

Based on the data in Table 2.2, what is the isocore thickness of the Smackover? What is the true thickness of the Smackover given its attitude of 12, 056 from the dipmeter log and the orientation of the well from Exercise 2.9.1? Discuss the significance of the difference between the isopach and isocore thickness.

Table 2.2. Data from well 4835-B, Appleton field, Alabama. Kelly Bushing: 244 ft

Measured depth = log depth (ft)		True vertical depth (ft)	Depth subsea (ft)	Total rectangular coordinates (ft)	
0		0		0.00 N	0.00 E
928		928		1.72 N	1.93 E
2 308		2 308		4.53 N	9.51 W
3 282		3 282		6.37 N	6.29 W
4 150	Eutaw				
4 400	U. Tuscaloosa				
4 811		4 811		13.38 N	5.99 W
4 890	M. Tuscaloosa				
5 150	L. Tuscaloosa				
5 525	L. Cretaceous				
6 198		6 198		30.82 N	17.30 W
7 696		7 695		61.48 N	7.50 W
8 328		8 327		74.90 N	1.25 E
8 482		8 480		74.59 N	18.82 E
8 661		8 655		71.22 N	53.19 E
8 935		8 922		66.16 N	117.74 E
9 186		9 161		62.25 N	194.12 E
9 556		9 512		54.50 N	310.78 E
10 006		9 940		34.61 N	447.09 E
10 266	Cotton Valley				
10 431		10 346		7.63 N	568.29 E
11 103		10 982		55.68 S	777.65 E
11 621		11 470		116.46 S	938.37 E
11 960		11 791		142.28 S	1 045.58 E
12 370	Haynesville				
12 450		12 253		173.48 S	1 206.13 E
12 641		12 432		185.03 S	1 271.62 E
13 020	Buckner				
13 072	Smackover ^a				
13 086		12 851		210.98 S	1 418.79 E
13 190	OWC ^b				
13 286	Base Smack				

^a Attitude from dipmeter 12, 056. ^b Oil-water contact.