



- New Location
- Drill Deeper
- Abandonment

Company United Carbon Company  
 Address Charleston, W. Va.  
 Farm Cotiga Development Co.  
 Tract Pt. #21 Acres 10,268.6 Lease No. 4088  
 Well (Farm) No. 4 Serial No. 1144  
 Elevation (Spirit Level) 1091.8'  
 Quadrangle Holden (S.W.)  
 County Mingo District Hardee  
 Engineer E.G. Withrow  
 Engineer's Registration No. \_\_\_\_\_  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Sept. 17, 1943 Scale 1" = 320'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. MIN-75

- + 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.
- Denotes one inch spaces on border line of original tracing.

65-6-274 (368) Deep well

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
W E L L R E C O R D

Gas Well  
CASING & TUBING

Permit No. Min 75  
Holden S.W. Quad.  
Company  
Address  
Farm  
Location  
Well No  
District  
Surface

United Carbon Company  
Box 1913, Charleston 27, W.Va.  
Cotiga Development Co. A-10, 268.6  
Bubby Branch of Laurel Ck. 13 28'5 Same  
4-Ser. # 1144 Elev. 1091.85 8 1/2 630 "  
Hardee Mingo County 7 OD 2057' "

Mineral  
Commenced  
Completed  
Date shot

Same  
Nov. 2, 1943 Coal at 57' 24";  
March 4, 1944 150' 48"; 500' 60"  
3-14-44 Depth 2940 to 2980' 665' 36"  
with 267# 80% Hi Velocity DuPont Gel. \*

Open flow  
Volume  
Rock Pressure  
Fresh Water  
Salt Water

35/10ths W in 1"  
62,360 C.F.  
515 lbs. --hrs.  
150'  
500' & 1255'; 1305' H.F.

Sand	Stony	0	28	Coffee Shale	2852	2872
Sand		28	40	Berea Grit	2872	2950
Slate		40	57	Shale Brown	2950	2972
Coal		57	59	Lime Shale	2972	3720
Sand		59	97	Shale Brown	3810	3978
Slate		97	110	Slate	3978	4240
Lime		110	150	Shale Brown	4240	4340
Coal		150	154	Lime	4340	4343
Lime		154	175	TOTAL DEPTH	4343	
Slate		175	214			
Sand		214	238	Gas 2950-2972 show		
Slate & Shells		238	340	* Shot with 3600# 80% Hi Velocity		
Sand		340	390	duPont gelatin from 3815 to 4340.		
Slate		390	460	Gas B.S. 0		
Lime		460	490	Gas A.S. 35/10 W 1" 62 M		
Slate		490	500			
Coal		500	505			
Sand		505	535			
Lime		535	573			
Sand		573	625			
Slate		625	665			
Coal		665	668			
Slate		668	805			
Sand		805	840			
Slate & Shells		840	974			
Lime		974	1026			
Sand		1026	1326			
Slate		1326	1350			
2nd Salt Sand		1350	1535			
Slate		1535	1555			
Sand		1555	1715			
Slate		1715	1270			
Lime		1720	1735			
Sand		1735	1747			
Slate		1747	1750			
Sand		1750	1810			
Slate		1810	1814			
Lime		1814	1840			
Sand		1840	1890			
Slate		1890	1895			
Lime		1895	1912			
Slate		1912	1919			
Lime		1978	1992			
Slate		1992	1998			
Lime		1998	2048			
Slate		2048	2052			
Big Lime		2052	2273			
Red Injun		2273	2325			
Lime	Gritty	2325	2550			
Slate & Shells		2550	2852			