LEGEND

GRAVEL		Shale & slate	
RHYOLITE		Sandstone	
ANDESITE		Limestone	= dolomitic
QTZ. MONZ. POR.		Dolomite	
GRANODIORITE		Chert	

MINE Area "X", Kansas-Missouri, Cherokee County
DATE STARTED August 24, 1948
DATE STOPPED Sept. 4, 1948
Lease: The Pittsburg & Midway Coal Mng. Co.

SITE Section 8, T. 32S, R. 23E.
BEARING
INCLINATION -90° Churn
Location: 772' E & 433' S. of NW Corner, Sec. 8

CO-ORDINATES OF COLLAR — BOTTOM
NORTH
EAST

ELEV. OF COLLAR 885.35'
ELEV. WATER TABLE Surface Water only 860'
ELEV. OF BOTTOM 328'
LENGTH OF HOLE 557'
Driller: Sill & Sill Drilling Co.; Gerald Sill

DRILL HOLE NO. E-5
SHEET 1 OF 3
SCALE ONE INCH = 20 FEET

Date Drilled	Elev.	Feet	Log Rec C	Log Rec S	Rock and Alt.	Geology	Condition of Hole
	900.0'						0-370'; 8¼" Hole Cased. 370-557'; 6¼" Hole
	885.25'				Collar	0.0'	
						5' Brown clay soil	
						10' Limy, sandy soil	
						15' Brown lms. & gy. shale	
						20' Limy, gy sh & lt. tan sh.	
						Grey shale	
						35' Black sh. & lms; good coal	Mined coal
						40'	
						Light grey shale	
						70'	
						Grey shale	
						75'	
						Grey shale & sandstone	
						85'	
						Dark grey shale & slate	
						100'	trace tar.
						Slightly limy, sandy, light grey shale & slate	
						115'	
765'±						lt. gy. sh. - fireclay & Coal	Weir-Pittsburg Coal
						120'	tr. tar
						Grey shale	
						130'	
						Light grey sandstone	
						140'	
						Grey shale	
						145'	
						Dark grey shale & slate	tar
						160'	
						Black shale & slate	
						165'	
						Light grey, sandy shale	tr. tar
						180'	
						Dark grey shale	
						192'	

Cherokee formation

W.L.S. 9-11-48

Date Drilled	Elev.	Feet	Log Rec C	Log Rec S	Rock and Alt.	Geology	Condition of Hole
						192'	
						Dark grey shale	trace tar
						205'	
						Slightly sandy, light grey shale	tar
						225'	
						Grey shale	
						230'	
						Slightly sandy, lt. gy. sh.	
						240'	
						Dark grey shale	tr. tar
						270'	
						Sl. sandy, dark gy. shale	tar.
						275'	
						Dark grey shale	tr. tar.
						305'	
						Sandy, light grey shale	
						315'	
						Dark grey shale - some slate	
						335'	
						Grey shale	
331'						354' Unconformity	
						White & grey chert.	Massive FeS₂
						360'	
						Tan lms.; white chert	FeS₂
						365'	
						Grey-white lms; white chert.	Tr. FeS₂
						370'	
						Tan & grey lms.; white chert	"
						375'	
						Tan lms.; white chert	
						385'	
						Tan lms.; tan & wh. cherts	
						390'	
						Tan lms.; white chert.	
						395'	
						Tan lms.; dk. blue-grey, lt. gy. & white cherts.	
						400'	

Boone formation — Warsaw

W.L.S. 9-11-48

Date Drilled	Elev.	Feet	Log Rec C	Log Rec S	Rock and Alt.	Geology	Condition of Hole
						400'	
						Dark tan dolomitic lms; blue-gy, lt. gy. & wh. cherts	
						405'	
						" & lt. tan lms.; wh. & lt. gy. chert.	
						410'	
						Lt. tan lms.; white "cotton rock" chert.	
						415'	
						White lms.; white "cotton rock" chert.	
						449'	
						Brown oolitic lms.; white & grey chert.	Short Creek oolite.
429'						461'	
						Light tan lms., white & grey cherts.	
						485'	
						Tan lms.; white chert.	
						500'	
						Tan lms.; dk. tan dolomitic lms; white chert.	
						505'	
						Tan lms.; tan & white chert.	
						510'	
						Tan & brown lms.; white "cotton rock" chert.	
						515'	
365'						520' Dark tan, dolomitic lms; white "cotton rock"	
						Brown dolomite; white "cotton rock" chert.	
						530'	
						Tr. br. dol. "	
						535'	
						Brown-black dolomite; gy. white chert.	
						540'	
						" " ; white chert	
						545'	
335'						550' White, lt. tan, grey-white cherts.	
						Dark grey, lt. gy. & white cherts.	
328'						557'	
						End	

Boone formation — Burlington-Keokuk — Grand Falls — Reed's Spring

W.L.S. 9-8-48