COUNTY Jackson

sec. 17 T. 50 R. 30

Owner Martin & Reiser

Elev. 772 MCS# 3061

Farm Perrin, Anne No. 1 TD 4200 Shows oil Spls. ✓

Status _____ Date Completed — Fm@TD Pre-E

Remarks:

00168

~~00020~~

THE

Oil and Gas Resources

of

CASS AND JACKSON COUNTIES MISSOURI

by

JOSEPH R. CLAIR

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1943

MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES

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ROLLA, MISSOURI

Log of Martin and Reiser, Anne Perrin No. 1. Location: NE. 1/4 SW. 1/4 SE. 1/4, Sec. 17, T. 50 N., R. 30 W. Elevation: 772. Map No. 5.

Stratum	*Thickness feet*	*Depth feet*	
Quaternary series:			
Top soils	0	55	
Sand and small gravel	29	84	
Pennsylvanian system:			
Henrietta formatiln:			
White lime	9	93	
Dark blue shale	22	115	
Light shale	3	118	
Oil sand	3	121	
Light shale	9	130	
Lime	7	137	
Shale	1½	138½	
Lime	5½	144	Lexington
Black shale	2	146	"Cap Rock"
Light shale	9	155	
Gray shale	10	165	
Lime (bubbling)	4	169	
Dark shale	11	180	
Lime	8	188	
Cherokee formation:			
Blue and dark shale	307	495	
Mississippian system:			
Meramec group:			
St. Louis formation:			
Limestone, light gray, finely crystalline, with chert, some dark to black shale, pyrite	15	510	
Spergen or Upper Warsaw formation:			
Limestone, gray to light brown, crystalline light to black chert, greenish shale, pyrite slightly fossiliferous	50	560	
Osage group:			
Keokuk-Burlington formation:			
Limestone, light to dark gray, light brown, medium to fine-grained, crystalline, considerable chert, white, blue mottled to black, dense	180	740	
Sedalia formation:			
Limestone, gray to dark gray, brown, Limestone, gray to dark gray, brown, fine-grained crystalline dense white chert at 748	10	750	

Martin and Reiser, Anne Perrin No. 1—Continued.

Stratum	*Thickness feet*	*Depth feet*
Kinderhook group:		
Chouteau formation:		
Limestone, light to dark gray, fine-grained to coarse, crystalline.....	80	830
Kinderhook shale:		
Shale, green, fine particles, some pyrite, few sand grains.....	5	835
Devonian system:		
Lime, dense, finely crystalline lithographic, cream to buff white, brown, buff granular dolomite, white, vitreous chert.....	120	955
Ordovician system:		
Kimmswick formation:		
Chert, white, blue, gray, live; limestone, light to dark, gray, some finely crystalline, sand grains, well rounded	40	995
St. Peter formation:		
Sandstone, white to buff, frosted well rounded grains.....	106	1,101
Canadian system of E. O. Ulrich:		
Jefferson City formation:		
Dolomite, light, gray to white, buff, finely crystalline, cherty some sand, little shale.....	214	1,315
Roubidoux formation:		
Dolomite, light gray, white to buff, finely crystalline, much white, clear and frosted sand, well rounded grains some white to gray chert.....	130	1,445
Ozarkian of E. O. Ulrich:		
Gasconade formation:		
Upper Gasconade—		
Dolomite, light gray finely crystalline, considerable angular sand grains...	15	1,460
Lower Gasconade—		
Dolomite, light, bluish to dark gray, brown to buff finely to coarsely crystalline; chert, dense blue, dead white, gray to dark, some sand pyrite.....	170	1,630
Gunter formation:		
Dolomite, light gray to white, crystalline, considerable amount of subangular and frosted sand.....	35	1,665
Eminence formation:		
Dolomite, light gray, brown, buff, bluish to dark gray, finely crystalline, little chert and occasionally some sand, green shale pyrite.....	380	2,045
Potosi formation:		
Dolomite, light to dark gray finely crystalline, granular, some sand pyrite.....	35	2,080
Transition zone:		
Dolomite, light gray, finely crystalline, granular grading to 50 percent sand.	25	2,105
Cambrian system:		
Lamotte formation:		
Sandstone, slightly dolomitic near top, brown, bluish gray to white, clear, frosted, fine generally well rounded sand grains below.....	120	2,225

Martin and Reiser, Anne Perrin No. 1—Continued.

Stratum	*Thickness feet*	*Depth feet*
Pre-Cambrian:		
Granite wash:		
Sandstone, coarse angular fragments of pyrite, feldspar grading into coarse quartz feldspar gravel.....	50	2,275
Granite:		
Angular fragments of quartz pink feldspar, hornblende, biatite, etc., grading down into granite composed salmon pink feldspar with minor amounts of quartz.....	1,925	4,200

Note:—Pre-Pennsylvanian section from sample determination of insoluble residues by M. Hundhausen, E. McCracken, and J. Grohskopf.