1-7036 RAG-28

## Beaver Coal Co. No. 15 (1091) Well

Slab Fork District, Raleigh County, N. Va.

By Godfrey L. Cabet, Inc., Charleston, W. Va.

Located 4.97 mi. S. of 37°45° and 3.00 mi. W. of 81°15° - HE - Mullems Quadrangle.

Elevation 1950.76° L. (2105 in record after completion)

Permit Ral-B

Drilling commenced March 16, 1943; completed June 23, 1943.

Gas well; \$9,000 ou. ft.

Fresh water, 0-160°, 3 bailers in 2 hours; 268°, held full.

104" casing, 224'; 8 5/8", 525'; 7", 2255'; 2" tubing, 2086'.

Section based on samples from 220 to 3525, examined by J.H.C. Martens. A gap in the samples from 2211 to \$677° makes the location of the top of the Greenbrier Limestone very uncertain. Several small gaps in the samples do not affect the placing of formation boundaries. There do es not appear to be any Berea Sandstone but the Berea Harison is tentatively located at \$579° in the assumption that a very dark shale just above this is the Sambury.

## Postsville Formation, 400+ feet

Top	Betten	Thiekm	oes .
220	251	81	Sandstone, white, fine
251	255	4	Shale, dark-gray
255	268	18	Siltatone, dark-gray, shaly
268	276	8	Sandstone, gray, very fine
276	280	4	Sandstone, light-gray, very fine, 70%; black shale
			and coal, 30%
280	284	4	Coal, 40%; very fine, light-gray sendstone, 60%
284	294	10	Siltstone and silty shale, gray
294	301	7	Conl
301	307	6	Shale, dark-gray, very silty, 50%; lighter gray silt-
			stems, 50%
307	314	7	Sandstone, nearly white, very fine, 60%; gray shale
		•	and siltstone, 40%
314	321	7	Shale and siltstone, dark-gray
321	325	4	Shale, darb-gray to black, silty, 50%; fine, light-gray

mandatone, 80%

Top	Bottom	Thickness	
325	331	6	Sandstone, white, fine
351	387	6	Sandstone, light-brown, medium-grained, 90%; coal, 10%
337	<b>3</b> 88	51	Sandstone, light-gray to brownish, medium-grained
388	394	5	Shale and siltstone, dark-gray, 80% fine gray sand-
			stone, 20%
394	400	6	Shale, very dark-gray, silty
			Mauch Chunk Group, 1802 feet
. 400	407	7	Shale, nearly white, soft, with many yellow siderite
			spherulites, 70%; dark-gray to black shale, 25%; soal
			5% (the soul and black shale are probably basal
			Pottsville)
407	418	6	Shale, light-gray, with abundant yellow siderite
			spherulites; also a little white siltstone with
			siderite spherulites
413 .	421	8	Shale, light-grayish green, sity and micassous, with
			many siderite spherulites
421	434	13	Shale, light-green, soft
484	438	4	Ho sample
438	444	6	Shale, mostly green, also small emmunts of gray,
			brown and red shale
444	454	<b>1</b> 0	Shale, green and red, 80%; sandstone, light-green,
			very fine, 20%
454	460	6	Shale, grayish-red, calcareous
460	470	10	"Redrock" (no sample)
470	481	11	Shale, red, 80%; light-green siltstens, 20%
481	509	28	Siltstone, green, calcareous
509	<b>52</b> 8	19	Siltatone, gray, fine, slightly calcareous
528	<b>53</b> 8	10	Shale, gray, silty
<b>53</b> 8	547	9	Siltstone, green and gray, 60% red silty shale, 40%
547	565	8	Siltstone, light-green, calcareous
555	563	8	Shale, red
563	571	8	Sandstone, light-gray
571	580	S	Shale, red
580	591	11	Siltatone, light-green, calcareous, 60%; red shale, 40%

Top	Bottom	Thicknes	
591	601	10	Sandstone, gray, very fine
601	611	10	Siltstone and silty shale, grayish-green, 70%
			red shale, 30%
611	620	9	Siltstone, gray
620	626	6	No sample
626	6 <b>32</b>	8	Sandstone, white, medium-grained (sample out of place?)
631	841	10	Shale, red, 70%; light-gray shale and miltstone, 30%
661	6 <b>53</b>	12	Sandstone, white, fine; also a little red and gray
			shale
653	864	11	Sandstone, light-gray, fine, 60%; red and green
			shale, 40%
664	67 <b>5</b>	n	Siltstone and silty shale, gray
675	635	10	Shalo, gray, silty
685	6 <b>94</b>	9	Siltstone, and shale, gray
694	744	50	Sandstone, white, fine to medium-grained
744	754	10	Chair, very dark gray, pyritic, 80%; gray siltstone,
			40%
754	768	9	Shale, dark-gray to black, with a trace of coal,
			60%; gray siltstone, 40%
763	770	7	Shale, red, calcareous
770	780	10	No sample
780	789	9	Sandstone, white, very fine
789	923	134	Shale, dark-gray, mostly silty
923	973	<b>5</b> 0	Shale, dark-gray to very dark gray; not sharply
			separated from the shale above but mostly finer and
			more distinctly laminated
973	985	10	Siltstone, gray
983	1014	27	Sandstone, white, medium-grained
1014	1020	6	Siltstone, gray, 60%; white, medium-grained sandstone,
			40%
1020	1054	34	Sandstone, white, medium-grained, 30%; gray miltatone,
			1042-1049*
1054	1059	5	No sample
1059	1067	8	Sandstone, white, medium-grained, 50%; grayish-
			green shale, 50%

Top	Bottem	Thiekness	
1067	1099	32	Shale, gray
1099	1105	4	Shale, gray, fosciliferous, 60%; gray limestone,
		•	40%
1103	1149	46	Limestone, gray, shaly, fossiliferous, insoluble
			residue is so large that much of this might also
		•	be called calcareous shale
1149	1279	180	Shale, red; some calcareous material throughout
1279	1291	12	Shale and siltstone, gray
1291	1348	<b>57</b>	Shale, red, slightly calearsous
1348	1391	48	Siltatone, rad, sandy, calcareous
1391	1402	11	Shale and siltstone, gray
1402	1414	12	Siltetone, gray
1414	1424	10	Shale, red, 50%; gray siltatone, 50%
1424	1436	12	Shale, grayish-red
1436	1466	<b>\$</b> 0	Dolomite, light-gray, very fine textured and shaly;
			small amount of white anhydrite, 1445-1466
1466	1492	26	Shale, gray with some red, partly dolemitie
1492	1500	8	Sandstone, white, very fine
1500	1527	27	Siltstone, gray
1527	1534	7	Sandstone, white, very fine
1534	1547	13	Limestons, dark-gray, shaly, 60%; gray shale and
			siltatone, 40%
1547	1567	20	Shale, dark-gray, calcareous
1567	1589	. 22	Shale, red and gray, dolumitie
1589	1611	22	Siltstone, light-ged
1611	1672	61	Shale, red, partly dolumitie
1672	1681	9	Shale and siltstone, gray; also much red shale;
			sample may be mostly cavings
1681	1766	8 <b>5</b>	Shale, red
1766	1805	39	Shale, black, silty, pyritic
1005	1815	10	Chale, and siltstone, gray
1815	1857	42	Sandstone, white, very fine
1857	1897	40	Shale, greenish-gray, delomitie
1897	1907	16	Limestone, dark-gray

Top	Bottom	Thickness	
1907	1946	39	Siltstone and silty shale, dark-gray
1948	1961	1.5	Siltstone and shale, very dark-gray, 60% white,
			very fine sandstone, 40%
1961	1972	11	No sample
1972	2000	28	Sandstone, white, very fine, 70%; shale of various
			kinds, 30,
2000	2040	40	Sandstone, white, very fine
2040	2060	20	Shale, dark-gray, to black, calcareous and pyritic
			(gas, 2042-2046')
2060	2139	79	Limestone, darkegray to black, shaly and fessiliferous
2139	2143	4	Shale, gray, fossiliferous, 70%; gray limestone, 30%
2343	2168	25	Limestone, brownish-gray with nearly white spots,
			fossiliferous
2168	2183	15	Shale, gray with a little limestone
2183	2202	19	Shale, gray, 60 to 70%; gray fassiliferous limestone,
			40 to 30%
			Greenbrier Limestone, 482 feet
2202	2211	\$	Limestone, light grayish yellow, 60%; gray, thinly
			laminated, fossiliferous shale, 40%
2211	2577	366	No sample
2577	2611	34	Limestone, very light brown with a few colites
2611	2627	16	Limestone, light brownish gray
2627	2647	20	Limestone, very light brown to nearly white, delomitie
2647	2684	37	Limestone, very light gray, very fine textured, highly
			dolamitio, a little anhydrite, 2677-2684*
			Macerady Fernation, 55 foot
2664	2707	23	Shale, red, containing a small amount of white anhydrite
2701	2724	17	Siltetone, gray
2724	2737	13	Siltstone, grayish-green, 50%; dark-red, highly
			dolomitie siltstone, 50%; a few fragments are
			mostly delemite with some anhydrite and red
			hematite

## Pecono Fernation, 642 feet

Tep	Bottem	Thickness	
2737	2858	101	Siltstone, gray; most samples contain a little very
			dark gray silty shale
2838	2896	<b>6</b> 0	Siltstone, gray
2896	2911	18	Siltetone, dark-gray, fine and shaly
2911	2921	10	Siltstene, gray
2921	293]	10	Sandatone, gray, very fine
2931	2949	18	Sandstone, gray, very fine, with a few coarse grains
2949	2954	5	Sandstone, gray to dark-gray, fine; also a little
			gray shale and siltstone
2954	2984	30	Sandstons, white with some rust stains; medium-
			grained
2984	3020	36	Sendstone, very light gray, fine - to medium-grained
3020	3169	149	Shale, dark-gray; about 5% of very fine pyritic
			sandstone, 5159-5169*
3169	3178	4	No sample
3173	3187	14	Shale, dark-gray
3187	8280	68	Siltstone, light-gray, partly sandy, 60 to 70%
			dark gray shale, 40 to 80%
3250	3298	48	Shale, dark-gray, partly silty, 50 to 60%; gray fine
			siltstone, 50 to 40%
5296	2278	20	Shale, dark-gray, with small amount of siltstone
8518	3348	30	Shale and siltatone, gray; most of the shale is dark
			to very dark
8848	. 3379	31	Shale, very dark gray (Sunbury Shale)
			Devenian Shales, 166+ feet
3379	3418	39	Shale and siltstone, gray
3418	8478	55	Siltstone, gray to light-gray, with small emounts of
			shale
8473	3487	14	Shale and siltstohe, gray
3487	3525	38	Siltstone, gray, with small amount of darker gray
			shalo
	3525		Total depth (SLM)