

J. B. Padgham

30-21-25E

(12) Classification of driller's log on no. 1 Humphrey well on Humphrey, approximately 1900 feet south and 220 feet west of the NE cor. NW $\frac{1}{4}$  sec. 30, T. 21 S., R. 25 E. Total depth, 573 feet. Surface elevation, 844 feet.

Comp in Aug. 1923

	Thickness, feet.	Depth, feet.	Elevation, feet.
QUATERNARY--Pleistocene			
Soil . . . . .	2 . . .	2	
PENNSYLVANIAN--Missourian			
Pleasanton group			
Clay . . . . .	15 . . .	17	
Hepler sandstone			
Sand . . . . .	8 . . .	25	
Flagstone . . . . .	15 . . .	40	

Unconformity

	Thickness, feet.	Depth, feet.	Elevation, feet.
PENNSYLVANIAN--Desmoinesian			
Nowata shale			
Shale . . . . .	10 . . .	50	
Altamont limestone--Worland limestone member			
Lime . . . . .	8 . . .	58 . . .	786
Bandera shale			
Shale and sand (may include middle and lower member of Altamont limestone) . . . . .	12 . . .	70	
Shale . . . . .	39 . . .	109	
Coal . . . . .	2 . . .	111	
Fireclay . . . . .	3 . . .	114	
Pawnee limestone			
Coal City limestone member			
Lime, brown . . . . .	18 . . .	132	
Mine Creek shale member			
Shale . . . . .	10 . . .	142	
Myrick Station limestone member			
Lime . . . . .	5 . . .	147	
Anna Shale member			
Slate, black . . . . .	3 . . .	150	
Labette shale			
Shale . . . . .	30 . . .	180	
Fort Scott limestone			
Higginsville limestone member			
Lime, "Oswego" . . . . .	20 . . .	200	
Little Osage shale member			
Slate, black . . . . .	5 . . .	205	
Blackjack Creek limestone member			
Lime . . . . .	5 . . .	210	
Lime . . . . .	2 . . .	212	
"Cherokee" group (undifferentiated)			
Slate, black . . . . .	3 . . .	215	
Shale . . . . .	70 . . .	285	
Fort Scott limestone			
M. ss. 570			
Lime, "Oswego" . . . . .	27 . . .	210	
Little Osage shale member			
Slate, black . . . . .	3 . . .	213	

T. D. 573

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WY

W.D. (91)