

Battelle District, Monongalia County, W. Va.

By Hope Natural Gas Co.

Location made Oct. 20, 1915; first work done, Oct. 21, 1915.

Rig commenced, Nov. 2, 1915; rig completed, Nov. 12, 1915.

Drilling commenced, Nov. 22, 1915; drilling completed, Mar. 21, 1916.

Rig contractor, Hope N.G.Co. Drilling contractor, Hope Drig.Dept., string No. 22.

Drillers: F. A. Latchaw, John L. Richy, Joe. McElwee.

Tool dressers, Stonewall Taylor and Percy Streamider.

Actual steel line of where casing sets: 10", 560'; 8 1/2", 1341';

6-5/8", 2145'; 5-3/16", 3001'.

10" casing, 582' 6"; 8 1/2", 1436' 4"; 6-5/8", 2138' 4"; 5-3/16", 3018' 1".

Could not pull the 8 1/2" casing and left the 10" in to protect the 8 1/2".

Above measurements are screwage added.

10" shoe, 560'; 8 1/2" shoe, 1341'; 6-5/8", 2145'; 5-3/16" x 655/8" B.H., 3001', packer.

Not cemented.

Gas, 2920'; 5/10 water through 1" opening from 50-Ft. Sand.

Gas, 3033'; 4/10 water through 1" opening from Gordon Stray Sand.

	Top.	Bottom.
Native coal	465	467
Pittsburgh Coal (SLM)	941	948
Little Dunkard Sand (SLM)	1335	1395
Big Dunkard Sand (SLM)	1420	1485
Gas Sand (SLM)	1615	1706
First Salt Sand (SLM)	1735	1800
Second Salt Sand (water, 1835-1850'; salt water; hole full; SLM) (SLM)	1812	1890
Little Lime (SLM)	2120	2130
Pencil Cave (SLM)	2130	2142
Big Lime (SLM)	2142	2215
Big Injun Sand (show of salt water at 2280' SLM) (SLM)	2215	2295
Slate	2295	2450
Slate and shells	2450	2800
Fifty-foot Sand (SLM)	2900	2945
Slate and shells	2945	2983
Gordon Stray Sand (SLM)	2983	3038
Gordon Sand (SLM)	3053	3086
Fourth Sand (SLM)	3124	3175
Fifth Sand (SLM)	3185	3198
Sand	3202	3218
Slate	3218	3249
Total depth		3599

DETAILED RECORD ON BACK OF NO. 45 O.F.No.1

Mud	80	20
Sand	20	40
Red rock	40	60
Slate and shells	60	125
Limestone	125	175
Red rock	175	210
Lime and slate	210	465
Sand	467	500
Lime and slate	500	565
Bluff Sand	565	610

(OVER)

	Top.	Bottom.
Waynesburg Coal	610	- 613
Lime	613	- 675
Slate and shells	675	- 725
Lime	725	- 834
Blue mud	834	- 840
Mapletown (Sawickley) Coal	840	- 844
Limestone	844	- 925
Slate	925	- 941
Limestone	941	- 980
Red rock	980	- 1015
Lime and slate	1015	- 1050
White mud	1050	- 1100
Red rock	1100	- 1135
Lime	1135	- 1150
White mud	1150	- 1175
Sand	1175	- 1190
Mud	1190	- 1220
Lime	1220	- 1235
Red rock	1235	- 1280
Lime	1280	- 1310
Slate	1310	- 1335
Slate and shells	1335	- 1420
Slate and shells	1420	- 1485
Soft mud	1485	- 1615
Lime and shells	1615	- 1715
Slate	1715	- 1735
Slate	1735	- 1800
Lime and slate	1800	- 1890
Red rock	1890	- 1900
Slate and shells	1900	- 1920
Red rock	1920	- 1930
Slate and shells	1930	- 2015
Red rock	2015	- 2100
White rock	2100	- 2120
Sand lime	2120	- 2800
Slate	2800	- 2850
Slate	2850	- 2900
Red rock	2900	- 3038
Slate	3038	- 3050
Shells	3050	- 3086
Slate	3086	- 3097
Shells	3097	- 3100
Slate	3100	- 3115
Shells	3115	- 3122
Red rock	3122	- 3124
Slate	3124	- 3175
Sand	3175	- 3245
Slate	3245	- 3275
White lime	3275	- 3340
Slate	3340	- 3350
Gritty lime	3350	- 3384
Slate	3384	- 3392
Lime	3392	- 3445
Slate	3445	- 3470
Gritty lime	3470	- 3500
Slate and shells	3500	- 3543
Total depth	3543	- 3599

(THE ABOVE ARE THE DETAILS BETWEEN

THE SANDS GIVEN FIRST ON OPPOSITE PAGE)

(PART OF RECORD). COMBINE THE TWO.

Record received April 10, 1916, from Jno. B. Corrin.