

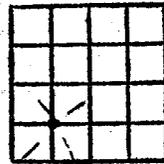
13. 34-42W

WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

Company- KIRBY PETROLEUM CO & CHAMPLIN OIL & REFG. SEC. 13 T. 34 R. 42W  
Farm- U. S. A. No. 1 C SW/4

Total Depth. 3263'  
Comm. 1-24-58 Comp. 2-2-58  
Shot or Treated.  
Contractor. Service Brlg. Co.  
Issued. 7-12-58

County Morton  
KANSAS



Elevation. 3477' DF

Production. 23,000,000 CFG

CASING:

8 5/8" 636' con w/340 sx.  
5 1/2" 3263' con w/160 sx.

Figures Indicate Bottom of Formations.

630-770	shale-red, slightly anhydritic & bentonitic	1765	anhy. tan to light green, dense, NS, w/shale - red to green, bentonitic.
780	shale - as above w/white anhydrite crystalline inclusions.	1834	shale - as above, w/anhy, as above
805	Anhydrite - white, w/stringers of red shale, as above.	1840	anhy - pink, dense.
835	Anhydrite - red to white, w/stringers of red shale, as above	1870	shale, red, some green, bentonitic w/scattered anhy, pink to light green.
910	Anhydrite - white, crystalline & shale - red, some green.	1950	shale, red, bentonitic.
950	Anhydrite, white, crystalline, good porosity, NS.	2035	shale - as above, some green, w/scattered anhy.
960	Anhydrite, white & shale, red & some green,	2050	shale - as above, w/stringers of lignite.
980	shale - red, anhydrite, with scattered sand grains.	2060	shale - as above, w/some granular anhy.
1010	shale - red, w/some anhydrite-white	2090	dolomite - reddish brown, granular anhydritic, dense, NS, & shale red.
1055	sandstone - medium grained, friable NS, w/shale, as above.	2105	dolomite, gray, granular, mottled, slightly fossiliferous, dense, NS.
1085	shale-red, anhydrite, slightly sandy, w/scattered sand grains.	2110	dolomite, as above, shaly, NS.
1135	Anhydrite - white to pink, some very porous, NS, w/stringers of red shale - as above.	2130	dolomite, as above, NS, w/red shale & some dolomitic sand - white, fair porosity, NS.
1185	sandstone - white, medium grained, very friable, NS, with stringers of red shale, as above.	2140	dolomite - tan to gray, mottled, granular, dense, NS, & shale - red, bentonitic.
1195	shale - red, bentonitic, sandy	2155	shale - red to green, w/stringers of tan, granular dolomite, NS.
1220	anhydrite - white, w/shale, as above.	2160	shale, red, bentonitic, some green
1230	shale & anhy., as above, w/limestone pink to white, dense, NS.	2184	dolomite - gray, granular, dense, NS, w/stringers of sandstone, very fine, grained, dolomitic, dense, NS, & w/shale - red. <u>Slight show of gas for 3 feet from 2174-77</u>
1255	sandstone - white, medium grained, friable, NS.	2205	shale, red, & siltstone, red, shaly, tight, NS, w/ scattered fragments of sandstone - tan, very fine grained to silty, tite, NS.
1275	shale - red, some sandy, w/scattered stringers of pink to white limestone.	2210	sandstone - green, dense, calcareous glauconitic, very fine grained, NS.
1371	shale - red, bentonitic, w/scattered sand grains.	2220	shale, red & brown, siltstone - brown, shaly, tite, NS.
1391	anhydrite - white to gray, dense.	2225	shale & siltstone, as above, w/ green sandstone, as above.
1455	shale - red & green, bentonitic, w/some white anhydrite.	2250	shale, as above & sandstone - white, green, tan - very fine grained to silty, fair porosity to tite, NS.
1505	anhydrite - white, granular, & shale red, bentonitic.	2275	sandstone - white to dark green, calcareous, fine grained, poor porosity to tite, NS., some glauconitic, grading into limestone, white to green, dolomitic, and w/inclusions of chalky dolomite, sandy to oolitic, dense NS.
1550	as above, w/some green shale.		
1570	anhydrite- and shale as above w/sandstone - very fine grained, tite, anhydritic, NS.		
1605	anhydrite - white, granular, NS, & shale - red, bentonitic.		
1630	anhydrite - light green, granular, NS, & shale - red & green, bentonitic.		
1670	shale-red, bentonitic & some anhy. light green to pink, dense to granular NS.		
1685	shale & anhy., as above, w/scattered individual sand grains.		
1705	anhy. - tan, silty, granular, tite, NS, & shale - red to green, bentonitic.		
1755	shale - red to green, bentonitic, w/scattered individual medium sized grains, & some anhytan,		

2285	sandstone, green, very fine grained to silty, argillaceous, very calcareous, tite, NS.	2688 2695	shale, gray, green, red. limestone, tan to gray, dolomitic, very fine crystalline, sandy to very shaly, dense, NS.
2305	shale - brown, red, some very silty w/stringers of sandstone, as above.	2725	shale, gray, green, red, w/stringers of limestone, as above, NS.
2315	shale, as above, w/stringers of sandstone, white, very fine grained fair porosity, NS.	2730	limestone, gray, sandy to shaly, dense, dolomitic, NS.
2320	shale, as above, w/stringers of white sandstone - very fine grained, slightly silty, poor porosity, NS, & siltstone - red, shaly, tite, NS.	2735 2745	dolomite - white to gray, oolitic, chalky to granular, dense, NS. limestone - white, to gray, dolomitic, very fine crystalline to granular, sandy, dense, NS.
2325	sandstone - tan, very fine grained, silty, tite, NS, w/stringers of shale, as above.	2750	dolomite - white, oolitic, chalky, dense, NS, <u>except slight show of gas on recorder - w/stringers of gray &amp; green shale.</u>
2347	shale, red & brown, silty to very silty.		
2355	sandstone - white to green, very calcareous, green shale inclusions very fine grained, tite, NS, with stringers of green, sandy shale.	2755 2765	dolomite, white to tan, sandy to suboolitic, dense, NS. dolomite, as above, & dolomite - white, chalky, sandy to oolitic, dense, NS, <u>except good show gas on detector.</u>
2360	shale - green, sandy, calcareous, bentonitic.		
2365	sandstone - red, very fine grained shaly, poor porosity, NS.	2775	dolomite, white, to tan, sandy, calcareous, dense, NS.
2375	shale, red, green, silty, bentonitic.	2785	dolomite - white, sandy, oolitic, calcareous, dense, w/scattered individual oolites indicating porosity, good show gas on detector.
2380	limestone - white, dolomitic, sandy, fine crystalline, dense, w/stringers of white, chalky dolomite.		
2400	shale, red & green, w/stringers of sandstone - gray to green, very calcareous, very fine grained to silty, tite, NS, some grades to a sandy lime.	2795 2800	sandstone - green to gray, fine grained, calcareous to shaly, poor porosity to tite, NS, & shale - green red, gray, limestone, gray, green, white, very sandy, dense, NS.
2412	dolomite - white to tan, sandy to oolitic, very fine crystalline, some chalky, some silty, NS, w/stringers of sandstone, as above, NS & limestone - green, very sandy to silty, dense, NS.	2815 2825	dolomite, white, oolitic, calcareous, dense but w/scattered pinpoint porosity, NS. limestone, gray to green, very fine crystalline, sandy, dense, NS.
2435	shale, red, brown, green - calcareous w/stringers of sandstone - green to white, calcareous, very fine grained tite, NS.	2840	dolomite, white, chalky to granular, oolitic, dense, but w/individual oolites indicating possible porosity, <u>good show gas.</u>
2440	limestone, white to tan, clean to sandy, scattered solution porosity, NS.	2850 2855	dolomite, gray, very fine crystalline dense, calcareous, NS. dolomite, gray, sandy to shaly, dense, calcareous, NS.
2445	siltstone, red, very calcareous, tite, NS, & shale, red, brown, green.	2870	dolomite, white to gray, chalky, dense, NS, w/stringers of dolomite, white, granular, oolitic, dense, NS, & w/stringers of gray dolomitic shale.
2450	Lignite - black.		
2488	multicolored shale, some silty, w/stringers of dolomite - white, oolitic to sandy, very fine crystalline, dense, NS, & siltstone - red, calcareous, tite, NS.	2880 2885	dolomite, white, tan, green, sucrose, calcareous, some slightly shaly, dense, shale, red, green, gray.
2504	limestone - white to greenish tan, sucrosic, oolitic to sandy, dense, NS.	2890 2895	dolomite, white, very fine crystalline, dense, sandy to suboolitic, NS. dolomite - white, chalky, dense, NS.
2540	shale - red, green, gray, brown.	2900	dolomite, white to gray, granular, slightly sandy to oolitic, dense but scattered individual oolites indicate possible porosity, <u>fair show of gas on detector.</u>
2550	limestone - white, very fine crystalline, dolomitic, slightly oolitic, fair solution porosity, NS, w/strks of chalky dolomite, NS.		
2570	limestone, tan to white, dolomitic, very fine crystalline, oolitic to sandy, dense, w/widely scattered solution porosity, NS.	2910	dolomite, white, chalky to granular, oolitic, dense, but w/scattered individual oolites indicating possible porosity, NS, <u>good show gas on gas detector.</u>
2595	shale, red, green, bentonitic to calcareous, w/stringers of limestone, as above.	2915	dolomite - tan, sandy, calcareous, very fine crystalline, dense, NS.
2615	dolomite, chalky, dense, NS, & shale, green, red.	2920	dolomite, white, chalky to granular, oolitic, dense, but w/scattered oolites, NS, <u>slight show gas on detector.</u>
2625	dolomite, white, sucrosic, calcareous, dense, NS.		
2640	dolomite, tan, to gray, shaly, dense, NS, & shale - green, red.	2930	dolomite, white to gray, slightly oolitic, dense, NS.
2650	dolomite - white, calcareous, very fine crystalline, sandy to oolitic, dense, NS.	2935 2940	dolomite, white, chalky to granular, dense, NS, & oolites, NS. dolomite, white, very fine crystalline to granular, dense, NS.

- 2948 dolomite, white, very fine crystalline, sandy to suboolitic, dense, NS, w/stringers, of chalky dolomite, gas detector blocked out by D.S.T.
- 2953 shale - green, red.
- 2958 dolomite, white, chalky, slightly oolitic, dense, but possible porosity, NS, gas detector blocked out by drill stem test.
- 2965 limestone, gray to tan, lithographic to very fine crystalline, dense, NS.
- 2970 dolomite, white, chalky to granular, dense, NS, with oolites
- 2980 limestone, white, to light gray, dolomitic, sucrosic, dense, NS, w/stringers of chalky dolomite & oolites, as above.
- 2995 limestone, tan, gray, white, dolomitic, sandy to very sandy to oolitic, dense, w/scattered pin point porosity, NS, & dolomite, white, chalky to sucrosic, dense, NS, w/scattered oolites indicating porosity.
- 3005 dolomite, white, granular, dense, some suboolitic, dense, NS, w/stringers of dolomite, white, chalky, dense, NS. & scattered oolites. Slight show gas on detector.
- 3008 limestone, gray, fine crystalline, dense, some slightly glauconitic, NS.
- 3014 dolomite, white, chalky to granular, dense, NS, good show gas on gas detector.
- 3020 limestone, gray to tan, very fine crystalline to lithographic, some oolitic, some very sandy, dense, NS.
- 3026 shale, gray, green, red, & limestone as above, some dolomitic, and white dense, NS.
- 3035 dolomite, white, granular, to slightly chalky, w/chalky strks, sandy to suboolitic, dense, NS. Fair show of gas on detector.
- 3038 sandstone, green, completely cemented w/chalky dolomite, tite, NS.
- 3045 limestone, gray, fine crystalline, dolomitic, sandy to very sandy, dense, NS.
- 3050 dolomite, white, sucrosic to granular, dense, sandy to very sandy, NS.
- 3055 dolomite, white, chalky to granular, suboolitic, dense, NS. Fair show of gas on detector.
- 3060 shale, gray, green, red.
- 3067 dolomite, white, sandy to oolitic, chalky to granular w/oolite strks, dense, but w/visible porosity in oolite, NS. Good show gas on detector.
- 3070 shale, gray, green, red & sandstone-green, very fine grained, very dolomitic w/interstices filled with chalky dolomite, tite, NS.
- 3078 dolomite, white to tan, lithographic to very fine crystalline, dense, mostly sandy to oolitic, NS.
- 3085 dolomite, white, chalky to granular, oolitic w/individual oolites; Good show gas on detector.
- 3115 dolomite, tan, dense, sucrosic to fine crystalline, slightly oolitic, dense, NS, w/stringers of chalky dolomite, dense, NS, & stringers of oolites, very good porosity, NS. Good show gas on gas detector. Stringers of red & green shale at the base.
- 3135 dolomite, tan to light gray, dense, fine crystalline, NS, w/strks of granular dolomite, gray, sandy, dense, NS.
- 3145 dolomite, white, chalky to granular, oolitic, & w/porous oolite strks, NS. Slight show gas on detector.
- 3150 shale, red, green, gray.
- 3155 limestone, tan, sucrosic, dense, dolomitic, NS.
- 3175 interbedded dolomite, white, chalky, dense, NS, & dolomite - white to tan, very fine crystalline dense, NS & multicolored shale & sandstone, greenish white - very dolomitic, very fine grained, tite, NS. Slight show gas on detector.
- 3180 dolomite, white, chalky, slightly oolitic, dense, NS.
- 3213 dolomite, white to green, very sandy, dense, NS, w/thin stringers of chalky to granular dolomite - dense, NS.
- 3222 limestone, gray, dense, some slightly sandy, NS.
- 3234 dolomite, white, chalky, dense, slightly oolitic, NS.
- 3244 limestone, brown to tan, very fine crystalline, dense, dolomitic, NS, w/stringers of white chalky dolomite, NS. Gas detector blocked out by DST from 3200-38.
- 3263 dolomite, white, chalky, NS, w/stringers of dolomite, tan, oolitic, dense, very fine crystalline, NS. Gas detector blocked out by drill stem test.

## Total Depth

## Ran Schlumberger Survey

## TOPS: SCHLUMBERGER

Krider Lime	2093
Winfield Lime	2150
Wabaunsee Lime	2734
Topeka Lime	2954
Lansing Lime	3220

DST #1 2741-2940, op 1 hr, immediate fair blow increasing to good blow in 3 mins. gas to surface in 6 mins, rec. 240' gas cut mud. 20 min gauge 0.122 Mil./24 hrs, 40 min gauge 0.200 Mil/24 hrs, 60 min gauge 0.242 Mil/24 hrs. BHP 410#/20 min, IFP 20#, FFP 60#.

DST #2 2938-3200, op 1 hr, good blow initially, increasing to strong blow. Gas to surface in 3 mins, rec. 440' heavily gas cut mud. 7 min gauge 0.439 Mil/24 hrs, 20 min gauge 0.683 Mil/24 hrs, 40 min gauge, 0.878 Mil/24 hrs, 60 min gauge 1.250 Mil/24 hrs, BHP 410# in 20 mins, IFP 170#, FFP 250#, IHMP 1530#, FHMP 1520#.

DST #3 3218-38, op 1 hr, strong blow thruout, gas to surface in 3 mins. Rec. 5' heavily gas cut mud. 5 min gauge 0.734 Mil/24 hrs, 20 min gauge 0.850 Mil/24 hrs, 40 min gauge 0.925 Mil/24 hrs, 60 min gauge 0.925 Mil/24 hrs. BHP 410#/20 mins, IFP 180#, FFP 180#, IHMP 1750#, FHMP 1710#.

TOPS:	
Permian-Base Blaine Gyp	950
Stone Corral Anhydrite	1371-1391
Wellington Anhydrite	1834-40
Krider	2090
Winfield Lime	2160-84
Fort Riley Lime	2250
Wabaunsee Lime	2725
Topeka Lime	2953