LEGEND: Gravel, Rhyolite, Andesite, Qtz. Monz. Por., Granodiorite, Shale & slate, Sandstone, Limestone, Dolomite, Chert, Submitted

Mine: Area "X", Kansas Missouri
Date Started: May 17, 1948
Date Stopped: June 8, 1948
Lease: Clemens Coal Company
Site: NW¼ Sec. 28 T29S, R25E
Bearing:
Inclination: Vertical
Coordinates Of Collar: Bottom
North:
East:
Location: 2332.5' N & 44.5' E NE Corner NW¼ Sec 28
Elev. of Collar: 953.15'
Elev. Water Table: Dry Hole
Elev. of Bottom: 298'
Length of Hole: 655'
Drill Hole No.: A-2
Sheet: 1 of 4
Scale One Inch = 20 Feet
Driller: C. Showalter & Sons; Sid Shouse

Date Drilled	Elev.	Feet	Log Rec.	Rock and Alt.	Geology	Condition of Hole	Int.	Core Recovery Ft.	Core Recovery Lbs.	Core Recovery %	Core Assay Sample No.	Core Assay Copper Total	Core Assay Copper Oxide	Sludge Recovery Fac.	Sludge Recovery Lbs.	Sludge Recovery Tot/Lbs.	Sludge Recovery Lbs./Rec.	Sludge Recovery %	Sludge Assay Sample No.	Sludge Assay Copper Total	Sludge Assay Copper Oxide	Comb. Ratio	Accepted Assay Copper Total	Accepted Assay Copper Product	Accepted Assay Copper Oxide	Accepted Assay Copper Product	Interval	Grouped Averages Copper Total	Grouped Averages Copper Product	Grouped Averages Copper Oxide	Grouped Averages Copper Product	Grouped Averages	Composite Assay	Remarks
	953.15'				0' Brown, sandy clay soil; 6' Limy clay soil; 12' Limy black shale w/ nodules; 15' Coal – Lemburg coal; Limy grey shales; 40' Light grey shale some sh & slate; 50' Black shale & slate; 52' Coal – Mineral coal (pr?) rel.; Limy light grey shale w/ some sh. rel.; 72' Coal –; Limy grey shales and sandy " tr. rel.; 100'–108' Black shale & slate; 110' Coal Pitt coal rel. Par; Limy and sandy grey shales tr. rel.; 125' Coal – Mineral Springs seam tr. rel.; Limy and sandy grey shales tr. tr. par; tr. rel.	Cherokee Formation																											
	810'																																	

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					176' Limy black shale; 180' Grey shale – some sh. w/ lime. Par tr. rel.; 185' Sandy, grey-brown shale tr. rel.; 206' Brown sandstone Par rel.; 226' Dark grey shale Par tr. rel.; 230' Limy, light grey shale Par; 240' Thin coal seam rel.; 245' Sandy, grey shale Par; Grey-brown sandstone Par; 260' Thin coal seam; 265' Limy, sandy, lt. grey shale Par; 280' Thin coal Heavy rel.; Limy, dark grey shales Fewer Par rel. @ 300'; 310' Thin coal rel.; 315' Thin coal rel.; Black shales and shales with lime layers tr. tr. rel.; 350' Grey & tan limestone light blue chert rel.	Cherokee Formation																											
	604'				360' Sandy tan lime. rel. blue-white chert (tr. par); 370' Tan, dolomitic lime. tr. blue chert; 380' Tan lime. - greyish white	Burlington Formation; Burlington																											

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					390' Tan-grey lime. - blue-white chert; 400' Tan lime. - grey-white chert; 410' Grey lime. - grey chert; 420' Short Creek oolite Tr. rel.; 425' Rel. Tr. chert; Tan & grey(?) lime. - some white chert tr. rel.; 450' Tan lime. - dirty white chert rel. tr. chert chert; 500' Tan lime. - brown spotted white chert rel.; 510' Tan & grey lime. - white & grey chert	Burlington Formation; Burlington; Burlington - Keokuk; Keokuk; Keokuk - Mississippi Lime																											
	528'																																	
	683'																																	
	813'																																	
						Mississippi Lime																												

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					870' Tan & grey lime. - grey & white chert; 880' Tan lime. & dolomite - lt. gy. chert; 890' Tan & grey lime. - lt. gy. chert; 910' Cream-white, shaley limestone Bed	Mississippi Lime; Mississippi Lime - Fernvale; Fernvale																											

Well Status