

# **KANSAS GEOLOGICAL SURVEY OPEN-FILE REPORT 56-1**

## **WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS**

**By**

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## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 1

Fargahan

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Phillips	Sinclair Prairie Oil Co. #1 Martin Johnson	33-1-19W NEc NW	2190	4092	-1902	Quartz schist, quartzite and Granitic gneiss	x - yes  x	
Norton	Empire Drilling Co. #1 Atens Est.	6-1-22W SE SE SW	2387	3648	-1261	37 ft. gran. wsh. over gran.		B/Kc; cong.
Norton	Jones, Shelburne & Farmer #1 Howell	9-1-22W NW NW NW	2331	3665	-1334	30 ft. gran. wsh. over gran.		Arb.
Norton	Jones, Shelburne & Farmer #1 Gramzow	10-1-22W NE NE SW	2331	3723	-1392	17 ft. gran. wsh. over gran.		Arb.
Norton	Jones, Shelburne & Farmer #1 King	18-1-22W NE NE SE	2395	3702	-1307	8 ft. gran. wsh. over gran.		Lans.
Norton	Jones, Shelburne & Farmer #1 McClelland	28-1-22W NW NW NW	2358	3761	-1403	6 ft. gran. wsh. over gran.		Arb.
Norton	C. & G. & Brooks Hall #1 Kindall	31-1-22W NE NE NE	2433	3770	-1337	7 ft. gran. wsh. over gran.		Lans:B/Kc; cong.
Norton	Helmrich & Payne #1 Wyatt	20-1-23W NE NE	2359	3577	-1218	33 ft. wsh. over gran.		
Norton	Jones, Shelburne & Farmer #1 Browne	32-1-23W NE NE NE	2460	3707	-1247	23 ft. gran. wsh. over gran.		Lans:B/KC
Norton	Great Lakes Carbon Corp. #1 Minshall	35-1-23W SE SE SE	2382	3770	-1388 <del>-1356</del>	Granite		Lans: Cong.

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			Elevation	Precambrian Surface				
Norton	Empire Drilling Co. #1 Tansill	26-1-24W NW NE NE	2391	3599	-1208		23 ft. gran. wsh. over gran.	B/KC
Norton	Jones, Shelburne & Farmer #1 J. C. Brown	36-1-24W NE NE NW	2388	3604	-1216		gran. wsh.	Wea. Arb.
Decatur	Stanolind #1 McCue	29-1-26W NW SE	2554	3632	-1078		Granite	Lans.
Decatur	Helmerich & Payne #1 Sauvage	3-1-27W NE NE	2612	3646	-1034 <del>-1043</del>	x	37 ft. gran. wsh. over gran.	Congl.
Decatur	Dunn & Sauvage #1 Foley	5-1-27W SW SE NW	2650	3704	-1054		gran. wsh.	B/KC; Congl.: Sd
Decatur	Helmerich & Payne, Inc. #1 Harger	29-1-27W SE NE	2541	3648	-1107	x	34 ft. gran. wsh. over gran.	B/KC; Congl.
Decatur	Jones, Shelburne & Farmer #1 Metcalf	34-1-27W SW SW SW	2509	3697	-1188		gran. wsh.	Sndy. Arb.
Rawlins	Stanolind #4 Strat.	20-1-34W SW NE	3197	4809	-1612		Gran. wash	Arb.
Cheyenne	Ben F. Brack #1 Judy "B"	26-1-39W NW SE NW	3123	5139	-2016		Granite	Arb.
Cheyenne	Deep Rock Oil Corp. #1 Clark	23-1-42W SW SW SW	3456	5565	-2109		Gran. wsh.	Reagan

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			Elevation	Precambrian Surface			
Phillips	Mazda Oil Corp. #1 Brands	19-2-19W SWc SW	2242	4110	-1868	gran. ws.	Arb.
Phillips	British - American #1 Miller	34-2-19W SW SW	2153	3998	-1845	Gran.	
Phillips	Carter Oil Co. #1 Friebus	36-2-19W SW NW	2103	3815	-1712	36 ft. gran. ws. over gran., quartz schist & quartzite	x Arb. (Basal Sd.)
Norton	Sohio et al #1 Reeves	3-2-22W NE NE SW	2330	3748	-1418	gran.	x Arb.
Norton	CSO #1 Heaton	15-2-22W SW SE SE	2232	3657	-1425	gran. wash	Arb.
Norton	Empire Drilling #1 Brooks	19-2-22W SE SE NW	2310	3688	-1378	gran.	Arb.
Norton	Empire Drilling et al & #1 Wallach Somers	9-2-23W NW NW NE	2423	3718	-1295	gran. ws.	Arb.
Norton	Jones, Shelburne & Farmer #1 Sanderson, B.	18-2-23W NW NW NW	2451	3731	-1280	2 ft. gran. wsh. over gran.	Reag. snd.
Norton	Empire Drilling Co. #1 Kohfeld	21-2-23W SE SE SW	2365	3635	-1270	17 ft. gr. wsh. over gran.	x Arb.
Norton	R. W. Rine Drilling Co. #1 Wallack	22-2-23W cNE NW	2403	3731	-1328	29 ft. gran. wsh. over gran.	x

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County	Company, well number, and farm.	Location	Surface	Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian	Surface			
Norton	B. & R. Drilling Co. #1 Scott	23-2-23W NE NE	2321	3666	-1345			Arb.
Norton	Jones, Shelburne & Farmer #1 City of Norton	27-2-23W NE NE SE	2347	3648	-1301	72 ft. gran. wsh. over gran.		Arb.
Norton	Empire Drilling et al #1 Wallack	27-2-23W NW NW NW	2354	3641	-1287	gran. wsh.	x	Reag.
Norton	Allan & Aylward #1 Lecky	29-2-23W SEc NW	2365	3644	-1279			Sooy Congl.
Norton	Jones, Shelburne & Farmer #1 Coler	6-2-24W NW NW SW	2513	3726	-1213	46 ft. gran. wsh. over gran.		B/KC
Norton	Jones, Shelburne & Farmer #1 Sheldon	14-2-24W SE SE NE	2417	3680	-1263	20 ft. gran. wsh. over gran.		Reag. snd.
Norton	Jones, Shelburne & Farmer #1 Sidman	26-2-24W SW SW NW	2436	3694	-1258	24 ft. gran. wsh. over gran.		B/KC: Snd.
Norton	Barnett Oil Company #1 Legg	32-2-24W SE SE SE	2407	3665	-1258	gran. wsh.		B/KC
Norton	Helmerich - Payne, Inc. & (Phillips) P. #1 Lacount	1-2-25W cNE SE	2480	3694	-1214	gran.	x	
Norton	Jones, Shelburne & Farmer #1 Hanson	9-2-25W SE SE SE	2524	3765	-1241	gran.		Gor. Sd.

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			Elevation	Surface			
Norton	Jones, Shelburne & Farmer #1 Bollinger	17-2-25W SW SW SW	2497	3812	-1315	6 ft. gran. wsh. over gran.	Arb.
Norton	Jones, Shelburne & Farmer #1 Bishop	24-2-25W NE NE NW	2499	3748	-1249	69 ft. gran. wsh. over gran.	Reag.
Decatur	Jones, Shelburne & Farmer #1 Alexander	1-2-26W SE SE SE	2469	3735	-1266	11 ft. gran. wsh. over gran.	Arb.
Decatur	Jones, Shelburne & Farmer #1 Eckhart	3-2-26W SE SE SE	2516	3664	-1148	42 ft. gran. wsh. over gran.	B/KC
Decatur	J. M. Huber Corp. #1 Railsback	5-2-26W SE SE NE	2581	3724	-1143	45 ft. gran. wsh. over gran.	x B Penn.
Decatur	Cook & Galloway Drilling #1 Schwab	6-2-26W NW NW SW	2570	3690	-1120	gran. wsh.	B/KC
Decatur	Strain & B. Hall #1 Odle	14-2-26W NW NW SE	2508	3783	-1275	48 ft. gran. wsh. over gran.	Arb.
Decatur	Empire Drilling Co. #1 New	15-2-26W NW NW SW	2560	3811	-1251	19 ft. gran. wsh. over gran.	Rew. Arb.
Decatur	Jones, Shelburne & Farmer #1 Thomsen	18-2-26W NE NE NW	2638	3825	-1187	gran. wsh.	Penn. Snd.
Decatur	Marland #1 Reager	25-2-26W NE NW	2581	3865	-1284	gran. wsh.	

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County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Decatur	Stanolind #1 Hale	32-2-26W SE SE	2640	4007	-1367	gran.		
Decatur	E. K. Carey #1 Monaghan	15-2-27W SW SW SW	2608	3978	-1370	31 ft. gran. wsh. over gran.		Congl.
Decatur	Jones, Shelburne & Farmer #1 Fortin	17-2-27W NE NE NE	2598	3980	-1382	10 ft. gran. wsh. over gran.		Reag.
Decatur	H. E. Zoller & Carey #1 Edwards	21-2-27W NE NE NE	2643	4006	-1363	gran. wsh.	x	Rew. Arb.
Decatur	Helmerich & Payne #1 Jorn	28-2-28W SEc SW	2529	4152	-1623	15 ft. gran. wsh. over gran.	x	
Cheyenne	I. T. I. O. #1 Strangway	21-2-43W SW			-1973	gran.		
Phillips	Sinclair Prairie Oil #1c G.W. Dill	13-3-19W SEc SE	1993	3872	-1879	gran.	x	
Phillips	Watsonian Oil #1 Merklein	21-3-19W cNE NE SW	2221	3925	-1704			Arb.
Phillips	Sinclair Prairie Oil Co. #1 Cummings	2-3-20W NW NW	2165	3960	-1795	gran.		
Norton	Jones, Shelburne & Farmer #1 Harper	19-3-22W SW SW NW	2452	3859	-1407	23 ft. gran. wsh. over gran.		Arb.

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County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement	
			Elevation	Precambrian Surface				
Norton	Petroleum, Inc. #1 Allan	30-3-22W SE SE NE	2417	3832	-1415		62 ft. gran. wsh. over gran.	Arb.
Norton	Allan-Aylward #1 Farm Mort. Corp.	33-3-22W NEc SW	2305	3815	-1510	x	44 ft. gran. wsh. over gran.	Arb.
Norton	Jones, Shelburne & Farmer #1 Henderson	3-3-23W SE SE SW	2270	3582	-1312		gran. wsh.	Arb.
Norton	Keating Drilling Cor. #1 Wesley	4-3-23W NW NW NE	2304	3602	-1298		10 ft. gran. wsh. over gran.	Reag.
Norton	Jones, Shelburne & Farmer #1 Coleman	5-3-23W NW NW NE	2361	3629	-1268	x	15 ft. gran. wsh. over gran.	Lans.
Norton	Helmerich & Payne - Phillips Petro. #1 Conway	7-3-23W cSE NE	2348	3623	-1275	x	15 ft. gran. wsh. over gran.	
Norton	Harry Gore #1 Snyder	9-3-23W NE NE NW	2274	3557	-1283	x	gran. wsh.	B/KC
Norton	Great Lakes Carbon Corp. #1 Muir	12-3-23W NW NW SW	2344	3694	-1350	x	11 ft. gran. wsh. over gran.	Arb.
Norton	Cook Galloway Drilling & D. G. Hansen #1 Horesky	15-3-23W NE NE SE	2428	3746	-1318		14 ft. gran. wsh. over gran.	Arb.
Norton	Jones, Shelburne & Farmer #1 Campbell	17-3-23W NE NE NE	2319	3598	-1279		30 ft. gran. wsh. over gran.	B/KC

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County	Company, well number, and farm.	Location	Surface	Depth to Precambrian	Precambrian	Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	ft.	Surface			
Norton	United Drilling, Inc. #1 Horesky	21-3-23W SW SW SW	2446	3741	-1295	gran.		B/KC
Norton	Jones, Shelburne & Farmer #1 Carr Snead	21-3-23W SW SW SE	2380	3765	-1385	19 ft. gran. wsh. over gran.		Reag. snd.
Norton	Lario Elwell #1 Kennedy	22-3-23W cSW SW NE	2355	3652	-1297	28 ft. gran. wsh. over gran.	x	B/KC
Norton	Jones, Shelburne & Farmer #1 Stewart	26-3-23W NE NE NE	2401	3741	-1340	17 ft. gran. wsh. over gran.		B/KC : Snd.
Norton	K. & E. Drilling & G.P. Vye #1 Hroesky	28-3-23W NE NE SW	2460	3770	-1310	gran. wsh.		B/KC
Norton	D. G. Hansen #1 Cope	29-3-23W SW SW NW	2435	3787	-1352	10 ft. gran. wsh. over gran.		Reag.
Norton	D. G. Hansen #3 Cope	29-3-23W W2 W2 SW	2457	3837	-1380	10 ft. gran. wsh. over gran.		Reag.
Norton	D. G. Hansen #5 Cope	29-3-23W N2 N2 SW	2457	3815	-1358	119 ft. gran. wsh. over gran.		Reag.
Norton	Jones, Shelburne & Farmer #1 Horesky	29-3-23W SE SE SE	2379	3765	-1386	7 ft. gran. wsh. over gran.	x	Arb.
Norton	Harry Gore #8 Calvin Lawson	30-3-23W SW SW NW	2346	3666	-1320	39 ft. Rew. qtz. over gran.	x	B/KC

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			Elevation	Precamb-Surface			
Norton	D. G. Hansen #4 Weber	30-3-23W SE SE SW ✓	2386	3740	-1354		Reag.
Norton	D. G. Hansen #5 Weber	30-3-23W SW SW SE ✓	2412	3767	-1355		Reag.
Norton	D. G. Hansen #14 Weber	30-3-23W E2 E2 SW ✓	2399	3758	-1359		Reag.
Norton	Jones, Shelburne, & Farmer #5 Carr & Sneed (SWD)	31-3-23W SW SW SE ✓	2379	3765	-1386		Reag. Sd.
Norton	Harry Gore #1 Herisher	34-3-23W SE SE SE ✓	2438	3768	-1330	x	Congl.
Norton	Phillips Petroleum Co. #1 Myra	36-3-23W NEc NW ✓	2360	3705	-1345		B/KC
Norton	Helmerich & Payne Inc. #1 Smith	36-3-23W SEc NE ✓	2350	3729	-1379		Arb. bas. snd.
Norton	Sauvage & Dunn #1 Collins	6-3-24W SE SW SW ✓	2473	3745	-1272		B/KC
Norton	Trans Era & N. Appleman #1 King	17-3-24W SW SW SE ✓	2400	3663	-1263		B/KC
Norton	Jones, Shelburne & Farmer #1 Gooder	23-3-24W NE NE NE ✓	2380	3674	-1294	x	B/KC

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			Elevation	Precambrian			
Norton	Harry Gore #2 Calvin Lawson	25-3-24W NE SE SE ✓	2408	3743	-1335	gran. wash.	reag. snd.
Norton	Harry Gore #4 Lawson	25-3-24W NE NE SE ✓	2365	3691	-1326	gran. wsh.	Reag. snd.
Norton	Harry Gore #5 Calvin Lawson	25-3-24W SW SE NE ✓	2396	3739	-1343	gran.	Reag. Snd.
Norton	Allen #1 Porter	26-3-24W NW NW ✓	2368	3697	-1329	schist	Marm.
Norton	Empire Drilling Co. #1 M. Davis	26-3-24W SE SE SW ✓	2424	3768	-1344	schist	Marm.
Norton	Sauvage & Dunn #1 Porter	26-3-24W SE SE NW ✓	2423	3767	-1344	gran. wsh.	B/KC
Norton	Jones, Shelburne & Farmer #1 Brown	27-3-24W SW SW SW ✓	2453	3767	-1314	27 ft. gran. wsh. over gran.	B/KC
Norton	Jones, Shelburne & Farmer #1 Ankenman	29-3-24W SW SW SE ✓	2402	3746	-1344	43 ft. gran. wsh. over gran.	Reag. Snd.
Norton	Trans Era Petroleum Inc. #1 Clark	30-3-24W SW SW NE ✓	2420	3783	-1363	33 ft. gran. wsh. over gran.	x Reag. Snd.
Norton	Cock & Galloway & Aurora #1 Brunson	32-3-24W SE SE SE ✓	2404	3757	-1353	85 ft. gran. wsh. over gran.	Reag. Snd.

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			Elevation	Precambrian Surface			
Norton	Harry Gore #1 Brunson	32-3-24W NW NW SW ✓	2469	3898	-1429	gran.	Arb.
Norton	Jones, Shelburne & Farmer #1 Conover	34-3-24W SE NE SW ✓	2427	3784	-1354	gran.	x Arb.
Norton	Harry Gore #1 Henry	35-3-24W SE NE SW ✓	2423	3746	-1323	gran.	x Reag. snd.
Norton	Derby Oil #4 Schoen	35-3-24W (App. cSE) ✓	2435	3770	-1335	schist cut by gr.	Reag. snd.
Norton	Derby Oil #6 Schoen	35-3-24W S2 S2 SE ✓	2472	3815	-1343		Reag. snd.
Norton	Derby Oil #7 Schoen	35-3-24W App. NW NW SE ✓	2416	3749	-1333	Schist	Arb.
norton	Shields #1 Hicks	2-3-25W c SW NE ✓	2482	3760	-1278	gran. wsh.	Arb. bs. snd.
Norton	Henderson Oil Co. #1 Lechlitter	8-3-25W SW SW NE ✓	2541	3928	-1387	10 ft. gran. wsh. over gran.	Reag.
Norton	Shields #1 Mizell	10-3-25W SW SW NW ✓	2508	3880	-1372	gran. wsh.	x Arb.
norton	Helmrich & Payne #1 Collins	11-3-25W c NE ✓	2482	3770	-1288	gran.	Lans.

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			Elevation	Precambrian Surface				
Norton	C. S. O. #1 Mizell	15-3-25W NE c SE	2463	3805	-1342	87 ft. gran. wsh. over gran.	x	
Norton	Anderson-Prichard Oil Corp. #1 Brooks	17-3-25W SE SE SE	2483	3882	-1399	gran. or syenite	x	Reag. snd.
Norton	Jones, Shelburne & Farmer #1 Brunk	22-3-25W NW NW NW	2397	3784	-1387	7 ft. gran. wsh. over gran.		Reag.
Norton	Trans Era Petroleum #1 Humphrey	25-3-25W c N $\frac{1}{2}$ NE NE	2340	3702	-1362	16 ft. gran. wsh. over gran.	x	Reag. snd.
Decatur	Wentworth #1 Vessey	26-3-26W NW SE	2501	4128	-1627			
Norton Decatur	Empire Drilling #1 Gray	27-3-25W SW SE SE	2388	3855	-1467	gran. wsh.		Reag. snd.
Decatur	Helmerich & Payne #1 Bailey	14-3-27W NE NE NE	2662	4175	-1513	quartzite	x	Arb.
Decatur	Stanolind #1 Cilek	35-3-27W NW c	2555	3917	-1362			K.C.
Decatur	Westgate, Greenland & Phill. #1 Vernon	32-3-28W c NE NE	2746	4380	-1634	14 ft. gran. wsh. over gran.		Arb. bs. snd.
Decatur	W. W. Sauvage #1 Fee	23-3-29W NE NE SE	2659	4269	-1610	gran. wsh.		Cong.

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			Elevation	Precambrian Surface			
Decatur	Anderson Prichard #1 Pollnow	4-3-29W NE NW SW	2704	4397	-1693	gran.	Reag. snd.
Phillips	Westgate Greenland Oil Co. #1 B. Shaw	18-4-18W NW NW SE	1946	3603	-1657	gran.	Arb.
Phillips	Carter #1 T. W. Jackson	20-4-18W cNW NW	1892	3498	-1606		x cong.
Phillips	Stanolind #1 Brenneke	2-4-19W SE SE SE	1995	3756	-1761	gran. cut by quartz vein.	x Arb.
Phillips	Sohio Petroleum Co. #1 Krause	1-4-19W SE SE SE	2013	3615	-1602	quartzite	x Arb.
Phillips	Helmerich & Payne #1 Baird	8-4-19W NEc NE	2060	3938	-1878	pegmatite	x Arb.
Phillips	Sohio Petroleum #1 Meyer	12-4-19W NW NE NE	1998	3616	-1618		Arb.
Phillips	Helmerich & Payne et al #1 A. C. Kinter	20-4-19W SW NW NW	1945	3818	-1873	21 ft. gran. wsh. over gran.: veins	x Reag.
Phillips	Lario #1 Lynch Estate	24-4-20W cS $\frac{1}{2}$ SE SW	2018	3843	-1825	gran.	x
Phillips	National Coop. Ref. Assn. #1 Becker	29-4-20W SW SW SW	2070	3647	-1577	gran.	x Arb.

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Norton	Phillips & Helmerich-Payne #1 Hewitt	11-4-21W SE NE	2161	3746	-1585		Arb.
Norton	Jones, Shelburne & Farmer #1 Wiles	16-4-22W SW SW NW	2365	3880	-1515		Reag. snd.
Norton	Jones, Shelburne & Farmer #1 Wiley	19-4-22W SW SW SW	2256	3622	-1366	(?) x	B/KC
Norton	Empire & Trans Era Petr. Inc. #1 Troube	20-4-22W SW SW SW	2270	3734	-1464	x	Reag. snd.
Norton	Rex and Morris #1 Weathers	28-4-22W NW SW SE	2285	3797	-1512		Arb.
Norton	Harry Gore #1 Walter	36-4-22W SW SW NE	2183	3702	-1519	x	Reag.
Norton	Allen & Aylward #1 Comstock	3-4-23W SW SW	2451	3871	-1420	x	Arb.
Norton	Walters, Leonard Isern & Sunvay #1 Rife	1-4-23W SW SW SE	2300	3676	-1376		B/KC
Norton	Alpine Oil & Royalty Co., Inc. #1 Horesky	7-4-23W NW SW NE	2450	3834	-1384		Arb.
Norton	C. S. O. #1 Boucher	13-4-23W NEc NE	2296	3724	-1428	x	Lans.

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Norton	C. S. O. #1 Federal Farm Mart. Co.	15-4-23W SE SE ✓	2391	3776	-1385	18 ft. gran. wsh. over gran.	x	Lansing
Norton	Harry Gore #1 Bullock	22-4-23W NE NE NW ✓	2387	3801	-1414	50 ft. gran. wsh. over gran.	x	B/KC
Norton	Texas Co. #1 Harmonson	23-4-23W SEc SE NE ✓	2323	3723	-1400	12 ft. gran. wsh. over gran.	x	B/KC
Norton	Sohio Petroleum #1 Schandler	28-4-23W NE NE NE ✓	2298	3842	-1544	16 ft. gran. wsh. over gran.		Reag.
Norton	C. S. O. #1 E. Johnson	35-4-23W NE SE NE ✓	2292	3721	-1423	gran. wsh.	x	Reag. snd.
Norton	Jones, Shelburne & Farmer #1 Snaderson	1-4-24W SW SW SW ✓	2521	3880	-1359	gran. wsh.		Arb.
Norton	D. G. Hanson #1 Essert	3-4-24W NW NW SE ✓	2488	3828	-1340	16 ft. gran. wsh. over gran.		Reag. snd.
Norton	Helmerich & Payne #1 Paxton	10-4-24W cNE SW ✓	2533	3936	-1403	gran.	x	Arb.
Norton	Texas Co. #1 M. D. Reed	11-4-24W SE NE SW ✓	2452	3846	-1394	19 ft. gran. wsh. over gran.	x	Arb.
	Sinclair #1 Reed	12-4-24W SWc NE ✓	2458	3829	-1371	gran.		Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 10

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement	
			Elevation	Precambrian Surface				
Norton	Stanolind #1 Steelsmith	28-4-24W SWc SW	2390	3920	-1530	gran.	x	Arb.
Decatur	Continental #1 Lauda	3-4-27W NW SW	2651	3963	-1312	gran. wsh.	x	Arb.?
Decatur	Texas Oil Co. #1 E. B. Jennings	25-4-27W NE NE SW	2499	3766	-1267	Gran. wsh.		cong.
Decatur	Texas Co. #1 E. J. Keenan	25-4-27W NW NW SE	2499	3768	-1269	27 ft. gran. wsh. over gran.	x	cong.
Decatur	Glen Nye Drilling #1 Skubal	35-4-27W NE NE NE	2565	3852	-1287	gran. wsh.		cong.
Decatur	Continental #1 Chenowith	36-4-27W SE SW SE	2563	3867	-1304	34 ft. gran. wsh. over gran.		Lans. Isst. (no arb.)
Rawlins	Stanolind #1 Mullen	14-4-35W SW SE	3000?	4653	-1653		x	
Rawlins	Sinclair Prairie #1 Lola E. Robbins	32-4-35W SW NE	3142	5208	-2066	gran.	x	Miss. Lime
Phillips	Phillips Petroleum Co. #1 McKinley	13-5-18W SW SE	2001	3750	-1749	gran.	x	
Phillips	Cities Service Oil Co. #1 Templeton	24-5-20W SE SW SE	2160	3720	-1560	59 ft. gran. wsh. over gran.		Arb. bs. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 17

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Phillips	Cities Service Oil #1 C. Hansen	14-5-20W SWc SE ✓	2165	3789	-1624	gran.	x	Arb.
Phillips	D. G. Hansen #3 Fee	21-5-20W SW NE SE ✓	2147	3668	-1521	14 ft. gran. wsh. over gran.		Reag. snd.
Phillips	Cities Service Oil Co. #3 Templeton	14-5-20W SW SW SW ✓	2108	3690	-1582	gran. wsh.		Reag. snd.
Phillips	Skelly Oil Co. #1 B. O. Graham	23-5-20W SW NW NW ✓	2126	3523	-1397	gran. wsh.		Arb.
Phillips	Cities Service Oil Co. #2 Griffin	27-5-20W SW SE NW ✓	2169	3688 <sup>8.2</sup>	1519			Reag. snd.
Phillips	Cities Service Co. #1 Griffin	27-5-20W SWc NW ✓	2180	3682	-1502			Reag.
Phillips	Cities Service Oil Co. #1 Pearson B.	27-5-20W SW NW NW ✓	2145	3636	-1491			Arb. bas. snd.
Phillips	Cities Service Oil Co. #3 Reese "E"	28-5-20W SW SE NE ✓	2170	3703 <sup>8.0</sup>	1533	Precambrian?		Reag. snd.
Phillips	Cities Service Oil Co. #2 Reese "E"	28-5-20W SW NE SE ✓	2171	3688	-1517			bas. snd.
Phillips	Cities Service Oil Co. #1 Vehige	28-5-20W SWc SW ✓	2100c	3653	-1553c	gran. wsh.	x	Reag. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement	
			Elevation	Precambrian Surface				
Phillips	Cities Service Oil Co. #1 Vehige "B" ✓	28-5-20W SWc NW	2201	3652	-1451		schist	Reag. snd.
Phillips	Cities Service Oil Co. #2 Vehige "B" ✓	28-5-20W SW SE NW	2179	3640	-1461		schist	Reag. snd.
Phillips	Cities Service Oil Co. #3 Vehige ✓	28-5-20W SW NW SW	2100c	3663	-1563c	x	wea. basalt?	Reag. snd.
Phillips	Cities Service Oil Co. #4 Vehige "B" ✓	28-5-20W NE SW NW	2203	3705	-1502		5 ft. gran. wsh. over gran.	Reag. snd.
Phillips	Cities Service Co. #5 Vehige ✓	28-5-20W SW NE SW	2196	3664	-1468		gran. wsh.	Lans.
Phillips	Cities Service Oil Co. #1 "D" Reese ✓	29-5-20W SW SW NE	2100c	3722	-1622	x		Reag. snd.
Phillips	Cities Service Oil Co. #2 Reese "D" ✓	29-5-20W SW SE NE		3682			Precambrian	Reag. snd.
Phillips	Cities Service Oil Co. #3 "A" Wallgren ✓	29-5-20W NE NW SE	2194	3676	-1482		14 ft. wsh. over quartzite	Reag. snd.
Phillips	Cities Service Oil Co. #2 Wallgren "B" ✓	29-5-20W SWc NW	2176	3667	-1491			Arb. bas. snd.
Phillips	Cities Service Oil Co. #16 Pinkerton ✓	31-5-20W NE SW NE	2216	3661	-1446		schist and quartzite	Reag. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Phillips	Cities Service Oil Co. #6 Johnson "B"	✓ 31-5-20W NE SE SE	2145	3535	-1390	gran. wsh.		Reag.
Phillips	Cities Service Oil Co. #2 Veeh	✓ 31-5-20W SW NE NW		3680				Arb. bs. snd.
Phillips	Cities Service Oil Co. #3 Veeh	✓ 31-5-20W SWc NW		3679				Arb. bas. snd.
Phillips	Cities Service Oil Co. #2 Johnson "B"	✓ 32-5-20W NE NW SW		3632				Arb. bs. snd.
Phillips	Cities Service Oil Co. #1 Ray	✓ 32-5-20W NE NW SE	2156	3585	-1429	10 ft. gran. wsh. over gran.	x	bs. snd.
Phillips	Cities Service Oil Co. #6 "A" Ray	✓ 32-5-20W SW NW SE	2136	3535	-1399	Precambrian?		
Phillips	Cities Service Oil Co. #2 Kohlman "A"	✓ 33-5-20W SW NE NE	2140	3715	-1575	24 ft. gran. wsh. over gran.		Arb. bs. snd.
Phillips	Cities Service Oil Co. #4 Nichols	✓ 33-5-20W SW NE SW		3611		gran.		Reag. snd.
Phillips	Cities Service Oil Co. #5 Nichol	✓ 33-5-20W NW SE SW	2138	3554	-1416	gran. wsh.		Arb. bs. snd.
Phillips	Cities Service Oil Co. #7 Nichol	✓ 33-5-20W NE NE SW	2106	3645	-1539	gran. wsh.		Reag. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 20

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Phillips	Cities Service Oil Co. #4 "B" Pearson	34-5-20W NE NW NW	2124	3703	-1579	16 ft. gran. wsh. over gran.		Reag. snd.
Norton	Bridgeport #1 Riemann "A"	10-5-21W NEc NE	1988	3595	-1607	gran.	x	Reag. snd.
Norton	Helmerich & Payne #1 Jane Kitzke	16-5-21W SE c	2217	3698	-1481	gran.	x	Reag. snd.
Norton	Cities Service Oil Co. #1 Harrison	18-5-21W SWc NE	2148	3597	-1449	gran.		Arb. bs. snd.
Norton	Helmerich & Payne; Phillips #1 Voss	19-5-21W NEc SE	2180	3713	-1533	17 ft. gran. wsh. over gran.	x	
Norton	Empire Drilling Co. #1 Kemper	22-5-21W SW SW SW	2261	3750	-1489	gran., topwea.		B/KC
Norton	Cities Service Co. #4 Kitzke	25-5-21W NE SE SW	2235	3708	-1473	gran. <del>quartzite</del>	x	Reag. snd.
Norton	Barnett Oil Co. #1 Kemper	25-5-21W SW SW NE	2226	3713	-1487			
Norton	Phillips #1 Dedrick	26-5-21W SW SW SE	2280	3723	-1443	11 ft. gran. wsh. over gran.		Reag. snd.
Norton	Walters Drilling #1 Patton	30-5-21W NE NE NW	2263	3749	-1486	gran.		Reag. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface	Depth to Precambrian	Precambrian	Type of Rock	S.G.S.K. Samples.	Formation on Basement
			Elevation	Precamb. Plan	Surface			
Norton	Phillips #1 Irma	30-5-21W NE SE	2299	3777	-1478			
Norton	Phillips #1 Tuck	31-5-21W NE NE	2313	3741	-1428	gran. wsh.		B/KC
Norton	Cities Service Oil Co. #1 Muir	34-5-21W SW NW	2265	3749	-1484	gran. wsh.	x	Arb.
Norton	Saturn Drilling Co. et al #1 Sullivan	34-5-21W SE SE SW	2261	3684	-1423	schist	x	Reag.
Norton	D. G. Hansen #1 Sullivan	35-5-21W NEc SW	2235	3653	-1418	3 ft. gran. wsh. over gran.	x	B/KC
Norton	Sauvage & Dunn #1 Griffin	35-5-21W NW NW NW	2273	3707	-1434	gran. wsh.		Reag.
Norton	Cities Service Oil Co. #2 Kitzke	36-5-21W SE SE	2188	3600	-1412	gran.		sndy. lime.
Norton	Cities Service Oil Co. #3 Kitzke	36-5-21W NE NW SE	2211	3638	-1427	gran.	x	Reag. snd.
Norton	Cities Service Oil Co. #1 Businessmen's Assoc.	6-5-22W NEc NW	2275	3772	-1497	gran.	x	Arb.
Norton	Cities Service Oil Co. #1 Freddie	8-5-22W NE NE NE	2120	3604	-1484	gran. wsh.	x	Reag.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Plan	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Norton	Harry Gore #1 Voss	10-5-22W SE NE NE ✓	2126	3585	-1459	gran. wsh.		Reag. snd.
Norton	Jones, Shelburne & Farmer #1 Weogard	12-5-22W SWSW NW ✓	2097	3544	-1447	gran.		Reag.
Norton	Hall Jordon Oil & J. C. Shaffer #1 Von Mayrhauser	26-5-22W NW NE ✓	2195	3690	-1495	gran. (?)	x	
Norton	Cities Service Oil Co. #1 Armstrong	25-5-22W SW SE SW ✓	2355	3867	-1512	57 ft. gran. wsh. over gran.	x	Gorham snd.
Decatur	Sterling #1 Randall	11-5-27W NE SW ✓	2636	4132	-1496	gran.	x	Arb. bs. snd.
Decatur	Continental #1 Gillespie	34-5-27W NE SE NE ✓	2664	4032	-1368	gran. wsh.	x	marm.
Rawlins	Stanolind Oil & Gas Co. #12 Strat	15-5-31W SWc ✓	2919	4912	-1993	gran.		Arb.
Rawlins	Stanolind #1 N. E. Bryan	12-5-31W SWc ✓	[2919	4912	-1993]	gran.	x	
Osborne	Mid-Kansas #1 Boyce	18-6-13W SE NW ✓	1782	4695	-2913			
Rooks	Cities Service Co. #1 Johnston	5-6-19W SWc NE ✓	1998	3669	-1671	gran.	x	Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian Surface			
Mitchell	Murfin Drilling Co. #1 Wessling	35-6-7W <del>SE SE NE</del> SE SE NE	1446	4290	-2844		Reag. snd.
Rooks	Harbar Drilling Co. #1 Brobst	7-6-19W NWc NW	2086	3631	-1545	x	Arb. bs. snd.
Rooks	Veeder Supply & Dev. Co. #1 Johnson	9-6-19W NE NE SW	2140	3696	-1556		Arb.
Rooks	Veeder Supply #1 Brobst	16-6-19W SE SE SW	2130	3620	-1490		cong.
Rooks	E. R. Cave #1 Brobst	18-6-19W SW NW NE	2130	3605	-1475		B/KC
Rooks	Natl. Assoc. Petr. #1 Probst	18-6-19W SW SWSE	2168	3640	-1472		B/KC
Rooks	Texa Trading #1 Probst	18-6-19W SW NE	2138	3616	-1478		Miss. Lime?
Rooks	Sunray Oil Co. #1 Federal Land Bank	20-6-19W SE SE	2127	3595	-1468	x	Lans.
Rooks	Isern Drilling Co. etal #1 C. F. Jones	27-6-19W NE NE NW	2069	3588	-1519	x	cong.
Rooks	Bridgeport # Hindman	35-6-19W NE NE NE	2030				Reag. snd.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rooks	Louis R. Travis et al #1 A. H. Cole	1-6-20W SW NW SW ✓	2049	3561	-1512	6 ft. gran. wsh. over gran.	x	Reag. snd.
Rooks	Cities Service Oil Co. #1 "B" Nichol	5-6-20W NW NWc NE ✓	2099	3623	-1524	41 ft. gran. wsh. over gran.		Reag. snd.
Rooks	Harry Gore #1 Nichols	5-6-20W SW SE SW ✓	2119	3609	-1490	35 ft. gran. wsh. over gran.		Reag. snd.
Rooks	Cities Service Oil Co. #1 Burge	6-6-20W SE NE NW ✓		3532		gran.	x	Lans.
Rooks	Cities Service Oil Co. #2 Burge	6-6-20W NE NW NW ✓	2171	3578	-1407			Arb. bs. snd.
Rooks	Barnett Oil Co. #1 Nichol	7-6-20W SE SE SW ✓	2229	3709	-1480	gran. wsh.		B/KC
Rooks	Derby Oil Col #1 Steele	9-6-20W cN NW NW ✓		3638				Lans.
Rooks	National Associ Petro. Co. #1 Hansen	15-6-20W NWc NW ✓	2224	3675	-1451	gran. wsh.		Lans.
Rooks	Sinclair #1 Gastell	24-6-20W NW NW ✓	2162	3635	-1473	22 ft. gran. wsh. over gran.		congl.
Rooks	Barnett Drilling Co. #1 Nichol	6-6-20W NE NW NE ✓		3538		gran. wsh.		Topeka?

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rooks	Westgate Greenland Oil Co. #1 Johnson	24-6-20W SE SW SW ✓	2141	3888	-1747	gran. wsh.	x	Reag. snd.
Rooks	Black Marshall #1 Gartell	24-6-20W NWc NW ✓				non-gran. gneiss	x	
Rooks	Sinclair Prairie Oil Co. #1 Mathews	28-6-20W NE SE ✓	2193	3771	-1578	gran.	x	Arb.
Graham	Central Oil Co. #1 Hixenbaugh	1-6-21W NE NE ✓	2134	3529	-1395	quartzite	x	
Graham	W. L. Hartman #1 Lappin	1-6-21W NW NW NW ✓	2174	3583	-1409	gran. wsh.		congl.
Graham	Nadel & Gussman & Veeder #1 Brobst	1-6-21W NW SW SW ✓	2115	3505	-1390	17 ft. quartzite over gran. dike		B/KC
Graham	W. L. Hartman #1 Templeton	2-6-21W NW NE NE ✓	2212	3620	-1408	gran.		B/KC
Graham	Cities Service Oil Co. #1 Englebert	4-6-21W NEc NE ✓	2231	3644	-1413		x	B/KC
Graham	Republic Nat. Gas. Co. #1 Brobst	12-6-21W SW SW NW ✓	2149	3613	-1464	47# gran. wsh. over gran.		B/KC
Graham	Harry Gore & B. & R. #1 Thurlow	25-6-22W NE NE NE ✓	2254	3885	-1631	19 ft. gran. wsh. over gran.	x	congl.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Meridan	Continental #15 Strat	24-6-26W SW NE SW ✓	2619	4239	-1620	26 ft. gran. wsh. over gran.		Arb.
Meridan	Continental Oil Co. #1 Vahling	24-6-26W SW NE SW ✓		4239		gran. wsh.		Arb.
Meridan	Continental #3 Douts	2-6-27W SE SW ✓	2600	3980	-1380			
Meridan	Continental Oil Co. #1 Cramer	11-6-27W NWc NE ✓	2631	4012	-1381	gran. wsh.		Lans.
ooks	Showden #1 Stebbins	26-7-17W NE SW ✓	1778	3575	-1797			
ooks	Magnolia Petroleum Corp. #1 C. Holsman	15-7-19W SE NE SE ✓	1958	3537	-1579	gran.		Arb.
aham	N. Appleman #1 Hibbitts	12-7-21W SW SW SW ✓	2156	3669	-1513	quartzite	x	cong.
omas	Kelly & Matt Weissback #1 Thomas	30-7-32W NE NE NW ✓	3110	5259	-2149	schist & quartzite	x	Reag. snd.
ooks	Shell Oil Company #9 H. A. Krug	19-8-17W S2 S2 SW ✓	1992	3826	-1834	gran.		Arb.
ooks	Virginia Drilling Co. #1 Bouchey	18-8-18W NE NW NW ✓	2008	3481	-1473	gran. wsh.		cong.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
ooks	Stanolind #1 MacMillan	24-8-18W SW SW SE ✓	2007			15 ft. gran. wsh. over gran. 8		Arb.
ooks	Deep Rock Oil Corp. #9 Ondrasek	32-8-19W NW NE NW ✓	2019	3881	-1862	gran.		cong.
ooks	Skelly #2 Rostocil	33-8-19W SE SE SW ✓	2014	3882	-1868	quartzite		Arb.
raham	Musgrove Petroleum Corp. #1 Brandt	20-8-21W NW NW NE ✓	2064	3689	-1625			Arb.
raham	Gulf Coast #1 St. Johns	27-8-25W SW SW SE ✓	2500	4345 <del>4800</del>	-1845?			
ooks	Heathman & Company #5 Baumgartner	29-9-18W NE SW NW ✓	2188	4114 <del>4128</del>	-1926 <del>-1940</del>	14 ft. weathered gran. over gran.	x	Arb.
ooks	Westgate Greenland #1 Novotny	3-9-19W NW NW NW ✓	1966	3825	-1859	gran. wsh.		Arb.
ooks	Sohio #5 "C" Rostocil	10-9-19W NW SE NW ✓	2028	3893	-1865	11 ft. gran. wsh. over gran.		Arb.
Phillips	Sinclair Prairie Oil Co. #1 Dill <i>Can't find</i>	13-9-19W ✓	2000c	3875c	-1875c		x	
Phillips	Prairie #1 Gick	22-9-19W cSE ✓	2167	4083	-1918	gran.		

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian Surface			
Graham	Sinclair Prairie Oil #2 Brault	14-9-21W NW NE SE ✓	2249	4248 -2000	gran. wsh.	x	Arb.
Graham	Sinclair Oil and Gas Co. #3 Brault	14-9-21W NE NE SE ✓	2198	4216 -2018	gran.		Reag. snd.
Graham	Sohio Petroleum et al #7 Benson	15-9-21W NE SE SW ✓	2263	4200 -1937	gran. wsh.	x	Reag. snd.
Graham	Continental #11 O. E. Trexler	15-9-21W NW NW NW ✓	2173	4131 -1958	gran. wsh.		Arb.
Graham	Barnett & Shields #4 Boland	16-9-21W SE SE NW ✓	2185	4140 -1955	gran. wsh.		Arb.
Graham	Continental #1 Koleste	16-9-21W NE SE ✓	2222	4170 -1948	gran.		
Graham	Palmer Oil Corp. & NCRA #8 "B" Cooley	17-9-21W SW NE NW ✓	2308	4271 -1963	14 ft. quartzite cut by gran.		Arb.
Graham	Cities Service Co. #8 Seefeld	18-9-21W SW NE NE ✓	2260	4234 -1974	gran. wsh.		Arb.
Graham	Cities Service Oil Co. #9 Morel "B"	22-9-21W SW NE NE ✓	2249	4165 -1916	46 ft. gran. wsh. over gran.		Reag. snd.
Graham	B. & R. Drilling Inc. #2 "B" Cox	26-9-21W SE SW NE ✓	2286		quartzite (?)		Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples.	Formation on Basement
			Elevation	Precambrian Surface			
Graham	Tom Palmer Oil #1 Van Locnen	10-9-22W NW NW NE	2235	3836	-1601		Arb.
Ottawa Graham	Babcock #1 Copeland (Copeman)	7-10-2W <del>23-10-15W</del> SE SE	1367	4002	-2635		Arb.
Osborne	Anderson Prichard #2 "B" Ruggles	23-10-15W NE SW SW	1849	3954	-2105		Reag. snd.
Rooks	Aylward Prod. #1 Richards	31-10-18W cN NW SW	1987	3575	-1588	x	gran. wsh. (?)
Rooks	Barnett Oil Co. et al #2 Hinkhouse	9-10-20W NE NE SE	2174	4254	-2080		gran. wsh. Reag. snd.
Rooks	Champlin Refining Co. #6 Marcotte	15-10-20W SE NW SW	2140	4248	-2108		gran. Reag. snd.
Rooks	D. G. Hansen #4 Williams	16-10-20W SE NE NE	2149	4229	-2080		gran. Reag. snd.
Graham	Jones, Shelburne & Farmer #5 Miller	11-10-21W SE NE NW	2245	4219	-1972		gran. Arb.
Graham	Sunray Oil Co. #5 Custer	17-10-23W NE NE SE	2364	462B	-2259		gran. Reag. snd.
Russell	Liggett #2 "B" Durham	20-11-15W SW SE NE	1838	3278	-1440	x	gran. wsh. Lans.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Sohio Petroleum #1 "B" Booth	29-11-15W SE SW NE ✓	1769	3295	-1526	gran. wsh.		Arb. bs. snd.
Russell	Stanolind Oil & Gas Co. #2 "B" Booth	29-11-15W NW NE ✓	1782	3205	-1424	gran. wsh.	x	Lans.
Russell	Midwest Oil Refg. Co. #1 B Booth	29-11-15W NE NW NE ✓		3252		gran. wsh.		Lans.
Russell	Sohio Petroleum #1 North Fairport	29-11-15W SE SW NE ✓	1772	3295	-1523	168 ft. gran. wsh. over gran.		Reag. snd.
Russell	Stanolind #4 "A" Booth	32-11-15W cS NE NW ✓	1800c	3331	1531	gran. {cut by pegmatite	x	Reag. snd.
Russell	Derby-Stearns-Streeter #4 Dodge	32-11-15W NE NW SW ✓	1760	3157	-1397	gran. wsh.		congl.
Ellis	Sinclair Prairie #3 Romine	7-11-16W SW SW ✓	1789	3865	-2076	gran. wsh.		Reag. snd.
Ellis	Champlin Refining #6 Slimmer	2-11-17W NE SE NW ✓	1905	3985	-2080	gran.		Arb.
Ellis	Gulf Oil Corp. #10 Henry Mai	14-11-17W SE NW SE ✓	1838	3886	-2048	22 ft. gran. wsh. over gran.		Arb.
Ellis	Sohio #6 "B" Bemis	15-11-17W SW SE SW ✓		3930			x	

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Ellis	Dickey Oil Co. #4 Kollman	18-11-17W c5 $\frac{1}{2}$ NW SE ✓	1846	3885	-2039	18 ft. gran. wsh. over gran.		Arb.
Ellis	Dickey #8 Kollman	18-11-17W cS $\frac{1}{2}$ NE SE ✓	1846c	3885	-2040	gran. wsh.	x	Arb1
Ellis	Murfin Drilling #2 "A" Hadley	20-11-17W SW NE NW ✓	1876	3876	-2000	gran. wsh.		Arb.
Ellis	Phillips #A-5 Bemis	21-11-17W SW NE ✓	1866	3900	-2034	gran.		congl.
Ellis	British American #6 Bemis	22-11-17W NW SW ✓	1930	3966	-2036	gran. wsh.		Reag. snd.
Ellis	Shell Oil Co. #2 A Rumsey	23-11-17W NE SW NW ✓	1873	3884	-2011			Arb.
Ellis	Shell #1 - W Ramsey	23-11-17W NE NW ✓	1872	3928	-2056	quartzite		Arb.
Ellis	Cities Service Oil Co. #3 Hall "B"	26-11-17W NW SW NW ✓	1927	3923	-1996	gran.		Reag. snd.
Ellis	Deep Rock Oil Corp. #15 Baumer	27-11-17W NW SW ✓	2081	3721	-1640	?	x	Arb.
Ellis	Deep Rock #24 Baumer	27-11-17W SW NE ✓	2002	3992	-1990			Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precamb. Surface			
Ellis	Sohio Petroleum Co. #8 Bemis "D" ✓	28-11-17W E NW SE	1914	3945	-2031		Reag. snd.
Ellis	Texas #A - 13 Bemis ✓	28-11-17W NW NE	1893	3924	-2031	gran.	Reag. snd.
Ellis	L. H. Wentz-Jones Drlg. Co. #2 Fred Bemis ✓	28-11-17W SE NE NW	1953	3984	-2031	gran. wsh.	Reag. snd.
Ellis	Champlin Refining #2 Glathart ✓	29-11-17W SW NW SE	2076	4000	-1924	gran. wsh.	Arb.
Ellis	Champlin #4 "K" S.W.D. Hadley ✓	29-11-17W cN $\frac{1}{2}$ N $\frac{1}{2}$ NW	1950c	3909	-1959	gran. wsh.	Arb.
Ellis	The Texas Co. #31 Dreiling ✓	34-11-17W NW NE SE	2003	3997	-1994	25 ft. gran. wsh. over gran.	Arb.
Ellis	Continental Oil Co. #7 M. E. Watkins ✓	2-11-18W SW SE NW	1976	4018	-2042	gran. wsh.	Arb.
Ellis	Continental Oil Co. #4 Warren Mortgage ✓	3-11-18W SE NE SE	2057	4118	-2061	48 ft. gran. wsh. over gran.	Arb.
Ellis	Shell et al #1-W "A" Riddler ✓	12-11-18W NE SW NW	1856	3896	-2040	29 ft. gran. wsh. over gran.	Lans.
Ellis	Phillips Petroleum Co. #2 Sites ✓	12-11-18W cE E SW	1858	3909	-2051	gran.	Reag. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Ellis	Skelly #4 Kemper	12-11-18W SW NE ✓	1870	3940	-2070	10 ft. gran. wshl over gran.	x	Arb.
Ellis	Lario Oil & Gas Co. et al #2 Henderson	15-11-18W SW SE NW ✓	1899	4030	-2131	5 ft. gran. wsh. over gran.		Reag. snd.
Ellis	Walters Drilling #4 Marshall	25-11-18W N $\frac{1}{2}$ N $\frac{1}{2}$ SE ✓	1970	4060	-2090	gran.		Reag. snd.
Ellis	Sohio Petroleum Co. #1 Metz	13-11-19W SW SE SE ✓	1901	3645	-1744			
Ellis	Continental Oil Co. #5 Vine "A"	23-11-19W N N NW ✓	1937	3984	-2047	gran. wshl		congl.
Ellis	Don Pratt #3 Solomon "B"	28-11-19W NE NE NW ✓	1974	4033	-2059	gran. wsh.		Arb.
rego	Norbla #1 Burkett	15-11-22W c SW ✓	2163	4220	-2057	gran.		
Wallace	Sinclair Prairie #2 Wallace Inv. Co.	28-11-39W SEc NE ✓	3405	5520	-2115		x	Arb.
Russell	Wilcox Oil & Gas #2 J. J. Munsel	1-12-15W SW NE ✓		3585		gran.		
Russell	Sohio #1 A Sutton	5-12-15W NW SE SW ✓		3224		gran. wsh.	x	

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precamb. Surface			
Russell	T. C. Johnson Estate #11 Kollman	5-12-15W SW NE NW ✓	1706	3104	-1398	44 ft. gran. wsh. over gran.	cong.
Russell	Johnson #8 Kollman	5-12-15W SE NW ✓	1677	3079	-1402	met. sh.	cong.
Russell	Wilcox #4 "C" C. Sutton	5-12-15W SWc SW ✓	1693	3078	-1385	gran. wsh.	Lans.
Russell	Wilcox O. G. #6 C. Sutton	5-12-15W SE SE SW ✓		3211			Reag. snd.
Russell	Stearns #1 "B" Holland	7-12-15W SE SE SE ✓	1824	3208	-1384	4 ft. gran. wsh. over gran.	
Russell	Stearns - Streeter #3 Oswald	8-12-15W SE NW SW ✓	1856	3229	-1373	gran. wsh.	Lans.
Russell	Midwest Exp. #3 Oswald	8-12-15W NWc NE NW ✓	1832	3259	-1427		
Russell	Midwest #16 Oswald	8-12-15W NE NW ✓	1839	3220	-1381		
Russell	Midwest Exp. Co. #22 Oswald	8-12-15W NW SE NW ✓	1831	3245	-1414		
Russell	Midwest Explo. Co. # Ed. Oswald	8-12-15W SWc NW $\frac{1}{4}$ ✓	1827	3200	-1373		

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Plan	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Stearns & Streeter #7 Yakey <i>Can't find</i>	8-12-15W	1850	3207	-1357	gran.		
Russell	Stearns #1 Foster	✓ 11-12-15W SE SE SE	1763	3290	-1527	5 ft. gran. wsh. over gran.		
Russell	Wilcox O. & G. Co. # J. J. Mussell	✓ 17-12-15W SWc SW NE	1853	3585	-1732	gran.		
Russell	Valerius (depn. by Sohio) #2 B Oswald - Wilcox	✓ 17-12-15W NE NW NW	1850c	3256	-1406	21 ft. gran. wsh. over gran.	x	congl.
Russell	Valerius O. G. #4 Oswald	✓ 17-12-15W SW NW NW	1862	3259	-1397	gran. wsh.		Reag. snd.
Russell	Stearns Drilling Co. #1 Holland	✓ 18-12-15W E E NE	1845	3271	-1426	22 ft. gran. wsh. over gran.		congl.
Russell	Stearns Petroleum Co. #2 "A" Holland	✓ 18-12-15W E SE NE	1849	3303	-1454	10 ft. gran. wsh. over gran.		Reag. snd.
Russell	Stearns Petroleum Inc. #1 Mermis	✓ 18-12-15W NW NE SE	1876	3324	-1448	gran.		congl.
Russell	Skelly #2 Oswald	✓ 18-12-15W NE NE	1833	3252	-1419	gran.		
Russell	C. R. Holland et al #4 Holland	✓ 18-12-15W c NE NE	1816	3290	-1474			congl.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples.	Formation on Basement
			Elevation	Precamb. Surface			
Russell	Sohio Petroleum Co. #4 "A" Rusch	19-12-15W N S SW ✓	1910	3304 <del>3314</del>	-1394 <del>-1404</del>		Lans.
Russell	Central Petroleum Co. #1 Ginther	19-12-15W SWc SE ✓	1891	3357	-1466		gran. wsh. (?)
Russell	Amerada #1 Milke	20-12-15W SE SW ✓	1896	3610	-1714		
Russell	P. & R. #1 Haise	24-12-15W NW SE ✓	1718	3605 <del>3628</del>	-1887		gran. Reag. snd.
Russell	Stanolind Oil & Gas Co. #4 Austin - Ashby	30-12-15W NW NE SW ✓	1899	3320	-1421		gran. Lans.
Russell	Central Petroleum Co. #1 "B" Deckert	30-12-15W cN $\frac{1}{2}$ SE NW ✓	1900c	3504	-1600	x	gran. Reag. snd.
Russell	Sohio #4 Deckert	30-12-15W cNW ✓	1912	3374	-1462	x	gran. wsh. Reag. snd.
Russell	Sohio Petroleum #6 Deckert	30-12-15W NE NW NW ✓	1910	3303	-1393		gran. wsh. Reag. snd.
Russell	Texas Company #8 Jacobs	31-12-15W NW SE SW ✓	1841	3476	-1635		gran. Arb.
Ellis	Sidey #1 Dreiling	13-12-16W NW NW SW ✓	1871	3400	-1529		gran. wsh. congl.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precamb. Surface			
Ellis	Davis & Aylward #1 Dickinson	15-12-16W SW NE ✓	1888	3800	-1912	gran.	Arb.
Ellis	Wolf Creek Oil Co. #1 Schmidtberger	24-12-16W SEc NE SE ✓	1876	3509	-1633	gran.	x congl.
Ellis	Kewanee #7 "E" Froelich	27-12-16W NE SW SE ✓	2063	4014	-1951	11 ft. gran. wsh. over gran.	x Arb.
Ellis	Westgate Greenland Oil Co. #15 Miller	3-12-17W NE SW NE ✓	2049	4033	-1984	17 ft. gran. wsh. over gran.	Arb.
Ellis	Phillips #1 Schutts	5-12-17W SE NE ✓	2047	4028	-1981	gran. wsh.	Arb.
Ellis	Palmer Oil Corp. #1 Hall	12-12-17W SW SE SE ✓	21096	3737	-1628	gran.	x congl.
Ellis	Carter Oil #10 Staab	11-12-18W E $\frac{1}{2}$ NW NE ✓	2123	4185	-2062	gran. wsh.	Arb.
Ellis	Republic Nat. Gas Co. #1 "A" Joy	14-12-18W NW NE NW ✓	2148	4212	-2064	gran. wsh.	x Arb.
Ellis	B. & R. Drilling #5 "A" Stockhouse	23-12-18W SW NE NE ✓	2130	4169	-2039	gran. wsh.	Arb.
Ellis	Central Commercial Oil #1 Helms	2-12-20W SE NE ✓	2096	4217	-2121	gran.	x Arb.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Trego	Texas Company #2 Schoenthaler	26-12-21W SW NW NW ✓	2222	4134	-1912	gran.		congl.
Trego	Mid-Kan #1 Ridgeway	28-12-21W NE SW ✓	2254	4250	-1996	gran.		Arb.
Trego	Stanolind Oil & Gas Co. #1 Powers	25-12-22W SW SE SW ✓	2339	4048 <del>4050</del>	-1709			Arb.
Trego	Stanolind Oil & Gas Co. #2 Anderson "A"	28-12-22W NE SE SE ✓	2359	4200	-1841	gran.		congl.
Trego	Stanolind Oil & Gas Co. #2 Monroe	36-12-22W NW SE SE ✓	2289	4101	-1810	gran.		congl.
Russell ✓	Seeley & Shaffer #1 Shaffer	30-13-12W SWc SE ✓	1830c	3352	-1522			Arb.
Russell ✓	Hartman Skaer Oil Co. #1 Taylor	35-13-12W cSW $\frac{1}{4}$ ✓	1844	3355	-1511	gran.	x	Lans.
Russell	The Saco Oil Co. #1 Furthmeyer	15-13-14W SWc SE ✓		3347		gran. (?)		Lans.
Russell	Prairie #1 Hill	13-13-14W NE NE ✓	1826	3770	-1944	gran.		Lans.
Russell	McBride #1 Jellison	19-13-14W NE SW ✓	1762	3543	-1781	13 ft. gran. wsh. over gran.		Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precamb. Surface			
Russell	Louis Mai #4 "A" Fox	22-13-14W cSE SE ✓	1838	3472	-1634	gran.	Arb.
Russell	Empire #3 Ehrlich	28-13-14W SE SE ✓	1859	3415	-1556	gran. pegmatite	Lans.
Russell	Phillips Petroleum Co. #1 W. W. Down	30-13-14W SE NW ✓	1836	3590	-1754	gran.	x Arb.
Russell	Murfin Drilling Co. #4 Brown	31-13-14W SW SE SE ✓	1858	3457	-1599	gran.	Arb.
Russell	Skelly Oil Co. #3 Boxberger	33-13-14W SW NW NE ✓	1864	3406	-1542	gran. wsh.	x Arb.
Russell	Texas #1 Boxberger	33-13-14W NE SE ✓	1857	3331	-1474	quartzite	congl.
Russell	Hartman & Blair #2 Boxberger	33-13-14W SE NE NW ✓	1865	3298½	-1133 <del>-3353</del>	gran. wsh.	Arb.
Russell	Hartman #1 Howland	34-13-14W SWc SE ✓	1837	3350	-1513	gran.	Arb.
Russell	Blair et al #3 Ruseh	34-13-14W SE NW NW ✓	1854	3507	-1653	quartzite (?)	Arb.
Russell	Thayer Drilling Co. #1 Cook	10-13-15W SWc SW ✓		3252		gran. (?)	congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Russell	Aylward #1 Polcyn	13-13-15W SEc ✓	1901	3310	-1409	gran.		
Russell	Heathman #1 Polcyn	31-13-15W SE SW SE ✓	1892	3307	-1415	wea. gneiss probably granitic core		Lans.
Russell	Shields Oil Prod. #2 "A" Polcyn	31-13-15W NE SW SE ✓	1895	3316	-1421	gran. wsh.		Gorham
Russell	Key Petr. #15 Baxter	32-13-15W SW SE SE ✓	1907	3298	-1391	gran.		Lans.
Russell	Eldorado Refining Co. #1 Polcyn	31-13-15W SEc SE ✓	1901	3311	-1410	gneiss	x	
Russell	Phil. - Han. Oil Co. #1 Mermis	32-13-15W SW NW SE ✓	1906	3309	-1403	gran. wsh.		Lans.
Russell	Heathman Drilling Inc. #1 Mermis	32-13-15W SW SW NE ✓	1905	3322	-1417	gran.		Gorham
Russell	Midwest Explor. #34 Mermis	32-13-15W SW SE NW ✓	1905	3356	-1451	gran.		
Russell	Midwest #1 Baxter	32-13-15W SW SE ✓	1900	3315	-1415	gran.		Lans.
Russell	Midwest Explor. #33 Baxter	32-13-15W SE SW SE ✓	1923	3305	-1382	gran.		

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian Surface			
Russell	Bridgeport <i>Can't find</i> #3-B Bridgeport	33-13-15W		3330			Lans.
Russell	Bridgeport Mach. Co. #9 Mermis	33-13-15W NE SE SW	1895	3284	-1389		Topeka
Russell	Bridgeport Machine Co. #5 "B" John Mills	33-13-15W SE SE	1896	3347	-1451	x	congl.
Russell	Keys Petro. Co. #13 Mills	33-13-15W SW SW	1932	3353	-1421		
Russell	Keys Petro. Co. #12 Mersaic	33-13-15W NW SW SW	1901	3303	-1402		
Ellis	Solar Oil Corp. #8 Weiland	1-13-16W NE SW NE	1889	3443	-1556		Arb.
Ellis	Midwest #19 Reidel	27-13-16W SW SE	1956	3875	-1919		Reag. snd.
Ellis	Mid-Kan #1 Johnson	9-13-19W SE NE	2115	4186	-2071		
Ellis	Darby & Bothwell #2 Giebler "A"	10-13-17W NE SW SE	2001	4069	-2068		Reag. snd.
Ellis	Texas Co. #3 G. E. Riedel	31-13-19W NE NE SW	2239	4052	-1813		Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian Surface			
Ellis	Stearns & Streejer #1 Letker	26-13-20W SW NE ✓	2117	4075	-1958	gran.	Arb.
Ellis	Texas Company #2 W. A. Nicholson	34-13-20W SE NE NW ✓	2219	3930	-1711	18 ft. gran. wsh. over gran.	Arb.
Trego	Stanolind Oil & Gas Co. #5 Cromb.	1-13-21W SE SW NE ✓	2176	3872	-1696	gran.	Reag. snd.
Trego	Rex & Morris & C. R. A. #1 Spilker "D"	1-13-21W NW SE NW ✓	2163	3836	-1673	gran. wsh.	Reag. snd.
Trego	Stanolind Oil & Gas Co. #1 Dentsher	2-13-21W SE NE NE ✓	2185	3903	-1718	gran.	Arb.
Trego	<del>Stanolind Oil + Gas</del> #1 Hamburg	11-13-21W SE SW SW ✓	2175	4083	-1908	52 ft. gran. wsh. over gran.	Arb.
Trego	Bridgeport #1 "A" Egger	12-13-21W NW NW NW ✓	2171	3887 <del>3884</del>	-1716	gran.	x Reag. snd.
Trego	Central Comm. #1 Wagg	17-13-21W NW SE ✓	2198	4471	-2273	34 ft. gran. wsh. over gran.	Arb.
<del>Logan</del>	<del>Carl Lebsack et al</del> <del>#1 Settle</del>	<del>4-13-36W</del> <del>NE NW NE</del>	<del>3012</del>	<del>4601</del>	<del>-1589</del>	<del>gran.</del>	<del>congl.</del>
Gove	Cities Service Oil #1 Victory Life Insurance Co.	36-13-30W W <sub>1/2</sub> W <sub>1/2</sub> NW ✓	2780	5161	-2381	gran.	x Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface	Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian	Surface			
Logan	Lebsack #1 Settle	4-13-36W NE NW NE ✓	3012	4601	-1589	quartzite	x	congl.
Logan	Morgan & Flynn & Cobb #1 MacMillan	9-13-37W c NW ✓	3143	5450	-2307	?	x	Arb.
Wallace	Sinclair #	19-13-42W NW NE ✓	3808	5972	-2164	gran.		Arb.
Wallsworth	Frankfort Oil #1 Kuck ✓	8-14-10W SE SW NE ✓	1803	3990	-2187	80 ft. gran. wsh. over gran.	Plate 7 in Fairbank (1959)	Arb.
Russell	Gulf Oil Corp. #5 Heard	30-14-12W SE SW SW ✓	1688	3323	-1635	gran.		Arb.
Russell	Magnolia #5 Trapp	31-14-12W cN $\frac{1}{2}$ NW NE ✓	1657	3276	-1619	gran.		Reag. snd.
Russell	Texas Company #11 Mohl	18-14-13W SW SE SE ✓	1812	3342	-1530	24 ft. gran. wsh. over gran.		Reag. snd.
Russell	Cities Service Oil Co. #2 Marsh "C"	29-14-12W cSNE SW ✓	1670	3400	-1730	29 ft. gran. wsh. over gran.		Arb.
Russell	Cooperative Refinery Assoc. #6 Ehrlich ✓	19-14-13W SW NE SE ✓	1783	3204	-1421	11 ft. gran. wsh. over gran.		Lans.
Russell	Coralena #1 Ehrlich ✓	19-14-13W SE SW ✓	1762	3166	-1404	gran. wsh.		Kans. City

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Cities Service Oil #1 Phinney ✓	19-14-13W SE c SE ✓		3165	<del>-3171</del>	gran. wsh.		Lans.
Russell	El Dorado Refg. Co. #3 George Rein ✓	20-14-13W NW NW NW ✓	1803	3330 <del>3340</del>	-1527 <del>-1537</del>	10 ft. gran. wsh. over gran.		Reag. snd.
Russell	Shields #1 "C" Rogg ✓	20-14-13W SE SE SE ✓	1766	3260	-1494	gran.		Kans. City.
Russell	Texas Co. #12 Goodheart ✓	25-14-13W NE SW SE ✓	1678	3284	-1606	gran.		Arb.
Russell	The Texas Co. #14 Goodheart ✓	25-14-13W NE SE SE ✓	1709	3302	-1607	13 ft. gran. wsh. over gran.		Arb.
Russell	Mid Continent Petro. Corp. #5 Letsch ✓	26-14-13W SE NW ✓	1697	3335	-1638	gran.	x	Lans.
Russell	Braden & McClure #3 Opdycke ✓	29-14-13W NW NW NW ✓	1764	3216	-1452	gran.		congl.
Russell	Cities Service Oil #1 Opdycke ✓	29-14-13W cS NE NW ✓	1750c	3219	-1469c	gran.	x	Reag. snd.
Russell	Skelly Oil Co. #3 W. Opdycke ✓	29-14-13W SWc NW ✓	1741	3141	-1400	gran. wsh.		Lans.
Russell	Hall #9 Miller ✓	30-14-13W SW SW ✓	1739	3117	-1378	gran. wsh.		Lans.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	J. J. Hall #30 Elizabeth Miller ✓	30-14-13W cN NW SE ✓		3118		gran. wsh.		Lans.
Russell	Cities Service Oil Co. #3 "D" Miller ✓	31-14-13W S NW SE ✓	1698	3099	-1401	quartzite		Reag. snd.
Russell	Texas #2 Schnoor ✓	31-14-13W NW NE SW ✓	3122 1738	3122	-1384	quartzite		Lans.
Russell	Darby #1 Letsch ✓	34-14-13W ✓	1703	3226	-1523	gran.		Reag. snd.
Russell	Cooperative Refinery Assoc. #6 Boxberger "W" ✓	3-14-14W cS NE SW ✓	1824	3325	-1501	gran. wsh.		Arb.
Russell	Cities Service Oil Co. #1-C Boxberger ✓	4-14-14W SE SW ✓	1862	3350	-1488	gran. wsh.		Congl.
Russell	Phillips Petro. Co. #1 B Amelia	6-14-14W SE SW ✓	1884	3305	-1421	gran.	x	Lans.
Russell	Phil-Han #1 Brown Estate "B"	6-14-14W NE NE NE	1859	3338	-1479	gran. wsh.		Reag. snd.
Russell	Mizel Miller #1 Brown ✓	6-14-14W NE NE SE ✓	1877	3531	-1654	gran. wsh.		Reag. snd.
Russell	C. E. Ash & L. B. Smith #1 Matilda Brown	7-14-14W NE SE NE	1899	3346	-1447	quartzite	at wichita	Reag. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Ash-Smith #1 "A" Anschutz	8-14-14W NW NW NW	1893	3367	-1474	quartzite		congl.
Russell	Hinkle #1 Krug	8-14-14W SE SW	1884	3308	-1424	quartzite		congl.
Russell	B. & R. Drilling Inc. #1 Newcomer	10-14-14W SE SE SW	1852	3279	-1427	gran. wsh.		Gorham snd.
Russell	Bennett & Roberts #5 "C" Newcomer	10-14-14W S SW SW	1858	3653	-1795	gran. wsh.		Reag. snd.
Russell	Stanolind Oil & Gas Co. #5 Newcomer	10-14-14W NE SW NE	1833	3306	-1473	gran.		Reag. snd.
Russell	Hartman #1 Hildebrand	12-14-14W	1769	3330	-1561	gran.		congl.
Russell	Hartman Blair #2 D. Boxberger	14-14-14W c E SE SE	1819	3299	-1480	gran.		congl.
Russell	United Drilling #2 Boxberger	14-14-14W SW NW SW	1835	3231	-1396	gran. wsh.		B/KC
Russell	Bennett & Roberts Drilling #1 "B" Boxberger	15-14-14W NE SW NE	1849	3261	-1412	gran. wsh.	x	Lans.
Russell	Cities Service Oil Co. #1 Boxberger "D"	15-14-14W SWc NE		3259	-1400c	gran. wsh.	x	Lans.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

1920

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Hartman Blair #1 Fink	15-14-14W SW c SW	1900	3310	-1410	60 ft. gran. wsh. over gran.		Lans.
Russell	Gulf #4 Fink	15-14-14W NW SE	1852	3254	-1402	gran.		Lans.
Russell	Coralena #1 Fink	15-14-14W cSE SW	1876	3288	-1412	gran.	x	Kans. City
Russell	Jones, Shelburne & Farmer Inc. #1 Boxberger	16-14-14W SE NE NE ↗	1863	3315	-1452	gran. wsh.		congl.
Russell	H. B. Shumaker #2 Coady "B"	16-14-14W ↙ NESE SW	1873	3275	-1402	gran. wsh.		Lans.
Russell	Coop. Refg. Assn. #3 Fink	16-14-14W SW SE SE	1887	3306	-1419	gran.		Gorham snd.
Russell	Hartman Blair #1 Fink	16-14-14W SW NW SE	1897	3316 <del>3390</del>	-1419 <del>-1429</del>	74 ft. gran. wsh. over graphitic schist <del>gran. wsh.</del>		Lans.
Russell	H. B. Shumaker #1 Fink	16-14-14W ↙ NW SW SE	1884	3287	-1403	gran. wsh.		Lans.
Russell	Palmer Oil Corp. #1 Hill	16-14-14W NW NW SW	1869	3299	-1430	gran. wsh.		Reag. snd.
Russell	Phil-Han #1 Hill	16-14-14W SW SW	1859	3280	-1421	50 ft. gran. wsh. over gran.		Lans.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

PAGE \_\_\_\_\_

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Russell	Jones, Shelburne & Farmer #1 "B" Krug	17-14-14W NW NW NW	1886	3324	-1438	quartzite		congl.
Russell	Cities Service Oil Co. #5 Vaughn	17-14-14W NWc SW	1876	3271	-1395	quartzite		
Russell	Cities Service Oil Co. #6 Vaughn	17-14-14W NE NE SW SW		3303		quartzite		Reag. snd.
Russell	Empire Oil & Refg. Co. #1 Vaughn	17-14-14W SWc SW	1861	3224	-1363	quartzite	x	Lans.
Russell	Phillips Petro. #3 Carroll	18-14-14W NE SE SE	1880	3171	-1291	quartzite		Lans.
Russell	Phillips Petro. #4 Carroll	18-14-14W SE NE SE	1882	3240	-1358	quartzite, top 7 ft. "weathered"		Lans.
Russell	Simon Lebow et al #3 M. Reinhardt	19-14-14W NW SW SE	1829	3475	-1646	gran. wsh.		Reag. snd.
Russell	The Texas Co. #9 Brandenburg	20-14-14W SE NW NW	1853	3184	-1331	quartzite		Lans.
Russell	Central Petroleum Co. #1 Crissman	20-14-14W SW NW NE	1872	3331	-1459	gran.	x	congl.
Russell	The Texas Co. #1 Inez Rusch "A"	20-14-14W SW SE	1839	3278	-1439	quartzite		Reag. snd.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian Surface			
Russell	Martin et al #1 Becker	21-14-14W SE SE SW	1868	3330 -1462	gran. wsh.		Marmaton
Russell	Helm & Payne & Ohio Oil #3 Boxberger	21-14-14W cS NE	1864	3260 <del>3272</del> -1397 <del>-1408</del>	11 ft. gran. wsh. over gran.	x	Lans.
Russell	Skelly <i>can't find</i> #1 Boxberger	21-14-14W		3338	schist & gneiss		Reag. snd.
Russell	Natl. Refg. dpn. by Coop. #1 Hall	21-14-14W SEc SE	1815	3233 -1418	gran.	(Loichita) x	Lans.
Russell	Texas #5 "B" Boxberger	22-14-14W SW NE NE	1837	3220 -1383	gran.		Lans.
Russell	Duke & Wood #1 Hall	22-14-14W E2 E2 NW	1876	3270 -1394	gran. wsh.		Lans.
Russell	Duke & Wood #4 Hall	22-14-14W CS2 NW NW	1898	3290 -1392	gran. wsh.		Lans.
Russell	Darby Petro. Corp. #1 Boxberger	22-14-14W SWc SE	1839	3210 -1371	gran. wsh.	(above Precamb.) x	B/KC
Russell	Gypsy #1 Gurney	23-14-14W NW SE	1807	3200 -1393	gran. wsh.		Lans.
Russell	Hartman Blair #2 Gurney	23-14-14W NW NE NW	1818	3220 -1402	gran. wsh.	x	Lans.
Russell	The Texas Co. #2 E. P. Gurney	23-14-14W NW SW NE	1804	3218 -1414	gran. wsh.		Lans.

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Surface			
Russell	Harry Gore #5 "B" Gurney	23-14-14W SW NW SE	1810	3245	-1435	gran. wsh.	Lans.
Russell	Harry Gore & NCRA #6 Gurney "B"	23-14-14W S NE SE	1793	3194	-1401	55 ft. gran. wsh. over gran.	Lans.
Russell	Cities Service Oil Co. #5 "A" Ebel	24-14-14W NE SW SW	1794	3193	-1399	gran. wsh.	Lans.
Russell	Cities Service Oil Co. #6 "A" Ebel	24-14-14W SE NW SW	1797	3197	-1400	gran. wsh.	Lans.
Russell	Cities Service Oil Co. #7 Ebel "A"	24-14-14W NE NW SW	1795	3192	-1397	gran. wsh.	Lans.
Russell	Cities Service Oil Co. #4 Ebel "B"	24-14-14W cN SW SE				<i>170 ft. gran. over met. rock 6 ft. gran. wsh. over gran.</i>	X Lans.
Russell	Cities Service Oil Co. #8 Ebel "B"	24-14-14W cS NW SE	1738	3137	-1400	gran. wsh.	Lans.
Russell	Cities Service Oil Co. #11 Ebel "B"	24-14-14W NW NE SE	1758	3159	-1401	gran. wsh.	Lans.
Russell	Empire Oil & Refg. #1 Ebel	24-14-14W SWc SW	1786	3188	-1402	gran. wsh.	Lans.
Russell	Cities Service Oil Co. #4 "A" Ebel	24-14-14W SE NE SW	1774	3186	-1412	gran. wsh.	Lans.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 30

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Cities Service Oil #2-A Ebel	24-14-14W cS SE SW	1772	3172	-1400	gran. wsh.		
Russell	Stanolind #9 Ben Rein	25-14-14W cW E NW		3162		gran. cutting schist	X	Arb.
Russell	Cities Service Oil Co. #2 Hickery	25-14-14W cW SW SE		3179		45 ft. gran. wsh. over gran.		Lans.
Russell	Cities Service Oil Co. #3 Hickey	25-14-14W cN NE SE		3150		gran. wsh.		Lans.
Russell	Cities Service Oil Co. #5 Hickey	25-14-14W cS NW SE		3138	-1390	gran. (wsh.)	X	Lans.
Russell	Cities Service Oil Co. #6 Hickey	25-14-14W SE NE SE	1741	3128	-1387	gran. wsh.		Kans. City
Russell	Skelly Oil Co. #9 Rein	25-14-14W cN NE SW		3135		gran.		Reag. snd.
Russell	Stanolind #2 Rein	25-14-14W NW NW	1777	3167	-1390	gran. wsh.		Lans.
Russell	Stanolind #4 Ben Rein	25-14-14W cS SW NW	1769	3158	-1389	gran.	X	Lans.
Russell	Stanolind #7 Ben Rein	25-14-14W cS SE NE		3155		gran. (wsh.)	X	Lans.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 34

County	Company, well number, and farm.	Location	Surface Depth to Precambrian			Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Precambrian	Surface			
Russell	Skelly #8 Ben Rein	25-14-14W cS NE SW		3148			x	Lans.
Russell	Hartman & Blair, Inc. #5 Boxberger	26-14-14W SE NW NE		3180		gran. wsh.		Lans.
Russell	Hauert Sackrider #1 Boxberger	26-14-14W SWc SE	1775	3207	-1432	gran. wsh.		Lans.
Russell	Alva Billings #1B Herbel	26-14-14W SEc SW	1773	3204	-1431	gran. wsh.		Lans.
Russell	Saco Oil Co. #2 Krug "B"	26-14-14W NWc NW	1798	3191	-1393	44 ft. gran. wsh. over gran.		Lans.
Russell	Trans.-Era Petroleum #1 Krug "B"	26-14-14W NW SW NW	1796	3195	-1399			Kans. City
Russell	Cities Service Oil Co. #1 Herble	26-14-14W NE SW	1784	3209	-1425	gran. (or Sooy cong.?)		
Russell	J. Driscoll #1 Driscoll	27-14-14W E SE SW	1806	3226	-1420	gran. wsh.		Lans.
Russell	Stanolind #3-B Krug	27-14-14W cS N SE		3162	-1367	quartzite	x	Reag. snd.
Russell	Stearns & Vernon #2 "B" Olson	28-14-14W cE SE NE	1804	3226	-1422	quartzite	x	Lans.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

PAGE 24

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Reasement
Russell	Westgate Greenland #2 Rusch	29-14-14W cW SE NE		3332		granitic gneiss and muscovite quartzite	x	Reag. snd.
Russell	Charles Newbold et al Simpson Oil Co. #1 Rusch	33-14-14W cW NW SW	1759	3201	-1441	gran. wsh.	x	Arb.
Russell	El Capitan Oil Co. #2 "A" Mai	34-14-14W SW NW NE	1802	3333	-1531	gran.		congl.
Russell	Phil Han Oil Co. #1 Mai	34-14-14W cN S NE	1795	3220	-1425	gran. wsh.		congl.
Russell	Alva Billings #2 A Herbel	35-14-14W SE NE NW	1769	3191	-1422	gran. wsh.		Lans.
Russell	Braden Oil Co. #2 Herbel	35-14-14W NW NW NW	1785	3190	-1405	gran. wsh.		Reag. snd.
Russell	Empire Oil & R. #2 A Strecker	35-14-14W SW NW NE	1778	3178	-1400	gran. wsh.		B/KC
Russell	Empire O. & R. #3 A Strecker	35-14-14W NE NW NE	1774	3181	-1407	gran. wsh.		Gorham sand.
Russell	Cities Service #4 A Strecker	35-14-14W NW SW NE	1749	3164	-1415	gran. wsh.		Arb.
Russell	Cities Service Oil Co. #5 A Strecker	35-14-14W SW NE		3255	-1510	schist and quartzite with quartz veins	x	Gorham snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

55

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Cities Service Oil Co. #8 "A" Strecker	35-14-14W NE NE	1770	3164	-1394	gran. wsh.	x	Lans.
Russell	Cities Service Oil Co. #11 "A" Strecker	35-14-14W cE SE Nc		3173		gran. wsh.		Reag. snd.
Russell	Texas #1 "D" Keil	36-14-14W cW NW SE	1632	3124	-1492	schist and speckled quartzite	x	Kans. City
Russell	Phillips Petroleum Co. #2 F. Michel	36-14-14W SE SW NW	1758	3160	-1402	quartzite	x	Lans.
Russell	Cities Service Oil Co. #7 "B" Strecker	36-14-14W cS N NE	1751	3145	-1394	gran. wsh.		Reag. snd.
Russell	Cities Service Oil Co. #1-C Strecker	36-14-14W NE NW SW		3140		muscovite quartzite gran. wsh.	x	Lans.
Russell	Cities Service Oil Co. #2-B Strecker	36-14-14W cW NW NE		3173		gran.		Lans.
Russell	C&O #1-B Strecker	36-14-14W NENE	1740	3125	-1385	gran.		-
Russell	Cities Service Oil Co. #3-B Strecker	36-14-14W cW SW Nc		3152		gran.		Reag. snd.
Russell	Texas #2 Keil	36-14-14W cE <sup>2</sup> NW SE		3134		quartzite		
Russell	Texas #5 Anshutz	1-14-15W SW Cor.	1879	3390	-1511	gran.		Gorham snd.
Russell	Texas Co. #11 "C" Anshutz	1-14-15W cE E SW	1867	3365	-1499	gran.		Reag. snd.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Plan	Precambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Russell	Gulf Oil Corp. #7 Ehrlich	1-14-15W NE SE NW	1878	3465	-1587	gran. wsh.	X	Arb.
Russell	Texas Co. #1 "B" A. Dumlér	1-14-15W cSW SE	1871	3385	-1514		x	Gorham snd.
Russell	Cities Service Oil Co. #15 Crawford	2-14-15W SE SW	1882		-1513			Gorham snd.
Russell	Alva Billings #23 Witt	3-14-15W NE SW SW	1866	3289	-1423	gran.		Lans.
Russell	Billings #31 Witt	3-14-15W SE SW	1881	3360	-1479	gran.		Gorham snd.
Russell	Alva Billings #32 Witt	3-14-15W SE c SW	1875	3315	-1440	gran. wsh.		Gorham snd.
Russell	Bridgeport Mach. Co. #4-B A. H. Witt	3-14-15W NE c SW	1883	3315	-1432	gran.		Arb.
Russell	Central Petroleum Co. #8 Witt	3-14-15W NW SW SE	1878	3306	-1428	gran.		Lans.
Russell	Stanolind #5 Benso	4-14-15W NW NW SW	1893	3274	<del>3400</del> -1381	gran. + schist	x	Gorham snd.
Russell	Stanolind Oil & Gas Co. #7 Benso	4-14-15W NW SW SW	1886	3403	-1517	gran.		Gorham snd.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian			Type of Rock	S.G.S.K. Samples	Formation on Reagent
			Elevation	Precamb. Plan	Surface			
Russell	Stearns & Streeter #1 Benso	4-14-15W SE c SW	1880	3269	-1389	gran.		Lans.
Russell	Riggs Supply Co. #2 "D" Bortland	4-14-15W SE SE NW		3280		gran.		Gorham snd.
Russell	Bridgeport Machine Co. #1 "A" Mills	4-14-15W cN NE NE	1898	3308	-1410	gran.	x	Gorham snd.
Russell	Stanolind Oil & Gas #12 "D" Dortland	5-14-15W	1877	3278	-1401			congl.
Russell	Phil-Han Oil Co. #1 Foster-Aley	6-14-15W SEc NE	1874	3281	-1407	syenitic gran.	x	Lans.
Russell	Bridgeport Machine Co. #3 Dortland	8-14-15W C NE	1871			gran.		Lans.
Russell	Day & Keys #2 Dortland	8-14-15W	1880	3251	-1371	gran.		
Russell	Allison #1 Swartz	8-14-15W NEc NW	1876	3257	-1381	gran. wsh.		Lans.
Russell	Central #1 Benson	9-14-15W SE SW	1870	3308	-1438	gran.		Lans.
Russell	O. Furthmeyer #1 Furthmeyer	9-14-15W	1848	3234	-1386	6 ft. gran. wsh. over gran.		B/KC

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Plan	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	A. H. Witt #1 Furthmeyer Jr.	9-14-15W SE NE SE	1858	3263	-1405	16 ft. gran. wsh. over gran.	x	Lans.
Russell	Producers & Refiners #1 Mermis	9-14-15W SW NW NE	1870	3260	-1390			Lans.
Russell	W. E. Wickizer #1 Benso	9-14-15W NE NW SW	1879	3268	-1389	gran.		Lans.
Russell	Saco Oil #1 Mills	10-14-15W NW Cor. NW	1864	3277	-1413			
Russell	Wolfcreek Oil Co. #1 Mills	10-14-15W SW c SW	1850			46 ft. gran. wsh. over gran.		
Russell	Wolfcreek Oil Mills #2 Mills	10-14-15W NE SE NW	1868	3284	- 1416	gran.		congl.
Russell	Wolf Creek Oil Co. #3 Mills	10-14-15W SE c NW	1865	3273	-1408	7 ft. gran. wsh. over gran.		congl.
Russell	Stanolind Oil & Gas Co. #3 A. H. Witt	10-14-15W cW NE SW	1855	3263	-1408	gran. wsh.	x	Gorh. snd.
Russell	Wormer-Bradley Oil Co. #1 Witt	10-14-15W SE NW NW	1863	3261	-1398	5 ft. gran. wsh. over gran.		Lans.
Russell	11-14-15W Darby Petroleum #3 Dumler "B"	11-14-15W SE SW NW	1865	3284	-1419	gran.		Arb.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Braden #3 Milberger	13-14-15W NE NW NE	1858			granite?		
Russell	Transwestern Oil Co. #1 Polcyn	14-14-15W cE SW NW		3202				Arb.
Russell	Haynes & Anschutz #1 Ball	16-14-15W SE NE NW	1864	3315	-1451	quartzite & sed. gneiss <del>gran. wsh.</del>	x	Lans.
Russell	Frontier Oil (Gobbert & Jones) #1 Rouback	16-14-15W E E NE	1857	3251	-1394	gran. wsh.		B/KC
Russell	Gross & Carlock #1 Rouback	16-14-15W	1857	3245	-1388	gran. wsh.		Lans.
Russell	Sunray Oil Corp. #1 Furthmeyer	22-14-15W NE NE SE	1812	3371	-1559	gran. wsh.		Reag. snd.
Russell	Sohio Petroleum #1 M. Preston	22-14-15W	1811	3383	-1572	gran. wsh.		Arb.
Russell	Murfin Drilling Co. #1 Furthmeyer	23-14-15W NE NE NW	1803	3325	-1522	gran.		Reag.
<del>Russell</del>	<del>Murfin Drilling Co. #1 Furthmeyer</del>	<del>23-14-15W NE NE NW</del>	<del>1789</del>	<del>3315</del>	<del>-1516</del>	<del>quartzite</del>		<del>Reag. snd.</del>
Russell	Palmer Oil Corp. #3 Niedenthal	23-14-15W cW SE SE		3171	-1416	?		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Russell	Phillips #2 Boxberger	24-14-15W SW NW	1808	3374	-1566	chloritic schist & quartzite	x	Arb.
Russell	Skelly #6 Ehrlich	25-14-15W cN SE NE	1796	3433	-1637	quartzite		Arb.
Russell	Lario #2 Brown-Wandley	26-14-15W NE SE	1746	3247	-1501	55 ft. gran. wsh. over gran.		Gorham snd.
Russell	Central Petroleum #1 Furthmeyer	28-14-15W NE c NE	1788	3295	-1507	gran.?		Arb.
Russell	Skelly #3 Opdyke	29-14-15W	1800	3175	-1375	gran.	x	
Ellis	Transit Corp. #2 Heyl	26-14-16W SE NW SW	1838	3653	-1815	gran. wsh.		Reag. wsh.
Ellis	Phillips #1 Brull	34-14-17W NE NW	1966	3831	-1865	gran.		Arb.
Ellis	Stanolind #1 "B" Riedel	5-14-19W NW SW SW	2227	c3858	c-1631	quartzite?		
Ellis	Brunson Drilling #1 Ward	31-14-19W SW SW NE	2102	3826	-1724	schist & quartzite	x	Reag. snd.
Ellis	Sunray Oil Corp. #2 "A" Pfeifer	2-14-20W	2217	3903	-1686	gran. wsh.		Reag. snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

1000 22

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Ellis	Helmerich & Payne #1 Kuhn	16-14-20W c NE	2216	3970	-1754	20 ft. gran. wsh. over gran.		Reag. snd.
Ellis	Rocket Drilling Co. #1 Seibel	21-14-20W NE SE NE	2243	3900	-1657	quartzite	x	Reag. snd.
Ellis	Keystone Petroleum #1 Jennie Lee	25-14-20W SE SE NE	2130	3839	-1709	quartzite		Reag. snd.
Trego	Central Comm. #1 Locker	12-14-22W SW NE SW	2229	4707	-2478	gran.		Reag. snd.
	Marathon #1 Kline	19-14-24W SW SE	2349	5052	-2703	gran. wsh.		Reag. snd.
✓ Morris	Cosden O. & G. #1 Whiting	24-15-7W SE NE SW	1384	2512	-1128	gran.		Arb.
✓ Ellsworth	Lario (Elwell) #1 State	29-15-8W SW SW	1641	3204	-1563	quartzite	x	Reag. snd.
Russell	Simon Lebon #4 Chegwiddden	29-15-11W	1772	3230	-1458	gran. wsh.		congl.
Russell	Mid Plains #1 Chegwiddden	29-15-11W SW SE	1833	3320	-1487	gran. (wsh.)		Gorham snd.
Russell	Mid Plains #1-B Chegwiddden	29-15-11W cN SE SW	1785	3256	-1471	gran. wsh.		Gorham snd.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

PAGE 00

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	H. H. Blair et al #1 A Foster	33-15-11W cS SE SE		3250		quartzite <del>gran. wsh.</del>	x	Arb.
Russell	Salina Drilling Corp. Inc. #1 Kiner	33-15-11W NE SE NW	1775	3444	-1669	gran. wsh.		Reag. snd.
Russell	Herndon #1 Phillips	34-15-11W SW SW SE	1856	3289	-1433	quartzite	x	congl.
Russell	Braden-McClure-Cares #1 Phillips	34-15-11W cN NW SE	1862	3305	-1443	Gran. wsh.		Gorham snd.
Russell	Shell Oil Co. #2 Major	4-15-12W NW NE	1766	3312	-1546	quartzite		Gorham snd.
Russell	Cities Service Co. #1 "B" Major	5-15-12W cE NE SE	1765	3200	-1435	gran. wsh.		Lans.
Russell	Shell-Skelly Oil Co. #1 - W Vejl	5-15-12W NEc NW	1764	3386	-1622	19 ft. gran. wsh. over gran.	x	snd.
Russell	Texas Co. #3 Kaufman	9-15-12W cS SW NW	1846	3212	-1366	gran. wsh.		Gorham snd.
Russell	Stanolind #2 Zeman	9-15-12W cN NE NE		3460		gran.	x	Reag. snd.
Russell	Bennett & Roberts Drilling #1 Kaufman	10-15-12W NW SW SW	1785	3255	-1470	quartzite	x	congl.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

PAK 61

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Skelly Oil Co. #1 Carl Heinze	13-15-12W SW SE SW	1862	3343	-1481			Reag. snd.
Russell	Bennett & Roberts Drlg. Inc. #1 Kastrup	15-15-12W cNW SE	1732	3192	-1460	quartzite		Arb.
Russell	Harry Gore #3 Kastrup	15-15-12W NW NW SW	1791	3332	-1541	52 ft. gran. wsh. over gran.		Reag. snd.
Russell	Harry Gore #4 Lemon	16-15-12W SW NE NE	1818	3029	-1211	gran.		Arb.
Russell	Skelly #3 "A" Parker	18-15-12W NW SW NW	1849	3529	-1680	quartzite		Reag. snd.
Russell	Sohio Petroleum Co. #2 Maier	20-15-12W cN SW SE	1853	3557	-1704	gran.		Arb.
Russell	Duke & Wood #6 Krause	21-15-12W NE SE NE	1793	3344	-1551	quartzite		Arb.
Russell	Lauck & Mancrief et al #1 Janne "A"	24-15-12W SWc NE	1846	3253	-1407	quartzite		Lans.
Russell	Geo. Siegrist & Stag Drlg. Co. #1 "A" Janne	24-15-12W cN NW NE	1859	3314	-1455	gran.	x	Reag. snd.
Russell	Jones, Shelburne & Farmer #1 Buhler	26-15-12W NW NW SW	1874	3275	-1401	quartzite		congl.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Reagent
			Elevation	Precambrian - Surface			
Russell	Lewis Drilling Co. #1 Brown	27-15-12W SE SE SW	1858	3216	-1358	quartzite	Lans.
Russell	Lewis Drilling Co. et al #3 Brown	27-15-12W NW SE SW	1810	3212	-1402	quartzite	x Lans.
Russell	Lewis Drilling Co. et al #4 Brown	27-15-12W SW SE SW	1802	3201	-1400	quartzite	Lans.
Russell	W. H. Black #1 Crosz	27-15-12W NW NE NE	1879	3330	-1451	gran. wsh.	congl.
Russell	Lewis Drilling Co. #2 Brown	27-15-12W NE SE SW	1845	3250	-1405	3 ft. gran. wsh. over gran.	Lans.
Russell	Murfin Drilling Co. #4 Janne	27-15-12W NW SW SE	1868	3293	-1425	quartzite	Lans.
Russell	Harry Gore #1 Klusener	28-15-12W NW SE NE	1791	3390	-1600	quartzite	congl.
Russell	D. T. Ingling #1 Klusener	27-15-12W NE SE SW	1845	3250	-1405	3 ft. gran. wsh. over gran. <sup>or</sup> quartzite	Lans.
Russell	D. T. Ingling #1 Klusener	27-15-12W SE SW	1845	3250	-1405	3 ft. gran. wsh. over gran.	x Lans.
Russell	Stearns Drilling Co. #2 Luermann	29-15-12W cE E SE	1855	3361	-1506	gran.	Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 93

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	El Dorado & Aylward Refg. #5 Meier	30-15-12W SE NE SW	1878	3458	-1580			Arb.
Russell	Woodriver Oil & Refining Co. #3 Ney	31-15-12W SE NW SE	1876	3387	-1511			congl.
Russell	N C R A #2 Hilgenberg	32-15-12W cS S SE	1813	3255	-1442			Lans.
Russell	Ferrell et al #2 Hilgenberg	32-15-12W SE NW SW	1851	3270	-1419	quartzite		Lans.
Russell	Shell Oil Co. Inc. #1 Hilgenberg	32-15-12W cN NE SE	1832	3331	-1500			Arb.
Russell	Wood River Oil & Refg. #1 Hilgenberg	32-15-12W NW NW SW	1854	3284	-1430	quartzite		B/KC
Russell	N C R A #1 Hilgenberg	32-15-12W SW SW SE	1830	3287	-1457	quartzite		Lans.
Russell	Sitirin #3 Galliard	34-15-12W SE NW SE	1883	3370	-1487 <del>-14051</del>	8 ft. gran. wsh. over gran.		congl.
Russell	Bennett & Roberts Drlg. #4 Hitchman	34-15-12W NW SE SE	1895	3422	-1527	gran. wsh.	x	Arb.
Russell	Phillips Petroleum Co. #1 Kluesner	34-15-12W SEc NW	1834	3350	-1516	quartzite (?)		congl.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	B & B Bailey #1 Galliart	34-15-12W NE SE SW	1871	3450	-1579	pegmatite in schist & quartzite		Arb.
Russell	Trapp Oil Co. #3 Gross	5-15-13W cN N NW	1748	3220	-1472	gran. wsh.		Lans.
Russell	Co-operative #2 Berrick	6-15-13W SW SW NE	1833	3300	-1467	gran. wsh.		congl.
Russell	Co-op. Refg. Assoc. #3 Berrick	6-15-13W NE SW NE	1812	3293	-1481	gran.		Lans.
Russell	Derby Oil et al #9 Krug	7-15-13W cW W NW	1864	3593	-1729	gran. wsh.		Arb.
Russell	Skelly Oil Co. #7 Geo. Rein	8-15-13W cN NE SW	1742	3440	-1698	gran. wsh.		Arb.
Russell	Skelly Oil Co. #9 George Rain	8-15-13W cN NE SE	1853	3225	-1372	gran.		Lans.
Russell	Empire #1 Hlad	10-15-13W SW NW SW	1866	3540	-1674	quartzite		Arb.
Russell	Sinclair Prairie Oil Co. #6 Sellens	15-15-13W S NE SW	1875	3535	-1660	quartzite		Reag.
Russell	Continental #10 Meharg	17-15-13W cN S NE	1838	3515	-1677	quartzite		Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

1888 05

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Base
Russell	Coralena Oil Co. et al #1 Sellens	17-15-13W Nwc NW	1767	3418	-1651			Arb.
Russell	Southern #4 Meharg	18-15-13W Nwc NE	1810	3574	-1764	gran. wsh.		Reag.
Russell	C R A #16 "W" Gale Sellens	19-15-13W C NE NE	1787	3501	-1714	quartzite	x	Reag.
Russell	Julian O. & R. #4 "C" Sellens	20-15-13W	1801	3531	-1730	gran. wsh.		Arb.
Russell	Kewanee Oil Co. #6 Berrick	24-15-13W NW SW SW	1835	3461	-1626	quartzite		Arb.
Russell	Sinclair Prairie Oil Co. #3 Hefferman	26-15-13W NW SW NE	1801	3405	-1604	<i>muscovite</i> quartzite	x	Arb.
Russell	Southern Leader #2 "A" Sellens	26-15-13W NW NE SW		3449		quartzite		Reag.
Russell	Coralena Oil #3 Chester Sellens	29-15-13W SW NW	1811	3555	-1744	gran.		Arb.
Russell	Southern Inc. #1A Boomhower	30-15-13W SE SE NE	1809	3532	-1723	gran.		Arb.
Russell	Empire Oil & Refg. #6 Sellens	30-15-13W NW SW SW	1854	3570	-1716	gran. wsh.		Reag.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

PLATE 60

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Gulf #14 Hoffman	31-15-13W NW SW	1836	3524	-1688			Reag.
Russell	Gulf Oil Corp. et al #16 Louis Hoffman	31-15-13W NE SW NW SW	1839	3528	-1689		x	Reag.
Russell	Phillips Petroleum #10 Hoffman	31-15-13W NE SW SE	1904	3585	-1681	gran.		Reag.
Russell	Derby et al #1 Michaelis	31-15-13W SE SE NW	1829	3482 <del>3508</del>	-1653 <del>-1679</del>	26 ft. gran. wsh. over gran.		Reag.
Russell	Shell Oil Company #1 Michaelis	31-15-13W NE SW NE	1836	3498	-1662			Reag.
Russell	Gulf Oil Corp. #14 Michaelis	32-15-13W E SW SW	1898	3582	-1684	gran.		Arb.
Russell	Skelly Oil Co. #3 John Niedens	32-15-13W NE SW NE	1888	3583	-1695	gran.		Arb.
Russell	Skelly #7 Neidens	32-15-13W SW SE	1851	3537	-1686	33 ft. gran. wsh. over gran.		Arb.
Russell	Michaelis #1 Michaelis (SWD)	33-15-13W	1893	3597	-1704	gran.		
Russell	Marland #1 Sellens	36-15-13W SE SE	1885	3523	-1637	quartzite		Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

page 07

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Plan			
Russell	National Co-op. Ref. Assn. #2 Michaelis	2-15-14W NE NE SE	1715	3560	-1845	gran. wsh. over quartzite <del>xxxxxxwsh.</del>	Reag.
Russell	Ohio Oil #2 Maier (SWDW)	10-15-14W SW SE SW	1773	3477	-1704	gran. wsh.	Arb.
Russell	Cities Service Oil Co. #4 A. Tittel	12-15-14W cE NE SW	1886	3538	-1652	quartzite	Reag.
Russell	Bennett & Roberts #5 Tittle	13-15-14W SE NW NW	1893	3598	-1705	gran. wsh.	Arb.
Russell	Phillips Petroleum #1 Kramer	14-15-14W NE NW SW	1885	3584	-1699	gran. wsh.	x Arb.
Russell	Champlin Refining Co. #5 "A" Tittle	14-15-14W NW SW SE	1878	3566	-1688	21 ft. gran. wsh. over gran.	Arb.
Russell	Empire - Cities Ser. Oil Co. #3-A Krug	24-15-14W NW NW	1905	3599	-1694	<i>magnetite-rich bands in</i> quartzite; over syenite	x Reag.
Russell	Empire Oil Refg. - C. S. O. #1-A Bender	26-15-14W NE NE	1894	3616	-1722	gran. wsh.	Reag.
Russell	Skelly #1 Mai	35-15-14W NW NE SW	1915	3582	-1667	quartzite	Arb.
Russell	Coralena Oil Co. #9 Deines	36-15-14W NE NW NE	1847	3526	-1679		Reag.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian Surface	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Russell	Coop. Refg. Col #1 A Blem	10-15-15W SW NE NE		3271		gran.		congl.
Russell	Wolf Creek Oil Co. #1 Donovan "B"	10-15-15W cS NE SE	1800c	3319	-1519c	gran. wsh.		B/KC
Ellis	Labette Petroleum #1 Urban	19-15-16W NW NW	1953	3813	-1860		x	Arb.
Ellis	National Co-op. Ref. Assn. #1 Alex Leiker	30-15-17W Nw c SW	1952	3774	-1822	gran. wsh.	x	Arb.
Ellis	Jones, Shelburne & Farmer #5 Madden "C"	9-15-18W SW SW SW	1988	3850	-1862			Reag.
Ellis	Francis Oil & Gas #1 Wasinger	10-15-18W SE c SE	2003	3840	-1833		x	Reag.
Ellis	H. H. & B. Drlg. Co. #3 Engel	21-15-18W cS NE SE	2004	3818	-1814	gran.	x	B/KC
Ellis	Skelly #1 Fidelis Engel	21-15-18W NE NW SE				?		
Ellis	Transit Corporation # Werth	29-15-18W SW SW SW	1936	3574	-1638	quartzite		Arb.
Ellis	Herndon Drilling Co. #1 Younger	6-15-19W NE NE SE	2053	3755	-1702	quartzite		Arb.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Precambrian	Precambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Ellis	Flowinoy & Haston #1 Urban	11-15-19W NW NW SW	2030	3725	-1695	quartzite		Reag.
Ellis	Musgrove Petroleum Corp. #1 Hanschild	16-15-19W NE NE SW	2014	3636	-1622	quartzite		Reag.
Ellis	D. R. Lauck #1 Werth	19-15-19W SE SE SE	2061	3742	-1681	quartzite		Reag.
Ellis	W. J. Coppinger #1 Schmidt	21-15-19W SW SW SW	2065	3735	-1670	quartzite	x	Reag.
Ellis	Empire #1 Here	22-15-19W SE	1949	3583	-1634	gran. wsh.		congl.
Ellis	Virginia Drilling Co. #1 Zimmerman	36-15-19W SEc NW	1992	3592	-1600	quartzite		Arb.
Ellis	Deep Rock #1 Warren	11-15-20W NE NE NW	2032	3709	-1677	quartzite		Reag.
Ellis	Stanolind #1 Wand	12-15-20W NW SW SE	1990	3702	-1712	10 ft. gran. wsh. over gran.		congl.
Ellis	Bradley Oil Co. #1 Penney-Wann	13-15-20W SEc SE	2045	3655	-1610	gran. wsh.		Kans. City
Ellis	Falcon-Seaboard Drilling Co. #1 Penny	14-15-20W NW NW	2067	3847	-1780	gran.		congl.

WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

County	Company, well number, and farm.	Location	Surface Depth to Precambrian		Type of Rock	S.G.S.K. Samples	Formation on Basement
			Elevation	Surface			
Ellis	Buffalo & Rine Drilling #1 Mutual	28-15-20W SW SW NW	2191	3988 <del>4010</del>	-1797 <del>-1819</del>	22 ft. gran. wsh. over gran. x	Reag.
Ellis	Schafer Drilling Company #1 Elmore	35-15-20W NE NE NE	2171	3870	-1699	quartzite	congl.
Ellis	Texas Co. #1 Elmore	35-15-20W SE SW	2164	3814 <del>3839</del>	-1650 <del>-1675</del>	25 ft. gran. wsh. over gran.	B/KC
Logan	Alma Oil Co. #1 Watchorn	13-15-33W SW NE	2780	5630	-2850	30 ft. gran. wsh. over gran.	Arb.
Ellsworth	Phillips Petroleum Co. #1 Wrightsman	3-16-8W C SW	1565	3550	-1985		Arb.
Rush	Bennett & Roberts #1 Legleiter	30-16-8W NE NE SE	2009	3616	-1607	quartzite	
Ellsworth	Independent #1 Gregory	24-16-9W Cen. SW	1738	3892	-1954	gran. wsh.	Reag.
Ellsworth	Nat'l. Coop. Refg. Assn. #5 Harbacek	7-16-10W cW NE NW	1860	3827	-1967	gran. wsh.	Arb.
Ellsworth	Elwell #5 Lanzel	20-16-10W W E SE	1844	3759	-1915	gran.	Arb.
Ellsworth	Gulf-Standlind #1 Frevert	21-16-10W NEc NE	1880	3883	-2003	gran.	Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Ellsworth	Magnolia #7 Schroeder	26-16-10W cW W SW	1839	3870	-2031			Reag.
Ellsworth	Atlantic Refg. Co. #5 Stoltenberg	27-16-10W SW SE	1810	3823	-2013 <del>-2036</del>	17 ft. gran. wsh. over gran.	X	Reag.
Ellsworth	Atlantic Refg. Co. #7 "E" Stoltenberg	27-16-10W cSW SE	1815	3816	-2001	gran. wsh.		Reag.
Ellsworth	Artnell Oil Co. #4 "B" Stoltenberg	28-16-10W C SW	1831	3772	-1941	19 ft. gran. wsh. over gran.		Arb.
Ellsworth	Lauch & Moncrief et al #3 Meyer	35-16-10W NEc NW	1836	3878	-2042	55 ft. gran. wsh. over gran.		Reag.
Barton	C. E. Ash et al #1 Montgomery	11-16-11W NWc NW	1871	3345	-1474	gran.	x	Gorham
Barton	Sinclair Prairie Oil Co. #1 Martha Oeser	17-16-11W SE SE SW	1880	3253	-1373	gran. + schist?	x	B/KC
Barton	Sinclair Prairie #2 Ed Oeser	17-16-11W SEc				quartzite	x	Reag.
Barton	Sinclair Prairie #1 Edward Oeser	17-16-11W NE SE	1848	3272	-1424	quartzite	x	congl.
Barton	Sinclair Prairie Oil Co. #3 Ed Oeser	17-16-11W NE SW SW SE	1852	3239	-1387	quartzite	x	Kans. City

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Sinclair Oil & Gas #5 Ed Oeser	17-16-11W SW NW SE	1869	3278	-1409			Lans.
Barton	Sinclair Oil & Gas #5 M. Oeser	17-16-11W NE SE SW	1882	3277	-1395			Lans.
Barton	Sinclair Oil & Gas #6 M. Oeser	17-16-11W SE NE SW	1869	3277	-1408	quartzite		congl.
Barton	Black-Marshall Oil Co. #6 Krier	18-16-11W SE SW NW		3372		gran. wsh.		Reag.
Barton	Brunson Drilling Co. #7 Redetzke	18-16-11W N SW SE	1887	3436	-1549	gran. wsh.		Arb.
Barton	Solar Oil & Sinclair #1 Schartz	18-16-11W SEc NE	1883	3471	-1588	gran.		Arb.
Barton	Solar #2 K. Schwartz	18-16-11W cS SW NE	1850	3250 <del>3247</del>	-1400	schist and quartzite	x	
Barton	Solar #3 Schartz	18-16-11W NE NE	1871	3282	-1410	quartzite		B/KC
Barton	Solar #7 Schartz	18-16-11W SW NE NE	1860	3271	-1411	quartzite		congl.
Barton	Solar Oil Co. #8 Schartz	18-16-11W SE SW NE	1873	3356	-1483	gran. wsh.		congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Black-Marshall #4 Hoffman	19-16-11W NE SW	1908	3375	-1467	gran.		Lans.
Barton	Black & Marshall #1 A. S. Redetzke	19-16-11W SE SW SE	<del>1800</del>	3343	<del>1456</del>	quartzite	x	Reag.
Barton	Continental Oil Co. #2 J. G. Esfeld	20-16-11W CE SW SW	1881	3322	-1441	quartzite		congl.
Barton	Sinclair Oil & Gas Co. #7 Prusa	20-16-11W SE SW SE	1868	3400	-1532	35 ft. quartzite over <del>gran. schist</del> schist		Reag.
Barton	Sinclair Prairie Oil #4 Mary Prusa	20-16-11W SW SE	1843	3350	-1507	gneiss and schist; <del>gran. schist</del> pegmatite	x	Reag.
Barton	Sinclair Prairie #1 Peter Schmitt	20-16-11W NE NW	1865	3297	-1432	quartzite + schist	x	Reag.
Barton	Sinclair Prairie Oil Co. #1 Prusa	21-16-11W NW NW SE	1877	3504	-1627	quartzite	x	Reag.
Barton	Gulf, Hinkle & Stanolind #8 Willenberg	27-16-11W SW NW NW	1914	3511	-1597	gran.		Arb.
Barton	Sinclair Prairie et al #9 "C" Seyfert	28-16-11W NW NE NW	1918	3509	-1591	gran.		Arb.
Barton	Sohio Petroleum Co. #4 Dolechek	29-16-11W CW W SE	1906	3368	-1452	quartzite		congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Derby Oil Co. #1 Esfield	29-16-11W SW c NW	1889	3297	-1408	leached quartzite	<i>core</i>	Arb.
Barton	Derby #2 Esfeld	29-16-11W NE SW NW	1888	3333	-1445	quartzite	x	congl.
Barton	Derby #3 Esfeld	29-16-11W NW SW NW	1881	3292	-1411	quartzite	x	Lans.
Barton	Derby Oil Co. #4 Esfeld	29-16-11W SW NW NW	1899	3324	-1425	quartzite		Lans.
Barton	Gulf Oil Corp. #1 Joseph Kolechek	29-16-11W NW c SW	1898	3315	-1417			Reag.
Barton	Skelly #6 E. F. Esfeld	30-16-11W cE SW NE	1930c	3300	-1370c	quartzite	x	Lans.
Barton	Skelly #7 Esfeld	30-16-11W NW NE	1904	3287	-1383	gran.		Lans.
Barton	Skelly Oil Co. #9 Esfeld	30-16-11W cN NE NE	1895	3355	-1460	quartzite		congl.
Barton	Skelly Oil Co. #4 E. F. Esfeld "A"	30-16-11W cW SW NE		3286½		quartzite		Kans. City
Barton	B. B. & M. Krier #1	30-16-11W cE SE SE	1913	3325	-1412	gran.		B/KC

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Brunson Drilling Co. et al #5 A. Krier	30-16-11W NW NE SE	1905	3260	-1355	quartzite	x	Lans.
Barton	Brunson Drilling Co. Inc. #8 Drier "A"	30-16-11W eW SE SE	1923	3254	-1331	quartzite		Lans.
Barton	Brunson Drilling Co. #3 "C" Krier	30-16-11W SW SW SE	1929	3265	-1336	quartzite		Lans.
Barton	Brunson Drilling et al #4 "C" Krier	30-16-11W NW SW SE	1930	3293	-1363	quartzite		Lans.
Barton	George Johnson #1 Oeser	30-16-11W CE NE SW		3284		quartzite	X	Lans.
Barton	M. P. Springer et al #5 N. Oeser	30-16-11W SW SW NW	1924	3297	-1373	quartzite		Lans.
Barton	S. A. Springer et al #5 So Oeser	30-16-11W NW NW SW	1924	3294	-1370	quartzite		Lans.
Barton	Springer Interests et al #7 Oeser	30-16-11W NW SW SW	1913	3260	-1347	quartzite		Lans.
Barton	Springer Interests et al #8 Oeser	30-16-11W SW NW SW	1916	3256	-1340	quartzite		Lans.
Barton	The Texas Co. #2 A. Janssen	31-16-11W NE NW SE	1897	3372	-1475	quartzite		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Harms & Knight Drilling Co. #1 Janssen "B"	31-16-11W NW SW SE	1884	3312	-1428	quartzite		Arb.
Barton	Black-Marshall #3 Valenta	31-16-11W SW NW NE	1920	3153	-1233	quartzite		Kans. City
Barton	Natl. Coop. Refg. Assn. #6 Valenta	31-16-11W S <sub>w</sub> NE NE	1908	3332	-1424			Reag.
Barton	Natl. Coop. Refg. Assn. #7 Valenta	31-16-11W NW NE NE	1916	3308	-1392			Reag.
Barton	Skelly Oil Company #3 Valenta	31-16-11W NW SW NE	1903	3288	-1385	quartzite		Lans.
Barton	Skelly Oil Company #4 Valenta	31-16-11W NW SE NE	1906	3372	-1466	quartzite		Arb.
Barton	Vickers #1 Valenta	31-16-11W NE NE	1909	3278	-1369	quartzite		Gorham
Barton	Skelly #1 J. F. Zorn	31-16-11W NW NW	1898	3269	-1371	quartzite	x	Lans.
Barton	Skelly #2 Zorn	31-16-11W NE SE NW	1924	3273	-1349	quartzite	X	Lans.
Barton	Skelly Oil Co. #3 Zorn	31-16-11W NE NE NW	1926	3152 <del>3160</del>	-1326	quartzite		Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Skelly #5 Zorn	31-16-11W NW NE NW	1911	3265	-1354	quartzite		Lans.
Barton	Skelly Oil Co. #6 Zorn	31-16-11W S N NW	1905	3242	-1337	quartzite		Lans.
Barton	Skelly Oil Company #7 Zorn	31-16-11W N S NW	1898	3182	-1284	quartzite		Lans.
Barton	Derby #4 Bernstorff & Janke	33-16-11W SE NE	1938	3662	-1724	40 ft. gran. wsh. over quartzite	x	Arb.
Barton	Murfin Drilling Co. #6 Frees	34-16-11W NW NE NW	1939	3554	-1615	gran. wsh.		Arb.
Barton	Phillips #2 Schauf	1-16-12W SW NE SE				<i>pegmatitic</i> gran.	x	Arb.
Barton	Sinclair (Prairie) #1 Turgeon	3-16-12W NE NW	1886	3464	-1578	quartzite	x	Arb.
Barton	Darby Petroleum Corp. #1 Casey	4-16-12W SEc NW	1879	3393	-1514	gran. wsh.		Arb.
Barton	Jackson & Lindsley #1 Hilgenberg	5-16-12W NW NE NW	1822	3247	-1425	quartzite		Gorham
Barton	Natl. Coop. Refg. Assn. #3 Hilgenberg "A"	5-16-12W NW NW NE	1861	3336	-1475	quartzite		congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Phillips Petroleum Co. #1 Hilgenberg	5-16-12W SW NE NW	1860	3271	-1411	quartzite		Lans.
Barton	Phillips Petroleum Co. #3 Hilgenberg	5-16-12W SW SE NW	1858	3262	-1404	quartzite		Lans.
Barton	Phillips Petroleum Co. #4 Hilgenberg "A"	5-16-12W NW SE NW	1865	3264	-1399	quartzite		Lans.
Barton	Natl. Coop. Refg. Assn. #1 Hofmeister	5-16-12W NW SW NW	1829	3253	-1424	quartzite sand?		Lans.
Barton	Natl. Coop. Refg. Assn. #4 Hofmeister	5-16-12W SW SW NW	1820	3225	-1405	quartzite	<i>Wichita</i> x	Lans.
Barton	Natl. Coop. Refg. Assn. #5 Hofmeister	5-16-12W SE NW NW	1816	3226	-1410	quartzite		Reag.
Barton	Natl. Coop Refg. Assn. #6 Hofmeister	5-16-12W SE SW NW	1835	3229	-1394	quartzite		Lans.
Barton	Natl. Coop. Refg. Assn. #7 Hofmeister	5-16-12W NE SW NW	1821	3242	-1421	quartzite		Reag.
Barton	Phil. - Han #1 Standinger	5-16-12W SE SW SW	1868	3286	-1418	quartzite		Lans.
Barton	Phil-Han Oil et al #2 "A" Standinger	5-16-12W NW NW SW	1827	3240	-1413	quartzite		Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Phillips & Hanson #4 Standniger "A"	5-16-12W NE SW SW	1856	3276	-1420	quartzite		Lans.
Barton	Ben F. Brack Oil Co. #5 Standinger "A"	5-16-12W NE NW SW	1843	3236	-1393	quartzite		Lans.
Barton	Phil-Han #1 Depiesse	5-16-12W SW SE SW	1877	3289	-1412	quartzite		Lans.
Barton	Northern Ordnance #1 Bushnell "B"	8-16-12W NW SW NE	1883	3292	-1409	quartzite		Lans.
Barton	Franco-Central et al #7 Feltes	8-16-12W SE NE SE	1843	3302	-1459	quartzite		Lans.
Barton	Franco Central #8 Feltes	8-16-12W CN SE	1866	3350	-1484	gran.		Gorham
Barton	Martin & Hearing #5 Feltes	8-16-12W CW NW SE	1890	3285	-1395	<i>muscovite</i> quartzite	X	Lans.
Barton	Sinclair Prairie #1 Feltes	8-16-12W SE C SE	1892	3297	-1405	<i>muscovite</i> quartzite	X	Gorham
Barton	Texas Co. #1 Luerman	8-16-12W NE SE SW	1896	3299	-1403	gran. wsh.		Reag.
Barton	Gulf #1 Bushnell	8-16-12W		3294		gneiss	X	

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Black-Marshall #2 Turgeon	9-16-12W NE SW NW	1880	3322	-1442	gran. wsh.		congl.
Barton	Natl. Coop. Refg. Assn. #3 Turgeon "A"	9-16-12W SE SW NW	1880	3312	-1432	quartzite		congl.
Barton	Sunray & C. E. Ash. #3 Turgeon	9-16-12W NW NW SW	1899	3302	-1403 <del>-1303</del>	quartzite	X	Lans.
Barton	Sunray & Ash #4 Turgeon	9-16-12W SW NE SW	1902	3379	-1477	?		Reag.
Barton	Derby #1 Christians	10-16-12W CN SW SE	1905	3383	-1478	quartzite	x	Arb.
Barton	Joy Bergman #7 Weber	12-16-12W SE SW NW		3354		?		Arb.
Barton	Phillips #3 Weber	13-16-12W CS SE NW	1890	3474 <del>3364</del>	-1584	Gabbro	X	Arb.
Barton	Phillips Petroleum Co. #3 Weber	13-16-12W #3 Weber	1890	3474	-1584	quartzite	X	Arb.
Barton	Bradley & Lassen #1 Dolechek	13-16-12W NEc	c1880			schist and quartzite?	x	
Barton	Phillips Petroleum Co. #3 Theisen	14-16-12W S SE NW	1916	3426	-1510			Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Vickers Petroleum Co. #1 Kerr	15-16-12W NWc SE	1924	3457	-1533			Arb.
Barton	Transwestern #1 L. Kultgen	16-16-12W CS SE SW	1900c	3353	-1453c	quartzite	x	congl.
Barton	Darby #4 Kultgen	16-16-12W N NW	1907	3407	-1500	quartzite		congl.
Barton	Polk & Fortson et al #1 J. Kultgen	16-16-12W NE c SW	1910	3380	-1470	gran. wsh. ?		Reag.
Barton	Franco Central & Gore #1 Kultgen	16-16-12W SW NE SW	1915			quartzite ?		Reag.
Barton	Black-Marshall #1 Kultgen	17-16-12W SW SE SE	1910	3355	-1445	quartzite		Reag.
Barton	Franco Central Oil Co. #3 "A" Kultgen	17-16-12W NW NE NE	1891	3272	-1381	quartzite		Kans. City
Barton	Franco-Central et al #1 Lambert	17-16-12W W SW NE	1895	3307	-1412	quartzite		Lans.
Barton	Franco Central #2 Lambert	17-16-12W SE NW NE	1903	3306	-1403	quartzite		Lans.
Barton	Franco Central Oil Co #1 Prosser	17-16-12W NE NE SW	1881	3352	-1471	quartzite		congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Darby Petroleum Corp. #1 Zorn	17-16-12W CNE NW	1894	3347	-1453	quartzite		congl.
Barton	Martin & Henry #2 "A" Kultgen	17-16-12W CE NE NE		3345		gran. wsh?		Reag.
Barton	J. D. Ferrell Drilling Co. #1 Christions	20-16-12W SW SW NE	1911	3372	-1461	gran. wsh.		Arb.
Barton	Darby Petroleum Co. #1 Stoskopf	21-16-12W cN NW NW		3352		quartzite	X	Reag.
Barton	Keyes Drilling #1 Stoskopf	21-16-12W NW NW NE	1916	3336	-1420	gran.		Lans.
Barton	Bay Petroleum Corp. #1 Stoskopf	21-16-12W cS NE NE	1916	3420	-1504	quartzite		Arb.
Barton	W. L. Hartman #1 Reiman	23-16-12W NW NE SW	1929	3355	-1426	quartzite, top wea.		B/KC
Barton	W. L. Hartman #5 Riemann	23-16-12W SE SW SW	1924	3349	-1425?	<i>reworked</i> quartzite		Lans.
Barton	Gulf Oil Corp. #1 Wells-Hofmeister	23-16-12W cN NE SE	1919	3332	-1413	syenite		Arb.
Barton	Gulf-Oil Corp. #2 Wells	23-16-12W NW SE	1929	3351	-1422	syenite		Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	(Cult) Wells #3 Hofmeister	23-16-12W SE NE SE		3333		?		Reag.
Barton	Black-Marshall Oil Co. #1 Dolecheck	24-16-12W CSE SW	1905	3358	-1453	gran. wsh.		Reag.?
Barton	Gulf Oil Corp. #1 Dolechek	24-16-12W CN NE SW	1901	3382	-1481	schistose granulite and schist	x	congl.
Barton	Natl. Coop. Ref. Corp. #11 Dolechek	24-16-12W NW SW NE	1882	3339	<del>-1457</del> -1459	quartzite		congl.
Barton	Natl. Coop. Refg. Assn. #13 Paul Dolechek	24-16-12W SW NW SE	1896	3370	-1474	quartzite		congl.
Barton	Gulf Oil Corp. #2 Hofmeister	24-16-12W cN SW NW	1910	3322	-1412	syenite?		congl.
Barton	Gulf Oil Corp. #3 Martha M. <del>rose</del> Oeser	25-16-12W NE SW NW	1925	3307	-1382			Kans. City
Barton	Brunson Drilling Co. #6 Oeser	25-16-12W SE NE SW	1929	3288	-1359	gran. wsh.		Lans.
Barton	Flournoy & Haston #1 Oeser	25-16-12W NE SE SW	1934	3318	-1384	quartzite		Lans.
Barton	Lauck and Moncrieff #1 Oeser	25-16-12W SEc SE		3270		quartzite	(x)	Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Lauck & Moncrieff #2 Oeser	25-16-12W NE SW SE	1916	3307	-1391	66 ft. gran. wsh. over quartzite ?	X	Reag. ?
Barton	D. R. Lauck Oil Co., Inc. #6 Oeser	25-16-12W NW NW SE	1927	3278	-1351	quartzite		Lans.
Barton	Lauck Oil Co., Inc. #7 Oeser	25-16-12W SE NE SE	1922	3276	-1354	quartzite		Lans.
Barton	D. R. Lauck #8 Oeser	25-16-12W NE SE SE	1912	3308	-1396	quartzite		congl.
Barton	D. R. Lauck Oil Co. #9 Oeser	25-16-12W SW NE SE	1917	3283	-1366	quartzite		Lans.
Barton	D. J. Marshall #2 "B" Oeser	25-16-12W NE SE SW	1932	3317	-1385	quartzite	X	congl.
Barton	D. J. Marshall #5 "B" Oeser	25-16-12W NW NE SW	1932	3288	-1356	quartzite		Lans.
Barton	Delta Production #1 Reimann	25-16-12W SE SE NW	1925	3293	-1368	quartzite		Lans.
Barton	Black-Marshall Oil Co. #6 J. R. Rieman	25-16-12W SW SE NE	1926	3316	-1390	quartzite?		Lans.
Barton	Black-Marshall #9 Reimann	25-16-12W SE SE NE	1933	3325	-1392	quartzite		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Gulf Oil Corp. #4 Remmers	25-16-12W NE SE NW		3316		quartzite		Lans.
Barton	Black-Marshall #1 Dolechek	26-16-12W NE NE	1924	3356	-1432	gran.		congl.
Barton	Harms & Knight #1 Dolechek	26-16-12W NE NW NE	1934	3351	-1417	gran. wsh.	x	congl.
Barton	Vickers Petroleum Co. #1 "B" Dolechek	26-16-12W NE NW NW	1926	3412	-1486	quartzite		Gorham
Barton	Shell #1 Riemann	28-16-12W		3385		schist	X	
Barton	Black-Marshall Oil Co. #1 Seyfert	36-16-12W NE SE NE	1903	3428	-1525	gran. wsh.?		congl.
Barton	Shell Petroleum Co. #2 J. G. Bitter "B"	5-16-13W N NW SW	1880	3393	-1513	gran. wsh.		Arb.
Barton	Shell #1 "B" W. Bitter	5-16-13W SW SE NW SW	1886	3556	-1670	gran.	x	Arb.
Barton	Cities Service Oil Co. #5 "B" Hoffman	7-16-13W CE SE NW	1911	3523	-1612	gran. wsh.		Arb.
Barton	Shell Petroleum Corp. #8 Hoffman "A"	7-16-13W NW SE NW SW	1915	3351	-1436	quartzite		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Shell #9 "A" Hoffman	7-16-13W	1908	3300	-1392	quartzite	x	Lans.
Barton	Shell #10 "A" Hoffman	7-16-13W NW SW	1916	3325	-1409	quartzite	x	Lans.
Barton	Shell #4-A Ehrlich	18-16-13W SE NW	1931	3324	-1393	quartzite		Lans.
Barton	Sharon Drilling Co. #2 Luerman	18-16-13W CN SE SE	1948	3366	-1418			
Barton	Skelly #1 E. J. Susank	19-16-13W NWc NE		3349		quartzite	x	Lans.
Barton	Skelly #3 E. J. Susank	19-16-13W SE SW NE	1951	3335	-1584	gran.		Lans.
Barton	Skelly #6 Susank	19-16-13W SE NW NE	1947	3365	-1418	quartzite		Lans.
Barton	Ralph Weaver #4 Prusa	20-16-13W SW NW NE	1959	3384	-1425	quartzite		Lans.
Barton	Continental Oil Co. #5 Stoskopf	20-16-13W SE NE NW	1943	3375	-1432	quartzite		Lans.
Barton	Continental Oil Co. #1 J. P. Harrington	29-16-13W SE NE SE		3371		quartzite		Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Continental Oil Co. #5 F. J. Schreiber	32-16-13W NW SW SE	1897	3305	-1408	quartzite		Kans. City.
Barton	Continental #7 Schreiber	32-16-13W	1899	3305	-1406	quartzite		Lans.
Barton	Continental Oil Co. #8 Schreiber	32-16-13W SE NE SW	1918	3321	-1403	quartzite		Lans.
Barton	Continental Oil Co. #1 W. J. Susank	32-16-13W SE SE SW	1917	3347	-1430	quartzite	x	Kans. City
Barton	Continental Oil Co. #2 Susank	32-16-13W NE SE SW	1917	3327	-1410	quartzite		Lans.
Barton	A. E. Branine (Herndon Drlg.) #5 Schreiber	32-16-13W SE SW NE	1914	3370	-1456	quartzite		Lans.
Barton	Continental Oil Co. #5 L. W. Ainsworth "A"	33-16-13W NW SE NE	1944	3720	-1776	gran. wsh.		Arb.
Barton	Continental #A-7 Ainsworth	33-16-13W NE NE	1949	3660	-1711	gran. wsh. over quartzite	x	Arb.
Barton	Eason Oil Co. #2 Ainsworth	33-16-13W NW SE SE	1945	3680	-1735	62 ft. gran. wsh. over gran.		Arb.
Barton	Stanolind Oil & Gas Co. #1 C. J. Riemann	34-16-13W SW SW NW	1914	3755	-1841	gran.	x	Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Stanolind #5 Reiman	34-16-13W SE SW NW	1933	3650	-1717	gran.		Arb.
Barton	Alpine #1 Deal	35-16-13W SW NW SE	1902	3328	-1426	quartzite		Lans.
Barton	Skelly Oil Co. #1 Gage	35-16-13W SEc SW	1873	3291	-1418	quartzite?		Lans.
Barton	Black-Marshall #1 Zugg	35-16-13W	1876	3566	-1690	gran. wsh.		Arb.
Barton	Shell #2 "B" P. Schneider	1-16-14W NW NE NW	1857	3565	-1708	gran. wsh.		
Barton	Shell #B-10 Schneider	1-16-14W SE NW	1847	3590	-1743	gran. wsh.		Arb.?
Barton	Shell Petroleum Corp. #4 "C" Hoffman	1-16-14W CW E SE	1891	3576	-1685	gran. wsh.		Arb.?
Barton	Midwest #1 Karst	11-16-14W SE SW	1977	3711	-1734	gran. wsh.		
Barton	Shell #B-2 Hoffman	12-16-14W NE c	1909	3616	-1707	quartzite?		Arb.
Barton	Shell #A-2 Peterman	13-16-14W NEc SE	1913	3684	-1771	gran. wsh.?		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Bridgeport #4 "A" Sausen	13-16-14W NE SW NE	1893	3695	-1802	gran.		Arb.
Barton	Derby Oil Co. #5 Siemsen-Eilers	24-16-14W SE NW NE	1927	3576	-1649	quartzite		Arb.
Barton	Helmerich & Payne #1 Davis	32-16-14W NWc SW	1982	3709	-1727	18 ft. gran. wsh. over gran.	x	Arb.
Barton	T. C. Johnson #1 Kraft	9-16-15W NE SW SW	2005	3610	-1605	gran.?	x	Arb.
Barton	Midwest Exploration #34 Karst	11-16-15W SW SE SW	1977	3725	-1748	gran.	x	Reag.
Barton	Harris & Hann # Deitz	21-16-15W SEc SE	2003	3503	-1500			Reag.
Rush	Natl. Assoc. Petroleum #1 "A" Shade	5-16-16W SE SE NW	1892	3640	-1748	gran.		Arb.
Rush	Sinclair O. G. #1 Beeching	9-16-16W NW NE NW	1947	3705	-1758	gran. wsh.		Reag.
Rush	C. B. Davis #1 Brack	23-16-16W NW C.	1946			gran. wsh.		Arb.
Rush	Ben F. Brack #1 Hoffman	26-16-16W NE N <sup>B</sup> SE	1990	3660	-1670		x	Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	Adair-Morton Co. & J. H. Hershey #1 Schlitter	18-16-17W SW SE NE	2000	3550	-1550	quartzite		Reag.
Rush	Falcon - Seaboard #1 Urban	19-16-17W SE NE SE	2025	3481	-1456	quartzite		Kans. City
Rush	Sheedy #1 Bison	35-16-17W SWc	2028	3618	-1590			Lamotte
Rush	Prairie - Gypsy #1 Leiker	5-16-18W SW SW	2038	3741	-1703	gran.		Reag.
Rush	Phillips #1 Legleiter	10-16-18W NW SE	2005	3635	-1630			Reag.
Rush	Iron Drilling Co. #1 Herrman	13-16-18W NW NW NW	2007	3568	-1561	quartzite	x	congl.
Rush	Bay Petroleum Strain & Buffalo #1 Dechant	20-16-18W SE SE SE	1999	3573	-1574	gran.		congl.
Rush	Vickers & B. R. #1 Schuckman	20-16-18W NWc NW	2019	3619	-1600			congl.
Rush	Murphy #1 Roth	21-16-18W NW SW	2001	3585	-1584	gran.		congl.
Rush	Lee Phillips Oil Co. #1 Herman	23-16-18W NW NW SW	2052	3598	-1546	13 ft. gran. wsh. over quartzite		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	Davis (& child) #1 Henderick	25-16-18W NW SW	2058	3593	-1535	gran.		congl.
Rush	Bennett & Roberts #1 Legleiter	30-16-18W NEc SE	2009	3616	-1607	granitic gneiss + quartzite	x	congl.
Rush	Shelley-Miller Drilling Inc. #1 Werth	1-16-19W NE NE NE	2000	3608	-1608	quartzite	x	Arb.
Rush	Cities Service Oil Co. #1 Johnson	5-16-19W SW NE	2050	3669	-1619	gran.		
Rush	Philmack #1 Gregory	24-16-19W cSW	1737	3892	-2155	quartzite?		
Rush	Heathman-Honaker Drilling Co. #1 Weitzel	1-16-20W NE SW NW	2109	3736	-1627	quartzite		Lans.
Rush	Darby-Bothwell Inc. #2 "A" Weitzel	1-16-20W NE NW SW	2102	3718	-1616	quartzite		Lans.
Rush	Darby & Bothwell Inc. et al #1 Wheitzel	1-16-20W SW SW NW	2114	3693	-1579	quartzite	x	Lans.
Rush	Phillips Petroleum Corp. #2 Doerr	2-16-20W NE SE NE	2121	3751	-1630	14 ft. quartzite over gran. gneiss		congl.
Rush	D. R. Lauck #1 Foster	12-16-20W SE SE NE	2113	3807	-1694	quartzite	x	congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
✓ McPherson	Casebeer #1 Hugston	35-17-2W		3724				
✓ McPherson	Auto ord #1 Melander	9-17-3W CSW NW	1332	3985	-2653			Reag.
Ellsworth	Davis #3 Edwards	34-17-8W SW SE	1785	3857	-2072	gran.		Arb.
Ellsworth	Cities Service Oil Co. #10 Rolfs	14-17-9W NE NE	1791	3956	-2165			Reag.
Ellsworth	Empire #12 Rolf	14-17-9W NW NE NE	1796	3940 <del>3770</del>	-1944 <del>-1994</del>	30 ft. gran. wsh. over gran.		
Ellsworth	Bradley Oil Co. #8 Mahoney	14-17-9W SEc SE	1787	3769	-1982	quartzite?	X	Arb.
Ellsworth	Gulf #2 Schroeder	20-17-9W NWc SW	1767	3781	-2014		x	Arb.
Ellsworth	Gulf Oil Co. #5 Schroeder	20-17-9W SE SW	1770	3803	-2033	quartzite	x	Arb.
Ellsworth	The Texas Co. #4 Dees	23-17-9W SE NW	1779	3770	-1991			Simpson
Ellsworth	Cities Service Oil Co. #2 Mollhagen "C"	29-17-9W NWc SE	1769	3753	-1984	gran. wsh.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Ellsworth	Natl. Coop. Refg. Assn. #4 Stratmann	1-17-10W cE NW NW	1820	3830	-2010	25 ft. gran. wsh. over gran.		Reag.
Ellsworth	Bennett & Roberts #2 Siensen	3-17-10W cS NE SE	1791	3716	-1925	gran. wsh.		Arb.
Ellsworth	Bennett & Roberts #3 Siensen	3-17-10W SE NE SE	1790	3776	-1986	gran.		Arb.
Ellsworth	Magnolia Petroleum Co. #1 Andrea	7-17-10W NW SW SW		3389		quartzite	X	Arb.
Ellsworth	Slick-Darby #1 Breford	7-17-10W SW NW	1930	3396	-1466	quartzite		Arb.
Ellsworth	El Dorado Refg. Co. #1 Myers	18-17-10W NW NW NW	1869	3245	-1376	quartzite		Lans.
Ellsworth	Hinkle Oil Co. #1 "A" Meyers	18-17-10W SE NW NW	1860	3312	-1452	quartzite		congl.
Ellsworth	Transwestern Oil Co. #1 Myers	18-17-10W SW NW NW		3303				congl.
Ellsworth	H. V. Elwell #9 Janssen	29-17-10W NW NW NW	1808	3514	-1706	gran. wsh.		Arb.
Ellsworth	Gulf #8 Grizell	31-17-10W SE NW	1801	3362	-1561	schist		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Ellsworth	Skelly #7 Moran	31-17-10W cS NE SE	1789	3410	-1621	Schist <del>gran. wsh.</del>	X	Arb.
Ellsworth	Transwestern Oil Co. #1 Cain Stumps	33-17-10W SWc SW	1775	3512	-1737	18 ft. quartzite over schist		Reag.
Barton	Magnolia #3 Riemann	4-17-11W SW SE	1860	3549	-1689	gran.	X	Reag.
Barton	The Texas Co. #9 Disque	4-17-11W				gran.		
Barton	Phillips Petroleum Co. #1 Krautwurst	11-17-11W SE SW SW	1885	3595	-1710	gran. wsh.?		Reag.
Barton	Cities Service Oil Co. #4 "A" Hogan	11-17-11W cE NE NW	1937	3529	-1583	quartzite	x	Arb.
Barton	El Dorado #6 "B" Ehler	12-17-11W SE SE SW	1890	3536	-1646			Reag.
Barton	Champlin Refg. Co. #2-B Burmeister	13-17-11W SW NE SE SW	1870	3575	-1705	phyllite, schist, quartzite, gneiss <del>gran. wsh.</del>	X	Reag.
Barton	The Texas Co. #4 Peterman	13-17-11W cN SE SE	1854	3532	-1678	garnetiferous schist	X	Arb.
Barton	Republic Nat. Gas. Co. #9 "B" Bloomer	14-17-11W SW SE NE	1888	3330	-1442			Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Gulf Oil Corp. #5 Peterman	15-17-11W SW NW SE	1836	3574	-1738			Arb.
Barton	Gulf Oil Corp. #8 Olga Peterman	15-17-11W S NE SE	1833	3573	-1740			Arb.
Barton	Shell Oil Co., Inc. #2 Soeken "B"	21-17-11W NE NW NE	1808	3552	-1744			Reag.
Barton	Transwestern Oil Co. #3 M. Peterman	24-17-11W cN SE NE	1849	3538	-1689	15 ft. schist over gran.		Reag.
Barton	Francis Oil & Gas Co. #5 McClean	25-17-11W E NW SE	1832	3457	-1625	schist		Reag.
Barton	National Refg. Co. #6 McLean	25-17-11W NE SE SE	1821	3488	-1667	schist		Reag.
Barton	The Texas Co. #5 F. Bloomer	36-17-11W SW NE NE	1809	3415	-1606	schist		Reag.
Barton	Spencer-Yarnell #3 Gemeinhardt	36-17-11W SEc SW	1811	3505	-1694			Reag.
Barton	Aladdin & Hannum #3 Gage	2-17-13W E NW NW	1875	3316	-1441			Lans.
Barton	Alpine Oil & Royalty Co. Inc. #1 Gage	2-17-13W NW NE NW	1861	3270	-1409	quartzite	x	Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Aladdin & Hannum #9 Lowry "B"	2-17-13W NE NE SW	1856	3415	-1559			Reag.
Barton	Sohio & Black-Marshall #2 Horst	2-17-13W SW SE SE	1882	3608	-1726	gran. wsh.		Reag.
Barton	Continental #2 Fora	10-17-13W NEc NW	1920	3595	-1675	<i>muscovite</i> quartzite		Arb.
Barton	Republic Nat. Gas Co. #1 "A" Settle	31-17-13W NE NE SE	1857	3364	-1507		x	Arb.
<del>Barton</del>	<del>Ben F. Brack #2 "A" Koch</del>	<del>18-17-14W NE SW SW</del>	<del>1880</del>	<del>3580</del>	<del>-1680</del>	-		
Barton	Phillips Petroleum Co. #4 Karst	21-17-14W SW SW SE	1869	3709	-1840	gran. wsh.		Reag.
Barton	Bridgeport Oil Co. #6 "A" Meitner	28-17-14W W NE NW	1858	3622	-1764	18 ft. gran. wsh. over quartzite		Reag.
Barton	Stanolind O. & G. #1 Stoss	18-17-15W NW NE NE	1990	?	3745	-1764c		
Barton	Phillips Petroleum Co. #1 Jane	25-17-15W NE SE SE	1983	3950	-1967	gran.		Arb.
Barton	Phillips Petroleum Co. #1 Boyle	25-17-15W C SE	1982	3850	-1868			Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	Tennessee Gas Trans. Co. #1 Brack	14-17-16W NW SW NW	2013	3706	-1693	gran. wsh.		Arb.
Rush	Corbett #1 Schmidt	10-17-16W SW SE	2001	3685	-1684	quartzite?		Arb.
Rush	Brunson Prod. & Expl. Inc. #1 Schriener	18-17-16W SW SW SE	2034	3540	-1508	gran. wsh.		Lans.
Rush	Westgate-Greenland #1 Ochs	21-17-16W SW SW NW	2077	3712	-1635	quartzite	x	Reag.
Rush	McPherson #1 Brack	24-17-16W NW	2040	3830	-1790	75 ft. gran. wsh. over gran.		Arb.
Rush	Morgan Flynn & Cobb #1 Schlegel	26-17-16W SEc NW		3760		gran. wsh.		Reag.
Rush	Westgate-Greenland et al #1 Hartung	29-17-16W SW SW NW	2053	3559	-1506	gran.	x	congl.
Rush	Morrison Drilling Co. #1 Rathe	31-17-16W	2014	3514	-1500	50 ft. gran. wsh. over gran.		congl.
Rush	Bradley Oil Co. #1 Schlegel	34-17-16W CE SE NE	2005	3656	-1651	51 ft. gran. wsh. over gran.		B/KC
Rush	Carl Lebsack #1 Jones	35-17-16W NE NW NW	2022	3665	-1643	gran. wsh.		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	Bennett & Roberts #1 Brack	4-17-17W SE NW	2060	3588	-1528	gran.		B/KC
Rush	Palmer Oil Corp. #1 Lippert	5-17-17W SW SW NW	2091	3645	-1554	19 ft. gran. wsh. over gran.		Lans.
Rush	Imperial Drilling #1 Ernie	14-17-17W SW NW NE	2048	3547	-1499	63 ft. gran. wsh. over gran.		B/KC
Rush	Morrison Drilling #1 Bieber Unit	15-17-17W NW SE NE	2046	3540	-1494	18 ft. gran. wsh. over gran.		Lans.
Rush	Lario Oil & Gas Co. #1 Schwindt	15-17-17W NE SW	2079	3571	-1492	gran.		B/KC
Rush	Barnsdall #1 Brack	21-17-17W SEc SE	2069	3590	-1520	10 ft. gran. wsh. over gran.		congl.
Rush	Morrison Drilling #1 Foos	22-17-17W SW NE NE	2070	3575	-1505	6 ft. gran. wsh. over gran.	x	Lans.
Rush	Danciger Oil & Refg. #1 Schlenming	22-17-17W SWc SW	2074	3580	-1506			congl.
Rush	Morrison Drilling Co. #1 Reichel	23-17-17W SW NW NE	2026	3465	-1439	gran.		Lans.
Rush	Lario #1 Gillig	24-17-17W NE SE NW	2050	3527 <del>3577</del>	-1477	gran.		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	Morrison Drilling #1 Gillig	24-17-17W SW SE NW	2060	3531	-1471	gran. wsh.	x	Reag.
Rush	Danciger #1 Neve	26-17-17W NW C	2056	3560	-1504	gran. wsh.		Lans.
Rush	H. F. Wilcox #1 Schwartzkopf	27-17-17W NW SW	2061	3590	-1528	7 ft. gran. wsh. over gran.		Lans.
Rush	Twin Drilling #1 Apple	29-17-17W SWc NE	2034	3640	-1606	gran.		congl.
Rush	Darby - Bothwell #1 W. G. Ficken	33-17-17W NEc SE	2030	3594	-1564	5 ft. gran. wsh. over gran.	x	Reag.
Rush	El Dorado Oil ? #1 Stang	36-17-17W SEc NW	2040	3550	-1510	gran.		Reag.
Rush	Keith et al #1 Scheiderman	3-17-18W SW SW NE	2064	3633	-1569			Lans.
Rush	Keith #1 Dartmouth Bank	3-17-18W SW NE	2064	3633	-1569	27 ft. gran. wsh. over gran.		
Rush	Boyle & Grossman #1 Yost	23-17-18W SW SW	2086	3695	-1609	25 ft. gran. wsh. over gran.		Lans.
Rush	Lario-Phillips #1 Benbow	12-17-19W NW NE NW	2094	3800	-1706	gran.		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Sinclair #6 Belton	31-18-7W NW SW	1731	3845 <del>3845</del>	-2114 <del>2075</del>	gran. wsh.		Reag.
Rice	Francis Raymond #9 Dobrinski	3-18-8W NE NW SE	1787	3893	-2106	gran. wsh.		Reag.
Rice	J. C. Dozier et al #3 Kalina	3-18-8W SW SE SW	1774			gran. wsh.		B/KC
Rice	Francis Raymond #4 Lewis	14-18-8W SEc NE	1726	3792	-2066	non-granitic gneiss etc.	x	Arb.
Rice	Continental #9 Ainsworth	24-18-8W SE NE SE	1694	3648	-1954	gran. wsh.	x	Reag.
Rice	Continental Oil Co. #3 G. F. Gibson	24-18-8W NW NE SW	1725	3810	-2085+	gran. wsh.		Reag.
Rice	Cities Service Oil Co. #1 Janzen	17-18-9W NE NE	1743	3820	-2077	gran.		Arb.
Rice	Vickers Petroleum Co. #5 Roesler	5-18-10W NW SW SW	1776	3435	-1659	schist + quartzite		Reag.
Rice	Gulf Oil Corp. #7 Ames	6-18-10W E E NW	1794	3373	-1579	gran.		Arb.
Rice	Sunray Petroleum #8 "B" Roesler	6-18-10W NE NW SW	1798	3455	-1657	gran. wsh.		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Francis Oil & Gas #5 "D" Stout	6-18-10W NW SE NE	1790	3546	-1756	schist + quartzite		Arb.
Rice	Allison #1-A Blake	9-18-10W NE NW NW	1774	3512	-1738	16 ft. gran. wsh. over gran.		Arb.
Rice	Transwestern #1 Meyer	17-18-10W		3306		quartzite	X	
Rice	Anderson-Prichard #4 Feist	21-18-10W NE SW SW	1742	3170	-1428	quartzite		Lans.
Rice	Anderson-Prichard #5 Feist	21-18-10W SW NW SW	1742	3254	-1512	quartzite		congl.
Rice	Vickers Petroleum Co. #2 Schoenig	21-18-10W NW NE SE	1744	3506	-1762	quartzite		congl.
Rice	Bartlett Oil et al #1 Bierberle	22-18-10W cS SE SW	1754?	3184	-1430	muscovite quartzite		Lans.
Rice	Musgrove Petroleum Corp. #1 Boldt	22-18-10W SW SW SE	1754	3170	-1416	quartzite	x	Lans.
Rice	Fred Jones et al #1 Behuke	25-18-10W cW SW NW	1741	3200	-1459	quartzite		congl.
Rice	Hinkel Oil Co. et al #4 Culbertson	26-18-10W NW SW NE	1748	3196	-1448	quartzite		congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Hinkle Oil Co. #3 Culbertson	26-18-10W NE SE NE	1738	3252	-1514	quartzite		congl.
Rice	Hinkle Oil Co. #1 Culbertson	26-18-10W NE SW NE	1746	3192 <del>3195</del>	-1446 <del>-1445</del>	3 ft. quartzite over gran. gneiss		congl.
Rice	Birmingham - Bartlett #2 Godfrey	26-18-10W CW SE SW	1751	3195	-1444	quartzite		congl.
Rice	Hinkle Oil Co. et al #2 Culbertson	26-18-10W	1744	3239	-1495	quartzite		congl.
Rice	Bay Petroleum Corp. #3 Roelfs	26-18-10W NW SW SE	1747	3240	-1493	quartzite		Lans.
Rice	C. U. Bay #1 Culbertson	26-18-10W SE SW NE	1746	3203	-1457	quartzite		Lans.
Rice	Cities Service Oil Co. #1 Culbertson	26-18-10W CE SE NE	1742	3218	-1476	quartzite		Arb.
Rice	Sunray Oil Crop. #2 Roelfs	26-18-10W SE NW NE	1749	3202	-1453	quartzite		congl.
Rice	Sunray Oil Corp. #5 Roelfs	26-18-10W NW NW NE	1752	3225	-1473	quartzite		congl.
Rice	Transwestern Oil Co. #1 Henry Roelfs (Culbertson)	26-18-10W CS NE NE	1745	3175	-1430			Kans. City

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Bay Petroleum Corp. #1 Roelfs	26-18-10W NW NW SE	1747	3196	-1450	quartzite	Wichita	Arb.
Rice	Artnell Corp. #1 Habiger	27-18-10W CS NW NW	1742	3164	-1422	quartzite		congl.
Rice	Musgrove Petroleum Corp. #2 Habiger	27-18-10W NW SE SW	1752	3132	-1380	quartzite; pebbly layers		Lans.
Rice	Musgrove Petroleum #4 Habiger	27-18-10W NW SE SW	1750	3144	-1396	quartzite		Lans.
Rice	Slick-Pryor-Lockhart #1 Habiger	27-18-10W NE NW E	1747	3234	-1487	quartzite	X	congl.
Rice	Sunray Oil Corp. #3 "A" Habiger	27-18-10W CE W SE	1746	3216	-1470	quartzite		congl.
Rice	Artnell #1 Herzog	27-18-10W CW E SE	1741	3280	-1540	quartzite		Arb.
Rice	S. P. & Lockhart #2 Herzog	27-18-10W NW NE SE	1747	3213	-1466	quartzite	X	Arb.
Rice	Slick, Pryor, Lockhart #1 Orth	27-18-10W SE NE	1751	3240	-1489			congl.
Rice	Slick, Pryor, Lockhart #4 Orth	27-18-10W SW NW NE	1753	3155	-1402	quartzite		Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Sunray Oil <del>Corp.</del> #10 Orth	27-18-10W NE SE NE	1749	3310	-1562	quartzite		Arb.
Rice	Skelly Oil Co. #5 "A" Volkland	27-18-10W NW SE NW	1752	3127	-1375	quartzite		Lans.
Rice	Anderson-Prichard Oil Corp. #1 Heinz	28-18-10W SW SE SE	1750	3143	-1393	quartzite		congl.
Rice	Hinkle Oil Co. #1 Heintz	28-18-10W CE NE SE	1749	3313	-1564	quartzite?		Arb.
Rice	Skelly Oil Co. #1 Sittner	28-18-10W SW SW SW	1738	3172	-1434	quartzite		Lans.
Rice	Jones & Swain #1 Heinz	28-18-10W NE SE	1749	3313	-1564	quartzite		
Rice	Fred Jones #4 Heinz	28-18-10W CE NE SE	1749	3313	<del>-1546</del> -1564			
Rice	Anderson-Prichard #1 Gemeinhardt	29-18-10W SE SE SE	1741	3144	-1403	quartzite		Lans.
Rice	Sohio Petroleum et al #1 Buehler	31-18-10W CW SW NE	1759	3261	-1502	quartzite		Arb.
Rice	Anderson-Prichard Oil Corp. #1 Ringwald	32-18-10W NE SE NE	1746	3066	-1320	quartzite		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Anderson-Prichard Oil Corp. #2 Ringwald	32-18-10W CNE NE NE	1743	3095	-1352	quartzite		Lans.
Rice	Anderson-Prichard Oil Corp. #3 Ringwald	32-18-10W SW NE NE	1744	3243	-1499 <del>-1399</del>	quartzite		congl.
Rice	Anderson-Prichard Oil Corp. #4 Ringwald	32-18-10W CS SE NE	1748	3146	-1398	quartzite		Lans.
Rice	Anderson-Prichard Oil Corp. #5 Ringwald	32-18-10W SE SW NE	1752	3168	-1416	quartzite		congl.
Rice	Anderson-Prichard Oil Corp. #6 Ringwald	32-18-10W SE NE NE	1744	3113	-1369	quartzite		congl.
Rice	Skelly Oil Co. #2 Buehler	33-18-10W NW NW NW	1738	3131	-1393	gran. <sup>or</sup> quartzite		Lans.
Rice	Skelly Oil Co. #1 H. S. Buehler	33-18-10W NW SW NW	1738	3124	-1386	quartzite		Lans.
Rice	Skelly #3 Buehler	33-18-10W NW NW NE	1737	3158	-1421	quartzite		congl.
Rice	Hinkel Oil Co. #1 Wessler	34-18-10W NE NW	1745	3247	-1502	quartzite		congl.
Rice	Skelly Oil #1 Dora Allinger	35-18-10W NW NW NW	1739	3162 <del>3177</del>	-1423 <del>-1438</del>	quartzite		congl.

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Barton	Magnolia #1 Roesler	1-18-11W NE NW	1804	3518	-1714	gran.		
Barton	Derby Oil Co. #5 Klepper	16-18-11W SE NW SE	1796	3923	-2127	gran.		Arb.
Barton	Hoffine #1 Everleigh	6-18-12W SW SW	1805	3828	-2023	quartzite <i>etc.</i>		Arb.
Barton	Herndon #2 "A" McCauley	6-18-13W	1830	3660	-1830	gran. wsh.		Arb.
Barton	Pacific Western #5 Robison	8-18-13W SW NW SE	1818	3516	-1698			Arb.
Barton	Continental #3 Jilg	18-18-13W SW NE NW	1861	3685	-1824	gran. wsh.		Arb.
Barton	Roxana & Cooper #1 Everleigh	22-18-13W SE NE NE	1789	3839	-2050			Reag.
Barton	Continental & Phillips #5 R. Monroe	4-18-14W NW SE SE	1940	3640	-1700			Reag.
Barton	The Texas Co. #4 Harper	10-18-14W SEc NW	1940	3578	-1638	gran.	X	Arb.
Barton	Cities Service Oil Co. #1 Eveleigh	11-18-14W NEc SE	1859	3311	-1452	quartzite	X	congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	E. R. Raban & Gulf #1 Susie B. Ford	7-18-15W CN SE SW	2009	3528	-1519	gran. wsh.		Reag.
Barton	Fees-Hoyt #1 Schreiber	17-18-15W CS NE SW		3420		gran. wsh.		Reag.
Barton	Herndon #1 Schneider	18-18-15W CNW	1971	3569	-1598	gran.		Reag.
Barton	George H. Hannum Inc. #1 Dirks	18-18-15W C SW	1946	3477	-1531	gran. wsh.		Reag.
Barton	Ohio Oil Co. #1 Bahr	19-18-15W C S NE		3510		gran. wsh.		Reag.
Barton	Ohio Oil Co. #1-A Brack	20-18-15W C NW	1938	3471	-1533	gran. wsh.		Reag.
Barton	Ohio Oil Co. #1 H. Brack	21-18-15W CN NW	1929	3467	-1538	gran. wsh.		Reag.
Barton	Clay Bros. #1 Bahr	27-18-15W C W SW SE		3460		gran. wsh.		Reag.
Barton	Schermerhorn #1 Hunter	29-18-15W NE NE	1911	3557	-1646	quartzite		Reag.
Barton	Schermerhorn #1 Haas	30-18-15W NW SE	1919	3580	-1661			

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian Surface	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	United Drilling Inc. #1 Haas	30-18-15W SW SW SE	1919	3492	-1573	gran.		Reag.
Barton	Leben Oil #1 Oetken	30-18-15W	1922	3537	-1615	gran. wsh.		Reag.
Barton	W. C. Aylward #1 Dirks	31-18-15W SW SW NE	1942	3550	-1608	gran. wsh.		Reag.
Barton	W. H. Brinn & Shell #1 E. C. Dirks	31-18-15W CW SW NE		3546		gran. wsh.		Reag.
Barton	Aylward #2 Wissman	31-18-15W CW NW	1962	3576	-1614	gran. wsh.		Reag.
Barton	Vernon-Aylward #1 <del>Erid Bird</del>	33-18-15W C SE NW	1915	3463	-1548	quartzite with graphite, over- lain by gran. wsh.		Reag.
Rush	Aylward #1 Hall	1-18-16W C NE SW	1992	3512	-1520	gran. wsh.		Reag.
Rush	Morgan-Flynn #1 Mohr	2-18-16W SW	1991	3504	-1513	gran.		Reag.
Rush	Morgan-Flynn #1 Hartman	4-18-16W SW NW	1994	3515	-1521	21 ft. gran. wsh. over gran.		Reag.
Rush	Olson Oil #1 Schmidt	4-18-16W C SE	2003	3546 $\frac{1}{2}$	-1542 $\frac{1}{2}$			

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 109

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	Sinclair-Prairie #1 Scheuerman	5-18-16W SE SE NE	2000	3543	-1543	gran. wsh.		Reag.
Rush	Skelly-Lion-Sunray #1 Dirks	7-18-16W NE NE SW	1952	3519	-1567	quartzite	x	Penn. snd.
Rush	Flynn #1 Schmidt	9-18-16W C SE	1943	3506	-1563	quartzite		Reag.
Rush	Frates Oil # Walker	10-18-16W	1667	3390	-1723			
Rush	W. M. Moore Oil Co. #1 Schroger	12-18-16W C NW	1989	3552	-1563			snd.
Rush	Schermerhorn Oil Corp. #1-B Estel	14-18-16W CSE	1930	3520	-1590			Lans.
Rush	Aylward #1 Brack	14-18-16W C SW	1929	3530	-1601	quartzite		Lans.
Rush	Interstate #1 Kerbs	16-18-16W C SE	1935	3441	-1506	quartzite		Reag.
Rush	Brack Oil Co. Inc. #1 Weight	17-18-16W SW SW NE	1944	3562	-1618	quartzite	x	congl.
Rush	Imperial Drilling #1 Huenergardt	18-18-16W SE SE SE		3540	-1592	8 ft. gran. wsh. over gran.		Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	Phillips #1 Peckaner	18-18-16W SE SW	1951	3596	-1645	gran. wsh.		Reag.
Rush	L. H. Wentz #1 John Rodie	19-18-16W SW SW SW	1996	3663	-1667	5 ft. gran. wsh. over gran.	X	Reag.
Rush	Carter #1 Proskh	21-18-16W CN SE	1957	3650	<del>-1693</del> <del>-1593</del>	gran.		Arb.
Rush	C. Knight Drilling Co. #3 Rheinhart	21-18-16W SW SE SW	2029	3694	-1665	gran. wsh.		Reag.
Rush	Morgan-Flynn #1 Shaffer	22-18-16W NE c SE	1930	3523	-1593	quartzite		
Rush	Shell Petroleum Corp. #1 G. W. Shaffer	22-18-16W C NW	1933	3436	-1504	quartzite		Reag.
Rush	Morgan-Flynn #2-A Koriel	23-18-16W SW NW	1930	3553	-1623	quartzite		snd.
Rush	Flynn & Aylward #4 Brack	24-18-16W NW SW SW	1924	3550	-1626	gran. wsh.		Reag.
Rush	Mid-Kansas #3 Brack	24-18-16W NW SW	1924	3536	-1612	quartzite		
Rush	Schermerhorn-Winton #3 Geisiek	25-18-16W C S SE		3568				Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rush	H. S. Moss #1 Rodie	27-18-16W NEC	1971	3577	-1606	gran. wsh.		congl.
Rush	Ben F. Brack Oil Co., Inc. #1 Wagner	28-18-16W SE SE SW	2041	3675	-1634	gran.	x	Reag.
Rush	Knight Luft & Weber #2 Wagner "B"	28-18-16W NE NW NW	2012	3679	-1667	gran. wsh.		Reag.
Rush	C. Knight #2 Brody	28-18-16W SW NW NE	1986	3665	-1679			Reag.
Rush	Wharton #1 Luff	29-18-16W NW NW	2021	3629	-1608	gran.		congl.
Rush	Sinclair #1 Seuser	8-18-17W NW NW	2080	3775	-1695	gran. wsh.		Reag.
Rush	Victor Drilling Inc. #1 Crotinger	12-18-17W SW SW NE	1967	3550	-1583	<del>29 ft. quartzite</del> over gran. wsh.	x	Reag.
Rush	Phillips #1 Timken	13-18-17W SE NE	1949	3587	-1638	gran. wsh.		Reag.
Rush	Gypsy Oil Co. # Kraisinger	23-18-17W SE NE SE	2026	3720	-1694	gran. wsh.		congl.
Rush	Gabbert & Jones #3 Beaton	21-18-18W SW NE NE	2043	4099	-2056	gran.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Ness	Continental #1 Everett	7-18-25W C W SW SW	2506	4437	-1931			Viola
Rice	T. B. Slick #1 Deeds	1-19-7W C NW	1607	4055	-2448	quartzite		Arb.
Rice	Henderson Oil Co. etal #7 Keller	5-19-9W NW SE NE	1717	3745	-2028	gran. wsh.		Arb.
Rice	Shell #1 A Reese	5-19-9W SW SW NW	1710	3757	-2047	gran. wsh.		Arb.
Rice	Shell #2 Hafferman	6-19-9W C SE	1709	3750	-2041	gran. wsh.		Arb.
Rice	Bay Petroleum Co. #2 Grizzel	<del>8-19-9W</del> SW NE NW	1706	3790	-2084	gran. wsh.		Arb.
Rice	Lario Oil & Gas Co. #1 Profitt	17-19-9W S NW SW	1726	3254	-1528	quartzite		congl.
Rice	Sinclair #2 Valkland	20-19-9W SE SE	1716	3747	-2031	gran.		Arb.
Rice	Phillips Petroleum Corp. #6 Link	21-19-9W SE NE SW	1704	3725	-2021	gran.		Reag.
Rice	Empire Oil & Refg. #4 Meyers	21-19-9W NW SE SW	1717	3738	-2021	5 ft. gran. wsh. over gran.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	The Texas Co. #3 Grove	29-19-9W NEc NE	1715	3758	-2043	12 ft. gran. wsh. over gran.		Reag.
Rice	Gypsy Oil Co. #1 Burden	31-19-9W NE SE SE	1713	3831	-2118			Reag.
Rice	Carl Lebsack #3 Doran	13-19-10W SW SE SE	1743	3726 <del>3730</del>	-1983	gran.		Arb.
Rice	Carl Lebsack #6 Emerick	13-19-10W CW SE NE	1740	3740	-2000	gran.		Reag.
Rice	C. H. Weaver #5 Ankerholz	14-19-10W NE NW NW	1749	3682	-1933	gran.		Reag.
Rice	Lauck Oil Co. #1 Probst	20-19-10W NE SE NE	1772	3270	-1498	quartzite		congl.
Rice	Lauck Oil Co. et al #3 Probst	20-19-10W SE SE NE	1767	3222	-1455	quartzite		congl.
Rice	Continental Oil Co. #1 Wolf	20-19-10W NE NE SE	1763	3234	-1471	quartzite		congl.
Rice	J. Bergman Oil Co. #2 Eatinger	21-19-10W NW SW NW	1766	3262	-1496	quartzite		congl.
Rice	Bergman Oil Co. #3 Eatinger	21-19-10W SW NW NW	1766	3276	-1510	quartzite		congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Lewis Drilling Co. #1 Bernstarf	27-19-10W N NE NE	1745	3286	-1541	gran. wsh.		Arb.
Rice	Skelly Oil Co. #4 Ira	27-19-10W NE SE NW	1756	3210	-1454	quartzite		Lans.
Rice	Stanolind Oil & Gas #6 T. F. Manke	28-19-10W C N NW SE	? 1541	3233	-1692	quartzite		Lans.
Rice	Stanolind #1 Roth	29-19-10W NE SW NE	1776	3224	-1448	quartzite		congl.
Rice	Stanolind Oil & Gas #4 H. Roth	29-19-10W SE SW NE	1786	3196	-1410	5 ft. gran. wsh. over quartzite		Arb.
Rice	Gulf Oil Corp. #1 Steckel	30-19-10W C W SE SW	1772	3826	-2054	gran. wsh.		Arb.
Rice	Gypsy #11 Dueser	31-19-10W SE SW	1783	3804	-2021	gran. wsh.		Arb.
Rice	Gulf Oil Corp. #8 Wendel	32-19-10W SW SE	1801	3818	-2017	quartzite		Arb.
Rice	Stanolind Oil & Gas Co. #3 Cynthia Mitchell	32-19-10W SW NW SW	1790	3780	-1990			Arb.
Rice	Republic Nat. Gas #9-A Wendel	32-19-10W NE SE NE	1800	3250	-1450	gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Stanolind #3 Panning	33-19-10W NW SE NW	1779	3790	-2011	gran. wsh.		Arb.
Rice	Hartman-Blair #2-B Schartz	33-19-10W SW NW SE	1782	3800	-2018	schist, dark		Arb.
Rice	The Texas Co. #3 Kleile	34-19-10W NW SW	1775	3870	-2095	quartzite		Lamotte snd.
Barton	(1,200 ft. Prec. penetr.)	17-19-11W				graphitic schist and quartzite		
Barton	The Texas Co. #7 <sub>6</sub> Schmidt	36-19-11W SWE NW	1766	3776	-2000			Arb.
Barton	Consco #14 Risse	36-19-11W C N NE SE	1763	3825	-2062	schist		Arb.
Barton	Mid-Continent #5 Schmidt	36-19-11W NW SE SW	1763	3794	-2037	schist		Reag.
Barton	Sohio Petroleum Co. #1 Moses	27-19-13W NW NW SW	1845			?		Reag.
Barton	Morgan & Flynn #1 Essemiller	16-19-14W SE SE NE	1904	3725	-1821	gran. wsh.		Arb.
Barton	Skelton Oil #1 Otte	16-19-14W SE SE	1892	3655	-1763	gran. wsh.		Arb.
Barton	Honaker Drilling #2 Hall	28-19-14W S NW NW	1897	3490	-1593	quartzite		congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Petroleum Inc. #1 Loy	28-19-14W NW SW NW	1898	3528	-1630	quartzite		congl.
Barton	Honaker Drilling #1 Harrison "B"	29-19-14W NE SE NE	1899	3470	-1571	gran.	(Wichita)	congl.
Barton	Helmerich & Payne #1-B Morton	3-19-15W SE SW	1960	3582	-1622	gran.		Reag.
Barton	Vickers Petroleum Co. #3 Saylor	3-19-15W CN NW NW	1952	3558	-1606	quartzite	x	Reag.
Barton	M. & L. Oil Co. #1 Roger-Saylor	4-19-15W SE NW NE	1976	3545	-1569			Reag.
Barton	Skelly Oil Co. #2 Schultz	5-19-15W SW NW NE	2005	3614	-1609	quartzite		Reag.
Barton	Skelly Oil Co. #7 Schultz	5-19-15W NW NW NE	1955	3625	-1670			Reag.
Barton	Skelly Oil Co. #8 G. Schultz	5-19-15W NW NE NE	1990	3611	-1621			Reag.
Barton	Champlin #1 Hanken	9-19-15W NW SE SE	1943	3620	-1677	gran. wsh.		Arb.
Barton	M. & L. Co. #8 Hanken	9-19-15W NW SE SW	1960	3634	-1674			Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 117

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Frontier Oil Co. #1 Umnen	14-19-15W NE SW NW	1955	3497	-1542	15 ft. quartzite over gran. gneiss (or dike)		Reag.
Barton	Amerada #1 Merton	14-19-15W NW NW	1946	3460	-1514			Kans. City
Barton	Curtis Dahl #1 Saylor	16-19-15W NW NW NE	1949	3623	-1674			Reag.
Barton	Harms & Burt #1 Wetzel	17-19-15W	1954	3640	-1686	gran. wsh.		
Barton	Max Cohen #1 Converse	17-19-15W NW SW	1954	3640	-1686	3 ft. gran. wsh. over gran.		Reag.
Barton	Amerada Petroleum Corp. #1 Russell	24-19-15W SE SE NW	1904	3651	-1747	quartzite	x	Reag.
Barton	Schermerhorn #1 Pendergast	27-19-15W SW SW NE	1928	3627	-1699			Reag.
Barton	Great Bend Brick & Tile & H. & H. Drilling #1 Button	35-19-15W SW NE NW	1920	3530	-1610	quartzite	x	congl.
Barton	Schermerhorn #1 Merten	35-19-15W NW NE SE	1933	3529	-1596	quartzite	x	Reag.
Barton	Schermerhorn Oil #2 Merten	35-19-15W NW SE SE	1931	3553	-1622	quartzite		B/KC

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Schermerhorn Oil Corp. #1 "A" Merten	36-19-15W SW NW SW	1938	3540	-1602	quartzite	x	Reag.
Rush	Stanolind #1 "A" Buddie	2-19-16W SE SE NW	2017	3661	-1644	gran.	x	Reag.
Rush	Barnsdall #1 Schultz	3-19-16W SW SW	2040	3879	-1839	quartzite		Reag.
Rush	Dewey et al # Greenwalt	17-19-16W C SW	2095	3800	-1705			Arb.
Rush	Ben F. Brack #6 Rankin	27-19-16W NW NW SE	2032	4276	-2244	23 ft. gran. wsh. over gran.		Arb.
Rush	Stanolind Oil & Gas #1 Tammen	35-19-16W NW SE SE	1982	4249	-2267	gran.		Arb.
Rush	Danciger #1 Pwonka	17-19-17W C NE	2126	4145	-2019	gran.		Arb.
Ness	Sinclair Prairie # Wilhelm	16-19-21W C SW SW	2215	4777	-2562			Arb.
Rice	Bay Petroleum Corp. #3 Sarah Keesling	3-20-9W CS NE SW		3680		gran. wsh.		Reag.
Rice	Cities Service Oil Co. #3 Profitt	6-20-9W SW NW SE	1731	3859	-2128	gran. wsh.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Rice	Continental #3 Peterson	10-20-9W SE SW SE	1691	3965	-2274			Arb.
Rice	Gulf Oil Corp. #1 Morse	15-20-9W NW SE	1696	4103	-2407	quartzite		Reag.
Rice	Midco #9 Hartle	15-20-9W NE SW NW	1709	3820	-2111 <del>-2166</del>	55 ft. gran. wsh. over gran.		Arb.
Rice	Mid-Continent Petroleum #2 Wood	4-20-10W NW NE NE	1792	3920	-2128	schist		Reag.
Rice	J. H. Tatlock #9 Drews	5-20-10W SE NE SW	1808	3906	-2098			Arb.
Rice	J. H. Tatlock #4 Barscheit	6-20-10W SW NW	1772	3753	-1981	gran. wsh.		Arb.
Rice	Natl. Coop. Ref. Assn. #3 Barscheit	18-20-10W SE SE SW	1743	3879	-2136	gran.		Arb.
Rice	The Texas Co. #5 West	21-20-10W NW NW	1794	3958	-2164			Kans. City
Rice	The Texas Co. #1 West	21-20-10W SE SW NW		2958				
Barton	Magnolia #8 M. Stekel	1-20-11W NE SW NW	1764	3806	-2042	gran. wsh.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	The Texas Co. #2 Koch	7-20-11W CE SW SW	1783	3920	-2137	gran. wsh.		Arb.
Barton	Stanolind #9 Danning	10-20-11W N NE	1763	3920	-2157	gran.		Arb.
Barton	Stanolind Oil & Gas Co. #12 Pauline Kowalsky	11-20-11W CS N NE	1705	3868	-2163			Reag.
Barton	Stanolind Oil Co. #1 Stuckemann	11-20-11W NEc SW	1756	3863	-2107		x	Arb.
Barton	Henderson Oil Co. #3 Scheufler	16-20-11W CE E SW	1766	3883	-2117	35 ft. gran. wsh. over gran.		Reag.
Barton	Bridgeport #8 Konalsky	18-20-11W SE NE	1781	3819	-2038	gran.		Arb.
Barton	Gulf Oil #4 Sessler	24-20-11W C N SW	1751	3798	-2047			Arb.
Barton	Lario #5 Peter	24-20-11W NE NW	1753	3744	-1991	gran.		Arb.
Barton	W. H. Black #1 L. Schwartz	7-20-12W SW NW NW	1847	3454	-1607	quartzite		Arb.
Barton	Conoco #5 Scheuffler	24-20-12W NEc NW	1813	3815	-2002	gran.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Everett-Wiley #1 Ward	12-20-13W NW SW	1853	3912 <sup>E</sup>	-2059	gran. wsh.		Arb.
Barton	Schermerhorn Oil Corp. #3 Weathers	27-20-13W NW SW NW	1883	3548	-1665	quartzite	x	Arb.
Barton	Schermerhorn Oil Corp. #3 Jackson	28-20-13W SWc NE	1888	3598	-1710	gran.	x	congl.
Barton	Eranine et al #1 McGreevey	29-20-13W NW NW SW	1896	3406	-1510	gran.		Lans.
Barton	Graybol Contracting Corp. #1 McGreevy	29-20-13W NW SE NW	1898	3474	-1576	gran.	x	congl.
Barton	Graybol Contr. et al #2 Murphy	29-20-13W NW SE NW	1894	3413	-1519	gran.		Lans.
Barton	Graybol Construction Corp. et al #3 Murphy	29-20-13W SE SW NW	1897	3411	-1514	5 ft. gran. wsh. over gran.		Lans.
Barton	Graybol Contracting Corp. #6 Murphy	29-20-13W NE SE NW	1895	3514	-1619	5 ft. gran. wsh. over gran.	x	congl.
Barton	Graybol Contracting Corp. #7 Murphy	29-20-13W SW SW NW	1898	3424	-1526	2 ft. gran. wsh. over gran.		Lans.
Barton	Frontier Oil Co. #1 Woodburn	29-20-13W NW SW SW	1900	3458	-1558	gran.	x	congl.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian Surface	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Frontier Oil #1 McGreevy	30-20-13W SW SE SE	1902	3375	-1473	gran.	x	Lans.
Barton	Frontier Oil #3 McGreevey	30-20-13W NE SE SE	1899	3358	-1459	gran.		Lans.
Barton	Frontier Oil #4 McGreevey	30-20-13W CE E SE	1898	3433	-1535	11 ft. gran. wsh. over gran.		Lans.
Barton	Wm. Graham et al #1 Hiss	31-20-13W NW NW NE	1905	3404	-1499	gran.		Lans.
Barton	Armer #1 Hiss	31-20-13W CNW NE	1905	3404	-1499			Lans.
Barton	William Graham #3 Hiss	31-20-13W NE NW NE	1907	3419	-1512	gran.		Lans.
Barton	Phillips #3 Spani	36-20-14W SW NE NE	1905	3694	-1789	gran. wsh.	x	Arb.
Barton	Phillips Petroleum Co. #4 Spani	36-20-14W eN SW NE	1909	3415	-1506	gran.		Lans.
Barton	Phillips Petroleum Co. #5 Spani	36-20-14W SW NW NE	1912	3435	-1523	17 ft. gran. wsh. over gran.		Lans.
Barton	Phillips #3 Weathers	36-20-14W S SE NW	1901	3422	-1521	6 ft. gran. wsh. over gran.		Lans.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Barton	Cohen #1 Wright	36-20-14W NE SW	1908	3468	-1562	gran. wsh.		Kans. City
Barton	Max Cohen #3 Wright	36-20-14W SW NE SW	1903	3530	-1627	gran.		congl.
Pawnee	NCRA & Sterling #1 Russell	1-20-20W	2266	4608	-2342	21 ft. gran. wsh. over gran.		Arb.
Pawnee	et al Republic Natural Gas Co. #1 Harms-Spruill	15-20-20W NE SW SW	2218	4480	-2262			Viola
Pawnee	Rine Drilling #1 Draper	22-20-20W NE NW NW	2215	4474	-2259			Viola
Stafford	Cooper et al #1 Sifers	23-21-11W NW SW NE	1740	4107	-2367	gran.		Reag.
McPherson	Sinclair #8 Moorehouse	4-21-3W SE NW NE	1451	4335	-2884	gran. wsh.		Reag.
Pawnee	Continental #1 Chennell	1-21-15W NE NW	1930	3821	-1891	gran.		congl.
Pawnee	Vickers Exp. Ltd. #1 English	1-21-15W NE SE NW	1920	3558	-1638	gran. wsh.		congl.
Pawnee	Gulf Oil Corp. #3 Gross	6-21-15W SW NE NW	1977	4399	-2422	gran.	x	Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 124

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Pawnee	Gulf Oil #1 Robert Bell	34-21-16W SE NE NE NE	1983	4570	-2587	11 ft. gran. wsh. over gran.		Reag.
Pawnee	Cities Service Oil Co. #1 Evans	18-21-17W NE SE SW	2081	4011	-1930	gran.		
Pawnee	Honaker Drilling #1 Jordaan	19-21-17W NE NE NE	2063	4022	-1959	14 ft. gran. wsh. over gran.		congl.
Pawnee	Amerada #1 Welch	30-21-17W CSE SE	2041	4195	-2154	gran.		Reag.
Pawnee	Musgrove Petroleum #1 Lucas	13-21-18W NE NE NE	2090	4027	-1930	26 ft. gran. wsh. over gran.	x	congl.
Kearny	Stanolind #1 Judd	15-21-38W SE SE	3347	6060	-2713	gran.		Arb.
Harvey	Sinclair Prairie # A-2 Neufeldt	18-22-3W CE SE	1435	4259	-2825	100 ft. gran. wsh. over gran.		Arb.
Reno	Westgate Greenland # 2-B Hagerty	36-22-5W SE NW	1560	4586	-3026	gran. wsh.		Arb.
Stafford	Stanolind Oil & Gas Co. #6 W. Harma "B"	18-22-12W CN SW NW	1883	4305	-2422			Arb.
Stafford	Phillips Petroleum Corp. #1 Bordewick	1-22-14W CS SE NE	1918	4384	-2466	24 ft. gran. wsh. over gran.	x	Reag.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Reno	Barnsdall #1-c Sabin	11-23-4W Nw SE	1493	4425	-2932			Reag.
Reno	Olson-Shell Petroleum Corp. #7 Blake	23-23-4W NEc SW	1468	4530	-3062	gran. wsh.		Arb.
Reno	Olsen-Shell #5-A Goering	26-23-4W NE NE SW	1467	4495	-3028	gran. wsh.		Arb.
Reno	Sinclair Prairie Oil Co. #6 Adam Base	26-23-4W NW SE	1466	4485	-3019	gran.		Arb.
Reno	Republic Natl. Gas Co. #4 Snowbarger	21-23-10W SW NW NE	1779	4623	-2844	gran.		Reag.
Reno	Gulf #2 Meyer	3-24-4W NW SE NW	1471	4520	-3049	quartzite		Reag.
Reno	Sinclair Prairie #1 Carmichael	15-24-4W NE NW	1466	4581	-3115	gran.		Reag.
Reno	Horston Nadet #3 Mount	20-24-4W NW SW NE	1471	4580	-3109	gran.		Arb.
Stafford	Sinclair #5 McComb	24-24-11W SW NW NW	1799	4714	-2915			Reag.
Stafford	Atlantic Refg. Co. #1 Pound	27-24-13W NW NE	1927	4610	-2683	felsite porphyry <del>etc.</del>		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian Surface	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Stafford	Phillips Petroleum Co. #1 Effie	36-24-13W NEc NW	1914	4754	-2840	gran.		Arb.
Stafford	Natural Oil & Gas #1 Howell	36-24-14W NW NE SW	1954	4736	-2782		x	Arb.
Edwards	Max Cohen #1 Bright	1-24-16W NW NW SW	2054	3952	-1898	16 ft. gran. wsh. over gran.	x	Arb.
Edwards	Atlantic Oil Prod. #1 Bradbridge	1-24-16W CSE NW	2055	4465	-2410	quartzite		Arb.
Edwards	Max Cohen #1 Klein	2-24-16W SW NE SE	2052	3942	-1890	11 ft. gran. wsh. over gran.		Lans.
Edwards	Natural Gas & Oil Corp. #1 Enlow	9-24-16W SE NE NW	2076	4282	-2206	2 ft. gran. wsh. over gran.	x	Viola
Edwards	Natural Gas & Oil Corp. #2 Enlow	9-24-16W NE SE NW	2076	4252	-2176	gran.	x	Viola
Hodgeman	Armer & Koplín #4 Schraeder	3-24-24W SE NW NW	2481	5225	-2744	<i>Precambrian ??</i> <del>gran. wsh.</del>		Simpson
Sedgwick	L. H. Wentz #1 Bright	1-26-1W SE NE NW	1345	4183	-2838	quartzite		Reag.
Sedgwick	Gulf Oil Co. #7 Wright	12-26-1W NW NE SE	1343	4190	-2847	gran. gneiss		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Sedgwick	Bu Vi Bar #1 Hudson	12-26-1W SW NE	1334	4162	-2828	quartzite		Arb.
Pratt	Deep Rock #9 "C" Calbeck	33-26-13W CNW	c.1940	5158	-3218	gran.	x	Reag.
Pratt	Champlin Refining Co. #2 "C" Moore	11-26-14W NW NW SW	1990	5204	-3214	gran.		Reag.
Sedgwick	P. R. Lauck #1 McLean	1-27-1W SWc SE	1316	4376	-3060	quartzite		Reag.
Kingman	Skelly Oil Co. #1 "A" Miles	30-27-10W NE NE	1675	4936	-3261	gran.		Lans.
Pratt	Phillips Petroleum Co. #1 Pratt "A"	36-28-14W	1986	4596	-2610			Arb.
Sumner	Champlin #1 Stevens	9-30-1W SW SE	1278	4924	-3646	quartzite		Simpson
Barber	Barbara Oil Co. #1 Boggs	19-33-12W C SW NW	1825	6130	-4305	gran.		Reag.
Seward	Stanolind Oil & Gas Co. #1 Feathers	15-35-33W	2823	8243	-5420	gran.		Arb.
Stevens	Hugoton Production Co. #2-12 Panoma	12-31-38W NE NW SE	3138	7600	-1462	wea. gran.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Norton	C-G Drilling Co. #1 Sanders	25-2-23W SE SE SE	2242	3625	-1383	wea. gran.		Reag.
Norton	D. G. Hansen #1 Duensing	20-2-24W NE NE SE	2499	3748	-1249	gran. wsh.		Reag.
Decatur	Jones, Shelburne & Farmer #1 Holben	30-2-26W NW NW NW	2668	4028	-1360	4 ft. gran. wsh. over gran.		Reag.
Norton	Aurora Gasoline #1 Zimmerman	11-4-25W SW SW NE	2463	3960	-1497	gran. wsh.		Reag.
Ellis	El Dorado Refining Co. #1 Huber	32-12-20W NW NW SW	2175	4066	-1891	Precambrian, undetermined		Arb.
Barton	Darrah #2 Norton	21-16-12W SW NW SW	1923	3476	-1553	quartzite		Arb.
Barton	El Dorado Refg. Co. #1 Dolechek	26-16-12W SE SE NE	1935	3332	-1397	gran. wsh.		Reag.
Barton	Shell Oil Co. #1 Soeken "B"	21-17-11W CS2 N2 NE	1808	3542	-1734	Precambrian, undertermined		Arb.
Rush	Aylward Drilling #1 Lohrey	35-17-17W SW SW SW	2010	3592	-1582	gran. wsh.		KC: cong.
Rush	Carl Hines #2 Roth	20-18-16W SE SE NE	1970 <del>2242</del>	3560 <del>3625</del>	-1590 <del>-1383</del>	Precambrian, <del>wea. gran.</del> undetermined		Reag.



## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 131

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian Surface	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Washington	Gulf Oil Corp. #1 Baker	1-1-2E NW SE SE	1522	3141	-1619	11 ft. gran. wsh. over gran.		Arb.
Marshall	Davon Oil Co. #1 Schaeffer	20-1-6E NW NW SW	1257	2686	-1429	13 ft. gran. wsh. over gran.	x	St. Peter
<del>Nemaha</del>	<del>Texas Co. #1 P. L. Murdock</del>	<del>16-2-13E SE SE SW</del>	<del>1292</del>	<del>780</del>	<del>+582</del>	<del>148 ft. arkosic snd. over gran.</del>		<del>Lans.</del>
Washington	Westfield #1 Canfield	16-2-1E SW NW	1421	3400	-1979			
Marshall	Vermilion O. & G. 'Blue' #1 Fitzgerald	20-2-9E	1259	1270	-0011	met. rk.		
Marshall	Blue # Harry	20-2-9E	1300	1420	-120	gran.		
Marshall	Vermillion # Beatty	29-2-9E S SE	1252	1420	-168	"hornblendite"		
Nemaha	Seneca #	33-2-12E CE	1174	586	+588	"cryst lst."		
Nemaha		34-2-12E NW	1150	586	+564	gran.		
Nemaha	Texas Company #1 Murdock	16-2-13E SE SE SW	1292	838	+454	148 ft. of arkosic sand over gran.	x	

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Nemaha	Ohio #1 Lamporter	3-2-14E CN SW	1326	3940	-2614	gran.		camb Dol: snd.
Nemaha	Carter Oil Co. #1 Oreon Strahm	13-2-14E NW SW NW	1254	3929	-2675	gran.	x	Lamotte
Nemaha	Carter Oil Co. #2 Koch Ranson	28-2-14E SW NE SE		3950				
Washington	Elder & Ward #1 Stamm	3-3-4E SW SW			-2035	met. rk.		
Marshall	Falcon-Seaboard #1 Randell	22-3-7E NW NE SW	1311	2255	-944	40 ft. of snd. wsh. over gran.	x	Simp.
Nemaha	Nemaha Oil Co. #1 Seneca	19-3-11E	1325	715	+610	gran.		
Nemaha	Nemaha Oil Co. # Weir	19-3-11E NW c	1218	700	+518	gran.		<i>nearly</i> gran. @ 940 ft.
Nemaha	Carter Oil Co. #1 Hutfles	25-3-13E NW NW SW	1302	2972	-1670	gran.	x	Simp.
Nemaha	Devon Oil Co. #1 J. E. Swart	26-3-13E NW NW NW	1284	2441	-1157	gran. wsh.	x	Simp. snd.
Brown	Phillips # Knudson	27-3-18E		3269				

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
✓ Marshall	Marshall Syndicate #1 Catherine Finn	4-4-7E NW NE NE	1260 <del>1328</del>	2265	-1005	met. rk.		
✓ Marshall	Blair #1 Cox	10-4-7E c SW SW		2180				
✓ Marshall	George F. Johnson #1 Floyd Brown	21-4-7E NE NE SW	1132	2000	-868	gran.	x	Simp. snd.
Marshall	Swicker & Sincox #1 Dowruple	22-4-9E NE NW	1153	1212	-59	gran.		
Marshall	Dalton J. Woods #2 Shearer	29-4-9E NW NW NW	1200c	1340	-140c	gran.	x	Simp.
Marshall	Kansas Oil Company #1 Fisher	9-4-10E SW SW SW		1110		gran.	x	
Marshall	Kansas Oil Co. #1 Brosa	16-4-10E SW SW SE	1200?	1065	+135			
Nemaha	Woods Oil & Gas Co., Inc. #1 Whaley	34-4-13E NW NW NE	1296	3918	-2622	gran.	x	Arb.
✓ Marshall	Ohio Oil Company #1 Henry Ostenkamp	27-5-6E SW SW NE	1368	2530	-1162	26 ft. gran. wsh. over gran.	x	St. Peter
✓ Marshall	Falcon Seaboard #1 Blaney	3-5-7E NE SW SW	1270	2420	-1150	120 ft. gran. wsh. over gran.		Simp.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian Surface	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
✓ Marshall	Ohio Oil Co. # Kratachuil	30-5-7E SE SE SW	1407	2495	-1089	schist		
Nemaha	Wood Drilling Company #1 Griffith	23-5-13E SE NE NE	1342	3971	-2629	gran.	x	Reag.
✓ Clay	Dieter et al #1 Lippert	1-6-4E 28-6-4E SW NE NE	1241	2803	-1562	schist 45 ft. of schist over gran. dike		St. Peter
✓ Riley	Gen. Utility #1 May	30-6-6E NE SE	1242	2467	-1225			
✓ Riley/ Pottawatomie	Elmhurst Inc. #1 Hiegle	11-6-7E	1521	1900	-379			
Pottawatomie	Tri State #1 Pierce	23-6-9E NW NW	1493	1778	-285	gran.		
Pottawatomie	Dalton Wood et al #1 Mahan	25-6-9E NW NE SW	1400c	1753	-353c	gran.		Viola
Pottawatomie	Malzhan et al #1 Shearer	33-6-9E NW NW NE	1484	1911	-427	quartzite and schist	x	St. Peter
Pottawatomie	Empire #1 Rokes	34-6-11E SW NW	1171	960	+211	gran.		
✓ Clay	El Capitan Oil Co. # 1 Crawford farm	1-7-3E SEc SW	1411	3162	-1751	<i>distase</i> quartzite	x	Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Riley ✓	Gypsy #1 Droll	2-7-5E SE NW	1127	2385	-1258	20 ft. gran. wsh. over gran.		
Riley ✓	Ben Brack Oil Co. #1 Erickson	15-7-5E NE NE NW	1345	2550	-1205		x	St. Peter
Riley ✓	Wichita National # Elmdale	2-7-7E	1100	1890	-790			
Pottawotomie	J. B. Hawley #1 Pendergast	8-7-9E SE SW SE	1460	1824	-364	gran. wsh.	x	Reag.
Pottawotomie	Shell Core Hole #	12-7-9E NE NE SW	1305	1705	-400			Simp.
Pottawotomie	Shell Core Hole #	1-7-10E NE SE SE	1365	1449	-084			Simp.
Pottawotomie	Shell Core Hole #	4-7-10E SW SE SW	1475	1715	-240			Simp.
Pottawotomie	Shell Core Hole #	29-7-10E NE NE NE	1395	1707	-312			Simp.
Atchison	Indian Mounds #1 Oak Mills	13-7-21E NE c	844	2900	-2056	gran.		
Riley ✓	Arkansas Fuel Martin	24-8-4E SE NE SW	1328	2730	-1402	gran.		Simp.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Riley ✓	P. M. Polhamms et al #1 Hannan	29-8-5E NE NW SW	1398	2715	-1317	gran. wsh.		Arb.
Riley ✓	Veeder Supply & Dev. Co. #1 Cravenstine	21-8-6E NW NW NW	1258	2676	-1418	gran: to & quartzite	x	Simp.
Pottawatomie	Coronada Oil Co. # Welter	36-8-8E SW SW SW		2113				Arb.
Pottawatomie	Turner #1 Unscheid	32-8-9E NE SW	1111	1980	-869	gran.		Simp.
Pottawatomie	Shell-Core Hole # 12-3	1-8-10E SW SE SE	1125	2003	-878			Simp.
Pottawatomie	Shell Core Hole #	7-8-10E NW NW NE	1423	1878	-455			Simp.
Pottawatomie	Anderson-Prichard #1 McFarland	14-8-11E NE NE SE	1292	3486	-2194		x	Simp. snd.
Pottawatomie	Carter Oil Co. #1 Browning	8-8-12E SE SE NW	1228	3615	-2387	quartzite	x	St. Peter
Pottawatomie	Ajax Oil Co. et al #1 Miller	22-8-12E NW NW SW	1154	3480	-2326	quartzite		Simp.
Pottawatomie	Woods Oil & Gas Co. #1 Johnson	29-8-12E NE NW SW	1128	3457	-2329	quartzite		Simp.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Jackson	McLaughlin #1 Allen	32-8-16E	1100c	3068	-1968c			Arb.
Riley ✓	Salina #1 Lewellen	11-9-4E	1249	2813	-1564	gran.		Simp.
Riley ✓	Empire Gas & Fuel #1 Woodbury	14-9-4E SWc NE	1216	2760	-1544c	gran.	x	Simp.
Pottawatomie	La Shelle Oil et al #1 Umscheid	16-9-9E cNW NW	1083	2065	-982	quartzite	x	Simp.
Pottawatomie	Crawford #1 Hooper	34-9-9E SE NW	1111	1850	-739	gran.		
Pottawatomie	Caddo Oil Co. Inc. #1 Ebel	32-9-10E NE NE NE	1078	1707	-629	gran.	x	St. Peter
Pottawatomie	Weller & Bush #1 Brunner	36-9-10E NE NE NE	973	2984	-2011	biotite gran.	x	St. Peter.
Pottawatomie	Morrison Drilling Co. # Ault	5-9-11E SE SE SE	1077	2974	-1897	3 ft. gran. wsh. over gran.		Arb.
Pottawatomie	Milo G. Siegel #1 Rezac	7-9-12E SW SW SW	1257	3605	-2348	gran.	x	Reag.
Jefferson	Northern Counties #1 Winchester	13-9-19E NW NW	1073	3085	-2012	gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Clay ✓	Derby Oil Co. #1 Neimoller	19-10-3E NWc SW	1313	3110	-1797			
Riley ✓	Pawnee Oil & Gas Co. #1 Marks	26-10-6E NE SW NW	1213	1643	-430	gran.		
Riley	Heeley #1 Their	20-10-7E NE NW	1264	2400	-1136			
Riley	Wetton # Thier	20-10-7E	1264	2400	-1136			
Riley	Coronado #1 Parks	16-10-8E SE C	1006	1983	-977	gran.		Simp. sh.
Wabaunsee	Parker Oil #1 Bardwell	26-10-9E	1003	928	+75			
Wabaunsee	Parker Oil #2 Bardwell	26-10-9E SW c NE	1005	958	+47			
<del>Pottawatomie</del>		<del>27-10-9E SW NE</del>	<del>1005</del>	<del>958</del>	<del>+47</del>	<del>gran.</del>		
Riley	Parker Oil Co. #1 Bardwell	28-10-9E NWc NW	1100	945	+155			
Riley	Parker Oil Co. #2 Bardwell	28-10-9E SW NE	1015	958	+57	gran.		

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 139

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Wabaunsee	Crawford #1 Miller	12-10-10E SE SE	990	2215	-1225	gran.		
Wabaunsee	Amerada Petroleum Corp. #1 Leafy E. Morton	28-10-10E SW SW NW				gran. wsh.	x	
Wabaunsee	Amerada Petroleum Corp. #1 Wm. Bolton	32-10-10E SW SW SE		1698	-698		x	Arb.
Wabaunsee	Amerada Petroleum Corp. #1 A Enlow	33-10-10E SW SW SE	1000c	2690	-1690	gran. or syenite	x	Arb.
Shawnee	Musgrove Petroleum Corp. #1 Heiland	6-10-13E NW NW NW	1115	3320	-2205	gran.		Arb.
✓ Dickinson	#1 Lease	19-11-3E		940		?		
✓ Dickinson	Dearing #1 Danz	34-11-4E SE NW	1222	2940	-1718 ????	metam.		
✓ Gearly	Crawford & Jennings #1 Younkin	17-11-5E	1222	2940	-1718	Metam. rk.		
Wabaunsee	Empire Oil Co. #1 Root	1-11-9E CNW SW	1147	1180	-33	gran.		
Wabaunsee	Forrester #1 Jones	24-11-9E NE SW	1318	1535	-217	gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
						??		
Wabaunsee	Amerada Petroleum Corp. #1 Allie Willig	5-11-10E CSE SE SE	1150c	2475	-1325c	gran.	x	Arb.
Wabaunsee	Amerada Petroleum Corp. #2 Allie Willig	5-11-10E NW NW SW	1150c	1508	-358c	feldspar- biotite gran. (gneissic)	x	Arb.
Wabaunsee	Amerada Petroleum Corp. #2 Allie Willig	5-11-10E NW NW NW		1508				Arb.
Wabaunsee	Amerada Petroleum Corp. #1 S. Mertz	6-11-10E SW SW NE	1100c	1224	-124c	gran.	x	<sup>a</sup> M <sup>a</sup> rmaton
Wabaunsee	Carter Oil Co. # Hakammen	27-11-10E SW SW SE	1217	3365	-2148			Arb.
Wabaunsee	Helmerich & Payne #1 Uhrig	8-11-12E SE SE SW	1070	3225	-2155			Arb.
Shawnee	Forrester # Hummer	14-11-16E SE NE	949	3005	-2056	gran.		Arb.
Shawnee	Forrester et al #7 Indian Reserve	14-11-16E NWc SE SE	949	2980	-2031			
Wyandotte	Forester et al #1 Swift	12-11-25E		2327				
Geary	Pioneer #1 Chase	10-12-7E SE SE	1412	2918	-1506	gran.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre-cambrian Surface	Pre-cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Geary	Pioneer Petroleum Co. #1 Zumburam	28-12-7E SW NE	1196	1895	-699	gran.		
<i>Shawnee</i>	Green #1 Ripley	12-12-16E NW c NE	1016	3005	-1989			
✓ Dickinson	Cook County Farm #	11-13-2E NE c NE		3260?				
✓ Dickinson	Seevers et al #1 Livingood	13-13-2E SEc NW	1139	3260	-2121		(above Pres.) x	Reag.
✓ Geary	H. H. Hetzer & Pay Rock Co. #1 Sullivant	36-13-5E NE NE NE	1345	3030	-1685	gran.	x	Simp.
Wabaunsee	Skelly Oil Co. #1 Thoewe	2-13-10E SE NW SE	1104	3290	-2186	gran.		Simp. snd.
Wabaunsee	Williams et al #1 Henderson	15-13-12E SW NE	1172	3428	-2256	gran.		
Johnson	Kasper #1 James	8-13-25E NE NW	861	2273	-1412	gran.		
✓ Dickinson	Marland #1 Engel	12-14-1E NW NE	1193	3420	-2227	gran. wsh.		Arb.
<del>Dickinson</del>	<del>Marland #1 Engle</del>	<del>12-14-1E c NE</del>	<del>1108</del>	<del>3420</del>	<del>-2232</del>	<del>schist</del>		<del>Arb.</del>

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 142

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
<del>Dickinson</del>	<del>Marland #1 Engle</del>	<del>12-14-1E SE NW NE</del>	<del>1190</del>	<del>3420</del>	<del>-2230</del>	<del>schist</del>		<del>Arb.</del>
Morris	Alta Vista #1 Taylor	5-14-8E c NE SW	1348	2480	-1132	gran.		Arb.
Osage	Touker #1 Miles	23-14-14E SW NW	1224	3085	-1861	gran.		
Douglas	G. J. Neuner #1 Emmett	6-14-18E CNW		1638		gran.	x	
Douglas	R. F. Duffens #1 Stanley	3-14-21E NE NW	931	2463	-1532	gran.		
Johnson	Seminole #1 Harrington	12-14-22E NE SW	1026	2400	-1374	gran.		Arb.
Morris	Franks #1 Neilson	6-15-7E SE SW	1419	2976	-1557	gran.		Arb.
Morris	Echo #1 Whiting	24-15-7E NE SW	1384	2512	-1128	gran.		
Osage	Elmhurst #1 Badger	4-15-16E SE NW NW	1156	2743	-1587	2 ft. gran. wsh. over gran.		Arb.
NW Franklin SW Douglas	Sperry Oil & Gas #1 Gist	27-15-18E SE NE	1073	1430	-357	gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples	Formation on Basement
Dickinson	Hutchinson Oil & Gas Co. #1 Doetwiler	33-16-4E	1385	3110	-1725			Arb.
Morris	Lincoln Oil Co. #1 Breckhill	24-16-5E NE SE SE	1472	3066	-1594	gran.	x	Arb.
Morris	#1 Heigle	11-16-7E NW SE	1487	2045	-558	gran.		
Morris	Westgate Greenland Oil Co. #1 Orphans Home	15-16-7E SE SE SE	1460	2155	-695	quartzite		Arb.
Lyon	Merton Bulla #1 Richards	6-16-10E NE NE SE	1350	3224	-1874		x	St. Peter
Lyon	Midge Oil Co. #1 Day	16-16-11E NE NE SE	1393	3111	-1718			Simp. snd.
Osage	Elmhurst #1 Hyde	14-16-15E SW SE	1133	2900	-1767			
Osage	Orlando Petroleum Co. #1 Hyde	14-16-15E	1100	2874	-1774			
Miami	Lee #1 Hilldale	16-16-23E	975	2285	-1310			
Miami	Arroya #1 Lee	16-16-23E SW SW	894	2285	-1391	gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Miami	McDonald et al #1 Lee	16-16-23E SW Cor.	975	2285	-1310	gran.		
<i>Morris</i>	Whitney #	15-17-6E		2424		gran.		
Morris	Westgate Greenland Oil Co. #1 Hattie Meyers	23-17-7E SE SW SW	1523	2155	-632	Quartzite		Arb.
Morris	Stanolind Oil & Gas Co. #1 Veal	30-17-7E NE NE SE	1442	1863	-421	119 ft. gran. wsh. over gran.		
Morris	Empire Gas & Fuel #1 Moffett	34-17-7E NW SE	1532	2527	-995	gran.		Arb.
Osage	Mullivet #1 Neill	8-17-17E NW NE	1014	2540	-1526	gran.		
Franklin	Sentinel #6 Thompson	11-17-20E NE NE	992	2295	-1303			
Miami	Sentinel Oil #6 Thompson	11-17-23E		2160				
<i>miami</i>	Paola #	16-17-23E		2260		gran.		
Chase	National Refinery #1 Southworth	5-18-6E SE NW	1493	2430	-937	gran.		Arb. snd.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Chase	Federal Oil #1 Southworth	5-18-6E	1490	2430	-940			
Chase	Federal Oil #1 Southworth	5-18-6E SE SE	1487	2515	-1028	gran. wsh.		
Chase	Federal #1 Whitney	15-18-6E	1478	2427	-949	gran.		
Chase	National Refinery #1 Case	19-18-6E NE SW	1429	2410	-981	gran.		
Chase	Empire Preston & Posewalk #2 Lipps	25-18-6E	1400	2050	-650	gran.		
Chase	Urschel et al #1 Lipps	27-18-6E NEc SE	1472	2100	-813	gran.		
Chase	Baker #1 Anderson	4-18-7E NW NE	1432	2050	-618	gran.		
Chase	Preston & Posewalk #1 Lips	32-18-7E NE SW	1346	2260	-914	gran.		
Chase	Preston & Posewalk # Hymer	34-18-7E	1500	2505	-1005	?		
Chase	Miss Valley #1 Mulvane	36-18-7E NW NW	1419	2310	-891			

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Lyons	Ajax & Continent #1 Miller	22-18-12E		3482		quartzite		
Lyon	Elmhurst #1 Mason	24-18-12E SE NE	1156	3177	-2021			
Osage	Preston #2 Lips	25-18-16E SW SE	1416	2025	-609	gran.		
<i>miami</i> <del>Anderson</del>	Elmhurst #1 Roberts	11-18-22E		2500		gran.		
<i>miami</i> <del>Anderson</del>	Ossawatomie dry hole # Roberts	11-18-22E		2044		gran.	X	Reag.
<i>miami</i> <del>Anderson</del>	Ossawatomie #1 City Dump	12-18-22E NE SW	846	2100	-1254	gran.		
Marion	Anderson Prichard Oil Corp. #1 Jost	22-19-2E SW SW NW SW	1400	3062	-1664	quartzite		Simp.
Marion	Marigold #1 Kreytzinger	28-19-3E NE SE	1324	2730	-1406	gran.		
Marion	Sharp #1 Stenzel	18-19-5E SE NW NW	1438	3163	-1725	gran.		Arb.
Marion	Sharp Oil #1 Stenzel	32-19-5E	1446	3045	-1599			

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Marion	Alter #1 Makovac	32-19-5E NW SW	1446	3045	-1599	gran.		
Chase	Markey #1 Collett	7-19-6E SE NW	1298	2596	-1298	gran.		Arb.
Chase	Kingwood #1 Ellaston	21-19-6E SW SE	1350	2450+	-1029	gran.		
Chase	<del>Greely</del> Greely Drilling Co. #1 "A" Thurston	17-19-7E SE SE NE	1306	1921	-615	gran. wsh.		Simp.
Chase	Stanolind Oil & Gas #1 K. Davis	29-19-7E	1328	1775	-447	gran. wsh.		B/KC
Chase	Derby #1 Poorfarm	34-19-7E SWc SW	1198	1805	-607	gran.: basic dike	x	
Chase	Leader #1 Breese	35-19-7E SE NE	1336	1934	-598	gran.		Basal Penn. congl.
Chase	Steinbuchel #1 Cooke	31-19-8E SW SW	1272	2957	-1685	gran.		Kinderhook
Chase	Delatte Sheperd #1 Cook	31-19-8E NE SW SW	1420	2957	-1537			
Chase	Elmhurst #1 Allen	24-19-9E SW	1236	3346	-2110	gran., pegmatite + schist	x	

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian Surface	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Chase	Steinbuckel # Allan	24-19-9E	1238	3360	-2122			
Coffey	Slead #	36-19-13E				gran.		
Marion	Dieter # Wiens	27-20-2E	1384	3055	-1671+			Arb.
Marion	Noll #1 Woods	24-20-3E NW NE	1364	3522	-2158	gran?		Arb.
Marion	Noll & Durquette #1 Woods & Hollarn	24-20-3E NE SW NE	1367			gran.		Arb.
Marion	Tidel Oil #1 Graham	26-20-4E C SW NE	1314					Arb.
Chase	Prairie #1 McLinden	25-20-5E SE NW NW	1320	3010	-1690	gran.		Arb.
Chase	Prairie Oil #1 McLinden	25-20-5E	1307	3040	-1733			
Chase	George Martin #1 Winsor	2-20-6E SW SW NW	1411	2528	-1117	gran.	x	Reag.
Chase	Amerada Petroleum Co. #1 Lostutter	16-20-7E NE NE NE	1425	2810	-1385	gran.	x	Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian Surface	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Chase	Cities Service Oil Co. # Kaufman	2-20-7E NW NE	1409	1873	-464	gran. or qtz. porphyry	x	
Chase	Cities Service Oil-Forrester #1 Prather	7-20-7E SE NE	1208	1945	-737	gran.		
Chase	Prather	8-20-7E		1948				
Chase	Stanolind Oil & Gas #1 Ronigher	10-20-7E	1426	1917	-491	gran. wsh.		B/KC+
Chase	Alladin #1 Drummond	15-20-7E	1479	2325	-846	32 ft. gran. wsh. over gran.		
Chase	Vickers #1 Nicoll	16-20-7E SW NW	1377	1880	-503	gran.		
Chase	Stanolind Oil & Gas #1 P. Finley	20-20-7E	1316	1757	-441	gran. wsh.		K.C.+
Chase	F. D. Strickler et al #1 Harshman	29-20-7E NE NW SE	1300c	1906	-606c	gran., coarse	x	
Marion	Noll & Duquette #1 Neumann	26-21-1E SE NE	1527	3990	-2463	met. rk.		
Marion	Elmhurst Symonds #1 Allen	29-21-3E SW Cor.	1433	3600	-2167	gran.		Arb.

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Marion	Coop. Ref. Assn. #24 Reamey	17-21-4E S NE SE	1375	3079	-1704	gran.		
Marion	National #3 Warner	17-21-4E SE NE	1375	3165	-1790	gran.		
Marion	Mark Marlowe #5 Sellers	21-21-4E	1269	3008	-1739	gran. wsh.		
<del>Marion</del>	<del>Marlowe #5 Sellers</del>	<del>21-21-4E NW NW SE</del>		<del>3008</del>		<del>gran. wsh.</del>		<del>Arb.</del>
Marion	Prairie Oil & Gas Co. #1 C. P. Jeffers	17-21-5E CE SE SW				gran.		
Marion	Inland Oil Co. #4 D. A. Davis	20-21-5E NwC SE	1353	2150	-797	??		
Marion	Skelly Oil #3 D. A. Davis	20-21-5E NE SW SE	1344	2180	-836	??		
Coffey	Orlando Petroleum Co. #1 Snider	21-21-16E	1081	2531	-1450			
Anderson	#1 Kelley	30-21-20E SE SW		1313		gran.		
Marion	#1 Secrest	17-22-3E NE SW		2670		gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Marion	Watchorn #1 Milne	7-22-4E NE NE	1396 <del>1378</del>	3355	-1959	hornblende Schist		Arb.
Marion	Turkey Creek #1 Heath	15-22-5E SW NE	1415	2900	-1485	gran.		
Chase	Phillips #1 Hughes	15-22-9E SW SE	1521	3675	-2154			
Chase	Skelly Oil Co. #1 Leedy	25-22-9E NW NE SW	1633	3080	-1447	possible Prec.		Miss: +
Greenwood	Phillips Petroleum Co. #6-S D & A Unit	12-22-10E	1227	3439	-2212	23 ft. gran. wsh. over gran.		Arb.
Greenwood	Sinclair #7 Browning	20-22-10E	1480	3550	-2070	gran. wsh.		Reag.
Butler	Fancher #1 Smith	1-23-4E SE SW	1478	3468	-1990	62 ft. gran. wsh. over gran.		
Butler	Phillips #23 Scully	17-23-4E SW SE NE	1393	3572	-2179	gran.		Reag.
Butler	Phillips #1 Scully	17-23-4E NE NW SE	1368	3070	-1702	gran.		Reag.
Butler	#1 Scott	10-23-5E NE NW SE	1507	2310+	-803	gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian Surface	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Butler	Cities Service Oil Co. #1 Church	13-23-5E NW SW SE	1513	2182	-669	gran. wsh.		K. C.
Butler	Roxana #1 Lilly	14-23-5E SW NE	1488	2331	-843	gran.		
Butler	Roxana Petroleum Co. #1 Lilley	14-23-5E NEc NW		2330		gran.	x	
Butler	E. H. Adair #1 Methodist Church	14-23-5E cE NE NE	1513	2236	-723	gran. wsh.	x	
Butler	E. H. Adair et al #1 Lilley	15-23-5E NE NE SW	1480	2362	-882	gran.	x	Arb.
Butler	Dutton & Gillispie #1 Hassenthalers	16-23-5E SE SW	1486	2653	-1167	gran.		
Butler	McCullough #1 Lilley	23-23-5E NW NW	1465	2240	-775	60 ft. of gran. wsh. over gran.		
Butler	Roxana #1 Lilly	23-23-5E NE NW	1465	2300	-835	gran.		
Butler	Trapp #1 Covey	24-23-5E NE SW	1498	2378	-880	gran.		
Butler	Roxana #1 Covey	26-23-5E cS NW	1466	2545	-1079	gran.		

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Butler	Phillips #2 Wilson	31-23-5E SW SE	1468	3420	-1952	gran.		
Butler	Phillips #1 Elmdale	34-23-5E	1185	1805	-620			
Greenwood	Phillips # S-2 Beal	21-23-11E CS $\frac{1}{2}$ SE	1167	3139	-1972	gran. wsh.		
Woodson	Sinclair #20 "A" Maclaskey	29-23-14E				quartzite		
Anderson	Lambert et al #1 Wiggins	13-23-17E C NE		2100				
<del>Woodson</del>	<del>Lambert et al #1 Wiggins</del>	<del>34-23-17E</del>		<del>2100</del>				
Butler	Rex & Morris Co. #1 Arthur	6-24-5E E $\frac{1}{2}$ W $\frac{1}{2}$ NE	1464	3381	-1917	gran.		Reag.
Butler	Ramsey #1 Fee	8-24-5E NEc SW	1493	3322	-1829			
Butler	Ramsey #1 Ramsey	8-24-5E SW NE	1483	3358	-1875	meta.		
Greenwood	Gregory Brothers Orlando #1 Breitkrentz	4-24-10E NW SE SW	1374	3484	-2110	schist and quartzite	x	

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<del>Greenwood</del>	<del>Gregory Brothers Co. #1 Breitkrentz</del>	<del>4-24-10E</del>	<del>1374</del>	<del>3500</del>	<del>-2126</del>	<del>schist</del>		
Greenwood	Orlando #2 Breitkrentz	4-24-10E SW SW	1379	3487	-2108	meta.		
Woodson	Okla. P. & R. #1 Stevenson	5-24-14E SW NE	1140	2821	-1681	meta.		
Woodson	Okla. Nat. Gas Co. #8 Harris	8-24-17E SW Cor.	1009	1415	-406			
Allen	Okla. Prod. & Ref. Co. # Iola Deep Test	26-24-18E	975	2157	-1182	meta.		
Sedgwick	Continental #1 Casey	15-25-1E SW NW	1453	4203	-2750	meta.		Arb.
Butler	White Eagle Oil #1 A W. E. Stone	2-25-5E NE NW SW		3172				Arb.
Butler	Gypsy Oil Co. #1 Hewitt	3-25-5E NE SE SW	1350	3310	-1960			Arb.
Butler	Gulf #1 Hewitt	3-25-5E SE SW	1356	3305	-2149			
Butler	Cities Service Oil Co. #155 Wilson	8-25-5E SE NW	1358	3013	-1655	gran.		Arb.

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Butler	Cities Service Oil Co. #292 Wilson	8-25-5E SE SE SE	1377	3077	-1700	49 ft. gran. wsh. over gran.		Reag.
Butler	Cities Service Oil Co. #3 Atkins	29-25-5E SE SE		3670				
Butler	Cities Service Oil Co. #1 Murray	30-25-5E NE SE		3700				
Butler	Cities Service Oil Co. #1-S Pierpont	33-25-5E SE NE NW NW	1385	3076	-1691	gran. wsh.	x	Arb.
Woodson	Wrightsman #1 Byers	26-25-14E SW SE	989	2490	-1501	gran.		
Woodson	Reinhart & Donovan #1 Eades	10-25-15E		2590		quartzite		
Woodson	Aurora #1 Stockerbrank	17-25-15E NW SW	1120	2585	-1465	gran.		
Woodson	Nekan Oil Syndicate #1 Wix	32-25-15E NW SW	1008	2562	-1554	gran.		Simp.
Woodson	J. J. Delk #1 Newbold	29-25-16E	1145	2395	-1250	gran.		
Woodson	J. J. Delk #2 Newbold	29-25-16E		2383		gran.		Limestone

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Woodson	Gilbert Larson #1 Wright	3-25-17E SW NE SW				gran.		
Allen	Dalton Deep Test	34-25-19E	1025	2130	-1105	gran.		
Sedgwick	Murfin Drilling Co. #5 Weiskirch	11-26-2E SW SE SE	1352	4009	-2657	gran.		Arb.
Sedgwick	Gulf #2 Hamant	14-26-2E NW NE NW	1365	3985	-2620	gran.		Arb.
Butler	Rex & Morris P. Co. #1 Mann	6-26-4E SE SW SE	1284	3157	-1873	14 ft. gran. wsh. over gran.		Arb.
Butler	Gypsy #27 Schumway	11-26-4E SW NE	1394	2605	-1211	gran.		
Butler	Gulf Oil Co. #58 Shumway	11-26-4E SW SW NE	1369	2606	-1237	15 ft. gran. wsh. over gran.		Arb.
Butler	Union #15 Denny	12-26-4E	1370	2805	-1435	gran.		
Butler	Murfin #6 Gray	15-26-4E	1337	3079	-1742	gran.		Reag.
Butler	Blankenship #1 Pyle	22-26-4E SW NE	1317	3332	-2015			Arb./Reag.

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Woodson	Equity #1 Solomon	29-26-17E NW NW	1235	2405	-1170	meta.		
Bouban	Equity Oil #	25-26-23E NW	950	1826	-876	gran.		
Boubon	Okla. Natural #1 Stephenson	16-26-24E	933	1810	-877	gran.		
Butler	Carter #1 Wilson	16-27-4E NE SW	1223	3575	-2352			
Greenwood	Empire Natural Gas #1 J. Edgat	35-27-8E C NE SW	1437	3590	-2153			Arb.
Greenwood	Cities Service Oil Co. #1 Edgar	35-27-8E NE NE	1350	3700	-2350	gran.		
Wilson	Wentworth Brothers-G.F.Glare #1 McFadden	26-27-16E NWc SW		2366				
Neosho	Empire #	22-27-18E		2113		gran.		
Butler	Waite Phillips # Showalter	14-28-3E	1289	2755	-1466			
Butler	Cities Service Oil Co. #4 Rierson	14-28-4E NW NE	1300	3460	-2160			

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Butler	Cities Service Oil Co. #1 Brown	16-28-4E NE NE NE	1208	3251	-2043	gran. wsh.		Reag.
Butler	Cities Service Oil Co. #1 Brown	16-28-4E	1208	3251	-2043	11 ft. gran. wsh. over gran.		Reag.
Butler	Cities Service Oil Co. #1 Kirkpatrick	17-28-4E NE NW SE	1202	2792	-1590	22 ft. gran. wsh. over gran.		Reag.
Butler	Cities Service Oil Co. #31 Varner	17-28-4E NE NE	1253	2865	-1612	gran.		
Greenwood	Jameison #1 Dixon	18-28-9E SE NE SW	1417	3750	-2333	gran.		Arb.
Greenwood	Jameison #2 Dixon	18-28-9E SE SW	1375	3950	-2575	gran.		
Wilson	Jamieson #1 Morris	13-28-15E NE SW	950	2367	-1417	gran.		
Crawford	Lasalle #1 Gobe	20-28-25E NW	945	1838	-893	gran.		
Butler	Hartman-Derby #1 Nibel	22-29-3E SE SE	1279	4030	-2751	gran.		Arb.
Wilson	Fredonia #3 Smith	10-29-15E	1031	2211	-1180	gran.		

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Elk	Empire #1 Bantz	15-30-10E NW SW	1086	3245	-2159	gran.		Arb.
Wilson	Prairie # Neodesha	20-30-16E SW NE	912	2282	-1370	gran.		
Neosho	Dark & Sons #1 Arknnett	34-30-18E NE NW SW		2235				Arb.
Neosho	Pingery # Arnett	34-30-18E N SW	910	2234	-1324	gran.		
Sumner	Theta Oil (Elmerdale Oil) #1 W. A. Sleigh	36-31-2E SW NW	1257	3540	-2283			Arb.
Sumner	Elmerdale Oil # Sleigh	36-31-2E	1190	3420	-2230	gran.		
Sumner	Shell #8 Taton	36-31-2E CNE NW	1176	2904	-1728	gran.		K. C.
Cowley	Lloyd Frost #4 Carson	33-31-3E NW SE	1180	4037	-2857			Arb.
Cowley	Jack Garden Contracting Co. #1 Tonkinson	28-31-4E NE SW NW	1198	4360	-3062			Arb.
Elk	Kingwood #1 Osborne	8-31-11E NW NW	1031	2950	-1919	gran.		Arb.

## WELLS REACHING PRECAMBRIAN SURFACE IN KANSAS

Page 100

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- Cambrian	Pre- Cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Labette	Labette #1 Bradford	5-31-19E		2160		gran.		
Labette	Glore #1 Wert	17-31-21E NE SE	856	1886	-1030	gran.		
Cherokee	# Weir City-Water Well	33-31-24E	935	472	+463			
Sumner	Amerada #13 Gassoway	14-32-2E SE SW	1182	3345	-2163	gran.		Arb.
Sumner	Shell #1 Nevitt	14-32-2E	1161	3951	-2790	gran.		Arb.
<del>Sumner</del>		<del>23-32-2E SE NW</del>			<del>-2263</del>	<del>gran.</del>		
Sumner	Lario Oil & Gas #13 Wenrich "A"	23-32-2E NW SE NW	1184	3459	-2275	gran. wsh.		Arb.
Sumner	Sleigh #	36-32-2E		3420		gran.		
Montgomery	Stevens #1 Witts	7-32-16E SE SE	824	2424	-1600	gran.	X	
Montgomery	Stephens & Crissell #1 Witts	18-32-16E	824	2320	-1496	15 ft. Arkose over gran.		

County	Company, well number, and farm.	Location	Surface Elevation	Depth to Pre- cambrian	Pre- cambrian Surface	Type of Rock	S.G.S.K. Samples.	Formation on Basement
Cowley	Dovic #1 Smith	18-33-7E SE NW	1190	4005	-2815	gran.		Arb.
Chautauqua	Kingley & Rose #1 Kucheo	34-33-12E C NE SE		2794	-2805	11 ft. gran. wsh. over gran.		Reag.
Montgomery	Hydraulic #1 Beal	12-33-14E SW NW	850	2536	-1686	gran.		
Montgomery		7-33-15E SW SE		<del>2690</del>	-1690	gran.		
Montgomery		33-33-17E CSW		<del>2405</del>	-1405	gran.		
Montgomery	Brown # Miller	33-33-17E NW NE	720	2155	-1435	gran.		
Montgomery	Edgar Zinc #1 I. B. Miller	33-33-17E C SE	720	2160	-1440	gran.		Arb.
Cherokee	McMillan #1 Clark	13-33-21E SE SE		1900				
Cherokee	#1 City of Columbus	13-33-23E CSW NE	901	1761	-860	gran.		
Cherokee	Glower #1 Fortner	17-33-23E NW SE		1814		Met. rk.		

