Caldwell 19 55 29 W

Street Trustee, R.W. 958 8321 Sp!

Stilfield et al #1 920 Pti? stained

d & a Aug 1943

00060

RECENT DRILLING

in

NORTHWESTERN MISSOURI

By

FRANK C. GREENE

REPORT OF INVESTIGATIONS NO. 1

1945

EDWARD L. CLARK, *Director and State Geologist*

MISSOURI GEOLOGICAL SURVEY AND
WATER RESOURCES

ROLLA, MISSOURI

Log of R. W. Street, Trustee, No. 1 Stilfield *et al.* Location: Cen. S 1/2 SE 1/4 SE 1/4 sec. 19, T. 55 N., R. 29 W., Caldwell County, Missouri. Surface elevation, approximately 975 feet. Commenced, 7-21-1943, and completed, 8-13-1943. Total depth, 920 feet. Dry and abandoned. Drilled with cable tools. Casing record: 10 inch set at 42 feet; 8 1/4 inch at 280 feet; and 6 1/4 inch at 520 feet. Contractor: Jay Bradford and Son, Kansas City, Missouri.

FORMATIONAL SUMMARY

	Thickness, feet	*Depth, feet*
Pleistocene and Recent Series:		
Surface and glacial drift	42	42
Pennsylvanian system:		
Kansas City group	196	238
Pleasanton group	137	375
Henrietta group	101	476
Cherokee group (base not reached)	444	920, T.D.

WATER ANALYSES

Horizon	*T.D.S.*	Parts per million *Cl.*	*SO_4*	*Na-K as Na*
Pleasanton at 219-312 ft.	3646.0	1560.4	8.0	1208.5
Lower Cherokee, 910-920 ft.	8649.0	3533.4	1369.3	2431.2

DRILLER'S LOG

	Thickness, feet	*Depth, feet*
Surface	2	2
Glacial fill (some boulders at 20 ft.)	40	42
Sand rock, red	8	50
Lime (Iola), broken	2	52
Lime, hard	3	55
Shale, gray (small water)	11	66
Lime (RT)	6	72
Shale, black with some slate	5	77
Shale, gray to blue	11	88
Lime (Cement City)	13	101
Shale, red and green	15	116
Lime (Drum)	5	121
Shale, gray to blue	16	137
Lime	6	143
Shale, dark	2	145
Lime	6	151
Shale, gray	5	156
Lime	2	158
Shale, gray	9	167
Lime (WS)	28	195
Shale, dark with slate	6	201
Lime	20	221
Shale, gray	1	222
Lime	1	223
Slate, black ("coal small" water)	3	226
Lime	12	238
Shale, green	7	245
Sand, broken (oil stained)	2	247
Shale, green	15	262
Shale, gray, sandy (8 1/4 in. pipe set at 280 ft.)	22	284
Sand, muddy (small show of dead oil)	11	295
Sand, clean (some water:-sampled)	17	312

	Thickness, feet	*Depth, feet*
Shale, gray	18	330
Sand, very muddy	8	338
Shale, red	6	344
Shale, green and red	4	348
Shale, green, sandy	22	370
Sand, hard	5	375
Lime	2	377
Shale, dark	10	387
Lime	3	390
Shale, gray	10	400
Shale, gray, sandy	19	419
Lime	8	427
Shale, black with some coal (small water)	6	433
Lime	3	436
Shale, light, sandy	14	450
Shale, dark gray	6	456
Lime	3	459
Slate, black, contains very small coal (water)	6	465
Shale, green	5	470
Lime, sandy	6	476
Shale, gray	9	485
Shale, light, sandy	15	500
Sand	8	508
Shale, gray, sandy (set 6 1/4 in. pipe at 520 ft.)	28	536
Coal and slate	2	538
Shale, gray, sandy	17	555
Shale, black and some coal	5	560
Shale, light, sandy	4	564
Lime	2	566
Shale, dark, muddy	9	575
Lime	2	577
Shale	1	578
Slate, black and small coal	5	583
Shale, gray	13	596
Lime	1	597
Shale, black	8	605
Shale, gray, sandy	16	621
Lime	2	623
Shale, gray, sandy	5	628
Lime	1	629
Shale, black	3	632
Slate, black and coal with some pyrites of iron	4	636
Shale, white	14	650
Coal and some slate	7	657
Lime	3	660
Shale, dark gray	37	697
Sand	15	712
Sand, muddy	5	717
Sand	15	732
Shale, dark, sandy to very sandy	18	750
Shale, gray	20	770
Shale, black	4	774
Shale, gray	22	796
Slate, black	4	800
Shale, white, sandy	10	810
Sand and siderite	3	813
Shale, sandy, gray	17	830
Sand, very hard	5	835
Slate and shale, very black with pyrites of iron	70	905
Sand	5	910
Sand (water)	10	920, T.D.