

Latitude

38 02 30

81 37 30

Longitude

Topo Location

7.5' Loc. 1.805 15' Loc. _____
.87W (calc.) _____

Company Godfrey L. Cabot, Inc.

Farm Federal Coal 45-734

15' Quad _____
(sec.)

7.5' Quad Williams M+n

District Sherman

WELL LOCATION PLAT

County 005 Permit 147

Sherman District, Boone County, W. Va.

Godfrey L. Cabot, Inc.

On 18,348 acres.

Rig commenced Sept. 24, 1930; completed, Sept. 30, 1930.

Drilling commenced Oct. 4, 1930; completed, March 15, 1931.

Drilling to cost \$2.70 per foot to 3500'; thence, \$3.10.

Contractor, Everett Ferrell, Seth, W. Va.

Drillers, J. E. Ankrom and J. M. Muldoon.

Elevation, 1165'.

13" casing, 25' 8" (left in well); 10"; 526' (pulled); 8½", 1738' (pulled); 6-5/8", 2317' (pulled).

Test before shot, 2/10 W. in 1".

Test 48 hrs. after shot, 2/10 W. in 1"; volume, 16,848 cu. ft.

Date shot, 4/8/31 and 4/16/31.

Well abandoned and plugged April 21, 1931.

First shot 4/8/31; 150 quarts; top of shot 5650', bottom 6018', loaded anchor used. When last shell was lowered in well it exploded entire shot. The shooting line bridged the hole at 3275'; nothing was blown out of the well by the shot. The bridge was 220' in length; it was all cleaned out but 18' which was driven to bottom of well.

Second shot 4-16/31; 2000# gelatine. Top of shot 5215', bottom of shot 5471'. Before shot, 2/10 W. 1". After (12 hrs) 2/10 W. 1".

Shot cleaned hole to 5466'.

Preliminary data sheet missing.

Record filed with Dept. of Mines, ~~Washington~~ dated, April 28, 1931.

	fresh	Top.	Bottom.
Gravel, brown, soft (water, 30'; hole full)		0	25
Sand, brown, medium		25	88
Coal, black,		88	90
Lime, blue, hard		90	135
Slate, blue, soft		135	145
Slate and shells, blue		145	165
Lime, white, hard		165	210
Slate, blue, soft		210	224
Lime, white, hard		224	234
Sand, gray, hard		234	255
Slate, white, soft		255	260
Sand, white, hard		260	276
Coal, black, soft		276	278
Slate and shells		278	298
Lime, white, hard		298	409
Coal, black, soft		409	410
Lime, white, hard		410	425
Sand (close), gray, hard		425	472
Slate and shells, blue		472	492
Coal, black, soft		492	494
Lime, blue, hard		494	511
Sand (close), white, hard		511	540
Slate, blue, soft		540	550
Lime, white, hard		550	605
Slate, black, soft		605	615
Lime, dark, hard		615	635
Slate and shells, medium		635	653
Lime, blue, hard		653	673
Sand, white, hard		673	708
Sandy lime, gray, hard		708	731
Slate and shells, dark, medium		731	830

(OVER)

FEDERAL COAL COMPANY NO. 45 (734) WELL (Continued).

	Top.	Bottom.
Sand (close), gray, hard	830	- 880
Slate, blue, soft	880	- 890
Sand, gray, hard	890	- 938
Slate and shells, dark, medium	938	- 950
Lime, blue, soft	950	- 968
Sand, gray, soft	968	- 1074
Grampus Sand, yellow, hard	1074	- 1240
Sand, gray, soft	1240	- 1312
Salt Sand, white, hard (gas show, 1315')	1312	- 1735
Lime, black, hard (hole full water, 1425')	1735	- 1740
Slate, blue, soft (salt water, 1415')/	1740	- 1747
Sand, dark, hard	1747	- 1763
Lime, black, medium	1763	- 1809
Red rock, soft	1809	- 1834
Lime, blue, hard	1834	- 1844
Maxton Sand (close), hard (oil show, 1873')	1844	- 2033
Red rock, soft	2033	- 2070
Lime, dark, hard	2070	- 2225
Red rock, soft	2125	- 2136
Lime, dark, hard	2136	- 2153
Slate and shells, dark, medium	2153	- 2195
Slate--Pencil, dark, soft (cave)	2195	- 2205
Little Lime, medium	2205	- 2299
Big Lime, white, hard	2299	- 2337
Keener Sand, medium	2337	- 2545
Big Injun Sand, red, soft	2545	- 2565
Slate and shells, dark, soft	2565	- 2600
Weir Sand, gray, medium (oil and gas show, 2657', 3/10 W. in 1"; 2/10 W. in 1"; gas, 2758', 1/10 W. in 1"; gas, 2783', 3/10 W. in 1"; gas, 2805', 7/10 W. in 1"; oil, 2838-44')	2600	- 2855
Slate and shells, blue	2855	- 2996
Brown shale, soft	2996	- 3001
Berea Sand, hard	3001	- 3009
Lime, black, hard	3009	- 3154
Slate and lime shells, hard	3154	- 3193
Lime, black, medium	3193	- 3266
Lime shells, medium	3266	- 3500
Slate and shells, blue	3500	- 4144
Shale and lime, dark	4144	- 4187
Lime shells, black, hard	4187	- 4383
Shale, brown	4383	- 4397
Lime shells, black	4397	- 4436
Shale and shells, soft	4436	- 4766
Lime, gray, medium	4766	- 4920
Shale and lime, black	4920	- 4928
Lime shells, gray, hard	4928	- 5066
Slate and shells, blue	5066	- 5221
Shale, brown, soft	5221	- 5466
Slate, blue, soft	5466	- 5495
Slate and shell, black	5495	- 5555
Corniferous Lime, gray, hard (gas, 5660'; 3/10 W. in 1"; oil show, 5854-7')	5555	- 5759
Corniferous Lime, black (gas, 5858'; 5/10 W. in 1"; gas, 6049'; water, 6117'; decreased to 4/10 W. in 1"; decreased to 3/10 W. in 1"; dec. to 2/10 W. in 1"	5759	- 61
Total depth W. in 1"		61.

NOTE--Hole has been plugged only to 536'. Under an agreement (to be signed later) The Collieries Co. are to use this hole as a water well and to assume responsibility for completing the plugging of this well in accordance with the mining law of West Va.

Boone 147

Federal Coal Co. No. 45-734 Well.

Sherman Dist., Boone Co., W. Va.; on Scott Branch of Jarrolds Fork of Hopkins Fork of Coal River, 3/4 mile due west of Prenter and 6 miles N. 70° W. of Whitesville; begun Oct. 4, 1930; completed March 15, 1931; by Godfrey L. Cabot, Inc.; elevation, 1163'.

	Top. Feet.	Bottom. Feet.
<u>Pennsylvanian-Pottsville Series-Kanawha Group (968'±)</u>		
Gravel	0	25
Sand, <u>Lower Winifrede</u> , brown (fresh water, 30'; hole full)	25	88
Coal, <u>Ohilton "A"</u>	88	90
Lime (sandy shale?), blue, hard....	90	135
Slate, blue, soft	135	145
Slate and shells, blue	145	165
Lime (sandy shale?), white, hard ..	165	210
Slate, blue, soft	210	234
Lime (sandy shale?), white, hard ..	234	234
Sand, <u>Lower Ohilton</u> , gray, hard ...	234	255
Slate, white, soft	255	260
Sand, <u>Hernshaw</u> , white, hard	260	276
Coal, <u>Hernshaw</u>	276	278
Slate and shells, blue	278	298
Lime (sandy shale?), white, hard...	298	409
Coal, <u>Alma</u>	409	410
Lime (sandy shale?), white, hard ..	410	425
Sand, <u>Monitor?</u> gray, hard, close..	425	472
Slate and shells, blue	472	492
Coal, <u>Campbell Creek, No. 2 Gas Bench</u>	492	494
Lime (sandy shale?), blue, hard ...	494	511
Sand, <u>Brownstown</u> , white, hard, close	511	540
Slate, blue, soft	540	550
Lime (sandy shale?), white, hard...	550	605
Slate, black	605	615
Lime (sandy shale?), dark, hard ...	615	635
Slate and shells	635	653
Lime (sandy shale?), blue, hard....	653	673
Sand, <u>Eagle</u> , white, hard	673	708
Lime, gray, sandy	708	731
Slate and shells, dark	731	830
Sand, <u>Decota</u> , gray, hard, close....	830	880
Slate, blue, soft	880	890
Sand, <u>Grapevine?</u> gray, hard	890	938
Slate and shells, dark	938	950
Lime (sandy shale?), blue, soft ...	950	968

	Top. Feet.	Bottom. Feet.
<u>Devonian-Genesee Series (196')</u>		
Lime shells, black, hard	4187	4383
<u>Devonian-Hamilton Series (243')</u>		
Shale, brown	4383	4397
Lime shells, black.....	4397	4436
Shale and shells, soft	4436	4766
Lime (sandy shale?), gray, soft	4766	4920
Shale and lime, black	4920	4928
Lime shells, gray, hard	4928	5066
<u>Devonian-Marcellus Series (489')</u>		
Slate and shells, blue	5066	5231
Shale, brown, soft	5231	5466
Slate, blue, soft	5466	5495
Slate and shells, black	5495	5555
<u>Devonian-Onondaga Series (absent)</u>		
<u>Devonian-Oriskany Series (absent)</u>		
<u>Devonian-Helderberg Series (562')</u>		
Lime, gray, hard (gas, 5850'; 3/10 W in 1" = 20,760 cu.ft.)	5555	5759
Lime, black, hard	5759	6117
Oil show, 5854-5857'		
Gas, 5858'; 5/10 W in 1" = 26,448 cu.ft.		
Decreased to 2/10 W in 1" = 16,848 cu.ft.		
Gas, 6049'; 3/10 W in 1" = 20,760 cu.ft.		
Water, 6117'		
Total depth		6117

13" casing, 25'8"; 10" csg., 526'; 8 1/2" csg., 1738';
 6 5/8" csg., 2317'.
 Everett Ferrell, Contractor, Seth, W.Va.
 J.F. Ankrom and J.M. MacDoon, drillers.

Helderberg
 Shot in ~~Corniferous~~ Lime April 8, 1931.
 Gas test before shot 2/10 W in 1" = 16,848 cu.ft.
 Gas test 48 hrs. after shot, 2/10 W in 1" = 16,848 cu.ft.
 (sulphurous gas).
 When last shell was lowered in well, it exploded
 entire shot. The shooting line bridged the hole
 at 3275'. Nothing was blown out of the hole by
 the shot. The bridge was 230' in length. It was
 all cleaned out but 18' which was driven to bottom
 of well.

Well abandoned.

	Top. Feet.	Bottom. Feet.
<u>Pennsylvanian-Pottsville Series-New River Group (841')</u>		
Sand, <u>Upper Nuttall</u> , gray, soft	968	1074
<u>Grassus</u> (sand), <u>Lower Nuttall</u> , yellow, hard	1074	1240
Sand, <u>Harvey</u> , gray, soft	1240	1312
Sand, <u>Salt</u> , <u>Walsich</u> , etc., white, hard, (gas show, 1315') (salt water, 1415'; water, 1425'; hole full)	1312	1735
Lime (sandy shale?), black, hard	1735	1740
Slate, blue	1740	1747
Sand, dark, hard	1747	1763
Lime (sandy shale?), black, medium hard..	1763	1809
<u>Mississippian-Mauch Chunk Series (396')</u>		
Red rock, soft	1809	1834
Lime, blue, hard	1834	1844
Sand, <u>Maxton</u> , <u>Droop</u> , hard, close (oil show, 1873')	1844	2033
Red rock, soft	2033	2070
Lime, dark, hard	2070	2125
Red rock, soft	2125	2136
<u>Little Lime</u> , dark, hard	2136	2153
Slate and shells, dark, medium-hard.....	2153	2195
Slate, <u>Pencil Cave</u> , dark, soft	2195	2205
<u>Mississippian-Greenbrier Series (132')</u>		
Lime, medium-hard, 2305-2399') <u>Big</u>	2205	2337
Lime, white, hard 2399-2337') <u>Lime</u>		
<u>Mississippian-Pocono Series (872')</u>		
Sand, <u>Keener</u> , medium-hard	2337	2545
Sand, <u>Big Injun</u> , red, soft	2545	2565
Slate and shells, dark, soft	2565	2600
Sand, <u>Weir</u> , gray, medium-hard (oil and gas	2600	2855
Soft, with gas, 2753'; 1/10 W in 1" =	12,000	cu.ft.
Hard, " " 2783'; 3/10 W in 1" =	30,760	" "
Hard, " " 2805'; 7/10 W in 1" =	31,560	" "
Hard " oil, 2338-2844'		
Slate and shells, blue	2855	2996
Shale, <u>Coffee</u> , <u>Sunbury</u> , brown, soft.....	2996	3001
Sand, <u>Berea</u> , hard	3001	3009
<u>Devonian-Oberung and Portage Series (1178')</u>		
Lime (sandy shale?), black, hard	3009	3154
Slate and lime shells, hard	3154	3193
Lime (sandy shale?), black, medium-hard..	3193	3266
Lime shells, gray, medium-hard	3266	3500
Slate and shells, blue (gas-Weir, gauging 3/10 W in 1" = 20,700 cu.ft.)..	3500	4144
Shale and lime, dark (gas, 2/10 W in 1" = 16,848 cu.ft.)	4144	4187

Peytona Quad,
SC

FEDERAL COAL CO. NO. 45 (734) WELL.

M

No. 123 O.F.

1.35 mi E 81° 40', 93 mi N 38° 00'

3.18 mi W of 81° 35'
7.79 mi S of 38° 05'

Sherman District, Boone County, W. Va.
Godfrey L. Cabot, Inc., Charleston, W. Va.
On 18348 acres, Scott Hollow of Laurel Creek; surface and mineral
rights owned by Federal Coal Co., Charleston, W. Va.
Drilled under permit Boo-147, issued Sept. 8, 1930.
Elevation, 1163' L.
13 1/2" casing, 25' 8"; 10" casing, 526'.
Coal was encountered at 88-90, 276-278, 409-410, and 492-494'.
Preliminary report to Dept. of Mines Oct. 24, 1930.
Drilling commenced Oct. 4, 1930.
Contractor, Everett Ferrell, Seth, W. Va.
Casing shoe on bottom of 10" casing.
10" casing set in 25' of white clay.
Record to depth of 549' only.

	Top.	Bottom.
Gravel	0	25
Sand	25	88
Coal	88	90
Lime	90	135
Slate	135	145
Slate and shells	145	165
Lime	165	210
Slate	210	224
Lime	224	234
Sand	234	255
Slate	255	260
Sand	260	276
Coal	276	278
Slate and shell	278	298
Lime	298	409
Coal	409	410
Lime	410	425
Sand	425	472
Slate and shell	472	492
Coal	492	494
Lime	494	511
Sand	511	549

(RECORD INCOMPLETE)

CRFR 5555-5660
ORSK 5660±
TD 6117

500

5660	5555
1163	1163
<hr/> 4497	<hr/> 4392

Deep well