21-11-23E Plotted

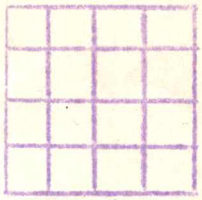
Sec. 21 T. 11 R. 23E
Loc. SE NW

Farm Kinahan No. 1

Total Depth 853
Comm.
Shot or Treated
Contractor
Issued

Comp. 4/19/04

County Wyandotte



Elevation 821.6 above sea level
69.8 above Kaw River
Production 144.3' below #1
200,000 cu. ft. G. /24 hrs.

Casing

20 in.	10 in.	
15 1/2	8 1/4	436
12 1/2	6 5/8	
13 3/8	5 3/16	

Figures Indicate Bottom of Formation

soil	3	slate	395	
lime wtr 10'	24	shale	403	
slate	33	red rock wtr	408	
lime	41	slate	443	
sand	51	sand	490	200,000 ft. gas
lime	68	slate sh oil @ 505	500	
shale	74	sand	530	
lime	90	lime	535	
shale	100	shale	540	
lime	102	red rock	550	
shale	108	shale	560	
lime	135	slate	565	
shale wtr	139	shale	611	
slate	144	red slate	619	
lime	162	slate	635	
slate	164	slate	645	
lime	166	sand	665	
slate	168	sdy slate	680	
lime	178	shale	709	
slate	190	slate salt wtr @ 770	746	
lime	193	sand	810	
sand	205	lime sdy	820	
slate	217	sand	845	
sand	227	Miss. lime	853	
slate	282			
sand	292	Note:		
red rock	294	Hole was plugged up to 460 in order to save		
shale	334	the gas at 440-50. The 10" & 8¼" csg. was		
sand	344	left in hole. RP 120 lbs.		
lime	356			
shale	370			
lime	378			
shale	385			
sand gas	391			
coal & slate	392			

21-11S-25E
NE SW
Wyandotte Co

USGS Bull 298

605. Well near Bonner Springs, Wyandotte County.

[Well begun March 8, 1905; completed April 19, 1905. Authority. T. B. Wood, owner. Samples preserved. Geologic correlations checked by E. O. Ulrich.] Cont.: C. L. Bloom Cont.: T. B. Wood

The log of this well seems to have been kept with unusual care, the driller's notes and the record shown by the samples, most of which were taken at 5-foot intervals, agreeing almost exactly. All the formations belong to the Carboniferous system, the drill passing through the lower portion of the Pennsylvanian series and reaching the underlying limestone of the Mississippian. The well starts at about the horizon of the Iola limestone. The Cherokee shale is shown to be over 465 feet thick. The limestone first penetrated is believed to be the Iola. ~~1/2 mile no. of Bonner Springs~~ 2 mi NE of Bonner Springs

USGS

Record of well No. 1 on Thomas Kinahan farm, in the NE. ¼ SW. ¼ sec. 21, T. 11, R. 23.

	Feet.
Soft black soil	0– 3
Iola:	
Hard yellowish limestone; water at 10 feet	3– 24
Soft gray limestone and shale	24– 33
Hard yellowish limestone	33– 41
Hard gray sandy limestone	41– 59
Hard gray limestone	59– 68
Soft black limy shale	68– 74
Hard gray limestone	74– 90
Soft blue limy shale	90–100
Hard gray limestone	100–102
Soft blue shale	102–108
Hard white, gray, and brown limestone	108–135
Soft blue limy shale; enough water to drill	135–139
Soft black shale	139–144
Hard gray limestone	144–162
Soft gray shale	162–164
Hard white limestone	164–166
Soft black shale	166–168
Hard dark limestone	168–178
Soft brown and blue limy shale	178–190
Hard dark limestone	190–193
Hard gray sandstone and shale	193–205
Soft dark shale, sandy and limy	205–217
Soft dark limy sandstone	217–227
Soft gray shale, with brownish limestone at 232–242 feet	227–282
Soft gray, yellow, and brown limestone	282–292
Soft purple shale	292–294
Soft gray and brown sandy and limy shale	294–334
Soft gray sandy shale	334–344
Hard gray and brown limestone	344–356
Soft gray shale	356–370
Fort Scott: Hard brownish-gray limestone	370–378

21-11S-23E
NE-SW
Wyandotte Co.

Cherokee:	Feet.
Soft dark grayish and purplish shale	378–385
Soft dark limestone; gas at 391 feet	385–391
Soft black shale and coal	391–395
Soft gray sandy shale and shaly limestone	395–403
Soft dark-reddish shale	403–408
Soft dark shale with gray shaly limestone at 418–433 feet	408–443
Soft gray limestone and brown and dark-gray sandstone	443–490
Soft dark gritty shale and sandstone	490–505
Soft dark-brown sandstone and dark shale	505–530
Hard dark-gray sandy limestone	530–535
Soft gray limy and sandy shale	535–540
Soft red and gray shale	540–550
Soft dark-gray shale	550–560
Soft gray limy shale	560–565
Soft dark-gray shale with limy layers	565–611
Soft red shale	611–619
Soft light and dark gray shale	619–635
Soft black shale	635–645
Soft gray limestone and gray sandstone	645–655
Soft dark bluish-gray shale and gray sandstne	655–680
Soft gray shale	680–709
Soft dark-gray, black, and brownish shale and gray limestone	709–746
Soft brown and gray limy sandstone with black shale at 770–775 feet	746–810
Soft brown sandy limestone	810–820
Soft brown limy sandstone	820–845
Hard brown limestone, Mississippian (?)	845–853

Gas @ 440 200,000 Cu. Ft. Press. 120 lbs
Trace of oil @ 505
Salt water at 720'

Rig used, cable. Casing used, 10-inch, 31 feet; 8¼-inch, 369 feet; 6¼-inch, 510 feet; 5-inch, 709 feet. Enough water to drill with was found at 139 and 400 feet. A small flow of gas was struck at 391 feet, and at 440 feet the flow increased to 200,000 feet in twenty-four hours. A trace of oil was found at 505 to 510 feet, and a strong vein of salt; sulphur water at 770 feet, with a trace of oil. The well was plugged at 743 to 720, 550 to 518, and 510 to 460 feet; an 8¼-inch packer was set at 436 feet and the gas from 440 feet saved. The rock pressure of this was 120 pounds.

"The 99 feet of limy sandstone, from 746 to 845 feet, probably corresponds to the bed at 767 to 865 feet in well No. 606. Perhaps the sandstone is Winslow formation and the limestone Morrow formation."—E. O. Ulrich.