County Cass

sec. 4 T. 45 R. 33

Owner Lewis, Chas. C. et al

Elev. 1068.5 MGS# 5390

Farm Chandler No. 1 TD 1500 Shows — Spls. ✓

Status _____ Date Completed 5-20-39 Fm@TD Jeff. City

Remarks;

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APPENDIX III

TYPICAL WELL LOGS OF CASS AND JACKSON COUNTIES

Log of Charles C. Lewis et al., Chandler No. 1. Location: NE NE NE 200 feet west and 200 feet south of the NE corner, Sec. 4, T. 45 N., R. 33 W., Cass County, Missouri. Elevation: 1,068.5.

Stratum	*Thickness feet*	*Depth feet*
Quaternary system:		
Soil and clay	5	5
Pennsylvanian system:		
Kansas City group:		
Sand and shale	10	15
Lime	3	18
Shale, blue	47	65
Lime	12	77
Shale	18	95
Lime	7	102
Shale	38	140
Lime	7	147
Shale, blue	8	155
Lime	30	185
Shale	5	190
Lime	23	213
Shale, black (little water, little gas)	4	217
Lime (Hertha)	10	227
Pleasanton formation:		
Shale	97	324
Sand	6	330
Shale	39	369
Lime	1	370
Shale	3	373
Sand (gas 472,000 cu. ft. SLM 373)	24	397
Shale	21	418
Henrietta group:		
Lime	7	425
Shale	5	430
Lime	10	440
Shale	18	458
Lime (Lexington)	x 5	462
Black shale (gas)	4	466
Lime	7	473
Cherokee group:		
Shale, dark	52	525
Shale, light	40	565
Shale, sandy (Squirrel)	15	580
Shale, dark	20	600
Shale, white (SLM 611 ft.)	14	614
Red bed	4	618
Shale, gray	7	625
Sand	6	631
Black shale	14	645
Shale, light	5	650
Shale	5	655
Red shale	5	660
Shale	8	668
Lime	2	670
Shale	30	700
Shale, gray sandy	10	710
Shale, dark	20	730
Shale, light sandy	5	735
Sand	20	755

Lewis et al. No. 1, Chandler—Continued.

Stratum	*Thickness feet*	*Depth feet*
Shale, sandy	60	815
Sand	5	820
Shale, dark	5	825
Shale, gray	14	839
Sand (S1M 842)	3	842
Lime (Mississippian)	39	881
Black slate	3	884
Mississippian system:		
Meramec group:		
Upper Warsaw:		
Lime	8	892
Sandy lime	4	896
Brown lime and blue flint, sharp	29	925
Lime, brown and white	39	964
White and blue flint and lime	6	970
Lime, gray and white flint	22	992
Shale, light	2	994
Lime, white and flint	21	1,015
Lime, brown, flint white	16	1,031
Lime, brown and white (sulphur water)	5	1,036
Lime, flint (brown and white) (SLM 1068)	42	1,078
Lime, brown	20	1,098
Sand and water	6	1,104
Lime, brown	x 24	1,131
Flint, brown and white	19	1,150
Lime, brown and white, flint blue	15	1,165
Lime, brown	5	1,170
Lime, brown and white flint	x 5	1,180
Lime, brown flint	13	1,193
Brown lime	23	1,216
Green shale	5	1,221
Sand, white, hard	14	1,235
Sand, white, and lime	18	1,253
Lime and flint, white and blue	14	1,267
Green shale	1	1,268
Flint, blue and white } caving	10	1,278
White and blue flint, iron pyrite } caving	22	1,300
Flint and sand (running 4 7–8″ at about 1925′) } caving	24	1,324
Lime and flint } caving	2	1,326
Sand	9	1,335
Lime, hard	4	1,339
Shale, blue	2	1,341
Lime and flint	6	1,347
Lime, hard	20	1,367
Lime and flint	x 13	1,390
Lime, brown	15	1,405
Lime, brown, white flint	14	1,419
Lime, brown	31	1,450
Lime, brown, white flint	16	1,466
Lime, brown, white flint	34	1,500—T. D.
Formational summary:		
No samples	0	495
Pennsylvanian system:		
Cherokee group	495	842
Mississippian system:		
Meramac group:		
Upper Warsaw formation	842	885
Lower Warsaw formation	885	940
Burlington-Keokuk formation	940	1,093
Sedalia formation	1,093	1,115
Chouteau formation	1,115	1,216
Kinderhook shale	1,216	1,221

Lewis et al. No. 1, Chandler—Continued.

Stratum	*Thickness feet*	*Depth feet*
Mississippian or Devonian	1,221	1,241
Devonian system	1,241	1,253
Ordovician system:		
Middle Kimmswick	1,253	1,267
Lower Kimmswick or Decorah formation	1,267	1,300
St. Peter formation	1,300	1,341
Jefferson City formation:		
(Canadian System of E. O. Ulrich)	1,341	1,500

THE

Oil and Gas Resources

of

CASS AND JACKSON COUNTIES MISSOURI

by

JOSEPH R. CLAIR

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MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES

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