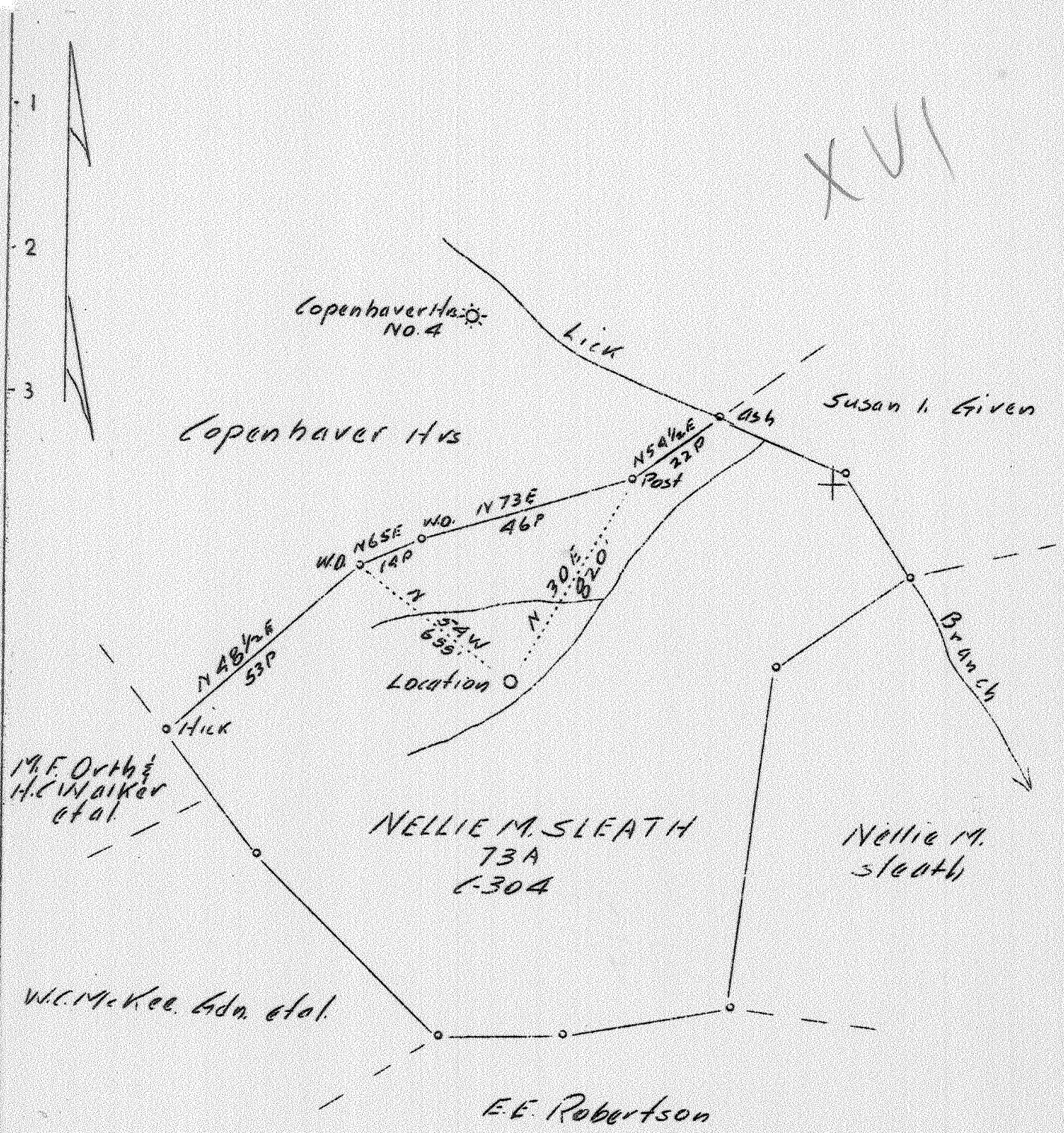


XVI



ABD
9/46 1.82 W
3.72 R

Company	Columbian Carbon Co.
Address	Box 1240, Charleston, W.Va.
Farm	Nellie M. Sleath
Tract	Acres 73 Lease No. C-304
Well (farm) No.	1 Serial No.
Elevation (Spirit level)	789.0
Quadrangle	Charleston-N.E. (NE)
County	Kanawha District Elk
Engineer	James N. Sell
Engineer's Registration No.	772
File No.	Drawing No.
Date	May 27, 1937 Scale 1"-30 P.

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

WELL LOCATION MAP
File No. KAN-389

+ 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.

(Crish.) Deep Well

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

576

WELL RECORD PRELIMINARY

Permit No. Ken-389 Oil or Gas Well DRILLING
(Kind)

Company Columbian Carbon Co.
Address Box 1210, Charleston, W. Va.
Farm Nellie M. Sleath Acres 73
Location (waters) lick Branch of Little Sandy
Well No. 1 (Ken-389) Elev. 708.0
District Elk County Lincoln
The surface of tract is owned in fee by Betty Jo Sleath,
Fatey Lorraine Sleath & J. Lewis Sleath
Elkview, West Virginia Address
Mineral rights are owned by Alex M. Bruen Hoirs,
19 E. 83rd St. New York Address
Drilling commenced July 23, 1937
Drilling completed Drilling
Date shot _____ Depth of shot _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 1/4"	42'6"		
10 3/4"	375'-5"		Size of
8 1/2"	1481'-7"		
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 110'-11-13" Blr. feet 165' 1-13" Blr. feet
Salt water 960 - Blr. feet _____ feet

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Slate & Red Rock			0	60			
Sand			60	175			
Slate			175	185			
Sand			185	215			
Slate & Shells			215	290			
Sand			290	380			
Slate			380	410			
Sand			410	500			
Slate			500	555			
Sand			555	660			
Slate			660	780			
Sand			780	850			
Slate			850	895			
Salt Sand			895	1385	Gas	900-5	Small amt.
Horton			1100	1120			
Little Lime			1120	1150			
Pencil Cave			1150	1156			
Big Lime			1156				

TD 4989 - Gas
analysis

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan-389

Oil or Gas Well GAS
(Kind)

Company COLUMBIAN CARBON COMPANY
Address Box 1240, Charleston, W. Va.
Farm Nellie M. Sleath Acres 73
Location (waters) Lick Branch of Little Sandy
Well No. 1 (GW-389) Elev. 788.0
District Elk County Kanawha
The surface of tract is owned in fee by Betty Jo Sleath,
Patsy Lorraine Sleath & J. Lewis Sleath
Address
Mineral rights are owned by same as above; A.C. Wills
& Chas. S. Bannerman, 120 Broadway, N.Y. Charleston
al & other Min. Pruen. Address 19 E. 83rd St., N.Y.
Drilling commenced July 23, 1937
Drilling completed Oct. 17, 1937
Date shot Oct. 18, 1937 Depth of shot 4951-4971
Open Flow /10ths Water in. Inch
/10ths Merc. in. Inch
Volume 1,081,152 Cu. Ft.
Rock Pressure 840 lbs. 14 hrs.
Oil 4948' - Show bbls., 1st 24 hrs.
Fresh water 140' 1 1/2 Blrs. Hr. feet 265' - 2 1/2 Blrs. Hr. feet
Salt water 960' feet 1635' 1 " " feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			No packer
18- 7/8"	411'6"	411'6"	Size of
10- 3/4"	375'5"	Failed	Depth set
8- 5/8"	1488'8"	1488'8"	Perf. top
6 5/8"	4873'2"	4873'2"	Perf. bottom
5 3/16"			Perf. top
3			Perf. bottom
2- 3/8"	5008'11"	5008'11"	Perf. top
Liners Used			Perf. bottom

CASING CEMENTED SIZE No. FT. Date
See Reverse Side
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Slate & Red Rock			0	60			
Sand			60	175	Water	140	1 1/2 Blrs. Per Hr.
Slate			175	185			
Sand			185	215			
Slate & Shells			215	290	Water	265	2 1/2 Blrs. Per Hr.
Sand			290	380			
Slate			380	410			
Sand			410	500			
Slate			500	555			
Sand			555	660			
Slate			660	780			
Sand			780	850			
Slate			850	895	Gas	900-05	Show
Salt Sand			895	1357			
Slate			1357	1367			
Lime			1367	1385			
Maxton Sand			1385	1420			
Little Lime			1420	1448			
Pencil Cave			1448	1456			
Big Lime			1456	1630			
Injun Sand			1630	1660	Water	1635	1 Blr. per Hr.
Slate & Shells			1660	2059	Gas	1710	Show
Lime Hard			2059	2070			
Slate & Shells			2070	2337			
Lime Hard			2337	2350			
Slate & Shells			2350	3760			
Brown Shale			3760	3905			
White Slate & Shells			3905	4350			
Brown Shale			4350	4735			
White Slate			4735	4771			
Brown Shale			4771	4827			
Corniferous			4827	4943			
Oriskany			4943	4989	Oil	4948	Show
TOTAL DEPTH				4989	1st Pay	4948-4948 1/2	
					2nd Pay	4958-4961	

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<p>CEMENT RECORD: 8/20/37 - Cemented 6-5/8" casing. Used 69 sacks Incon Cement in 2 1/2 Agugel. Used 5 sacks Agugel. 12' of cement left in pipe.</p> <p>10/5/37 - Cemented 6-5/8" casing. Used 25 sacks cement. 9' spacer run ahead of top plug. 19' cement in 6-5/8" casing.</p> <p>(Leo Smart - Halliburton Oil Well Cementing Co.)</p>							

Date..... October 30, 1937

APPROVED..... GOLDENLAND OIL COMPANY, Owner

By..... *[Signature]*
(Title)