

Gilstrap No. 1.

Plotted

NW. - C. - SW 13, T. 21 S., R. 24 E.

Jno.

Linn County, Kansas.

Submitted by F. N. Lewis, Ozark Engineering Company, Joplin, Mo.

Examined by H. S. McQueen, Sept. 18, 1929.

	<u>From</u>	<u>To</u>	<u>Thick</u>
Surface, no samples	0	30	30
Shale, brown, very sandy, and calcareous	30	35	5
Shale, dark gray, slightly sandy, with included fragments of coal	35	55	20
Shale, greenish gray with small particles of limestone	55	70	15
Limestone, gray, fine grained, with gray shale	70	75	5
Limestone, gray, slightly sandy, and micaceous, with gray shale	75	90	15
Sand, fine, micaceous, firmly cemented with 50% calcareous cement and fragments of limestone, some shale	90	100	10
Shale, very sandy, slightly micaceous	100	105	5
Shale, greenish-gray, slightly sandy	105	110	5
Shale, gray, slightly sandy	110	115	5
Shale, dark brown, sandy, with included fragments of coal	115	120	5
Limestone, brownish gray, fine grained, fossiliferous, with fragments of dark shale	120	125	5
Limestone, gray, dense, hard	125	130	5
Shale, dark gray slightly sandy, micaceous, very calcareous	130	135	5

Bandera

Mulberry

Pawnee

Similar to 130 - 135	135	140	5
Limestone, brown, finely crystalline, small amount of shale	140	147.5	7.5
Shale, very black, pyritiferous, few fragments very much line low grade coal ← Lexington Coal horizon	147.5	150	2.5
Sandstone, ^{Perry} finely grained, firmly cemented, with dark bituminous spots, samples contain 45, 15, 50 and 50% limestone at 155. 160, 165 and 170 feet respectively also contain dark bituminous shale, 4 samples	150	170	20
Shale, gray, very calcareous, sandy	170	190	20
Limestone, gray, fine grained with fragments of green waxy shale and coal at 200 2 samples	190	200	10
Shale, hard, black, micaceous contains much organic matter, burning slowly when ignited	200	205	5
Shale, gray, very calcareous, sandy	205	210	5
Limestone, gray, finely crystalline	210	215	5
Limestone, gray, but darker than above, considerable dark shale	215	220	5
Shale, gray, slightly calcareous	220	225	5
Shale, dark gray, calcareous, with fragments of coal ← Mulky	225	230	5
Shale, gray, plastic, slightly calcareous. 2 samples	230	245	15
Limestone, gray, with 42% micaceous sandstone, considerable dark shale	245	250	5
Shale, dark gray, sandy, 3 samples	250	312	62
Shale, hard, very black, when ignited yields bituminous odor ←	312	340	28

Pawnee

Labe 7/16

FT Scott

12-21-24E

Shale, gray, very sandy, slightly <i>calcareous</i>	340	370	30
Shale, black, slightly calcareous with fragments of coal 2 samples	370	380	10
Shale, gray, pyritiferous	380	415	35
Shale, dark gray, sandy	415	425	10
Shale, dark gray, hard, waxy	425	445	20
Shale, gray, sandy	445	510	65
Shale, black, hard similar to 512-540	510	512	2
Sandstone, micaceous, with shale, micaceous, with 25% gray limestone, considerable pyrite, few fragments of sphalerite, Qualitative sheet shows trace	512	565	13

Correlation

Surface	9	30	30
Pennsylvanian Series:			
Pleasanton Formation	30	70	40
Henrietta Formation	70	100	30
Pawnee Member	100	180	80
Fort Scott Member	180	215	35
Cherokee Formation	215	512	297

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