

Latitude

38 2730

81 3230

Longitude

→ 0625
75' loc
Kla 7/20/1999

2.115

0.870

Topo Location

7.5' Loc. _____ 15' Loc. 4.995
_____ (calc.) 3.130

Company _____

Farm _____

15' Quad Abbeyston NE
(sec.) _____

7.5' Quad Big Chimney

District _____

WELL LOCATION PLAT

County 039 Permit 205

Samples
3 E
432-6074'

KAN-205

M. M. ROBERTSON ET AL. NO. 1 WELL (GW-346).

Elk District, Kanawha County, W. Va.

By Columbian Carbon Co., Charleston, W. Va.

0.81 mi. N. of 38° 25' and 1.4 mi. E. of 81° 35' - NE - Charleston Quadrangle.

Elevation, 902.2' L.

Permit, Kan-205.

Completed in 1936.

13" casing, 23' 4"; 10", 426' (pulled); 8 1/4", 1776' (pulled); 6 5/8", 4920' (pulled).

Coal was encountered at 457-460'.

Record on pp. 219-220 of Deep-Well Records Report, 1936. Description of samples below top of Huntersville Chert on pp. 191-193 of Vol. XI.

Samples start at a depth of 432 feet. The top of the well is in the lower part of the Conemaugh but the record is not detailed enough to locate either the base of the Conemaugh or the base of the Allegheny Formation. The top of the Mauch Chunk as placed at 1476 feet on the basis of a change in texture of the sandstone is very uncertainly located. It may be at 1515 feet, making the thickness of the Mauch Chunk 43 instead of 82 feet.

Top. Bottom. Thickness.

Top.	Bottom.	Thickness.	
0	- 20	20	Clay, red
20	- 25	5	Clay, yellow
25	- 60	35	Red rock
60	- 72	12	Sand
72	- 246	174	Slate
246	- 252	6	Sand
252	- 257	5	Slate
257	- 267	10	Sand
267	- 290	23	Slate
290	- 308	18	Sand
308	- 312	4	Slate
312	- 330	18	Sand
330	- 378	48	Slate
378	- 397	19	Sand
397	- 412	15	Slate
412	- 457	45	Sandstone, nearly white, medium-grained; moderately calcareous, 439-457'
457	- 460	3	Coal
460	- 466	6	Shale, black, silty
466	- 475	9	Shale, brownish-gray, silty
475	- 485	10	Shale, gray, soft; some siderite concretions
485	- 500	15	Siltstone, gray, shaly, micaceous
500	- 552	52	Sandstone, very light gray, medium-grained; contains mica, chlorite, siderite, and carbonaceous matter
552	- 564	12	Shale, gray
564	- 573	9	Sandstone, light-gray, fine, 70%; gray siltstone, 30%; very little coal
573	- 580	7	Shale, gray, soft
580	- 596	16	Siltstone, dark-gray, shaly, micaceous
596	- 644	48	Sandstone, light-gray, fine, slightly calcareous; contains mica, chlorite, and siderite
644	- 654	10	Siltstone, gray, shaly, micaceous
654	- 710	56	Sandstone, nearly white, fine- to medium-grained; contains mica, chlorite, kaolin, and siderite
710	- 760	50	Shale, dark-gray
760	- 787	27	Siltstone, gray, shaly, micaceous
787	- 794	7	Shale and siltstone, gray, 80%; coal, 20%
794	- 800	6	Shale and siltstone, gray
800	- 825	25	Sandstone, nearly white, medium-grained
825	- 835	10	Shale, dark-gray, silty

(E) (M)

5763
902
- 4861

M. M. ROBERTSON NO. 1 (GW-436) WELL (Continued).

Top.	Bottom.	Thickness.	
835	- 875	40	Sandstone, nearly white, medium-grained; contains small amounts of mica, chlorite, kaolin, and siderite
875	- 885	10	Siltstone, gray, shaly
885	- 903	18	Sandstone, white, fine
903	- 1044	141	Sandstone, white, medium-grained, nearly all quartz; mostly broken up into individual grains; many grains have crystal faces
1044	- 1157	113	Sandstone, white, mostly coarse-, some medium-grained; nearly all quartz with crystal faces on many grains
1157	- 1250	93	Sandstone, white, same as above but mostly medium-grained with only a little coarse
1250	- 1270	20	Shale and siltstone, dark-gray; thin coal near top of interval
1270	- 1298	28	Sandstone, light-gray, fine; also some gray shale and siltstone and a little coal
1298	- 1337	39	Sandstone, white, fine, nearly all quartz; mostly broken up into individual grains
1337	- 1430	93	Sandstone, white, medium- to coarse-grained, nearly all quartz; crystal faces on many grains
1430	- 1476	46	Sandstone, nearly white, very coarse; a little coal, 1430-1444'
MAUCH CHUNK GROUP, 82 FEET			
1476	- 1515	39	Sandstone, white, medium-grained, nearly all quartz; crystal faces on many grains; all broken up small
1515	- 1540	25	Limestone, dark-brown, fossiliferous ("Little Lime")
1540	- 1547	7	Shale, gray and green, soft
1547	- 1552	5	Limestone, brown
1552	- 1558	6	Shale, gray and green, soft ("Pencil Cave"; the top and bottom of this shale and the similar shale from 1540 to 1547' are from the driller's record)
GREENBRIER LIMESTONE, 142 FEET			
1558	- 1602	44	Limestone, light-brown to very light brown
1602	- 1635	33	Limestone, nearly white to light-brown, oolitic
1635	- 1672	37	Limestone, very light brown, sandy, oolitic
1672	- 1700	28	Limestone, nearly white, dolomitic
POCONOM FORMATION, 467 FEET			
1700	- 1757	57	Sandstone, light greenish gray, fine; contains some coarse grains near top; drill cuttings broken very small
1757	- 1785	28	Siltstone, gray, shaly
1785	- 1815	30	Sandstone, light-gray, very fine
1815	- 1819	4	Shale, dark-gray, very silty
1819	- 1844	25	Sandstone, light-gray, very fine, 80 to 60%; darker gray shale and siltstone, 20 to 40%
1844	- 1859	15	Shale and siltstone, gray
1859	- 1886	27	Sandstone, light-gray, very fine
1886	- 1982	96	Shale, dark-gray; very silty toward bottom
1982	- 2065	83	Siltstone and shale, gray
2065	- 2075	10	Shale, gray
2075	- 2150	75	Shale and siltstone, gray
2150	- 2166	16	Shale, very dark gray (Sunbury Shale)
2166	- 2167	1	Sandstone, nearly white, fine, pyritic (thickness estimated from relative amount in sample)
DEVONIAN SHALES, ETC., 2735 FEET			
2167	- 2236	69	Siltstone, gray to grayish-green, shaly; coarser toward bottom and includes some very fine sandstone
2236	- 4906	2670	Samples from this interval not examined
	4906		Top of Huntersville Chert
	6074		Total depth
5010	- 5068		Oriskany ss
5763	- 5790		Newburg sand
6074	- 6081		base of ss

16, p. 333
11, p. 191
7, p. 219

Oriskany ss
Newburg sand
base of ss

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. KAN-205

COPY

Oil or Gas Well Dry
(KIND)

Company Columbian Carbon Company
Address Charleston, West Virginia
Farm M. M. Robertson et al Acres 237
Location (waters) Chapp Branch
Well No. 1 (GW-346) Elev. 902.2'
District Elk County Kanawha
The surface of tract is owned in fee by M. M. Robertson et al
Address Charleston, W. Va.
Mineral rights are owned by M.M. Robertson et al
Address Charleston, W. Va.
Drilling commenced.....
Drilling completed.....
Date shot..... Depth of shot.....
Open Flow /10ths Water in..... Inch
/10ths Merc. in..... Inch
Volume..... Cu. Ft.
Rock Pressure..... lbs..... hrs.
Oil..... bbls., 1st 24 hrs.
Fresh water..... feet..... feet
Salt water..... feet..... feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16.			Kind of Packer.....
13.	<u>23 1/4"</u>		
10.	<u>426'</u>		Size of.....
8 1/4	<u>1776'</u>		
6 3/8	<u>4920'</u>		Depth set.....
5 3/16			
3.			Perf. top.....
2.			Perf. bottom.....
Liners Used			Perf. top.....
			Perf. bottom.....

CASING CEMENTED..... SIZE..... No. Ft..... Date.....
COAL WAS ENCOUNTERED AT 457' FEET 36" INCHES
..... FEET..... INCHES..... FEET..... INCHES
..... FEET..... INCHES..... FEET..... INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	Red		0	20			
Clay	Yellow		20	25			
Red Rock			25	60			
Sand			60	72			
Slate			72	246			
Sand			246	252			
Slate			252	257			
Sand			257	267			
Slate			267	290			
Sand			290	308			
Slate			308	312			
Sand			312	330			
Slate			330	378			
Sand			378	397			
Slate			397	412			
Sand			412	457			
Coal			457	460			
Slate			460	505	Fresh Water	510'	
Sand			505	552			
Slate			552	596			
Sand			596	644			
Slate			644	649			
Sand			649	710			
Slate			710	770			
Line			770	792			
Slate			792	800			
Sand			800	834			
Slate			834	840			
Sand			840	875			
Slate			875	898			
Salt Sand			898	1250	Gas	909'	(Show)
Slate			1250	1270	Oil	935'	(Show)
Maxton			1270	1518	Salt Water	968'	
Little Lime			1518	1540			
Pencil Cave			1540	1547	Salt Water	1044'	
Lime Shells			1547	1552	Salt Water	1052'	
Pencil Cave			1552	1558			
Big Lime			1558	1707			
Big Injun			1707	1720			
Lime			1720	1785			
Squaw			1785	1815	Gas	1795'	

Big Chimney quad

(Over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime	Black		1815	1886			
Slate			1886	2140			
Lime Shells			2140	2150			
Shale	Brown		2150	2166			
Berea			2166	2176			
Slate & Shells			2176	2850			
Slate			2850	3035			
Slate & Shells			3035	3790	Gas 3150'		
Shale	White		3790	3875	Gas 3395		
Slate			3875	3906	Gas 3850		
Shale	Dark		3906	4003			
Slate & Shells			4003	4125			
Slate	White		4125	4508			
Shale	Dark		4508	4772			
Slate	White		4772	4839			
Shale	Brown		4839	4906			
Corniferous			4906	5010			
Oriskany			5010	5068	Gas 5030-5082'		
Lime Hld.	Black		5068	5130			
Lime	Grey		5130	5288			
Lime	Black		5288	5660	(Sulphur Gas 5248')		
Lime } Salina			5660	5763			
Sand - Will.			5763	5790			
Lime - u. mck			5790	5938	Gas 5625-5627'		
Sand - m. mck			5938	5938			
Lime - L. mck			5938	6034			
Sand Kefer.			6034	6065			
Slate - Row Hill			6065	6071	Water 5625-25'		
Red Rock			6071	6074			
Total Depth				6074'			

$$\begin{array}{r} 4906 \\ 902 \\ \hline 4004 \end{array}$$

$$\begin{array}{r} 5010 \\ 902 \\ \hline 4108 \end{array}$$

5288
 5248
 5763
 5625
 5627
 6034
 5938
 5938
 240

Date....., 194.....

APPROVED....., Owner

By.....

(Title)

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

PRELIMINARY DATA SHEET NO. 1

File No. KAN-205

Well No. 1

Columbian Carbon Company of Charleston, W. Va.

drilling on the M. M. Robertson et al Farm

containing 237 acres. Location Chapp Branch

Elk District, in Kanawha County, West Virginia

The surface of the above tract is owned in fee by M. M. Robertson, et al of Charleston, W. Va. address, and the mineral rights are owned by M. M. Robertson, et al National Bank of Commerce Bldg. c/o M. M. Robertson of Charleston, W. Va.

The oil and gas privileges are held under lease by the above named company, and this well is drilled under permit No. KAN - 205 issued by the West Virginia Department of Mines, Oil and Gas Division December 18 1936.

Elevation of surface at top of well, 902.2 Spirit Barometric.

The number of feet of the different sized casings used in the well.

_____ feet _____ size. Wood conductor.

23' 4" feet 13" size, csg. _____ feet _____ sized csg.

426' feet 10" size, csg. _____ feet _____ sized csg.

1776' 8" feet 8-5/8" O.D. size, csg. _____ feet _____ sized csg.

_____ packer of _____ size, set at _____

_____ packer of _____ size, set at _____

_____, in casing perforated at _____ feet to _____ feet.

_____, in casing perforated at _____ feet to _____ feet.

Coal was encountered at 457 feet, thick ness 36 inches, and at _____

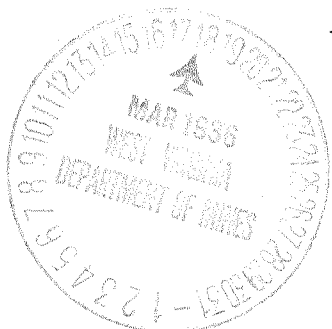
feet; thickness _____ inches; and at _____ feet; thickness _____ inches.

Liners were used as follows: (Give details) _____

March 17, 1936 Date.

Approved COLUMBIAN CARBON COMPANY, Owner.

By R. C. Lafferty (TITLE) R. C. Lafferty District Geologist.



Deep Well