County Atchison sec. 20 twp. 65 rge. 41

owner Mo. Independent Oil & Gas Co. elev. 1122 MGS# 2218 spl ✓

farm Bishop, W. A. No. 1 TD. 1713 fm@TD Cherokee shows no
(L. Fort Scott @ 1295')

status D&A date completed 12-8-28

remarks:

~~00032~~
~~00023~~
00065 ~~00037~~

LOG OF MISSOURI INDEPENDENT OIL AND GAS COMPANY.
W. O. Bishop No. 1.
NW. ¼ sec. 20, T. 65 N., R. 41 W., Atchison County.
Completed Dec., 1928.
Elevation, 1,096 feet.

	Thickness, Feet.	Depth, Feet.	
Soil	90	90	
Sand, red	28	118	
Blue mud	3	121	
Clay, blue	32	153	
Lime	2	155	
Clay, blue	15	170	
Lime, gray	1	171	
Shale, black	23	194	(Small amount of water.)

LOG OF MISSOURI INDEPENDENT OIL AND GAS COMPANY—Continued

	Thickness, Feet.	Depth, Feet.	
Lime, brown, sandy	2	196	
Shale, dark	4	200	
Lime, gray, very hard	4	204	
Coal	1	205	
Shale, green to light gray	19	224	
Lime	7	231	
Shale, dark	3	234	
Lime and shale	3	247	
Shale, dark	2	249	
Red bed	7	256	
Shale, blue to dark	15	271	
Lime	3	274	
Shale, dark	56	330	
Shale, light green to white	21	351	Salt water.
Shale, dark pyrite	19	370	
Lime and shale	10	380	
Lime, gray	30	410	
Shale, sandy	13	423	
Lime	7	430	
Sand (oil showing)	3	433	
Coal	1½	434½	
Shale, dark	17½	452	
Lime	8	460	
Shale, dark	3	463	
Lime, hard	46	509	
Shale, white	10	519	
Shale, green	9	528	
Lime	2	530	
Shale, dark	3	533	Light water; salty.
Lime varied	20	553	
Shale, dark	3	556	
Lime, hard	2	558	
Shale, green	15	573	
Shale, brown	2	575	
Shale, light	41	616	
Lime, white	4	620	
Shale, light	5	625	
Shale, dark	6	631	
Lime	9	640	
Shale, light	4	644	
Lime, very hard	11	655	
Shale, light	11	666	
Lime and sand	34	700	
Shale, black	1	701	
Lime	2	703	
Shale, dark to blue	8	711	
Red bed	19	730	
Shale	68	798	
Shale, dark	3	801	
Sand	2	803	
Shale, dark	3	806	
Lime	1	807	
Red bed	7	814	
Shale, dark	6	820	

LOG OF MISSOURI INDEPENDENT OIL AND GAS COMPANY—Continued

	Thickness, Feet.	Depth, Feet.	
Lime, hard	16	836	
Shale, dark	2	838	
Lime	10	848	
Lime, sandy	3	851	
Lime, white	37	888	
Shale, dark	8	896	
Lime, coarse white chalky	14	910	
Shale, dark	3	913	
Lime	33	946	
Shale, blue	10	956	
Lime	11	967	
Shale, green	3	970	
Lime	16	986	
Shale, dark	9	995	
Lime	1	996	
Shale, blue	2	998	
Lime, black sandy	4	1002	
Shale, dark	5	1007	
Lime, gray	21	1028	(Winterset.)
Shale, dark black	3	1031	
Shale, light	7	1038	
Lime	34	1072	(Bethany Falls.)
Shale, dark	3	1075	
Lime	2	1077	
Slate, dark	3	1080	
Lime, gray	15	1095	(Hertha.)
Shale, dark	2	1097	
Lime	4	1101	
Shale, light blue	17	1118	
Shale, black	18	1136	
Lime	2	1138	
Shale, dark	12	1150	
Shale, light, blue, sandy	21	1171	
Shale, green	33	1204	
Shale, green	15	1221	
Shale, brown	20	1241	
Shale, gray	6	1247	
Shale, black	3	1250	
Shale, dark	15	1265	
Lime	1	1266	
Shale, light	10	1276	
Shale, black	6	1282	
Shale, light	38	1320	
Sand	10	1330	Water (top of Squirrel).
Shale, sandy and gray	10	1340	
Shale, dark	20	1360	
Shale, black and slaty	2	1362	
Shale, light and sandy	14	1376	(Bottom of Squirrel sand.)
Shale, black	2	1378	

LOG OF MISSOURI INDEPENDENT OIL AND GAS COMPANY—Continued

	Thickness.	Depth.	
Lime	2	1380	Rich Hill or Ardmore.
Shale, dark	10	1390	
Lime	1	1391	
Shale	5	1396	
Lime	7	1403	
Shale, dark	3	1406	
Lime	2	1408	
Sandy shale, black	1	1409	
Shale, dark	39	1448	
Sandstone	2	1450	
Shale, blue to black, sandy streaks	17	1467	
Sand	6	1473	
Shale, brown	2	1475	
Shale, gray	37	1512	
Limestone	2	1514	
Sandstone	2	1516	
Shale	4	1520	
Sandstone	5	1525	
Shale, light, gray	5	1530	
Sandstone	5	1535	
Shale, light, gray	15	1550	
Sandstone	30	1580	Salt water showing.
Shale, white	10	1590	
Shale, white	20	1610	
Sandstone	25	1635	
Lime, soft	20	1655	
Lime, hard	5	1660	
Shale, brown	15	1675	
Lime	10	1685	
Lime, soft	5	1690	
Sandstone, bottom of hole	23	1713	

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TRANSMITTED BY THE
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FIFTY-SEVENTH GENERAL
ASSEMBLY, 1933

MDCCCXX

H. A. BUEHLER
DIRECTOR AND STATE GEOLOGIST
ROLLA, MISSOURI