

Company COLUMBIAN CARBON CO.  
 Address BOX 873, CHARLESTON, W. VA.  
 Farm LEWIS MAXWELL  
 Tract PART OF 1500 AC Acres 307Ac Lease No. C-32B  
 Well (Farm) No. 14B Serial No. GW-1320  
 Elevation (Spirit Level) 1077.89'  
 Quadrangle VAD13 5037 W433-NW  
 County DODDRIDGE District NEW MILTON  
 Engineer [Signature]  
 Engineer's Registration No. 2074  
 File No. \_\_\_\_\_ Drawing No. W-5-60  
 Date 11 MAR. 60 Scale 1"=400'

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

**WELL LOCATION MAP**  
 FILE NO. D00-321

+ 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.

6-2 99



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION **2**

Quadrangle Vadis SW

Permit No. Dod -321

**WELL RECORD**

Oil or Gas Well Gas

Company Columbian Carbon Company  
Address Box 873, Charleston 23 W. Va.  
Farm Lewis Maxwell Acres 307  
Location (waters) George's Camp Run  
Well No. 14-B, GW-1320 Elev. 1077.89'  
District New Milton County Doddridge  
The surface of tract is owned in fee by Robert S. Maxwell  
Address Smithburg, W. Va.  
Mineral rights are owned by Mrs. Grace Gaylord et al  
(for further addresses contact C. C. C.)  
Address \_\_\_\_\_

Drilling commenced 4-29-60  
Drilling completed 6-25-60  
Date Shot not shot From \_\_\_\_\_ To \_\_\_\_\_

With \_\_\_\_\_  
Open Flow 16 /10ths Water in 2 Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume 169,000 Cu. Ft.  
Rock Pressure 300 lbs. 50 min. xxx hrs.  
Oil 1695' show \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED see reverse side

WELL FRACTURED see reverse side

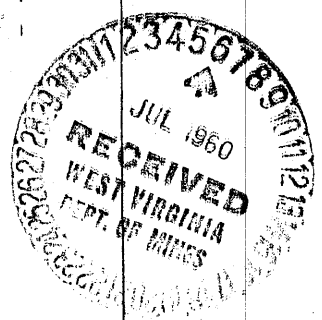
RESULT AFTER TREATMENT 10/10 M. 2" = 492 MCF (Big Lime and Big Injun)  
ROCK PRESSURE AFTER TREATMENT 14 hours 300#  
Fresh Water 526' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer <u>Gas Anchor</u>
13			
10 3/4" 32#	62'	62'	Size of <u>5-1/2"</u>
8 1/4" 24#	483'9"	pulled	Depth set <u>1632-39'</u>
8 3/8" 23#	1017'8"	pulled	
5 3/16" 15#	1754'9"	1754'9"	
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
see reverse side

COAL WAS ENCOUNTERED AT none FEET \_\_\_\_\_ INCHES \_\_\_\_\_  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	10			
Sand			10	57			
Shale			57	62			
Lime			62	75			
Red Rock			75	95			
Lime			95	118			
Red Rock			118	120			
Shale			120	155			
Red Rock			155	160	Gas	190'	show
White Sand			160	268			
Shale			268	285			
Red Rock			285	290			
Slate and Shells			290	325			
Black Slate			325	330			
Slate and Shells			330	335			
Lime			335	356			
Slate and Shells			356	360			
Lime			360	380			
Shale			380	445			
Lime			445	492	475' DLM=4 79' SLM		
Red Rock			492	500			
Shale			500	522			
Slate and Shells			522	537	F. water	526'	1-1/3 blr/hr.
Red Rock			537	570			
Slate and Shells			570	705			
Red Rock			705	715			
Lime			715	748			



Formation	Color	Hard or Soft	Top <sup>2</sup>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			748	764			
Slate and Shells			764	894			
Lime			894	978			
Broken Sand			978	989	999'DLM=1003'SLM		
Big Dunkard Sand			989	1100			
Slate			1100	1124			
Sand			1124	1135			
Slate and Shells			1135	1158			
Sand			1158	1300			
Slate			1300	1400			
Slate and Lime Shells			1400	1435			
Maxon Sand			1435	1480			
Slate and Shells			1480	1615			
Sand			1615	1660			
Slate			1660	1668			
Lime			1668	1690			
Blue Monday Sand			1690	1715	Oil	1695'	show
Big Lime			1715	1786	Gas	1705'	show
Big Injun Sand			1786	1855	Gas	1725- 8/10	W. 2" 119M
Slate			1855	1886	Gas	1730'	incr. fm. 119 to 184M
Sand			1886	1898	Gas	1740'	incr. fm. 184 to 231M
Slate and Shells			1898	1910	1818'DLM=1812'SLM		
					Gas	1818'	incr. fm. 300M to 696M (After acid. Big Lime)
Total depth-----				1910'			
<u>Casing Record</u>							
8-5/8" casing ran with shoe at 479'SLM - not aquagelled.							
7" casing ran with shoe 1003'SLM-10 sacks Aquagel. Circulation and returns.							
5-1/2" casing ran with packer at 1632-39. 101' of anchor - bottom joint perforated. Shoe at 1740' - Aquagelled.							
<u>5-25-60 Acidized the Big Lime</u>							
Ran 1 barrel oil, 4,000 gallons of acid. Pressure started 600-800# - went to 1,200#. - 2650 gallons in pipe and 840 gallons in formation when came around pipe. Pumped out excess acid. Before acidizing gas gauged 169 MCF.							
Pulled and re-ran 5-1/2" casing with packer 1632-39'.							
<u>6-17-60 Fractured the Big Injun</u>							
Big Injun fractured by Dowell. Pressure went to 3300# with water - followed by 500 gallons MCA - 8 barrels in when pressure dropped from 2700# to 1000#. Started sand at a maximum pressure of 2300# - 1#/gallon during entire treatment. Used 20,000# of sand.							
Released packer - pulled tubing and cleaned out to total depth. Final open flow 10/10 M. 2" = 492 MCF after blowing open 3 hours - 14 hour pressure 300#.							

Date July 5, 19 60

APPROVED - Columbian Carbon Company, Owner

By W.S. Moore, Mgr. of Prod.  
(Title)

