LATITUDE

38°30

7'5 OG15 topo location

7.5' loc 2,565

15' 10c 2,569 (calc.) 1,744

company Columbian Carbon Co

Form Copenhavee Heiro 3 (GW-348)

Quad Big Chimney 7.5'/ Charleston 15'(3)

county Kanawha

District EIK

WELL LOCATION MAP

File No. <u>039-20</u>2

Kauawha

DEEP

6-6 Elk-Poca (sissonville) (192)

DEEPWELL

## W. F. Copenhaver Heirs No. 3 (GW-342) Well.

Elk District, Kanawha County, W. Va. By Columbian Carbon Co. Permit No. Kan-202. Elevation, 938.7' L. 5,980 M. cu. ft. gas; R. P., 1670 lbs. Located 1.55 mi. S. of 38° 30' and 1.71 mi. W. of 81° 30'—NE—Charleston Quadrangle. 2.55 On west side of Aarons Fork of Little Sandy Creek.

3.2 mi. N. W. of Copenhaver; 3.6 mi. N. E. of Mink.

*	rop.	Dottoin.	Thickness.	Elevation (top)
Big Lime Big Injun Sand Berea Sand Corniferous Lime Oriskany Sand	1773 2200 4963	1773 1797 2201 5076 5101	159 24 1 113 25+	675 834 1261 4024 4137

Thickness, Devonian Shales, 2782± feet.
Remarks: Completed May 7, 1936.

Total depth, 5101'.
Shot at 5084½-5101'. Remarks: Completed May 7, 1936. Salt water, 1095' and 1135' (hole full). Gas, 1670'. Oriskany gas, 5086-92'.

Shot at 5084 1/2-5101'.

On 400 acres.

irles-

(top)

3500° 12-52

how,

ater.

No. 373 O.F.-Kanawha.

County W Va

Elk District, Kanawha County, W. Va.

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

On 400 acres, on Lick Branch of Little Sandy Creek; surface owned by Copenhaver Heirs, %F. S. Copenhaver, Big Chimney, W. Va., and Grant Copenhaver, 108 Arlington Ave., Charleston, W. Va., Agents; and coal rights by Alexander M. Bruen Hrs., %Alexander J. Bruen, 19 E. 83rd St., New York, N. Y.

Drilled under permit Kan-202, issued Nov.21, 1935.

Elevation, 975' B.

k3" casing, 411 9"; 10", 413' 6"; 8-5/8" O.D., 1632'.

No coal was encountered.

Preliminary report to Dept. of Mines Feb. 17, 1936. (Rec. to 1565'). Salt water at 1095'; hole full salt water, 1135'.

Red rock Slate, blue Sand Slate Red rock	Top. Bottom. Thickness.  0 - 28 28 28 - 35 7 35 - 80 45 80 - 110 30 110 - 140 30	
Slate, blue	140 - 170 30	
Slate	170 - 190 20	
Sand	190 - 210 20	
Slate	210 - 290 80	
Sand	290 <b>– 31</b> 0 20	
Slate	310 - 320 10	
Sand	320 - 345 25	
Slate	345 - 370 25	
Sand Slate	370 - 385 15	
Sand	385 <b>-</b> 455 <b>70</b> 455 <b>-</b> 560 <b>10</b> 5	
Slate	560 - 720 160	
Sand	720 - 740 20	
Slate	740 - 770 30	
Sand	770 - 825 55	
Slate	825 - 995 170	
Sand	995 - 1015 20	
	1015 - 1020 5	
Salt Sand	1020 - 1560 540	
Lime	1560 - 1565 5	
(INCOMPLETE)		

# WEST VIRGINIA DEPARTMENT OF MINES

### OIL AND GAS DIVISION

# PRELIMINARY DATA SHEET NO. 1

ile No. KAN-202			W	ell No_3_(GW-3
COLUMBIAN CARBO	NCom	pany of Char	leston W. Va	<b>.</b>
completed		n theCopenh		Farm
taining 400	acres. Location			•
Elk	District	Kanawh	A	
The surface of the above tra Big Chimney, W 108 Arlington Alexander M. Br	ct is owned in fee by C Va. Ave., Charleston ruen Hrs.	openhaver Hrs	F. S	Copenhaver) Copenhaver)
C/O ATEXANDER	I. Bruen	of 19 E. 837	d St., New Yo	rk City
The oil and gas privileges	are held under lease by th	e above named compan	y, and this well is dri	lled under permit
KAN-202	issued by the	: West Virginia Depart	tment of Mines, Oil a	and Gas Division
Nov. 21		1985		
Elevation of surface at top	of wall	938.7		Spirit
The state of the s	40 045g			
number of feet of the different	ent sized casings used in the	e well.		
		Ł	size.	Wood conductor.
41 19" feet	13" size, cag	501917"	feet6=5/8 "	sized csg.
4131611 feet	10 <sup>ff</sup> size, csg	5131 '	feet 3" Tubin	Zsized car.
1656 111 m feet	82m size, csg	°, 5 ===================================	feet	sized car
Spang "Spacial Gas Anch				•
<del>-</del>			•	
	packer of		—size, set at	
	Tubing perforated at	5092-5101'	feet to	
, i	n casing perforated at		feet to	feet.
l was encountered at	feet thicl	c nege	to be sedent	
			•	
; thickness	inches; and at	feet; thi	ickness	—— inches.
Liners were used as follows	: (Give details)			
		O THE STREET OF		`\
May 26, 1936				<b>V</b>
NAY 26, 1936	Date.	-		
230109	A	ved COLUMBI	AN CARBON CO	VPANY OFFICE
	Appre	* * O.		
W 68 11 12 13 1	Ву	· / Cal	tinger	

OIL OR GAS WELL GAS Well

Golumbian Carbon Company
Box 1240
Charleston, W. Va. Address

#### COMPLETION DATA SHEET No. 2

WELL No. 3 (GW-342)

FARM Copenhaver Hrs.

FORMATION RECORD

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depțh	Remarks
d Rock			;	0	28	28		
ate	Blue			28	35	7		
ad				35	80	45		
ate ·				80	110	30		
l Rock				110	140	30		
ate				140	190	50		
ıd		•		190	210	20		
ate				210	290	80	1 1	
ıd				290	310	20		
ite				310	320	ĩo		
ıd				320	345	25		•
ite				345	370	25		
ıd				370	385	15		
te				385	455	70		
ıd	NA CONTRACTOR OF THE CONTRACTO	,	HI COLONIA DE LA	455	560	105		
ite				560	600	40		
id				600	690	90		
te				690	720	30		
ıd				720	740	20		
to				740	770	30		•
ıd				770	825	55		
ite				825	995	170		
ad.				995	1015	20	-	
Rock				1015	1019	4		
ıd			Water 1095	' 1019	1335	316		1 27/
to			HFW 1138	(22) AP (22) AP	1355	20		å blr.pr/
id			Tr. II TTO	1355	1571			
tle Lime				1571		216		
to			1.4	1601	1601	30		
10					1603	2		
Lime			lass send	1603	1614	11		
Injun			Gas 1670		1773	159		
te & She		•		1773	1797	24		
le le	8 - 1			1797	2186	389		
	Brown			2186	2200	14		
lls & Sl				2200	3400	1200		
k Shells	& Shells			3400	3505	105		
	ha mada			3505	3525	20		
je & zue	lls, white	•		3525	4558	1033		
	Brown			4558	4630	. 72		
te	White		Programme and the second secon	4630	4640	10		
10	Brown			4640	4870	230		
te	White			4870	4895	25		
10	Brown			4895	4963	68		
niferous			Gas Pay	4963	5076	113		
skany			5086-921	5076	5101	25	5101	

May 26,	1936 Approved COLUMBIAN CARBON COMPANY Date Owner
producing Well was	hole.
Salt Fresh water at	salt
Well was see shot a	5084 to 5101 feet; well was shot at feet

must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under names in the district as well as any local names commonly used in the district for such strata.

#### WEST VIRGINIA DEPARTMENT OF MINES

#### OIL AND GAS DIVISION

#### PRELIMINARY DATA SHEET NO. 1

File No. KAN=202		<b>;</b>		Well No. S (GW=34
COLUMBIAN CA	RBON	Company of	Charleston, W	lest Va.
drilling		on the	Copenhaver Heir	si Farm
entaining 400	acres. Location	Lick Bra	nch of Little Sar	ıdy
Rlk		District, in	Kanawha F. S r Heirs, c/o Gran	County, West Virginia S. Copenhaver)
_ D4~ Ab4~~~	, W. Va. on Ave., Charl		COS  address, and the miner	
c/o Alexander	J. Bruen	of 19	E. 83rd St., New	York City
The oil and gas privileg	es are held under lea	se by the above n	amed company, and this well	is drilled under permit
,KAN-202	issue	d by the West Vi	ginia Department of Mines,	Oil and Gas Division
Nov. 21		198	<u>.</u>	
Elevation of surface at	top of well,	975		Barometric.
ne number of feet of the di	fferent sized casings w	sed in the well.		•
		feet		size. Wood conductor.
		size, csg.——	feet	sized csg.
41316 <sup>19</sup> feet	10"	size, csg.	feet	sized csg.
1632!feet	8-5/8" O.D	size, csg.		sized csg.
	packer o	1	size, set at	
	packer o	f	size, set at	
	, in casing perforate		feet to	feet.
	_, in casing perforate		feet to	feet
al was encountered at			inches, and	•
et; thicknessocol	inches; and a		feet; thickness	inches.
Liners were used as followed				
77 a la carro a carro 7 77	1936	COMPANIA ESPERANCIA CONTRACTOR CO		
February 17,	_b3/450	Date.		
1884.0001.8833		Approve	OLUMBIAN CARBON	COMPANY, Owner.
8 2 E		By— $K$	LAND C. KULDA	Lafferty
				rict Geologist

DEEP

COLUMBIAN GARBON Company
Box 1240

Charleston, W. Va. Address

COMPLETION DATA SHEET No. 2

WELL No. 3 (GW-342)

FARM Copenhaver Hrs.

FORMATION RECORD

Name	Color	Character	Oil, Gas or Water	Тор	Bottom	Thickness	Total Depth	Remarks
ed Rock	Blue			0 28 35	28 ` 35 80	28 7 45		
and Late ed Rock Late Late	Blue			80 . 110 . 140 . 170 . 190	110 140 170 190 210	30 30 30 20 20		
late and late and				210 290 310 320 345	290 310 320 345 370	80 20 10 25 25		
late and late and late				370 385 455 560	385 455 560 720	15 70 105 160		
and late and late and				720 740 770 825 995	740 770 825 995 1015	20 30 55 170 20		
ed Rock alt Sand ime		·		1015 1020 1560	1020 1560 1565	5 540 5		
	No. 3	.*			T va			
							-	

shot Well was not shot	&t	feet; well was shot at	
Salt Sandb-water at	1095! / HF	salt	loct.
producing Well was dry	hole.		
February	17, 1936	Approved COLUMBIAN CARBON Owne	COMPANY

often formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under the control of the district as well as any local names commonly used in the district for such strata.

1936