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Godfrey L. Cabot No. 1 (7818) Well.

Washington District, Calhoun County, W. Va.

By Hope Natural Gas Company, Clarksburg, W. Va.

Located 4.44, W. of 81°00', and 1.5 mi. S. of 38°45' -NE- Otter Quadrangle.

1.8 mi. N.E. of Minera on western branch of Big Rum.

Elevation 889' L.

Permit Cal-478

Drilling commenced, Oct. 12, 1958; completed, Nov. 17, 1958.

Fresh water at 20 feet; no salt water recorded.

10" casing, 127'; 82", 882'; 6 5/8", 1805'; all left in.

Casing not cemented. No coal was encountered.

Dry hole. Record from Smith, Dec. 20, 1938.

Record Based on Emmination of Samples.

Top	Bottom	Thickness	•
0	18	18	Sandstone, green, fine, containing much mica and chlorite;
			weathered mostly to brown clayey sand in top 7 feet
			(water at 20 feet)
18	25	7	Shale, red and yellow, soft
25	30	5	Siltstone, green; also some red, green and yellow shale
30	45	15	Shale, red, green and yellow, very soft, calcareous
45	98	43	Sandstone, green, very fine, almost as siltstone in
			upper part; contains bictite, muscovite, chlorite, pyrite,
			and in some samples spherulitic siderite; a little limestone
			(probably from nodules) in samples from 45 to 95 feet
98	109	11	Sandstone, light-green, fine, micaceous; similar to last
			but a little coarser and lighter colored
109	114	5	Limestehe, light-brown
114	124	10	Sandstone, light-green, pyritic, shaly
124	220	96	Clay and soft shale, red, calcareous; a little yellew
			shale and small limestone nodules in some samples;
			some green shale and siltstone from 200 to 205'
220	235	15	Sandstone, green, very fine, micaceous
235	240	5	Shale, red, soft, silty
240	245	5	Sandstone, green, fine, micaceous

Top	Bottom	Thickness	
245	255	10	Sandstone, green, fine, shaly, micaceous; with about
			equal amount of soft red shale
255	280	25	Shale, red, soft, calcareous
280	290	10	Siltstone, green
290	520	30	Sandstone, white with specks of green, coarse; crystal
			faces on some quartz grains
320	349	29	Clay, red and yellow, calcareous; a little green shale at bottom
349	384	35	Sandstone, light-green, medium- to fin-grained; with
			streaks of darker green siltstone
384	391	7	Limestone, light-gray to brownish, with large amount of
			red and green shale
391	405	14	Shale, red and green, soft; with gray limestone; similar
			to 384 to 391 but less limestone
405	419	14	Clay, red, calcareous
419	436	17	Siltatone, green, micaceous
436	490	54	Clay, red and yellow, calcareous; more red at top and
			more yellow toward bottom; contains small limestone nodules
490	511	21	Sandstone, very light greenish gray, medium-grained;
			contains, kaolin, muscovite, bietite and chlorite
511	537	26	Clay, light-gray and red
537	599	62	Shale, green, with large amount of green, micaceous
			siltatone and in upper half fine, green sandstone
599	700	101	Sandstone, very light-gray, medium-grained; from 599 to
			646 broken in large chips, below that mostly pounded
			finer; contains mica, chlorite, and kaclin
700	714	14	Shale, gray, containing siderite spherulites; with large
			amount of sandstone, probably from above
714	739	25	Shale, gray to green, very silty, micaceous contains
			brown siderite, partly as spherulites
789	756	17	Sandstone, light-gray, very fine, interbedded with gray
			shale; sendstone contains very small siderite spherulites
756	807	51	Sandstone, very light gray, with green and black specks,
			medium-grained; contains small amounts of mica, chlorite,
			kaelin and pyrite

Top	Bottom	Thickness	·
807	885	78	Sandstone, very light gray, medium- to coarse-grained;
			has some micaceous streaks finer and darker than the
			rest of the rock; not sharply separated from the sandstone
			either above or below
885	973	88	Sandstone, very light gray, medium grained; contains a
			little mica chlorite, kaolin and pyrite; there is a
			little seal in several samples but not enough to
			indicate presence of any important seam; between 938
			and 958 there are some streaks of dark-gray, silty,
			micaceous shale
973	988	15	Shale, gray
988	1120	132	Sandstone, light-gray, fine- to medium-grained; cantains
			muscovite, biotite, shlorite, pyrite, siderite, and
			kaelin; two samples (1040 to 1057) have about ten per
			cent of black shale and a little coal; drillers
			record shows black slate, 1045 to 1055
1120	1155	35	Shale, gray, with about an equal amount of sandstone,
			which is partly dark-gray and shaly and partly light-
			gray like the sandstone above
1158	1211	56	Shale, gray, very silty, micaceous; a large proportion
			of the fragments are coarse enough to be called siltstone;
			contains siderite, partly in spherulites
121	1235	24	Sandstone, gray, shaly, micaceous; the sandstone has a
			relatively low quarts content; it contains muscovite,
			biotite, chlorite, pyrite, siderite, kmolin and
			carbonaceous matter; samples also contain much dark-gray,
			silty shale
123	5 1307	72	Shale, dark-gray; with streaks of micaceous siltstone
			and very fine sandstone
1801	7 1365	58	Shale, dark-gray, silty, micaceous; with large amount of
			interbedded light-gray very fine sandstone
136	5 1397	32	Sandstone, gray, very fine shaly, micaceous; has dark-gray
			streaks of siltstone and silty shale
139	7 1453	36	Shale, dark-gray; with large amount of lighter gray
			siltatone containing siderite spherulites

Top B	ottom	Thickness	
1433	1495	60	Siltstone, light-and dark-gray in thin laminae; contains
			mica, chlorite, and siderite, the last partly in spherulites
1493	1517	24	Sandstone, lightpgray, very fine, micaceous, sideritio;
			differs only slightly from preceding in being of a
			slightly coarser texture and more uniformly light color
1517	1618	101	Shale, dark-gray, silty; siderite spherulites are
			abundant in fragments of shale that are lighter
			colored and finer textured than most
1618	1656	38	Sandstone, nearly white, with large propertion of quarts;
			coarse in lower part and medium-grained in upper part
			of interval; contains very small amounts of mica and kaolin
1656	1668	12	Sandstone, nearly white, fine with a few coarse grains
			Mauch Chunk Group, 105 feet.
1668	1673	5	Shale, gray and green, dolumitic
1673	1698	20	Shale, gray and green, calcareous; mostly smooth and
			fine textured, but some coarser and silty; a little red
			shale (most in sample 1675-1680), this is probably not
			cavings because there has been no red shale in many
			samples above this
1693	1710	17	Shale, grayish-green; with considerable amount of
			brownish-gray limestons
1710	1744	34	Limestone, brownish-gray, mostly very fine textured but
			contains some fossil shells which are more coarsely
			orystalline than the rest; also some gray to grayish-
			green shale, perhaps cavings (Little Lime)
1744	1768	24	Sandstone, white, very fine, slightly calcareous; a
			few colites in sandy limestone from 1744 to 1752; these
			are probably from about the contact of the sandstone
			with the overlying limestone
1768	1773	5	Shale, dark-gray, soft, fissile (Pencil Cave)
			Greenbrier Limestone, 163 feet.
1773	1782	10	Limestone, dark-gray
1783	1820	37	Limestone, light-brown (nearly neutral-gray when dry),
			mostly very fine textured
1820) 1832	2 12	Limestone, light-gray, slightly brownish, colitic and
			sandy; some of commerce sand grains are well rounded

Top	Bottom	Thickness	
1832	1844	12	Limestone, light-gray, slightly brownish, colitie
1844	1865	21	Sandstone, light-gray, slightly brownish, fine, highly
	 		calcareous; contains a few colites
1865	1896	30	Sendstone, very light-gray, medium-grained, highly
	्र क्री		calcareous; sand is poorly sorted with layger grains
			well rounded; contains a few colites
1895	1911	16	Limestone, light-gray, slightly yellowish or brownish,
			somewhat dolemitic; contains some sand like that in
			sandstone above
1911	1925	16	Limestone, brownish-gray, dolomitic, with very little sand
1915	1986	11	Limestone, brownish-gray, delomitie; contains a little
			more sand than the limestone above and a few indistinct
			colites but is otherwise similar; detrital material is
			poorly sorted and particles vary all the way from
			medium-grained sand to silt; larger sand grains well rounded
			Posono Formation (1), 152+ feet.
23.5	1940	4	Shale, red; varies from bright-red through grayish-red
			to gray
1940	2088	148	Shale and siltstone, gray to grayish-green, most samples
			slightly calcareous
	2088		Total depth

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