

# Elk County, Kansas Geological Survey Vol. 14

Sample No.	Specific Gravity	Los Angeles	Soundness	Sample No.	Specific Gravity	Los Angeles	Soundness	Sample No.	Specific Gravity	Los Angeles	Soundness	Sample No.	Specific Gravity	Los Angeles	Soundness	
20'	14-1	2.62	30.5	0.96 0.91	13-1	2.52	34.8	0.95 0.9	12-1	2.54	31.5	0.96 0.96	<i>Position of Shale Bed</i>			
	14-2	2.56	37.7	0.97 0.94	13-2	2.62	27.9	0.96 0.91	12-2	2.60	27.6	0.95 0.96				11-1
	14-3	2.51	45.4	0.97 0.95	13-3	2.47	43.4	0.96 0.94	12-3	2.57	39.6	0.92 0.92	11-2	2.58	33.8	0.98 0.95
10'									12-4	2.50	46.6	0.92 0.89	11-3	2.49	40.7	0.99 0.98
	14-4	2.54	41.8	0.96 0.95	13-4	2.54	62.2	0.96 0.95	12-5	2.60	36.0	0.91 0.96	11-4	2.58		0.94 0.92
	14-5	2.55	35.9	0.94 0.92	13-5	2.54	37.1	0.95 0.92	12-6	2.55	32.4	0.96 0.93	11-5	2.57	42.9	0.98 0.96
0'									12-7	2.61	33.8	0.9 0.93	11-6	2.57	36.4	0.86 0.83
													11-7	2.50	38.5	0.88 0.82
													<i>Continued on left below</i>			
30'									8-1	2.67	27.3	0.91 0.86	7-1	2.65	29.9	0.85 0.81
									8-1B	2.70	27.7	0.93 0.90	7-1B	2.57	35.3	0.86 0.77
									8-2	2.63	27.7	0.92 0.89	7-2	2.63	28.6	0.90 0.88
20'									8-3	2.60	32.7	0.80 0.79	7-3	2.61	31.0	0.85 0.80
									8-4	2.59	29.9	0.95 0.96	7-4	2.57	37.0	0.97 0.95
	10-1	2.55	35.4	0.96 0.93	9-1	2.58	35.6	0.88 0.81	8-5	2.52	38.3	0.96 0.97	7-5	2.48	43.1	0.93 0.92
	10-2	2.53	40.0	0.95 0.96	9-2	2.61	32.8	0.91 0.88	8-6	2.53	49.6	0.96 0.93	7-6	2.56	39.4	0.97 0.94
10'									8-6B	2.37	43.7	0.96 0.95	7-7	2.50	56.6	0.93 0.88
	10-3	2.54	40.1	0.97 0.95	9-3	2.54		0.98 0.96	8-7	2.55	34.3	0.97 0.96				
	10-4	2.60		0.97 0.98	9-4	2.57	37.7	0.96 0.93								
	10-5	2.50	40.4	0.96 0.91	9-5	2.56	34.9	0.97 0.97								
0'																
													<i>Continued on left below</i>			
30'																
	6-1	2.68	28.3	0.93 0.86	5-1	2.66	30.4	0.89 0.87					3-1	2.64	26.7	0.87 0.81
	6-2	2.66	28.2	0.95 0.93	5-2	2.66		0.93 0.86					3-2	2.64	29.0	0.89 0.83
	6-3	2.62	31.2	0.80 0.77	5-3	2.59	31.3	0.81 0.73					3-3	2.57	35.2	0.84 0.70
20'													3-4	2.61	30.0	0.98 0.95
	6-4	2.60	32.2	0.95 0.96	5-4	2.57		0.95 0.95	4-4	2.57	33.0	0.98 0.90	3-5	2.52	49.5	0.97 0.94
	6-5	2.54	48.7	0.95 0.94	5-5	2.61	32.4	0.93 0.89	4-5	2.58	39.4	0.97 0.93				
10'													3-6	2.47	52.1	0.94 0.93
	6-6	2.54	43.6	0.96 0.90	5-6	2.59	39.9	0.97 0.92	4-6	2.62	39.1	0.98 0.97	3-7	2.54	35.0	0.96 0.92
	6-7	2.55	37.1	0.96 0.92	5-7	2.59	34.4	0.96 0.92	4-7	2.54	39.0	0.96 0.91				
0'																

**Figure 7—Physical properties of rock at Moline Quarry  
(Courtesy of State Highway Commission).**