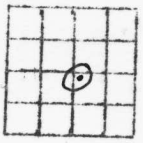
County Cass



sec. 21 T. 46 R. 33

Owner Knoche, Louis

Elev. 1072 MGS# 4734

Farm Dobson No. 1 TD 740 Shows — Spls. ✓

Status dry

Date Completed April 1938 Fm TD Cherokee

Remarks; KN001

00093

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Log of Knoche Dobson No. 1. Location: Sec. 21, T. 46, R. 33, Cass County, Missouri.
Elevation: 1,072.

Stratum	*Thickness feet*	*Depth feet*
Quaternary system:		
Soil and clay	16½	16½
Pennsylvanian system:		
Lansing group:		
Sand	10½	27
Shale	1½	28½
Lime	13½	42
Shale	5	47
Lime (slate seam)	8½	55½
Shale	3	58½
Lime	2	60½
Shale	1½	62
Lime	1½	63½
Shale	6½	70
Lime	1½	71½
Shale	4	75½
Lime (water at 86′)	14	89½
Green shale	7	96½
Sand (lime seam on top)	3	99½
Shale	1½	101
Sand (water)	7	108
Shale	4	112
Kansas City group:		
Lime	43	155
Blue lime	5	160
Shale	2	162
Lime, gray	35	197
Shale	1	198
Conglomerate	3	201
Sand and conglomerate	8	209
Shale (set 6¼′)	6½	215½
Shale, blue, muddy	9½	225
Lime	11	236
Shale	5	241
Red bed	5	246
Lime	4½	250½
Coal	½	251
Shale	10	261
Sand	7	268

Knoche Dobson No. 1—Continued.

Stratum	*Thickness feet*	*Depth feet*
Shale	2½	270½
Lime	1	271½
Sand	5½	277
Sandy gray shale	7	284
Lime	6	290
Shale	3	293
Lime (shale seams)	7	300
Shale	11	311
Lime	x 3½	314
Shale	1	315½
Lime, blue (150′ water in hole over night)	12½	328
Shale	1½	329½
Lime	7½	337
Slate	1	338
Shale	6	344
Lime	20	364
Shale	3	367
Slate	2	369
Lime	2	371
Shale	1	372
Lime	18½	390½
Pleasanton formation:		
Shale	1½	392
Sand	6	398
Sandy shale	32	430
Muddy blue shale	12	442
Sand	26	468
Shale	7	475
Lime	1	476
Sand	2	478
Sandy shale	24	503
Sand	5	507
Sand and lime	3	510
Lime	9	519
Shale	7	526
Lime	5	531
Slate	2	533
Shale	2	535
Sand	6	541
Shale, sandy (set 4 7–8″)	14	555
Shale	5	560
Sand	26	586
Henrietta group:		
Lime and sand	2	588
Slate	1	589
Shale	5	594
Lime	2½	596½
Shale	2½	599
Slate	3	602
Sand	2	604
Sandy shale	6	610
Sand	5	615
Shale	4	619
Lime and sand	2	621
Fine sand	16	637
Slate or shale	1	638
Brown and black shale	5	643
Sandy shale	7	650
Blue shale	4	654
Lime	3	657
Slate	1	658
Shale, blue	6	664
Lime	1	665

Knoche Dobson No. 1—Continued.

Stratum	*Thickness feet*	*Depth feet*
Cherokee group:		
Slatey shale	3	668
Shale, blue	4	672
Sandy lime and sand	5	667
Siate	2	679
Shale, blue	3	682
Sand	4	686
Shale	2	688
Lime	2	690
Shale, blue	4	694
Lime	2	696
Shale	3	699
Sand	2	701
Blue and black shale	9	710
Slate	3	713
Sand	3	716
Sandy gray shale	14	730
Blue shale	10	740—T. D.
Formational summary:		
No samples	30	30
Pennsylvanian system:		
Lansing group	85	115
Kansas City group	275	390
No samples	50	440
Pleasanton group	145	585
Henrietta group	91	676
Cherokee group (base of formation not reached)	59	735

THE

Oil and Gas Resources

of

CASS AND JACKSON COUNTIES MISSOURI

by

JOSEPH R. CLAIR

Vol. XXVII, Second Series

1943

MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES

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ROLLA, MISSOURI