

WENDELL S. JOHNS

FORMATION LOG

Bedell-Catt #2 Edson
NW SW SE; 1-26S-2E
Sedgwick County, Kansas
Elevation: 1331 Kelly Bushing

8 5/8" Surface Casing: 106'
5 1/2" Casing: 2860'
Comm.: 2-26-57
Comp.:

NOTE: All measurements are taken from the top of the kelly bushing.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0 - 106	Surface	Drillers log 0-2300'
106 - 160	Limestone	
160 - 400	Limestone and shale	
400 - 545	Shale and limestone	
545 - 780	Limestone and shale	
780 - 1070	Shale and shells	
1070 - 1380	Shale	
1380 - 1580	Limestone and shale	
1580 - 1680	Limestone	
1680 - 1810	Limestone and shale	
1810 - 1990	Shale and limestone	Sample log 2300 to T.D.
1990 - 2300	Limestone and shale	
2300 - 34	Shale, light gray to gray-green to brown, some fairly silty	
2334 - 66	Limestone, tan to brown, sub-crystalline, fossiliferous; streaks gray shale 2340-45 and 2356-63	
2366 - 70	Limestone, tan to buff, very finely sucrose; spotted vugular porosity	
2370 - 77	Limestone, as above, non-porous	
2377 - 83	Limestone, porous, as above	
2383 - 92	Limestone, tan to gray, finely crystalline, shaly; shale, light to medium gray	
2392 - 2416	Limestone, cream to tan, chalky to medium crystalline, fossiliferous, slightly dolomitic; fair spotted vugular and inter-fossil porosity	
		Top Kansas City "Lime" 2334
		Very slight trace free oil, slight odor; D.S.T. #1
		Fair spotted show free oil, good odor; D.S.T. #1
		Spotted fair stain

-2- Formation Log: Bedell-Catt #2 Edson.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
2416 - 2429	Limestone, tan to buff, subcrystal- line	
2429 - 35	Limestone, cream, chalky to sub- crystalline; spotted pinpoint porosity; chert, gray, opaque, vitreous	No show
2435 - 42	Limestone, brown to gray, subcrystal- line to finely crystalline, shaly	
2442 - 48	Shale, brown-black, soft, fissile	
2448 - 53	Limestone, tan to gray, subcrystal- line	
2453 - 65	Limestone, cream, subcrystalline; spotted poor vugular porosity; much chert, light gray to white, opaque, subvitreous	Trace stain
2465 - 82	Limestone, light gray, sub- crystalline to dense; streaks brown- black soft shale	
2482 - 88	Limestone, tan to gray, subcrystal- line; fair vugular porosity; chert, gray, opaque	Spotted fair stain
2488 - 2500	Limestone, cream to tan, sub- crystalline, fossiliferous	Base Kansas City 2500
2500 - 63	Shale, gray to gray-green; few thin plates gray, subcrystalline fossiliferous limestone toward bottom	Pleasanton
2563 - 72	Limestone, cream to tan, finely crystalline to subcrystalline, resinous, fossiliferous, glauconitic	Top Marmaton 2563
2572 - 78	Shale, gray-green to gray	
2578 - 85	Sand, fine, gray-green, very calcareous, shaly	
2585 - 2601	Shale, as above, some sandy shale	
2601 - 11	Limestone, tan to gray, subcrystal- line, fossiliferous	
2611 - 37	Shale, gray to green, some slightly silty	
2637 - 45	Limestone, gray, subcrystalline, shaly	
2645 - 51	Shale, as above	
2651 - 57	Limestone, as above	
2657 - 63	Shale, as above	
2663 - 67	Limestone, tan, dense	
2667 - 78	Shale, green	
2678 - 82	Limestone, tan to gray-green, finely crystalline to subcrystalline, some resinous, some argillaceous	

-3- Formation Log: Bedell-Catt #2 Edson.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
2682 - 2687	Shale, gray to green	
2687 - 97	Limestone, as above	
2697 - 2733	Mostly shale, gray to green-gray; some tan dense shaly limestone streaks	
2733 - 36	Limestone, tan, subcrystalline to dense	
2736 - 39	Shale, light to dark gray	
2739 - 47	Limestone, tan to brown, dense, resinous, argillaceous	
2747 - 63	Shale, gray to gray-black	
2763 - 66	Limestone, tan to brown, dense, resinous, earthy	
2766 - 75	Shale, gray-green, leached to gray-black	
2775 - 79	Limestone, green, subcrystalline, silicified; much maroon to purple shale	
2779 - 2805	Chert, cream, flesh, citrine, cream and salmon mottled, subvitreous, opaque; chert, white, devitrified to semi-devitrified; much pale gray and lavender leached shale	Top Mississippi 2779; slight show free oil; D.S.T. #2
2805 - 19	Chert, as above; much light gray to white silicified limestone; dolomite, light gray, very finely sucrose	
2819 - 31	Chert, tan to white, subvitreous to devitrified; some finely sucrose, vuggy, silicified dolomite; much gray to white vitreous chert	Fair show free oil; D.S.T. #3, covered top 4' this zone
2831 - 43	Chert, as above	Lighter stain
2843 - 47	Dolomite, vuggy, as above	Fair show free oil
2847 - 59	Chert, as above; increase in tripolitic chert; much less stain and increase in vitreous chert toward base	Spotted light stain
2859 - 61	Limestone, cream, coarsely crystal- line; dolomitic; much cream to buff, very finely sucrose dolomite	
2861	Total depth	

Drill Stem Test Data: The following drill stem tests were taken on the #2 Edson.
All tests were taken by Johnston Testers.

-4- Formation Log: Bedell-Catt #2 Edson.

Drill Stem Test Data Contd.:

Kansas City:

- (1) D.S. T. 2341-87; open 1 1/2 hours - weak blow throughout test, intermittent toward last. Flushed tool once.
Recovered 55' mud, no oil, gas or water.
Initial Flow Pressure: 40 p.s.i.
Final Flow Pressure: 50 p.s.i.
Closed In Pressure: 800 p.s.i. (30 min.).

Mississippi:

- (2) D.S.T. 2775-2810; open 1 hour - weak blow which died in 10 minutes. Bypassed tool - had no further blow.
Recovered 5' slightly oil cut mud.
Initial Flow Pressure: 0
Final Flow Pressure: 12 p.s.i.
Closed In Pressure: 550 p.s.i. (20 min. - still building up rapidly).
- (3) D.S.T. 2810-24; open 1 1/4 hours - fair blow which gradually increased to good blow and remained good to end test.
Recovered 50' clean oil.
15' muddy oil.
45' heavily oil cut mud.
60' slightly oil cut mud.
120' salt water.
Initial Flow Pressure: 40 p.s.i.
Final Flow Pressure: 175 p.s.i.
Closed In Pressure: 750 p.s.i. (30 min.).

Samples examined and log compiled by

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