GODFREY L. CABOT, INC. #1115

C. E. Guinn #1

Richmond District, Raleigh County, W. Va. Located 3.27 Mi. S. of 37° 50' and 4.62 Mi. W.	CASING RECORD	
of 80° 50' - SC - Meadow Creek Quadrangle Elevation - 1294' L. Permit Ral-36 Drilling commenced - Sept. 14, 1943 Completed - April 19, 1944 Shot - April 24, 1944, at 6320 to 6340 with 40 Qt.	16" 13" 10" 8" 7"	22' 51' 737' 1944' 6205'
Volume - Before shot 15,000 Cu. Ft. 2 ¹ / ₂ Hrs. A/S - 21,000 Cu. Ft. Fresh water - 40'; Hole full; 60', Hole full; 440', Hole full		

Oriskany Sand acidized May 8, 1944. Gauge before acidizing - 15,000 Cu. Ft.; Gauge after acidizing 4,000 Cu. Ft.

Section based on samples from 779' to 3200', 3600' to 5287' and 5890' to 6395', examined by J. H. C. Martens. The Berea Sandstone could not be definitely identified.

Mauch Chunk Group 960 Feet (From surface)

RAC-36

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TOP	BOTTOM	THICKNESS	FORMATION
779	785	6	Shale and siltstone, gray, 90%; gray, partly colitic limestone, 10%; abundant
785	794	9	fragments of marine fossils Siltstone, gray, sandy, slightly calcareous
794	801	7	Shale, gray, fossiliferous, 60%; gray to brownish fossiliferous limestone, 40%
801	810	9	Limestone, dark-gray
810	878	68	Shale, dark-gray, with a few pyrite
	-		concretions
878	890	12	Limestone, gray, with many small specks of pyrite
890	904	זע	Shale, gray, highly calcareous and fossiliferous
904	919	15	Shale, gray to grayish-green, highly
919	944	25	calcareous and fossiliferous Limestone, gray and light-brown, highly fossiliferous, 80%; gray to greenish
944	960	16	shale, 20% Shale, dark-gray, highly calcareous
			Greenbrier Limestone 663 feet
960	968	8	Limestone, dark brownish gray
968	1004	36	Limestone, light-gray, 80%; green shaly limestone, 20%
1004	1014	10	Limestone, dark-brown
1014	1032	18	
•			Limestone, light-brown, with indistinct colites
1032	1063	21	Limestone, brown to gray, colitic
1063	1084	21	Limestone, brown, with some indistinct oolites
1084	1111	27	Limestone, brown to light-brown, partly oolitic
1111	1145	34	Limestone, brown
1145	1148	2	Limestone, gray, somewhat silty
111,8	1156	3	
		0	L'mestone, light-brown, solitic
1156	1192	36	Limestone, very light brown to light brown
1192	1200	8	Limestone, light-brown, also some gray and green limestone

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Greenbrier Limestone

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TOP	BOTTOM	THICKNESS	FORMATION
1200	1207	7	Limestone, light-brown, with some small colites
1207	1223	16	
1223	1281	58	Limestone, light brown
1281	1286		Limestone, brown
		5	Limestone, brown, slightly dolomitic
1286	1303	17	Limestone, brown, colitic
1303	1311	8	Limestone, brown and grayish-green, partly silty
1311	1319	8	Limestone, light-red
1 31 9	1327	8	Limestone, light-gray, very fine textured
1327	1352	25	Limestone, very light brown of light
1352	1 285	23	gray, with reddish spots
	1385	33	Limestone, light-brown and light-gray
1385	1395	10	Limestone, white and light-brown,
			colitic, partly dolomitic, contains
			some small transparent quarts crystals
			(gas 1390', 15,000 Cu. Ft., exhausted)
1395	1428	22	(Bas 1)/0 ; 1);000 ous ros; exhausted)
1428	1446	33	Limestone, light-brown
1420	тию	18	Limestone, light-brown, 90%; light-
- 1 1 4			green limestone, 10%
1446	1451	5	Limestone, light-brown
1451	1461	10	Limestone, very light brown, 85%; light
			green limestone, 10%; light-gray and
			orange chert, 5%
1461	1472	11	Limestone, brown
1472	1487	15	
24) C	1401	4.7	Limestone, very light brown with
			reddish specks, 80%; light-green lime-
			stone, 15%; light grey and orange chert,
-1	- 1		5%
1487	1492	5	Limestone, very light-brown, with a
			little light-gray chert
1492	1497	5	Limestone, light-gray, with a little
		-	gray chert
1497	1523	26	Limestone, gray to light-gray, very fine
			textured, dolomitic
1523	1532	9	Limestone, grayish-green, very fine
		,	textured, highly dolomitic
			Macerady Formation 52 Feet
		_	
1532	1548	16	Shale, red, dolomitic, 90%; white
			anhydrite, 10%; at least part of the
			anhydrite is actually enclosed in the
			shale rather than occurring in separate
			· ·
1548	1558	10	layers Shala mad dalaminida
		10	Shale, red, dolomitic
1558	1568	10	Shale, grayish-green, silty, 90%; red
7560	7 5 01	- /	shale, 10%
1568	1584	16	Siltstone, red and green, slightly
			dolomitic, containing a few grains of
			rather coarse sand
			Pocono Formation and
			Devonian Shales - 4614 feet
	n etc. e	_ 4	
1584	1599	15	Siltstone, gray, coarse
1599	1613	<u>1</u> 4	Siltstone, gray to grayish-green, 70%;
			dark gray, silty shale, 30%
1613	1623	10	Siltstone, light-gray
1623	1640	17	Siltstone, gray, shaly, 90%; dark-gray
		ato j	shale, 10%
1640	1646	6	
1646	1693	47	Siltstone, light-gray
+~ 4 ~	107 J	44 (Siltstone and shale, gray; most with
			siltstones fine and shaly
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Pocono Formation and Devonian Shales - 4614 feet

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TOP	BOTTON	THICKNESS	FORMATION
1693	1743	50	Siltstone, light-gray, 90% to 95%; very dark brownish gray shale, 10 to 5%; some of siltstone is slightly dolomitic
1743	1758	15	Siltstone, light-gray, with brown specks, dolomitic
1758	1783	25	Siltstone, gray, fine
1783	1792	9	Siltstone, light-gray, dolomitic, with a few coarse sand grains
1792	1811	19	Siltstone, gray to light gray, 80%; very dark gray shale, 20%
1811	1847	36	Shale and siltstone, gray; most of siltstone is fine and shaly; less siltstone toward bottom
1847	1890	43	Shale, dark-gray, partly silty
1890	1915	25	Sandstone, very light-gray; mostly fine, with a few coarser quarts grains; coating of white clayey material on many grains
1915	1925	10	Sandstone, nearly white, fine to very fine
1925	1931	6	Sandstone, light-gray, medium-grained, 80%; very dark gray shale, 20%
1931	1962	31	Shale, very dark gray, 70 to 80%; light- gray to greenish, very fine, sandstone, 30 to 20%
1962	1971	9	Shale, dark-gray, 60%; gray to greenish siltstone and very fine sandstone, 40%; a very little coal
1971	2006	35	Shale, dark-gray, 70%; light-gray and light-green siltstone and very fine sandstone, 30%
2006	2013	7	Siltstone, light gray, sandy, 60%; gray silty shale, 40%
2013	2022	9	Siltstone, light-gray, sandy
2022	2037	15	Sandstone, light gray, very fine, 60%; very dark gray shale, 40%
2037	5070	3	Sandstone, very light gray, fine, with a few coarser grains, 80%; very dark gray stickensided shale, 20%
2040	2070	30	Sandstone, light-gray, very fine, 70%; very dark gray shale, 30%, (one sample)
2070	2088	18	Shale, dark-gray, 60%; light-gray, sandy siltstone, 40%
2088	2142	54	Shale, gray to dark-gray, 60 to 80%; coarse, sandy silitatone, 40 to 20%
2142	2199	57	Siltstone, gray, shaly, with small amounts of darker gray, silty shale
2199	2230	31	Shale and siltstone, gray
2230	2246	16	Siltstone, dark-gray, shaly, with some silty shale
2246	2253	7	Siltstone, light-gray
2253	2282		Siltstone, gray to dark-gray, shaly
2282	2306	29 24	Shale, dark-gray, very silty
2306	2320	14	Shale, very dark gray
2320	2368	48	Shale, very dark gray, 50 to 60%; gray shale, 50 to 40%
2368	2410	42	Shale and shaly siltstone, gray
2410	2420	10	Siltstone, dark-gray and light-gray
2420	2449	29	Shale, gray, partly silty
21449	2514	65	Shale and siltstone, gray
2514	2526	12	Siltstone, gray and light-brown
2526	2562	36	Shale, gray, with small amount of gray siltstone
2562	2570	8	Siltstone, nearly white, coarse, slightly dolomitic
2570	2612	42	Shale and siltstone, gray
2612	2636	24	Shale, gray to dark-gray, partly silty

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Pocono Formation and Devonian Shales - 4614 Feet

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TOP	BOTTOM	THICKNESS	FORMATION
0626	0400	ام.	
2636	2690	54	Shale and siltstone, gray
2690	2761	71	Shale, gray, with small amount of gray
0767	000/	.	siltstone
2761	2796	35	Shale, gray, 70 to 80%; gray siltstone
2796	601 r	10	30 to 20%
2845	2845	49	Shale, gray, with a very little siltstone
2045	3035	190	Siltstone, light-gray. to white and light-
			green, 70 to 90%; darker gray shale, 30 to
3035	201.0	-	105
3042	3042	7	Siltstone, dark-gray
3089	3089 3145	47	Siltstone, gray to light-gray, fine
3145		56	Shale and siltstone, gray
	3167	22	Siltstone, light-gray to greenish
3167	3200	33	Siltstone, gray, with small amount of
3200	3600	100	gray shale ,
	-	100	No Sample
3600	3630	30	Shale, dark-gray, 50%; gray siltatone,
3630	2670	10	50%
3630	3670	40	Shale, dark-gray; a little nearly black
2670	2601	.	shale, and a little lighter gray siltstone
3670	3694	24	Siltstone, gray, shaly, 60%; gray to dark-
2601	202.0		gray shale, 40%
3694	3717	23	Shale, dark-gray to nearly black, with
977 7	2/2/27	- 1	small amount of lighter gray siltstone
3717	3731	14	Shale, dark-gray, 50%; gray-siltstone, 50%
3731	3761	30	Shale and fine siltstone, gray to dark
3763	2001	••	gray, 70%; black shale, 30%
3761	3794	33	Shale and fine siltstone, gray; some of
2701.	1001	10	shale is very dark
3794	3804	10	Shale and Siltstone, gray, 80%; very dark
3804	2020	* **	gray shale, 20%
5004	3939	135	Shale, gray, with small amounts of gray
39 3 9	3077	10	siltstone and very dark gray shale
3977	3977 4175	38	Shale, dark-gray to very dark gray
2711	41/5	198	Shale, gray to very dark gray, 70%; gray
և175	4287	112	shaly siltstone, 30%
4-17	4201	i.i.C	Shale, gray to very dark gray, with small
4287	4687	100	amount of gray siltstone
4687	4962	275	Shale and fine siltstone, gray
400 I	4702	217	Shale, dark-gray to very dark gray (only
4962	5007	45	three samples)
5007	5067	60	Shale, dark-gray
JUU			Shale, very dark gray to black; a little
5067	5147	80	yellow dolomite in small veins
	ا بندر	<u>v</u> v	Shale, dark-gray, 60%; very dark gray to
5147	5287	140	black shale, 40%
~	2 m V (Shale, very dark gray to black; small amount of lighter gray shale and siltstone
5287	5890	603	No Samples
5890	6107	217	
/-/-	0101	<u>د ۲</u>	Shale, very dark gray to black; a few
			fragments of vein calcite in several samples
6107	6171	64	No Samples
6171	6185	14	Shale, black, with white calcite veins
	- /	and the second sec	(Gas at 6171 ⁺)
6185	6198	13	Shale, very dark gray to black, highly
		-7	calcareous; may include some impure
			limestone
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
			Huntersville Chert
			75 Fest
			17 + 664
6198	6218	20	Chert, very dark gray, highly calcareous
	-		and slightly dolomitic

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## GODFREY L. CABOT, INC., #1115

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#### Huntersville Chert 75 Feet

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TOP	BOTTOM	THICKNESS	FORMATION
6218 6224	622Ц 62 <b>3</b> 5	6 11	Chert, dark-gray and white, calcareous Chert, dark-gray, calcareous and silty; contains a little glauconite; also small amount of rather pure light gray chart
62 <b>3</b> 5	6250	15	Chert, dark-gray, very silty; contains some dolomite and glauconite
6250 6259	6259 627 <b>3</b>	9 14	Chert, dark-gray, slightly calcareous Chert, gray, calcareous
			Oriskany Sandstone 66 Feet
6273 6278	6278 6 <b>29</b> 7	5 19	Sandstone, light-gray, fine, calcareous Sandstone, gray, fine, highly calcareous and fossiliferous
6297 6307	6307 6339	10 32	Limestone, light-gray, sandy, fossiliferous Sandstone, very light gray, fine, highly calcareous, fossiliferous
			Helderburg Group 55 Feet
6339	6352	13	Limestone, gray, fossiliferous, cherty
6352	6383	31	Sandstone, very light gray, fine to very
6383	6390	7	Limestone, gray, s m dy, fossiliferous, slightly cherty
6390	<b>639</b> 5	5	Limestone, gray, slightly cherty
	6397'		TOTAL DEPTH