

Fleeger, et al,
Center W/2 E/2,
Kingman County, Kansas.

S. 16; T. 28S; R. 7W,
Ashcroft #1,
By: A. S. Price.

CABLE TOOL SAMPLES:

1200 to 1210.... Anhydrite; shale, gray, 10%; dolomite, grayish-brown, 5%.
1210 to 1220.... Anhydrite; shale, gray, 20%; dolomite, grayish-brown, 5 to 10%.
1220 to 1230.... Anhydrite; shale, gray, 20%; trace chert, white; dolomite,
grayish-brown, 10 to 15%.
1230 to 1240.... Anhydrite; shale, gray, 10%; dolomite, grayish-brown, 5 to 10%.
1240 to 1250.... Shale, gray; limestone, brownish-gray, 15%; trace of chert, gray.
1250 to 1260.... Shale, gray; limestone, brownish-gray, 40%; trace of anhydrite.
1260 to 1270.... Shale, gray; limestone, brownish-gray, 30%; trace of anhydrite.
1270 to 1280.... Shale, gray; limestone, grayish-brown, shaley, 50%.
1280 to 1290.... Limestone, grayish-brown, shaley; shale, gray; anhydrite, 5%.
1290 to 1300.... Limestone and shale, gray.
1300 to 1310.... Shale, gray calcareous; limestone, gray shaley.
1310 to 1320.... Shale, various colored.
1320 to 1330.... Shale, gray calcareous; limestone, gray, shaley, 20%; trace of chert.
1330 to 1340.... Shale, gray calcareous, cherty.
1340 to 1350.... Limestone, light gray, light brown, fossiliferous.
1350 to 1360.... Limestone, 20% and shale, gray calcareous.
1360 to 1370.... Shale, red and greenish-gray calcareous.
1370 to 1380.... Anhydrite, dolomite, cherty shale, gray.
1380 to 1390.... Anhydrite and dolomite.
1390 to 1400.... Limestone, light brown, fossiliferous.
1400 to 1410.... Limestone, light brown, 5% and shale, gray, very calcareous.
1410 to 1420.... Limestone, light gray to white, shaley.
1420 to 1430.... Limestone, gray and shale, gray calcareous.
1430 to 1450.... Limestone, gray and shale, gray calcareous.
1450 to 1460.... Limestone, gray and only trace of shale.
1460 to 1470.... Limestone, light brownish-gray, fossiliferous.
1470 to 1480.... Limestone, light brownish-gray, fossiliferous, shaley.
1480 to 1490.... Limestone, light brown and shale, gray calcareous.
1490 to 1500.... Chert and limestone, white, gray.
1500 to 1510.... Chert, fossiliferous.
1510 to 1520.... Chert, fossiliferous.
1520 to 1530.... Chert and limestone, white, gray and brown.
1530 to 1540.... Limestone, white, cherty, fossiliferous.
1540 to 1550.... Shale, greenish-gray, very calcareous.
1550 to 1560.... Shale, gray, red and green.
1560 to 1580.... Shale, gray calcareous; limestone, 10%.
1580 to 1590.... Limestone, white, cherty; shale, gray, 15%.
1590 to 1600.... Chert and limestone, white, gray, brown; shale, 15%.
1600 to 1610.... Shale, gray; chert; limestone.
1610 to 1620.... Shale, gray, 15%; chert and limestone.
1620 to 1630.... Shale, red and greenish-gray calcareous.
1630 to 1640.... Shale, red and greenish-gray calcareous.

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1640 to 1650.... Shale, gray and red; limestone, 10%.
1650 to 1660.... Limestone, grayish-white; shale, gray and red.
1660 to 1670.... Shale, red, gray; limestone, 10%.
1670 to 1680.... Shale, red and gray.
1680 to 1690.... Limestone, light gray, dense; shale, 40%.
1690 to 1700.... Limestone, 35%; shale, gray, dark with trace red.
1700 to 1710.... Shale, red and gray.
1710 to 1720.... Shale, gray; limestone, 15%.
1720 to 1730.... Shale, gray; limestone and flint, 25%.
1730 to 1740.... Shale, gray; limestone, white, dense, cherty, 30%.
1740 to 1750.... Shale, red and greenish.
1750 to 1760.... Shale, gray; limestone, gray, slightly cherty, 20%.
1760 to 1770.... Shale, dark gray.
1770 to 1780.... Limestone, light brown, fossiliferous; shale, gray, 15% with trace of red.
1780 to 1790.... Limestone, light brown, fossiliferous; shale, gray, 25% with trace of red.
1790 to 1800.... Limestone, light brown, fossiliferous; shale, gray, 25% with trace of red.
1800 to 1810.... Shale, red, gray and green and limestone.
1810 to 1820.... Limestone, white, light brown, slightly gray.
1820 to 1830.... Limestone and shale, gray.
1830 to 1840.... Cavings.
1840 to 1850.... Shale and limestone, gray.
1850 to 1860.... Shale and limestone, gray.
1860 to 1870.... Shale, gray; limestone, 20%.
1870 to 1880.... Shale, dark gray.
1880 to 1890.... Shale, dark gray.
1890 to 2940.... Missing.
2940 to 2950.... Limestone, white, cream; shale, gray, 5%.
2950 to 2960.... Limestone, light brown, light gray, white; shale, gray, 5%.
2960 to 2970.... Limestone, light brown, light gray, white; shale, gray, 5%.
2970 to 2980.... Shale, black, slightly calcareous.
2980 to 3010.... Limestone, light brown, white; shale, dark, black, 15%.
3010 to 3020.... Limestone, dark gray, light gray; shale, dark, 50%.
3020 to 3030.... Limestone, light brown; shale, gray, 50%.
3030 to 3050.... Limestone, light brown; shale, gray, 50%.
3050 to 3060.... Shale, gray.
3060 to 3110.... Sand, fine, micaceous; shale, gray.
3110 to 3120.... Limestone, light brown, slightly cherty; shale, gray, 30%.
3120 to 3240.... Missing.
3240 to 3250.... Shale, gray; limestone, 15%; coal, 5%.

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3250	to	3260....	Limestone, light gray, brown, white; shale, gray, 45%.
3260	to	3270....	Limestone, light gray, white; shale, dark, 50%.
3270	to	3300....	Limestone, light gray, white; shale, dark, 50%.
3300	to	3310....	Limestone, light gray, white; shale, dark, 60%.
3310	to	3330....	Shale, dark; limestone, 30%.
3330	to	3340....	Shale, dark with trace of red; limestone, 30%.
3340	to	3350....	Shale, dark; limestone, 40%.
3350	to	3360....	Limestone, brown, cherty; shale, 30%.
3360	to	3370....	Limestone, light brown.
3370	to	3400....	Limestone, light brown.
3400	to	3410....	Limestone, light brown; shale, gray, 10%.
3410	to	3420....	Limestone, light brown; shale, gray, 20%.
3420	to	3430....	Limestone, light brown; shale, 5%.
3430	to	3440....	Limestone, light brown with trace of shale.
3440	to	3460....	Limestone, light brown with trace of shale.
3460	to	3470....	Limestone, light brown; shale, gray, 20%.
3470	to	3490....	Limestone, light brown with trace of shale.
3490	to	3500....	Limestone, light brown; shale, drab, 40%.
3500	to	3520....	Limestone, light brown; shale, 25%.
3520	to	3540....	Limestone, light brown.
3540	to	3550....	Limestone, light brown and shale, gray, dark calcareous, 60%.
3550	to	3560....	Limestone, light brown and shale, gray, dark calcareous, 60%.
3560	to	3570....	Limestone, light brown and shale, gray, dark calcareous, 60%.
3570	to	3590....	Limestone, light brown, cream with trace of shale.
3590	to	3600....	Limestone, light brown, cream with trace of shale.
3600	to	3610....	Limestone, gray; shale, gray, drab, 30%.
3610	to	3620....	Limestone, white, porous, oolitic (?); shale, 10%.
3620	to	3630....	Limestone, brown, white with trace of porous oolitic limestone and shale.
3630	to	3640....	Limestone, gray; shale, gray, 50%.
3640	to	3650....	Limestone, brown; shale, dark, 30%.
3650	to	3660....	Limestone, light brown, oolitic.
3660	to	3670....	Limestone, light brown.
3670	to	3680....	Limestone, light brown, oolitic.
<u>BASE OF KANSAS CITY LIMESTONE 3700.</u>			
3680	to	3690....	Limestone, light brown.
3690	to	3700....	Limestone, light brown; shale, 10%.
3700	to	3710....	Shale, gray and dark; limestone, 20%.
3710	to	3720....	Missing.
3720	to	3730....	Shale, gray.
3730	to	3740....	Shale, gray with trace of green and limestone with trace red shale.

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3740 to 3750.....Shale, gray, dark with trace of red and green.
3750 to 3760..... Shale, gray.
3760 to 3770..... Missing.
3770 to 3780..... Shale, gray, dark and red; limestone, 15%.
3780 to 3790..... Shale, gray, dark with some red; limestone, 15%.
3790 to 3800..... Shale, gray, dark with some red; limestone, 15%.
3800 to 3810..... Shale, gray, dark with some red; limestone, 15%.
3810 to 3820..... Shale, gray, dark with trace of red; limestone, 15%.
3820 to 3870..... Shale, gray, dark with trace of red and trace of limestone.
3870 to 3880..... Shale, gray, dark with some red.
3880 to 3890..... Shale, gray, dark; limestone, 60%.
3890 to 3900..... Shale, gray, dark; limestone, 60%.
3900 to 3910..... Shale, gray, dark; trace red.
3910 to 3930..... Shale, gray, dark with trace of red.
3930 to 3940..... Shale, various colored.
3940 to 3960..... Shale, various colored.
3960 to 3970..... Missing.

TOP OF MISSISSIPPI LIME 3970.

3970 to 3973..... Shale, various colored; chert, white, weathered.

~~3948 to 3958 CHERT-LIME MEMORANDUM~~

TOP OF MISSISSIPPI LIME 3948 (S. L. M. CORRELATED).

3955 to 3960..... Shale, various colored; chert, and limestone.
3960 to 3970..... Shale, various colored, chert and limestone.
3970 to 4050..... Chert, white.
4050 to 4070..... Limestone, white.
4070 to 4100..... Chert and limestone, white.
4100 to 4110..... Limestone, white.
4110 to 4120..... Limestone, white.
4120 to 4130..... Chert, gray and limestone.
4130 to 4140..... Limestone, gray, shaley and chert; limestone, white.
4140 to 4150..... Limestone, light brown and light gray.
4150 to 4160..... Limestone, light brown and light gray.
4160 to 4170..... Limestone, light brown and light gray; chert, 50%.
4170 to 4210..... Chert and limestone, brown.
4210 to 4220..... Limestone, grayish-brown.
4220 to 4230..... Shale, dark gray; limestone 15 to 20%.

TOP OF CHATTAHOOGA SHALE 4224.

4230 to 4240..... Shale, black.
4240 to 4260..... Shale, black.
4260 to 4270..... Shale, black and brown, dense, limestone.
4270 to 4280..... Shale, black to gray and dark gray calcareous shale.
4280 to 4290..... Shale, dark gray.
4290 to 4300..... Shale, dark gray and dark brownish shale (spores).
4300 to 4310..... Shale, dark, slightly brownish.
4310 to 4330..... Shale.
4330 to 4340..... Shale with trace of greenish-gray dolomitic shale; sand, medium,
rounded and dolomite, white, crystalline.

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- 4340 to 4350.... Shale and dolomite, white, crystalline;
TOP OF SIMPSON 4340.
TOP OF WILCOX SAND 4350.
- 4350 to 4360.... Sand, fine, angular.
- 4360 to 4370.... Sand, fine, sub-angular and rounded.
- 4370 to 4380.... Sand, medium, sub-angular.
- 4380 to 4390.... Sand, medium, sub-angular and rounded.
- 4390 to 4415.... Sand.
- 4415 to 4417.... Green shale and sand.
- 4417 to 4419.... Green shale.
- 4419 to 4420.... Green shale with trace of sand.

DRY AND ABANDONED.

DEEPENING RECORD:

- 4420 to 4423.... Shale, green with trace of sand.
- 4423 to 4425.... Shale, green with trace of sand.
- 4425 to 4432.... Shale, green with trace of sand. Going to Siliceous Lime.
- 4432 to 4437.... Shale, green; sand, fine, medium, 50%.
- 4437 to 4440.... Shale, green with trace of sand, fine.
- 4440 to 4442.... Shale, green; sand, medium, sub-angular, 20%.
- 4442 to 4445.... Shale, green; sand, 20%.
- 4445 to 4449.... Sand, fine, angular, slightly glauconitic, 60%; shale, green.
- 4449 to 4453.... Sand, fine, angular, slightly glauconitic, 65% and shale, green.
- 4453 to 4458.... Shale, green and sand, fine, medium, rounded, sub-angular and thin beds of fine, glauconitic sand.
- 4458 to 4465.... Shale, green; sand, fine, medium, rounded and sub-angular with thin beds of fine glauconitic sand.
- 4465 to 4475.... Shale, green; sand, fine, medium, rounded, 50%.
- 4475 to 4480.... Shale, green and sand.
TOP OF SILICEOUS LIME 4480.
- 4480 to 4485.... Shale, green, sand and dolomite, light brown, crystalline.
- 4485 to 4490.... Shale, green, sand and dolomite, light brown, crystalline.
- 4490 to 4493.... Missing.
- 4493 to 4495.... Sand and green shale cave and dolomite, light brown, finely crystalline.
- 4495 to 4500.... Sand and green shale cave and dolomite, light brown, finely crystalline.
- 4500 to 4505.... Shale, green and dolomite, light brown, finely crystalline.
- 4505 to 4510.... Shale, green and dolomite with trace of sand.
- 4510 to 4515.... Shale, green and dolomite.
- 4515 to 4520.... Shale and dolomite.
- 4520 to 4525.... Dolomite, light brown, medium, crystalline and green shale.