



005-410 - 7.50665 topo 102 15' 102
 38°07'30" 0.70 S 3.58 S
 81°37'30" 0.90 W 3.17 W

3.93 S } 3
 3.31 W }
 3.50 S }
 3.04 W } 4

Company	Columbian Carbon Co.
Address	Box 1240, Charleston, W. Va.
Farm	R. H. Wood et al
Tract Acres	825 Lease No. C-168
Well (Farm) No.	3 & 4 Serial No. CW-280
Elevation (Spirit Level)	1517 & 1376
Quadrangle	Peytona - C
County	Boone District Sherman
Engineer	James N. Sell
Engineer's Registration No.	772
File No.	Drawing No.
Date	April 21, 1958 Scale 1"=1320'

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 File No. Boo-409+410-D

D
 Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

409 6-6 239 ✓
 410 6-6 239 ✓

Denotes one inch spaces on border line of original tracing.

Southern ON 410. J-4 (Mile Ga) 5258-5422' Done Wells

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION

WELL RECORD

Permit No. Boo-410

Gas Well

Peytona S. W. Quad.

CASING & TUBING

Company	Columbian Carbon Co.	2-3/8	2142'0"	2142'0"
Address	Box 1240, Charleston, W. Va.	2"	4.6# 2697'11"	2697'11"
Farm	R. H. Wood et al Acres 825	No packer used.		
Location	Indian Creek	COAL ENCOUNTERED		
Well No.	4 (GW-285) Elev. 1376.0	Feet	Inches	
District	Sherman County Boone	390	36	
Surface & Mineral	L. W. Wood, Charlottesville, Va.	3,60 S.		
DRILLING DEEPER		3,04 W.		
Commenced	5-9-38 - Completed 6-23-38	5 C (K-S)		
Date shot	Not shot			
Volume	67,392 c. f.			
Rock Pressure	185 lbs. 24 hrs.			

Formation	Color	Hor S	TOP	Base	Result	Formation	Color	Hor S	TOP	Base	Result
Soil			0	14		DRILLED DEEPER					
Sand			14	147		Slate & Shells			2763	2792	
Slate			147	177		Lime Shells			2792	2800	
Sand			177	239		Slate & Shells			2800	2845	
Slate			239	283		White Slate			2845	2870	
Sand			283	390		Slate & Shells			2870	3415	
Coal 943			390	393		Blue Shale			3415	3423	
Slate & Shells			393	615		Slate & Shells			3423	3906	
Lime			615	664		Hard Lime			3906	3929	
Slate			664	705		Shale			3929	3937	
Sand			705	765		Brown Shale - 441			3937	4017	
Slate			765	785		Hard Lime			4017	4036	
Sand			785	858		Hard Shale			4036	4128	
Slate			858	939		Shale & Shells			4128	4250	
Lime			939	969		Shale			4250	4530	
Sand			969	1135		White Slate			4530	4670	
Lime			1135	1150		Black Shale			4670	4823	
Sand			1150	1192		NEW TOTAL DEPTH				4823	
Slate & Shells			1192	1307							
Sand			1307	1595							
Lime			1595	1610							
Sand			1610	1810		Gas pay			3365-3375		
Red Rock			1810	1815		" "			3464-3485		
Lime			1815	1844		" "			3739-3748		
Maxton Sand ok			1844	1961		" "			3755-3762		
Lime			1961	1997		" "			3963-3969		
Slate			1997	2006		" "			3985-3990		
Shell			2006	2011		" "			4074-4076		
Pencil Cave			2011	2013		" "			4385-4394		
Lime			2013	2026							
Slate			2026	2028							
Correction by Steel Line Meas.			2028	2040							
Big Lime			2040	2242							
Injun Sand			2242	2310							
Slate & Shells			2310	2687							
Lime Shell			2687	2699							
Slate			2699	2718							
Brown Shale			2718	2729							
Berea			2729	2742							
Lime			2742	2763							
OLD TOTAL DEPTH				2763							

410D
3,60 S
3,04 W

Deep Well Geology

WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION

WELL RECORD

Permit No. Boo-410-D

Gas Well

Peytona Quad.

CASING & TUBING

Company	Columbian Carbon Co.	2-3/8 5486-7 5486-7
Address	Box 1240, Charleston, W. Va.	
Farm	R. H. Wood, et al ACRES 852	PACKER:
Location	Indian Creek	2x6-5/8" 5' O.W.S.
Well No.	4 (GW-285) ELEV. 1376.0	Anchor & Wall
District	Sherman County Boone	Depth set - 2289
Surface & Min.	L. W. Wood, et al, Charlottesville, Va.	
DRILLING DEEPER:		
Commenced	9/23/38	
Completed	10/12/38	
Shot	-	
Open Flow	-	
Volume	73,000 c. f.	
Rock Pressure	165 lbs. 14 hrs.	
Water	-	

Formation Color ^{HAR} TOP Base Result Formation Color ^{HAR} TOP Base Result

Original Total Depth of well	2763'	in Lime					
Deepened	5/9/38 - 6/23/38	to 4823'	in Black Shale				
<u>DEEPENED THRU ORISKANY:</u>				<i>Geolog Depth</i>			
Black Shale	4823	4937		ONDG-5280			
Lime Shell	4937	4962		ORSK-5384			
Brown Shale	4962	5317	SLM	HDBG-5417			
Corniferous	5317	5407	SLM also per sample examination				
Oriskany Sand	5407	5417	" "				Dry in Orisk.
Black Lime	5417	5444					
NEW TOTAL DEPTH	<u>485</u>	5444	Shale pay 4841-4851	5001-5010			

(Steel Line run at 5323' derrick line measurement = 5359 SLM)
 (No correction made in log above top Corniferous lime)

410 D+D
 3.60 S
 3.04 W

Samples J-4 (Mile Cr.) 5258-5422' Deep Well

R. H. WOOD NO. 4 WELL.
 7-410 + 410-D

Sherman District, Boone County, W. Va.

By Columbian Carbon Co., Box 1240, Charleston, W. Va.

Located 3.0 mi. W. of 81° 35' and 3.6 mi. S. of 38° 10' - C - Peytona Quadrangle
 1 mi. N. W. of Seth.

Elevation, 1376' L.

Completed October 12, 1938.

Small gas well in shales; dry in Oriskany.

Record by Martens from sample examination July 27, 1946.

Top.	Bottom.	Thickness.	
2718	- 2729	11	Shale, brown (from driller's record)
2729	- 2742	13	Berea Sand (from driller's record)
			DEVONIAN SHALES, 2575 FEET. 2575 FEET.
2742	- 5317	2575	Samples not examined
			HUNTERSVILLE CHERT, 90 FEET.
5317	- 5323	6	Limestone, gray and brown, cherty; with a few pieces of brown rock containing pyrite and biotite
5323	- 5356	33	Chert and cherty limestone, gray to brownish
5356	- 5384	28	Chert, gray, highly calcareous, with varying amounts of calcareous and cherty, glauconitic siltstone; many small rhombs of dolomite; clear secondary quartz crystals in cavities in chert from 5371 to 5379'; some samples may be predominantly limestone rather than chert
5384	- 5389	5	Sandstone, brownish-gray, fine, calcareous, partly cherty; contains small amount of dolomite, glauconite and pyrite; larger quartz grains are rounded
5389	- 5391	2	Chert, gray, highly calcareous, silty, containing a little glauconite and dolomite
5391	- 5404	13	Siltstone, gray to dark-gray, cherty, calcareous, glauconitic, with some dolomite and pyrite; texture of detrital quartz is almost coarse enough to make the rock a sandstone
5404	- 5406	2	Chert, dark-gray, silty, dolomitic, glauconitic, pyritic contains little or no calcite
5406	- 5407	1	Sandstone, dark-gray, glauconitic, somewhat calcareous, and partly cherty; mostly fine to very fine, but there are some larger rounded quartz grains, probably derived from the underlying sandstone
			ORISKANY SANDSTONE, 10 FEET.
5407	- 5417	10	Sandstone, gray, calcareous, medium- to fine-grained; larger grains rounded
			HEIDERBERG LIMESTONE, 27+ FEET.
5417	- 5422	5	Limestone, gray, crystalline, with much gray chert
	5444		Total depth

5317 5'
 1376

 3941

410 D+D