 5 Spani	36-20-14W SW NW NE	1912	3435	-1523	17 ft. granite wash on granite	Lansing- Kansas City	3453
Do	Phillips No. 1 Weathers	36-20-14W NE SE NW	1905	3445	-1540	weathered granite	Pennsylvanian	3471
Do	Phillips No. 3 Weathers	36-20-14W S2 SE NW	1901	3422	-1521	6 ft. granite wash on granite	Lansing- Kansas City	3430
Do	Cohen No. 1 Wright	36-20-14W NE NE SW	1908	3445	-1537	felsite porphyry	Pennsylvanian	3486
Do	Cohen No. 3 Wright	36-20-14W SW NE SW	1903	3530	-1627	granite	Pennsylvanian	3533
Pawnee	Mid-Continent No. 4 Smith	13-20-16W CEL NE SE	2064	4351	-2287	granite	Reagan	4352
Do	NCRA and Sterling No. 1 Russell	1-20-20W NW NW NW	2266	4629	-2363	red granite	Arbuckle	4639
Do	Republic Natural No. 1 Harms-Spruill	15-20-20W NE SW SW	2218	4480	-2262	rhyolite	Viola	4506
Do	Rine No. 1 Draper	22-20-20W NE NW NW	2215	4474	-2259	rhyolite	Viola	4481
McPherson	Sinclair No. 8 Morehouse	4-21-3W SE NW NE	1451	4339	-2888	arkose	Reagan	4430
Do	Sinclair No. 12 Morehouse	4-21-3W S2 N2 NE	1457	3953	-2496	arkose	Reagan	4450
Stafford	Cooper No. 1 Sifer	23-21-11W NW SW NE	1734	4114	-2380	granite	Reagan	4165

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Stafford	Virginia No. 5 Taylor	22-21-12W E2 E2 NE	1850	4097	-2247	granite wash	Arbuckle	4098
Do	Virginia (Keyes) No. 1 Ahlgrim	29-21-12W S2 NW NE	1860	4070	-2210	granite wash	Arbuckle	4074
Pawnee	Continental No. 1 Chennell	1-21-15W SW NE NW	1980	3821	-1891	mafic rock	Arbuckle	3856
Do	Adair No. 1 English	1-21-15W NE NE SW	1941	3750	-1809	rhyolite	Arbuckle	3767
Do	Vickers No. 1 English	1-21-15W NE SE NW	1920	3558	-1638	granite wash	Pennsylvanian	3622
Do	Inland No. 1 English	1-21-15W SW NW SW	1946	3700	-1754	felsite	Arbuckle	3714
Do	C & G and Houston No. 1 Weathers	1-21-15W SW NW NE	1941	3567	-1626	granite wash	Simpson	3573
Do	Gulf No. 3 Gross	6-21-15W SW NE NW	1977	4399	-2422	felsite porphyry	Arbuckle	4415
Do	Rocket No. 1 Osbourn-Krouch	33-21-16W SE NW SE	1993	4455	-2462	granite	Arbuckle	4457
Do	Gulf No. 1 Bell	34-21-16W E2 NE NE	1983	4577	-2594	6 ft. granite wash on granite	Reagan	4584
Do	Cities Service No. 1 Evans	18-21-17W NE SE SW	2081	4011	-1930	granite wash	Pennsylvanian	4038
Do	Honaker No. 1 Jordan	19-21-17W NE NE NE	2063	4022	-1959	14 ft. granite wash on granite	Pennsylvanian	4043
Do	Amerada No. 1 Welch	30-21-17W C SE SE	2041	4195	-2154	granite	Reagan	4228

Pawnee	Anschutz No. 1 Browne	10-21-18W NW NW SE	2092	4000	-1908	23 ft. granite wash on granite	Arbuckle	4026
Do	Musgrove No. 1 Lucas	13-21-18W NE NE NE	2097	4027	-1930	26 ft. granite wash on granite	Pennsylvanian	4055
Hodgeman	Pickrell No. 3 Selfridge	8-21-22W C SE SE	2261	4603	-2342	rhyolite porphyry	Viola	4612
Do	Glass No. 1 "B" Wieland	16-21-22W NW SW SE	2273	4603	-2330	granite	Viola	4627
Do	Colorado No. 1 Antrim	18-21-22W C SE NW	2294	4653	-2359	altered porphyritic rhyolite**	Viola	4664
Kearny	Stanolind No. 1 Judd	15-21-38W C SE SE	3347	6050	-2703	weathered granite	Arbuckle	6071
Harvey	Continental No. 1 Westerman	5-22-1W NW NW NW	1462	4074	-2612	quartzite	Reagan	4078
Do	Sinclair Prairie No. 2 "A" Neufeldt	18-22-3W CEL SE	1435	4325	-2890	weathered granite	Reagan	4365
Reno	Westgate-Greenland No. 2 "B" Hagerty	36-22-5W SE SE NW	1560	4586	-3026	granite wash	Arbuckle	4605
Stafford	Stanolind No. 6 "A" Stefkes	3-22-12W NE NE NE	1840	4273	-2433	granite wash	Arbuckle	4284
Do	Phillips No. 1 Bordewick	1-22-14W S2 SE NE	1918	4384	-2466	24 ft. granite wash on granite	Reagan	4421
Pawnee	Stanolind No. 1 McCambridge	20-22-19W SW SW SW	2150	5273	-3123	quartzite	Arbuckle	5364
Do	Ash No. 1 "A" Smith	4-22-20W NW NW SE	2168	4534	-2366	granite	Simpson	4544
Reno	Barnsdall No. 1 "C" Sabin	11-23-4W NW NW SE	1493	4425	-2932	granite wash	Reagan	4517
Do	Olson and Shell No. 4 Downie	14-23-4W NW NW NE	1491	4500	-3009	granite	Arbuckle	4572

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Reno	Olson and Shell No. 7 Blake	23-23-4W NE NE SW	1468	4480	-3012	granite wash	Reagan	4709
Do	S & K No. 10 Blake	23-23-4W SW NW SE	1468	4460	-2992	granite wash	Arbuckle	5008
Do	Kahan No. 6 "A" Base	26-23-4W NW NW SE	1466	4487	-3021	granite wash	Reagan	4550
Do	Olsen and Shell No. 5 "A" Goering	26-23-4W NE NE SW	1467	4495	-3028	granite wash	Reagan	4497
Do	Sinclair Prairie No. 6 Base	26-23-4W NW NW SE	1466	4485	-3019	granite	Reagan	4492
Do	Republic Natural No. 4 Snowbarger	21-23-10W SW NW NE	1779	4623	-2844	granite	Reagan	4630
Stafford	Phillips No. 3 Gilbert	7-23-11W SW SE NW	1823	4405	-2582	granite wash	Arbuckle	4410
Pawnee	Armer No. 5 Garvin	30-23-15W NE SE SW	2051	3986	-1935	rhyolite	Simpson	3991
Do	Stanolind No. 1 "B" Riley	30-23-15W SW NE SW	2054	4073	-2019	rhyolite	Arbuckle	4079
Do	Cities Service No. 2 "B" Becker	32-23-15W SW NE NW	2035	3915	-1880	rhyolite	Simpson	3938
Do	Cities Service No. 5 "B" Becker	32-23-15W NE SW NW	2041	3928	-1887	rhyolite	Simpson?	3930
Reno	Gulf No. 2 Meyers	3-24-4W NW SE NW	1471	4520	-3049	arkose	Reagan	4756
Do	Sinclair Prairie No. 1 Carmichael	15-24-4W C NE NW	1466	4580	-3114	granite	Reagan	4595

Wells Drilled Into Precambrian Rock in Kansas

Renó	Barnsdall (Houston) No. 3 Mount	20-24-4W NW SW NE	1471	4580	-3109	weathered granite	Arbuckle	4600
Stafford	Sinclair No. 5 McComb	24-24-11W SW NW NW	1799	4714	-2915	granite	Reagan	4723
Do	Stanolind (Hall-Kessler) No. 2 O'Connor	14-24-12W CEL NE NW	1865	4735	-2870	granite?	Reagan	4740
Do	Atlantic No. 1 Pound	27-24-13W NE NW NE	1927	4610	-2683	felsite porphyry*	Arbuckle	4612
Do	Phillips No. 1 Effie	36-24-13W NE NE NW	1914	4754	-2840	quartzite	Arbuckle	4757
Do	Natural Gas & Oil No. 1 Howell	36-24-14W NW NE SW	1954	4736	-2782	syenite	Arbuckle	4752
Do	Wilkinson (Vickers) No. 1 Nagel	10-24-15W SE SE NE	2027	4095	-2068	syenite	Arbuckle	4097
Edwards	Cohen No. 1 Bright	1-24-16W NW NW SW	2054	3960	-1906	felsite	Marmaton	3983
Do	Cohen No. 1 Reaves	1-24-16W SW SW NW	2049	3974	-1925	granite wash	Marmaton	4000
Do	Atlantic No. 1 Bradbridge	1-24-16W C SE NW	2055	4458	-2403	rhyolite	Arbuckle	4500
Do	Cohen No. 3 Klein	2-24-16W NE NE SE	2054	4011	-1957	granite	Simpson	4016
Do	Cohen No. 1 Klein	2-24-16W SW NE SE	2052	3941	-1889	hornblende granite	Marmaton	3942
Do	Cohen No. 2 Klein	2-24-16W SE NE SE	2052	3946	-1894	granite	Marmaton	3960
Do	Natural Gas & Oil No. 1 Enlow	9-24-16W SE NE NW	2076	4282	-2206	2 ft. granite wash on granite	Simpson	4294
Do	Natural Gas & Oil No. 2 Enlow	9-24-16W NE SE NW	2076	4252	-2176	granite	Viola	4265

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Hodgeman	Armer & Koplín No. 4 Schraeder	3-24-24W SE NW NW	2481	5217	-2736	rhyolite porphyry	Arbuckle	5234
Stafford	Continental No. 4 Russell	13-25-13W NW SW NE	1918	4090	-2172	gray and red-brown quartz-lattice porphyry**	Arbuckle	4103
Do	Continental No. 1 Boland	13-25-13W NE NE SW	1913	4683?	-2770?	granite	Reagan?	4690
Sedgwick	Wentz No. 1 Bright	1-26-1W SE NE NW	1345	4183	-2838	garnetiferous mica schist, with knots of biotite	Reagan	4274
Do	Gulf and Continental No. 7 Wright	12-26-1W NW NE SE	1341	4190	-2849	schist	Reagan	4310
Do	Cities Service No. 2 Adamson	12-26-1W SE SW NW	1343	4148	-2805	16 ft. granite wash on granite	Reagan	4178
Do	Cities Service (Prunty) No. 1 Wright	12-26-1W CEL NE SW	1344	4235	-2891	schist	Reagan	4243
Do	Bu-Vi-Bar No. 1 Hudson	12-26-1W SE SW NE	1334	4165	-2831	gray mica schist	Reagan	4192
Pratt	Mid-Continent No. 3 Knop	25-26-13W SW SW NE	1929	5007	-3078	granite	Reagan	5041
Do	Deep Rock No. 9"C" Calbeck	33-26-13W C NE	1951	5158	-3207	granite	Reagan	5170
Do	Champlin No. 2"C" Moore	11-26-14W NW NW SW	1990	5200	-3210	granite	Reagan	5208
Sedgwick	Lauck No. 1 McLean	1-27-1W SW SW SE	1316	4369	-3053	quartzite with 2 granite sills	Reagan	4703

Kingman	Skelly No. 1 "A" Miles	30-27-10W NE NE NE	1675	4980	-3255	chloritized granite**	Reagan	4951
Sedgwick	Frontier Chemical No. 1 Frontier Chemical	27-28-1W SE NW SW	1312	4730	-3418	6 ft. granite wash on granite	Arbuckle	4741
Sumner	Champlin No. 1 Stevens	9-30-1W SE SW SE	1278	4924	-3646	quartzite	Reagan	5307
Kingman	Phillips No. 1 Rago	15-30-7W NW NW NW	1442	5468	-4026	pink granite	Reagan	5493
Barber	Shaw No. 1 McReynolds	29-31-10W NW NE SW	1679	5880	-4201	pink granite	Reagan	5910
Stevens	Hugoton No. 2-12 Panama	12-31-38W NE NW SE	3138	7595	-4457	weathered granite	Arbuckle	7617
Barber	Barbara No. 1 Boggs	19-33-12W C SW NW	1535	6130	-4595	50 ft. schist on granite	Reagan	6185
Washington	Gulf No. 1 Baker	1-1-2E NW SE SE	1522	3141	-1619	11 ft. granite wash on granite	Arbuckle	3153
Marshall	Davon No. 1 Schaeffer	20-1-6E NW NW SW	1257	2699	-1442	13 ft. granite wash on granite	Simpson	2715
Do	H & L No. 1 Ringen	19-1-9E NE NE NW	1400	2110	- 710	5 ft. granite wash on granite	Simpson	2116
Brown	Cobb No. 1 Butterfield	8-1-15E SE SE NE	1202	4016	-2814	granite	Lamotte	4020
Washington	Westfield No. 1 Canfield	16-2-1E SW SW NW	1421	3400	-1979	granite wash and red arkose	Arbuckle	4085
Marshall	H & L No. 1 Kramme	21-2-8E SE SE NE	1348	2370	-1022	granite wash	Simpson	3007
Do	Droge No. 1 Suggett	34-2-8E NW SW NW	1325	1710	- 385	arkose	Simpson	2373
Do	Vermillion No. 1 Fitzgerald	20-2-9E NW SW SE	1259	1270	- 11	metamorphics	Marmaton?	1271

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Marshall	Vermillion No. 1 Beatty (Harry)	29-2-9E NW SE SE	1252	1420	- 168	red granite, and dark granite	Marmaton?	3000
Nemaha	?	33-2-12E SW NE NE	1174	586	+588	"crystalline limestone"	Pennsylvanian	746
Do	Texas No. 1 Murdock	16-2-13E SE SE SW	1292	790	+502	48 ft. of arkose on granite	Marmaton	846
Do	Ohio No. 1 Lamparter	3-2-14E C NE SW	1326	3940	-2614	granite	Lamotte	3948
Do	Carter No. 1 Strahm	13-2-14E NW SW NW	1254	3929	-2675	granite	Lamotte	3930
Do	Carter No. 2 Koch-Ransom	28-2-14E NE NE SE	1289	3949	-2660	granite	Lamotte	3968
Washington	Rex & Morris No. 1 Kohlmeier	9-3-3E SW SW SE	1390	2954	-1564	weathered peridotite	Simpson	2980
Do	Rex & Morris No. 1 Beikman	30-3-3E C SW NW	1416	3036	-1620	weathered peridotite	Simpson	3057
Do	Elder-Ward No. 1 Stamm	3-3-4E SW SW SW	1429	3045	-1616	metamorphics	Simpson	3400
Marshall	Falcon-Seaboard No. 1 Randell	22-3-7E NW NE SW	1318	2255	- 937	40 ft. granite wash on granite	Simpson	2322
Do	Shar-Alan No. 1 Olson	15-3-10E NW NW NW	1290	924	+366	granite	Pennsylvanian?	947
Nemaha	Nemaha No. 1 Seneca	19-3-11E NW NW NW	1218	705	+513	granite	Lansing-Kansas City	3256
Do	Carter No. 1 Hutflies	25-3-13E NW NW SW	1302	2972	-1670	red granite	Simpson	2976

Wells Drilled Into Precambrian Rock in Kansas

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Nemaha	Davon No. 1 Swart	26-3-13E NW NW NW	1284	2438	-1154	red granite	Simpson	2454
Washington	Kewanee No. 1 Carlson	25-4-1E C NW NW	1392	3024	-1632	granite wash	Lamotte	3038
Marshall	Marshall No. 1 Finn	4-4-7E NW NE NE	1328	2245	- 917	metamorphics	Simpson	3935
Do	Johnson No. 1 Brown	21-4-7E NE NE SW	1132	2000	- 868	mica schist	Simpson	2063
Do	Shawver-Armour No. 1 Sedlacek	31-4-8E SE SE NE	1290	1920	- 630	arkose	Simpson	2264
Do	Cities Service No. 1 Christner	7-4-9E NW NW SE	1216	1418	- 202	granite	Simpson	1426
Do	Swicker & Sincox No. 1 Dowruple	22-4-9E CNL NW	1153	1223	- 70	granite	Simpson	1245
Do	Wood No. 2 Shearer	29-4-9E NW NW NW	1134	1349	- 215	11 ft. granite wash on granite	Simpson	1365
Do	Kansas No. 1 Fisher	9-4-10E NE SW SW	1239	1110	+129	red granite	Simpson	1117
Do	Kansas No. 1 Brosa	16-4-10E SW SW SE	1250	1065	+185	red granite	Simpson	1067
Nemaha	Wood No. 1 Bailey	34-4-13E NW NW NE	1296	3918	-2622	granite	Arbuckle	3933
Washington	Kewanee No. 1 Strawberry	2-5-1E NW NW NW	1390	3096	-1706	weathered granodiorite	Lamotte	3179
Do	Kewanee No. 1 Sherman	13-5-3E SW SW NE	1389	3140	-1751	weathered granodiorite	Simpson	3264
Marshall	Ohio No. 1 Osterkamp	27-5-6E SW SW NE	1378	2530	-1152	26 ft. granite wash on granite	Simpson	2565
Do	Falcon-Seaboard No. 1 Blaney	3-5-7E NE SW SW	1270	2420	-1150	clastics	Simpson	2571

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Marshall	Shawver-Armour No. 1 Weakley	26-5-7E NW NW NE	1303	2014	- 711	clastics	Simpson	2032
Do	Ohio No. 1 Kratchovil	30-5-7E SE SE SW	1407	2496	-1089	schist	Simpson	2526
Do	Shawver-Armour No. 1 Flanigan	33-5-9E SE SE NE	1344	1662	- 318	granite wash	Simpson	1665
Nemaha	Wood No. 1 Griffiths	23-5-13E SE NE NE	1342	3971	-2629	pink granite	Lamotte	3979
Clay	Dieter No. 1 Lippert	28-6-4E SW NE NE	1241	2803	-1562	24 ft. schist on granite dike	Simpson	2829
Pottawatomie	Shawver-Armour No. 1 Budenbender	10-6-8E SE SE NE	1374	1991	- 617	granite	Simpson	1995
Do	Tri-State No. 1 Pierce	23-6-9E C NW NW	1493	1770	- 277	granite	Simpson	1773
Do	Wood No. 1 Meehan	25-6-9E NW NW SW	1491	1753	- 262	granite	Simpson	1754
Do	Malzhan No. 1 Shearer	33-6-9E NW NW NE	1484	1910	- 426	quartzite and schist*	Simpson	1911
Do	Empire No. 1 Rokas	34-6-11E SW SW NW	1171	906	+265	granite	Pennsylvanian	1735
Clay	Kewanee No. 1 Bloom	14-7-2E NW NW SE	1224	3207	-1983	granite wash	Arbuckle	3250
Do	El Capitan No. 1 Crawford	1-7-3E SE SE SW	1411	3162	-1751	diabase*	Arbuckle	3255
Riley	Gypsy No. 1 Droll	2-7-5E SE SW NW	1127	2365	-1238	20 ft. granite wash on granite	Simpson	2520

Riley	Brack No. 1 Erickson	15-7-5E NE NE NW	1345	2550	-1205	granite?	Simpson	2561
Pottawatomie	Vickers No. 1 Lutz	10-7-7E NW NW NE	1264	2238	- 974	40 ft. arkose on granite	Simpson	2284
Do	Shawver-Armour No. 1 Stelter	4-7-8E C SW SW	1427	2038	- 611	granite wash	Simpson	2040
Do	Hawley No. 1 Pendegast	8-7-9E SE SW SE	1460	1824	- 364	granite wash	Lamotte	1825
Do	Shell No. 12-5 Corehole	12-7-9E NE NE SW	1305	1705	- 400	granite	Simpson	1709
Do	Shell No. 12-4 Corehole	1-7-10E NE SE SE	1365	1449	- 84	chloritized granite gneiss**	Simpson	1463
Do	Shell No. 12-6 Corehole	4-7-10E SW SE SW	1475	1715	- 240	chloritized granite gneiss**	Simpson	1716
Do	Kirk and Vickers No. 1 Kelly	25-7-10E C NW SE	1173	1406	- 233	granite?	Simpson	1408
Do	Shell No. 12-2 Corehole	29-7-10E NE NE NE	1395	1707	- 312	granite	Simpson	1709
Do	Vickers No. 1 Hartwick	19-7-11E NW NW SW	1268	1434	- 166	granite	Simpson	1440
Do	Daniels No. 1 Handley	6-7-12E C NE NE	1266	3014	-1748	granite	Simpson	3017
Atchison	Indian Mound No. 1 Oak Mills	13-7-21E NE NE NE	795	2850	-2055	"gneissic granite"	Lamotte	3085
Leavenworth	Callison & McHenry No. 1 Kirk	35-7-22E SE SW NE	777	2745	-1968	granite	Lamotte	2850†
Riley	Arkansas Fuel No. 1 Martin	24-8-4E SE NE SW	1336	2727	-1391	"dark greenish gray schist or gabbro," granite last 5 ft.	Simpson	2942

†Courts ruled well located in Platte County, Missouri, C SW SE Sec. 15-53N-36W.

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Riley	Veeder No. 1 Gravenstein	21-8-6E NW NW NW	1258	2676?	-1418?	weathered granite and quartzite?	Simpson	2702
Pottawatomie	Adair No. 1 Stoffer	1-8-7E NE NE SW	1296	2289	- 993	granite	Simpson	2300
Do	Coronada No. 1 Welter	36-8-8E SW SW SW	1240	2113	- 873	granite?	Simpson	2119
Do	Gulf No. 1 Ewing	6-8-9E SW SW SW	1220	1948	- 728	pink granite	Simpson	1953
Do	Turner No. 1 Umscheid	32-8-9E C NE SW	1111	1980	- 869	granite	Simpson	1985
Do	Shell No. 12-3 Corehole	1-8-10E SW SE SE	1125	2003	- 878	chloritized granite gneiss**	Simpson	2006
Do	Shell No. 12-1 Corehole	7-8-10E NW NW NE	1423	1878	- 455	granite	Simpson	1881
Do	Vickers No. 1 Bairrow	26-8-10E SW NW SE	1180	1837	- 657	granite	Simpson	1846
Do	Anderson-Prichard No. 1 McFarland	14-8-11E NE NE SE	1296	3486	-2190	granite	Simpson	3495
Do	Carter No. 1 Browning	8-8-12E SE SE NW	1224	3613	-2389	granite wash	Simpson	3624
Do	Ajax and Continental No. 1 Miller	22-8-12E NW NW SW	1154	3480	-2326	quartzite	Simpson	3490
Do	Wood No. 1 Johnson	29-8-12E NE NW SW	1128	3457	-2329	granite	Simpson	3470

Jackson	Rocket No. 1 Brees	31-8-13E C NE NE	1142	3370	-2228	arkose	Lamotte	3402
Riley	Salina No. 1 Lewellen	11-9-4E NE NE NE	1294	2813	-1519	granite	Simpson	2821
Do	Empire No. 1 Woodbury	14-9-4E SW SW NE	1216	2760	-1544	granite	Simpson	2804
Clay	Nelson No. 1 Yarrow	29-9-4E SW SW SW	1142	2662	-1520	metamorphics?	Simpson	2876
Do	Derby No. 1 Gaston	33-9-4E SW SW NE	1140	2710	-1570	granite wash	Lamotte	2795
Pottawatomie	Kaiser-Francis No. 1 Roesener	14-9-8E SE SW SW	1314	2303	- 989	granite wash	Simpson	2306
Do	Gearhart-Canaday No. 1 Eikenhorst	16-9-8E NW NW NW	1216	2205	- 989	granite	Simpson	2212
Do	Allman No. 1 Friedrich	20-9-8E NW NW NW	1204	2299	-1095	granite	Simpson	2305
Do	Francis-Kaiser No. 1 Unterberger	24-9-8E SE SE SE	1239	2153	- 914	granite	Simpson	2161
Do	Francis-Kaiser No. 1 Glenn	35-9-8E SW SW SW	1108	1998	- 890	granite	Simpson	2006
Do	Francis-Kaiser No. 1 Woodard	36-9-8E SE SE SE	1178	2087	- 909	granite	Simpson	2095
Do	La Shelle No. 1 Umscheid	16-9-9E C NW NW	1083	2065	- 982	quartzite*	Simpson	2075
Do	Lincoln No. 1 Umscheid	16-9-9E SE SW NW	1087	1954	- 867	granite?	Simpson	1964
Do	Tennessee No. 1 Burgess	24-9-9E SW SW NW	1036	1818	- 782	granite	Simpson	1822
Do	Francis-Kaiser No. 1 Dekat	29-9-9E SE SE SE	1178	2036	- 858	granite	Simpson	2043

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Pottawatomie	Crawford No. 1 Hooper	34-9-9E NE SE NW	1111	1850	- 739	granite	Simpson	2225
Do	Tennessee No. 1 Mansfield	19-9-10E NW NW NE	1019	1723	- 704	granite	Simpson	1724
Do	Tennessee No. 1 Riat	30-9-10E N2 SW SE	1078	1773	- 695	granite	Simpson	1779
Do	Caddo No. 1 Ebel	32-9-10E NE NE NE	1078	1707	- 629	granite	Simpson	1715
Do	Weller & Bush No. 1 Brunner	36-9-10E NE NE NE	973	2985	-2012	biotite granite	Simpson	2995
Do	Morrison No. 1 Ault	5-9-11E SE SE SE	1077	2974	-1897	3 ft. granite wash on granite	Arbuckle	2980
Do	Siegel No. 1 Rezac	7-9-12E SW SW SW	1257	3605	-2348	granite	Lamotte	3607
Jefferson	Northern No. 1 Winchester	13-9-19E NE NW NW	1073	3085	-2012	granodiorite	Arbuckle	3615
Clay	Kewance No. 1 Clay	27-10-3E NW NW NE	1286	3030	-1744	granodiorite	Arbuckle	3079
Riley	Heeley No. 1 Thierer	20-10-7E NW NE NW	1264	2420	-1156	granite	Simpson	2965
Do	Rupp-Ferguson No. 1 Miller	22-10-7E C SE SE	1036	2168	-1132	weathered granite	Simpson	2185
Do	Coronado No. 1 Parks	16-10-8E SE SE SE	1006	1983	- 977	granite	Simpson	1989
Do	Bedell No. 1 Schepp	35-10-8E SE SE SE	1183	2201	-1018	granite	Simpson	2208

Wells Drilled Into Precambrian Rock in Kansas

Pottawatomie	Bedell	2-10-9E	1219	1291	- 72	quartzite	Cherokee	1296
	No. 1 Gerhardt	NE NE SW						
Wabaunsee	Parker	26-10-9E	1015	958	+ 57	gray granite	Lansing-	1093
	No. 2 Bardwell	SW SW NW					Kansas City	
Riley	Bloom	28-10-9E	1050	928	+122	granite	Pennsylvanian?	1020
	No. 1 Zeandale	NW NW SW						
Do	Bloom	28-10-9E	1050	942	+108	granite	Pennsylvanian?	1020
	No. 2 Zeandale	NW NE NE						
Do	Parker	28-10-9E	1100	945	+155	granite	Lansing-	1080
	No. 1 Bardwell	NW NW NW					Kansas City	
Pottawatomie	Johnston	6-10-10E	1125	1170	- 45	granite	Cherokee?	1176
	Olson	NE NW NE						
Wabaunsee	Amerada	32-10-10E	1056	1698	- 642	pink granite	Arbuckle	1720
	No. 1 Bolton	SW SW SE						
Do	Amerada	33-10-10E	1067	2690	-1623	red granite	Arbuckle	2705
	No. 1 Enlow	SW SW SE						
Shawnee	Musgrove	6-10-13E	1115	3320	-2205	granite	Arbuckle	3329
	No. 1 Heiland	NW NW NW						
Leavenworth	McGreevy	24-10-22E	961	2663	-1702	29 ft. granite	Lamotte	2698
	No. 1 McGreevy	SW SW NE				wash on granite		
Geary	Wright	17-11-5E	1222	2940	-1718	arkose	Arbuckle	3240
	No. 1 Younkin	NW NW NE						
Riley	Rupp-Ferguson	3-11-7E	1150	2339	-1189	granite	Simpson	2360
	No. 1 Longren	C NE NW						
Do	Cities Service	14-11-8E	1279	2350	-1071	granite	Arbuckle	2368
	No. 1 Haylett	SW SE NE						
Do	Cities Service	25-11-8E	1308	2251	- 943	granite	Arbuckle	2266
	No. 2 Yaege	SW NW SE						
Wabaunsee	Empire	1-11-9E	1147	1180	- 33	granite, biotite	Marmaton	2000
	No. 1 Root	C NW SW				feldspar, quartz,		
						and serpentine		

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (concluded).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Riley	Johnston No. 1 Durein Estate	15-11-9E NW NW NE	1308	1329	- 21	11 ft. granite wash on granite	Cherokee	1342
Do	Cities Service No. 1 Willig	18-11-9E SW SW NE	1286	1391	- 105	17 ft. granite wash on granite	Cherokee	1423
Wabaunsee	Forrester No. 1 Jones	24-11-9E NE NE SW	1318	1535	- 217	granite	Pennsylvanian?	2300
Riley	Palmer No. 3 Smokey Ridge	28-11-9E SE SE NW	1483	2498	-1015	granite	Arbuckle	2507
Do	Cities Service No. 1 Umbehr	30-11-9E SW SW SW	1340	2363	-1023	granite	Arbuckle	2374
Wabaunsee	Cities Service No. 1 "D" Meyer	35-11-9E NE NW NE	1315	1732	- 417	granite wash	Arbuckle	1746
Do	Amerada No. 1 Willig	5-11-10E SE SE SE	1079	2475	-1396	red granite	Arbuckle	2489
Do	Amerada No. 2 Willig	5-11-10E NW NW SW	1117	1508	- 391	granitic gneiss*	Arbuckle	1523
Do	Amerada No. 1 Mertz	6-11-10E SW SW NE	1080	1224	- 144	granite	Marmaton	1234
Shawnee	Forrester No. 1 Hummer	14-11-16E SW SE NE	949	3005	-2056	granite	Arbuckle	3055
Wyandotte	Forrester No. 1 Swift	15-11-25E	747	2327	-1580	arkose	drilled in July 1889 at Swift plant	2360
Geary	Pioneer No. 1 Chase Ranch	10-12-7E SE SE SE	1412	2913	-1501	pink granite	Arbuckle	3638
Wabaunsee	Natural Gas & Oil No. 1 Whitacre	2-12-9E NE NE SE	1336	1551	- 215	granite	Cherokee	1580

Wells Drilled Into Precambrian Rock in Kansas

Shawnee	Green No. 1 Ripley	12-12-16E, NW NW NE	1016	3005	-1989	granite	Arbuckle	3320
Dickinson	Seevers No. 1 Livingood	13-13-2E SE SE NW	1139	3307	-2168	arkose	Lamotte	4900
Geary	Hetzer No. 1 Sullivant	36-13-5E NE NE NE	1345	3030	-1685	granite	Arbuckle	3042
Wabaunsee	Skelly No. 1 Thoeuwe	2-13-10E SE NW SE	1113	3280	-2167	red granite	Arbuckle	3307
Do	Williams No. 1 Henderson	15-13-12E NE SW NE	1172	3428	-2256	arkose	Arbuckle	3652
Do	Pinnade No. 1 Martin	35-13-12E NE NE NE	1334	3594?	-2260?	arkose?	Arbuckle?	3640
Johnson	Kasper No. 1 James	8-13-25E CNL NE NW	861	2273	-1412	pink granite	Arbuckle	2276
Dickinson	Marland No. 1 Engel	12-14-1E SE NW NW	1193	3420	-2227	schist	Reagan	3456
Morris	Alta Vista No. 1 Taylor	5-14-8E NE NE SW	1548	2480	- 932	granite	Arbuckle	2500
Osage	Yonker & Engers No. 1 Miles	23-14-14E NW NW NW	1224	3085	-1861	granite?	Arbuckle?	3165
Douglas	Neuner No. 1 Emmett	6-14-18E C SE NW	1077	2826	-1749	red granite	Lamotte	2832
Do	Duffens No. 1 Stanley	3-14-21E NW NE NW	931	2463	-1532	pink granite	Lamotte	2503
Johnson	Seminole No. 1 Harrington	12-14-22E NE NE SW	1026	2407	-1381	biotite granite	Lamotte	2450
Morris	Franks No. 1 Nelson	6-15-7E C SE SW	1419	2976	-1557	granite	Lamotte	2988
Do	Cosden (Echo) No. 1 Whitting	24-15-7E C SW	1392	2512	-1120	granite	Arbuckle	2553

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Lyon	Johnston No. 1 Venning	32-15-10E SW SW SE	1395	3359	-1964	quartzite	Simpson	3360
Osage	Elmhurst No. 1 Badger	4-15-16E SE NE NW	1174	2740	-1566	2 ft. granite wash on granite	Arbuckle	3015
Dickinson	Hutchinson No. 1 Daetwiler	33-16-4E NE SW SW	1385	3108	-1723	granite, possibly a sill?	Arbuckle	3114
Morris	Lincoln No. 1 Breckbill	24-16-5E NE SE SE	1472	3066	-1594	granite	Arbuckle	3069
Do	General Utilities No. 1 Heigle	11-16-7E NW NW SE	1520	2045	- 525	granite	Arbuckle?	2069
Do	Westgate-Greenland No. 1 Orphans Home	15-16-7E SE SE SE	1460	2155	- 695	quartzite	Arbuckle	2170
Do	Leslie No. 1 "A" McConnell	14-16-9E SE SE SE	1264	3132	-1868	quartzite	Simpson	3169
Do	Gruenerwald No. 1 Johnson	33-16-9E C NE SE	1238	3089	-1851	granite wash	Simpson	3103
Lyon	Bulla No. 1 Richards	6-16-10E NE NE SE	1350	3224	-1874	quartzite?	Simpson	3234
Do	Midge No. 1 Day	16-16-11E NE NE SE	1393	3111	-1718	quartzite	Simpson	3134
Osage	Orlando No. 1 Hyde	14-16-15E NE SW SE	1133	2874	-1741	pink arkose	Arbuckle	3408
Miami	Arroya No. 1 Lee	16-16-23E SW SW SW	894	2283	-1389	red arkose	Lamotte	2707
Morris	Rex & Morris No. 1 Anderson Ranch	12-17-6E NE NE NE	1458	2104	- 646	granite	Arbuckle	2135

Wells Drilled Into Precambrian Rock in Kansas

Morris	Westgate-Greenland No. 1 Meyers	23-17-7E SE SW SW	1523	2155	- 632	granite	Arbuckle	2244
Do	Stanolind No. 1 Carpenter	29-17-7E SW SE SE	1486	2140	- 654	8 ft. granite wash on granite	Arbuckle	2153
Do	Stanolind No. 1 Veal	30-17-7E NE NE SE	1442	1875	- 433	105 ft. granite wash on granite	Marmaton	2005
Do	Empire No. 1 Moffett	34-17-7E NW NW SE	1523	2525	-1002	granite	Arbuckle	2607
Lyon	White & Ellis No. 1 Kamisky	4-17-10E SE SW SW	1240	3035	-1795	schist or gneiss	Simpson	3043
Osage	Mullinett No. 1 Neill	8-17-17E SW NW NE	1014	2540	-1526	granite	Arbuckle	2738
Franklin	Sentinel No. 6 Thompson	11-17-20E C NE NE	992	2295	-1303	arkose	Lamotte	2322
Miami	? No. 1 Paola	16-17-23E City of Paola	900	2250	-1350	granite	Arbuckle?	2500
Chase	National Refinery No. 1 Southworth	5-18-6E SE SE NW	1490	2515	-1025	granite	Arbuckle	2523
Do	Federal No. 1 Whitney	15-18-6E NW NW SW	1484	2424	- 940	granite	Arbuckle	2435
Do	National Refinery No. 1 Case	19-18-6E NE NE SW	1429	2391	- 962	red granite	Reagan	2401
Do	Preston & Pasewalke No. 2 Lipps	25-18-6E SW SW SE	1416	2030	- 614	granite	Arbuckle	2093
Do	Urschel No. 1 Lipps	27-18-6E NE NE SE	1472	2285	- 813	granite	Arbuckle	2342
Do	Baker No. 1 Anderson	4-18-7E C NW NE	1440	2066	- 626	granite	Arbuckle	2652
Do	Preston & Pasewalke No. 1 Lipps	32-18-7E NE NE SW	1349	2260	- 911	pink granite	Arbuckle	2262

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	Precambrian, feet			
Chase	Mississippi Valley No. 1 Mulvane	36-18-7E SW NW NW	1419	2301	- 882	red granite	Arbuckle	2305
Lyon	Elmhurst No. 1 Mason	24-18-12E CEL SE NE	1207	3177	-1970	pink arkose	Arbuckle?	3419
Miami	Osawatomie No. 1 City Dump	12-18-22E NE NE SW	846	2085	-1239	red arkose on granite	Lamotte	2570
Marion	Anderson-Prichard No. 1 Jost	22-19-2E SW NW SW	1400	3062	-1662	quartzite	Simpson	3082
Do	Anderson-Prichard No. 1 "D" Scully	28-19-2E NW NW NE	1400	3113	-1713	quartzite	Simpson	3115
Do	Sharp No. 1 Stenzel	18-19-5E SE NW NW	1438	3163	-1725	granite	Arbuckle	3810
Do	Alter No. 1 Mokovoc	32-19-5E NE NW SW	1446	3045	-1599	granite	Arbuckle	3135
Chase	Markley No. 1 Collett	7-19-6E NE SE NW	1298	2596	-1298	granite	Lamotte	2612
Do	Kingwood No. 1 Elliston	21-19-6E NW SW SE	1428	2442	-1014	granite	Arbuckle	2465
Do	Bachus No. 1 "A" Thurston	17-19-7E SE SE NE	1306	1921	- 615	granite	Lamotte	2018
Do	Rex No. 1 Wells	19-19-7E SW SW NW	1346	1857	- 511	13 ft. granite wash on granite	Marmaton	1877
Do	Stanolind No. 1 Davis	29-19-7E NE NE SW	1328	1775	- 447	granite	Pennsylvanian?	1798
Do	Derby No. 1 Poor Farm	34-19-7E SE SW SW	1198	1705	- 507	arkose on granite	Marmaton	2501

Wells Drilled Into Precambrian Rock in Kansas

Chase	Leader No. 1 Breese	35-19-7E SW SE NE	1343	1923	- 580	granite	Marmaton	1940
Do	Elmhurst No. 1 Allen	24-19-9E SW NE SW	1236	3385	-2149	pegmatite and schist*	Lamotte	3610
Marion	Noll & Durquette No. 1 Woods-Hollarn	24-20-3E NE SE NE	1364	3385	-2021	granite	Arbuckle	3748
Chase	Prairie No. 1 McLinden	25-20-5E SE NW NW	1320	3020	-1700	granite	Lamotte	3060
Do	Martin No. 1 Winsor	2-20-6E SW SW NW	1411	2516	-1105	12 ft. granite wash on granite	Lamotte	2532
Do	Amerada No. 1 Lostutter	1-20-7E NE NE NE	1425	2810	-1385	granite	Arbuckle	2825
Do	Wichita Natural No. 1 Kaufman	2-20-7E C NW NE	1409	1830	- 421	granite	Cherokee?	3055
Do	Forrester No. 1 Prather	7-20-7E CSL SE NE	1211	1945	- 734	granite	Cherokee?	1948
Do	Stanolind No. 1 Roniger	10-20-7E SW SW NE	1389	1917	- 528	weathered granite	Cherokee	1942
Do	Aladdin No. 1 Drummond	15-20-7E SE SE SW	1479	2345	- 866	39 ft. granite wash on granite	Lamotte	2409
Do	Vickers No. 1 Nicoll	16-20-7E SW SW NW	1377	1885	- 508	granite	Cherokee?	1990
Do	Stanolind No. 1 Finley	20-20-7E SW SW NE	1316	1752	- 436	granite wash	Cherokee?	1774
Do	Strickler No. 1 Harshman	29-20-7E NE NW SE	1428	1906	- 478	granite*	Cherokee	1935
Marion	Stearns-Streeter No. 1 Neumann	26-21-1E SE SE NE	1530	3990	-2460	metamorphics	Arbuckle	4117
Do	Elmhurst No. 1 Allen	29-21-3E SW SE NE	1433	3600	-2167	granite	Arbuckle	3866

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Marion	CRA No. 24 Reamey	17-21-4E S2 NE SE	1375	3079	-1704	granite	Lamotte	3084
Do	National No. 3 Waner	17-21-4E C SE NE	1369	3070	-1701	granite	Lamotte	3173
Do	Marlowe No. 5 Sellers	21-21-4E NW NW SE	1309	3008	-1699	granite wash	Arbuckle	3012
Do	Adair No. 6 Davis	25-21-4E CSL SW SW	1380	3085	-1705	weathered granite	Reagan	3134
Do	Prairie No. 1 Jeffers	17-21-5E CEL SE SW	1345	2995	-1650	granite	Reagan?	3055
Do	Hawn No. 5 Steel	20-21-5E NW NE NE	1348	2968	-1620	red granite	Reagan	2975
Do	Reda Pump No. 1 Strait Ranch	21-21-5E C NW NW	1312	2972	-1660	granite wash	Arbuckle	2977
Do	Watchorn No. 1 Milne	7-22-4E SE NE NE	1435	3323	-1888	hornblende schist	Arbuckle	3616
Do	Phillips No. 1 Clark	15-22-4E NE NW SE	1478	3239	-1761	granite	Reagan	3247
Do	Turkey Creek No. 1 Heath	15-22-5E SW SW NE	1415	2900?	-1485?	granite	Arbuckle	3031
Chase	Phillips No. 1 Hughes	15-22-9E SW SW SE	1512	3632	-2120	granite?	Reagan	3675
Greenwood	Phillips No. 6 "S" D & A Unit	12-22-10E SW NW NW	1229	3285	-2056	schist on granite	Lamotte	3475
Do	Sinclair No. 7 Browning	20-22-10E NW SW SW	1459	3550	-2091	granite wash	Lamotte	3595

Wells Drilled Into Precambrian Rock in Kansas

Butler	Fancher No. 1 Smith	1-23-4E CSL NE SW	1464	3468	-2004	62 ft. granite wash on granite	Reagan	3540
Do	Cities Service No. 36 Lathrop	17-23-4E SE SW NW	1369	3131	-1762	granite	Reagan	3213
Do	Cities Service No. 37 Lathrop	17-23-4E N2 SE NW	1372	3099	-1727	granite	Reagan	3101
Do	CRA No. 21 North Lathrop	17-23-4E NW NE NW	1372	3061	-1689	granite	Reagan	3077
Do	Phillips No. 23 Scully	17-23-4E SW SE NE	1393	3572	-2179	granite	Reagan	3585
Do	Phillips No. 1 Scully	17-23-4E NE NW SE	1368	3073	-1705	granite	Reagan	3083
Do	Belfort and Fancher No. 1 Scott	10-23-5E NE NW SE	1507	2400	- 893	granite	Cherokee	2607
Do	Cities Service No. 1 Church	13-23-5E NW SW SE	1513	2182	- 669	granite wash	Marmaton	2574
Do	Roxana No. 1 Lilley	14-23-5E NE NE NW	1488	2312	- 824	red granite	Arbuckle	2500
Do	Adair No. 1 Methodist Church	14-23-5E E2 NE NE	1513	2236	- 723	granite wash	Marmaton	2286
Do	Adair No. 1 "B" White	15-23-5E NE NE SE	1484	2210	- 726	granite wash	Reagan	2239
Do	Adair No. 2 "B" White	15-23-5E SW SW SE	1478	2325	- 847	granite wash	Reagan	2341
Do	Adair No. 1 Lilley	15-23-5E NE NE SW	1480	2340	- 860	22 ft. granite wash on granite	Arbuckle	2424
Do	Dutton & Gillespie No. 1 Hassenthaler	16-23-5E SE SE SW	1486	2653	-1167	red granite	Arbuckle	2720
Do	McCullough and Empire No. 1 Lilley	23-23-5E SW NW NW	1465	2235	- 770	60 ft. granite wash on granite	Cherokee?	2320

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Butler	Trapp & Smith No. 1 Covey	24-23-5E NE NE SW	1498	2228	-730	granite	Arbuckle	2395
Do	Roxana No. 1 Covey	26-23-5E SE SW NW	1446	2538	-1092	granite	Arbuckle	2609
Do	Phillips No. 1 Wilson	31-23-5E NW SW SE	1464	3420	-1956	granite	Arbuckle	3442
Do	Red No. 1 "A" Wiebe	30-23-6E SW SW NW	1531	2214	-683	granite wash	Cherokee?	2235
Greenwood	Phillips No. 2 "D" Beal	21-23-11E S2 SE	1169	3115	-1946	24 ft. granite wash on granite	Lamotte	3177
Anderson	Lambert No. 1 Wiggins	13-23-17E C NE	1025	2285	-1260	granite?	Lamotte?	2303
Butler	Bedell & Catt No. 1 "B" Mellor	12-24-3E NE NW NW	1364	3465	-2101	28 ft. granite wash on granite	Reagan	3525
Do	Raymond No. 2 Classen	18-24-4E SE NE NW	1327	3526	-2199	biotite schist	Reagan	3570
Do	Rex & Morris No. 1 Arthur	6-24-5E E2 W2 NE	1474	3381	-1907	granite	Reagan	3383
Do	Ramsey No. 1 Ramsey	8-24-5E SW SW NE	1483	3315	-1832	granite wash	Reagan	3356
Greenwood	Orlando No. 1 Bretkreutz	4-24-10E SW NE SW	1374	3484	-2110	1290 ft. of schist on quartzite*	Arbuckle	4774
Woodson	Oklahoma P & R No. 1 Stevenson	5-24-14E NW NW NW	1140	2821	-1681	metamorphics	Arbuckle	3557
Allen	Oklahoma P & R Iola Deep Test	26-24-18E Town of Iola	975	2157	-1182	metamorphics (schist)	Reagan	3434

Sedgwick	Continental No. 1 Casey	15-25-1E SW SW NW	1453	4205	-2752	schist	Arbuckle	4224
Do	Continental No. 7 Goodrich	16-25-1E E2 NE SW	1435	4179	-2744	schist	Reagan	4212
Butler	White Eagle No. 1 "A" Stone	2-25-5E NE NW SW	1338	3180	-1842	granite	Reagan	3182
Do	Gypsy No. 1 Hewitt	3-25-5E NE SE SW	1356	3305	-1949	granite?	Arbuckle	3395
Do	Cities Service No. 155 Wilson	8-25-5E SW SE NW	1399	3035	-1636	granite	Arbuckle	3067
Do	Cities Service No. 292 Wilson	8-25-5E SE SE SE	1377	3077	-1700	49 ft. granite wash on granite	Reagan	3150
Do	Saco No. 11 "A" Draper	27-25-5E NE SW SW	1345	3357	-2012	granite wash	Arbuckle	3418
Do	Cities Service No. 3 Atkins	29-25-5E C SE NE	1393	3229	-1836	granite?	Arbuckle	3675
Do	Cities Service No. 1 Murray	30-25-5E C NE SE	1385	3273	-1888	granite	Arbuckle	3700
Do	Cities Service No. 1 "S" Pierpont	33-25-5E NE NW NW	1385	3076	-1691	dark basic igneous rock	Arbuckle	3096
Woodson	Wrightsman No. 1 Byers	26-25-14E NW SW SE	989	2490	-1501	felsite	Lamotte	2506
Do	Reinhart & Donovan No. 1 Eades	10-25-15E NW NE NE	1050	2590	-1540	quartzite	Arbuckle	3120
Do	Aurora No. 1 Stockerbrand	17-25-15E NW NW SW	1104	2592	-1488	red granite	Arbuckle	2600
Do	Moken No. 1 Wix	32-25-15E C NW SW	1008	2562	-1554	red granite	Lamotte	2563
Do	Delk No. 2 Newbold	29-25-16E NW SE SE	1070	2386	-1316	chloritized granite	Arbuckle	2396

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Elevation		Precambrian rock type	Rock unit on basement	Total depth, feet
				Depth to Precambrian, feet	of Precambrian, feet			
Woodson	Larson No. 1 Wright	3-25-17E SW NE SW	1045	1952?	-907?	granite	Arbuckle	2008
Allen	?	34-25-19E SW NW SW	1030	2145	-1115	granite	Lamotte	2202
Bourbon	Dalton Deep Test	21-25-25E C SE	760	1860?	-1100?	red granite wash on red granite	Lamotte	1995
Sedgwick	Kewanee No. 4 "A" Schramm	34-26-1E NE SW SW	1324	4188	-2864	granite wash	Arbuckle	4224
Do	Murfin No. 5 Weiskirch	11-26-2E SW SE SE	1352	4009	-2657	granite	Arbuckle	4010
Do	Bedell & Catt No. 2 "A" Stollei	13-26-2E SW NE NW	1394	4055	-2661	22 ft. granite wash on granite	Arbuckle	4082
Do	Gulf No. 2 Hamant	14-26-2E NW NE NW	1375	3985	-2610	10 ft. schist on granite	Arbuckle	4008
Butler	Gross No. 1 Williams-Forgy	11-26-4E NW SW NW	1372	2808	-1436	15 ft. granite wash on granite	Arbuckle	2824
Do	Gypsy No. 27 Shumway	11-26-4E NE SW NE	1393	2675	-1282	granite	Arbuckle?	2715
Do	Gulf No. 58 Shumway	11-26-4E SW SW NE	1372	2618	-1246	1 ft. granite wash on granite	Arbuckle	2628
Do	Union No. 15 Denny	12-26-4E C SW SE	1370	2805	-1435	granite	Arbuckle	2929
Do	Allison No. 1 Davis	15-26-4E NW SE SW	1289	3254	-1965	granite	Reagan	3262
Do	Murfin No. 6 Gray	15-26-4E SE NW NE	1337	3079	-1742	granite	Reagan	3085

Butler	Blankenship No. 1 Pyle	22-26-4E C SW NE	1317	3427	-2110	biotite granite	Reagan	3438
Greenwood	Tidewater No. 1 Hull	2-26-8E C S2 N2	1416	3595	-2179	granite	Arbuckle	3599
Butler	Great Southern No. 4 "S" Dickinson	16-26-8E NW SE NE	1374	3562	-2188	granite	Arbuckle	3575
Woodson	Equity No. 1 Solomon	29-26-17E SE NW NW	1026	2258	-1232	red granite	Lamotte	3489
Bourbon	Equity No. 1 Wiener	25-26-23E NW NW NW	950	1826	- 876	red granite?	Lamotte	1995
Do	Oklahoma Natural No. 1 Stevenson	16-26-24E SW SW NE	933	1810	- 877	red and green schist and quartzite	Lamotte	2403
Sedgwick	Allison No. 2 Faulk	11-27-2E SE NW SE	1345	4015	-2670	granite wash	Arbuckle	4035
Butler	Sitrin (H & M) No. 1 "B" Bates	10-27-4E SE SW SW	1276	3175	-1899	granite wash	Arbuckle	3200
Do	Carter No. 1 Wilson	16-27-4E C NE SW	1231	3575	-2344	granite wash?	Reagan?	3645
Do	Brunson-Spines No. 1 Winzer	16-27-4E NE NE NW	1235	3551	-2316	13 ft. granite wash on granite	Arbuckle	3581
Greenwood	Empire No. 1 Edgar	35-27-8E C NE SE	1447	3470	-2023	"hard red sand"	Arbuckle	3860
Wilson	Wentworth and Glare No. 1 McFadden	26-27-16E NW NW SW	1015	2366	-1351	granite	Lamotte	3352
Neosho	Kaney No. 1 Kaney	22-27-18E SW?	907	2113	-1206	red granite	Lamotte	2500
Sedgwick	Raymond No. 9 Blood	29-28-1E S2 SE SW	1270	4437	-3167	16 ft. granite wash on granite	Arbuckle	4454
Butler	Cities Service No. 4 Rierson	14-28-4E SW NW NE	1291	3375	-2084	granite wash?	Arbuckle	3490
Do	Cities Service No. 1 Brown	16-28-4E NE NE NE	1208	3251	-2043	11 ft. granite wash on granite	Reagan	3273

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Butler	Cities Service No. 1 Kirkpatrick	17-28-4E NE NW SE	1202	2792	-1590	22 ft. granite wash on granite	Reagan	2844
Do	Cities Service No. 31 Varner	17-28-4E SW NE NE	1253	2860	-1607	granite	Reagan	3100
Greenwood	Jamison No. 1 Dixon	18-28-9E SE NE SW	1433	3770	-2337	granite	Arbuckle	4020
Wilson	Jamison No. 1 Morse	13-28-15E C NE SW	950	2367	-1417	schist	Lamotte	2732
Neosho	Van No. 3 Coombs	30-28-21E SE SE SW	?	1980	?	20 ft. granite wash on pink granite	Lamotte	2004
Crawford	Lasalle No. 1 Gobl	20-28-25E SE SE NW	945	1838	- 893	red granite	Lamotte	1862
Butler	Hartman and Derby No. 1 Nibel	22-29-3E SE SE SE	1279	4025	-2746	granite	Arbuckle	4030
Do	Benedum-Trees No. 1 Hartenbower	5-29-4E NE NW SE	1186	3110?	-1924?	granite?	Arbuckle	3485
Do	Rex & Morris No. 1 Mann	6-29-4E SE SW SE	1284	3157	-1873	14 ft. granite wash on granite	Arbuckle	3171
Wilson	Fredonia No. 3 Smith	10-29-15E SE SE NW	995	2203	-1208	granite	Lamotte	2246
Elk	Empire No. 1 Bantz	15-30-10E C NW SW	1092	3240	-2148	granite	Lamotte	3260
Wilson	Prairie No. 1 Neodesha	19-30-16E C SW NE	804	2277	-1473	weathered granite?	Arbuckle	2412
Do	Finley and Henderson No. 1 Birk	21-30-17E SE SE NW	945	2297	-1352	hard gray rock	Lamotte	2310
Neosho	Dack and Stone No. 1 Arnett	34-30-18E NE NW SW	945	2235	-1290	granite	Arbuckle	2240

Wells Drilled Into Precambrian Rock in Kansas

Sumner	Theta (Elmerdale) No. 1 Sleigh	36-31-2E SW SW NW	1257	3420	-2163	pink granite	Arbuckle	3565
Do	Shell No. 8 Taton	36-31-2E C NE NW	1178	2892	-1714	granite	Arbuckle	2966
Cowley	Garden No. 1 Tonkinson	28-31-4E NE SW NW	1198	4280	-3082	granite	Arbuckle	4282
Elk	Kingwood No. 1 Osborn	8-31-11E CSL NW NW	1031	2953	-1922	granite	Arbuckle	2987
Montgomery	Peaker No. 1 Smith	27-31-16E C NE SW	809	2290	-1481	granite	Lamotte	2291
Labette	Labette No. 1 Bradford	5-31-19E SW SW NE	957	2155	-1198	red granite	Arbuckle	2173
Do	Glore No. 1 Wert	17-31-21E C NE SE	856	1886	-1030	pink granite	Lamotte	1893
Cherokee	Ackerd No. 1 Harley	30-31-22E SE SE NE	905	1845	- 940	granite	Lamotte	1852
Sumner	Amerada No. 13 Gassaway	14-32-2E CSL SE SW	1182	3342	-2160	granite	Arbuckle	3530
Do	Roxana No. 1 Nevitt	14-32-2E NE SW NE	1163	3940	-2777	granite	Arbuckle	4000
Do	Lario (Barnsdall) No. 13 "A" Wenrich	23-32-2E NW SE NW	1184	3459	-2275	granite wash	Arbuckle	3870
Chautauqua	Home No. 1 Blecha	5-32-13E NE SE SE	988	2645	-1657	granite	Arbuckle?	2646
Montgomery	Frankfort No. 1 Carter	23-32-14E NE NE NW	818	2400	-1582	granite?	Lamotte	2487
Do	Stevens No. 1 Uitts	7-32-16E C SE SE	824	2330	-1506	red granitic gneiss**	Lamotte	2550
Do	Pittman No. 1 Gressell	8-32-16E NW SW SW	765?	2320	-1555?	10 ft. granite wash on granite	Arbuckle	2360

TABLE 1.—Boreholes drilled to Precambrian rocks in Kansas (to December 31, 1960) (continued).

County	Company, well number, and farm	Location	Surface elevation, feet	Depth to Precambrian, feet	Elevation of Precambrian, feet	Precambrian rock type	Rock unit on basement	Total depth, feet
Montgomery	Stevens & Crissell No. 1 Uitts	18-32-16E NE NE NE	824	2320	-1496	50 ft. red arkose on red granite	Lamotte	2334
Cowley	Doric No. 1 Smith	18-33-7E NW SE NW	1190	4005	-2815	granite	Arbuckle	4017
Chautauqua	Kingley & Ross No. 1 Kocher	34-33-12E C NE SE	804	2794	-1990	9 ft. granite wash on granite	Lamotte	2807
Montgomery	Hydraulic No. 1 Beal	12-33-14E SW SW NW	875	2536	-1661	red granite	Arbuckle	2541
Do	Consolidated No. 1 Rail (Woody)	7-33-15E CSL SW SE	852	2535	-1683	granite	Arbuckle?	2555
Do	Hayes No. 10 Cement Plant	5-33-16E NW SW NE	781	1344	- 563	red granitic gneiss**	Arbuckle	1354
Do	Goodbar No. 1 Reece	12-33-16E NW NW SE	?	1762	?	granite	Arbuckle	1767
Do	Brown No. 1 Miller	33-33-17E C NW NE	720	2155	-1435	red granite	Arbuckle	2160
Cherokee	McMillan No. 1 Clark	13-33-21E NE SE SE	825?	1906	-1081?	granite	Lamotte	1927
Do	City of Columbus No. 4 Fee	13-33-23E C NE NW	901	1771	- 870	red granite	Lamotte	1783
Do	Glower No. 1 Forkner	17-33-23E NW SE NE	924	1870?	- 946	metamorphics	Lamotte	1872
Chautauqua	Sinclair Prairie No. 9 Brown	26-34-11E SE SW NW	1050	3085	-2035	rhyolite porphyry	Lamotte	3200
Montgomery	Empire No. 1 Pockock	11-34-13E CEL SW NE	758	2700	-1942	arkose on talc	Lamotte	2829

Montgomery	Frankfort No. 1 Hadden-Wheeler	4-34-15E CNL SE NE	820?	2472	-1652?	3 ft. granite wash on granite	Arbuckle	2482
Do	Frankfort No. 1 Meredith	15-34-17E NE NE NE	750?	2290	-1540?	25 ft. granite wash on granite	Lamotte	2340
Cowley	Phillips No. 1 Eckhart	9-35-6E C SW	1267	4545	-3278	granite	Arbuckle	4547
Montgomery	Veeder No. 1 Schumaker	11-35-13E C SW SE	731	2806	-2075	7 ft. granite wash on granite	Lamotte	2837
Do	? No. 1 Hatch	7-35-14E SW NW SW	760?	2799?	-2039?	granite wash?	Lamotte	2800?
Do	Emery No. 1 Gillam	4-35-15E C NE NE	750	2355	-1605	red granite	Arbuckle	2405
Labette	Neosho Valley No. 3 Wackerle	1-35-19E C SE NW	976	1318	- 342	25 ft. arkose on granite	Arbuckle	1351

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