

LOG OF WELL NO. 1 OF MALHEUR OIL COMPANY  
 Sec. 31, T. 19 S., R. 44 E.

<u>Character of rock</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Clay, yellow . . . . .	40	0
Clay, blue . . . . .	45	40
Sand, dry . . . . .	30	85
Shale, black . . . . .	7	115
Sand, trace of oil and gas . . . . .	8	122
Shale, white . . . . .	8	130
Clay, blue . . . . .	2	138
Sand with traces of oil . . . . .	140	140
Clay, blue . . . . .	12	280
Sand with traces of oil . . . . .	22	292
Clay, brown . . . . .	5	314
Shale, gray . . . . .	6	319
Conglomerate with artesian water . . . . .	75	325
Basalt . . . . .	5	400
Clay, red . . . . .	40	405
Basalt . . . . .	8	445
Clay, red . . . . .	42	453
Conglomerate . . . . .	12	495
Conglomerate, red . . . . .	88	507
Clay, variegated colors; firm, soapy . . . . .	92	595
Shale, blue . . . . .	15	687
Basalt, vesicular . . . . .	33	702
Clay, chocolate and red colors . . . . .	6	735

*Mulhens Oil Co.  
New Court*

<u>Character of rock</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Shale, blue . . . . .	9	741
Basalt, very hard . . . . .	10	750
Conglomerate, soft . . . . .	7	760
Limestone . . . . .	$\frac{1}{2}$	767
Boulders of igneous rock and clay . . . . .	$133\frac{1}{2}$	$767\frac{1}{2}$
Basalt, very hard . . . . .	45	901
Clay, dark brown . . . . .	5	946
Shale, light colored . . . . .	85	951
Conglomerate, fine . . . . .	2	1,036
Sand, gray; fragments of bones; trace of oil . . .	13	1,038
Sand, coarse . . . . .	6	1,051
Shale, blue . . . . .	4	1,057
Diabase lava, partly decomposed; locally miscalled "dolomite" . . . . .	200	1,061
Shale, white; probably volcanic ash . . . . .	50	1,261
Shale, tough, blue, with show of oil . . . . .	50	1,311
Shale, white, gritty; probably volcanic ash . . .	145	<u>1,361</u>
Total depth October 8, 1909 . . . . .		1,506

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 Taken from - U. S. Geol. Survey Bull. 431: Contributions to Economic Geology,  
 part II, Gas and oil near Vale, Oregon, and Payette, Idaho, p. 42-43, 1909.