

39° 15' 00"

Latitude

80° 22' 30"

Longitude

Corrected location

Topo Location

7.5' Loc.	<u>0.395</u>	15' Loc.	<u>0.395</u>
	<u>2.15W</u>	(calc.)	<u>4.38W</u>

Company HNG C # 7878

Farm W.B. Maxwell

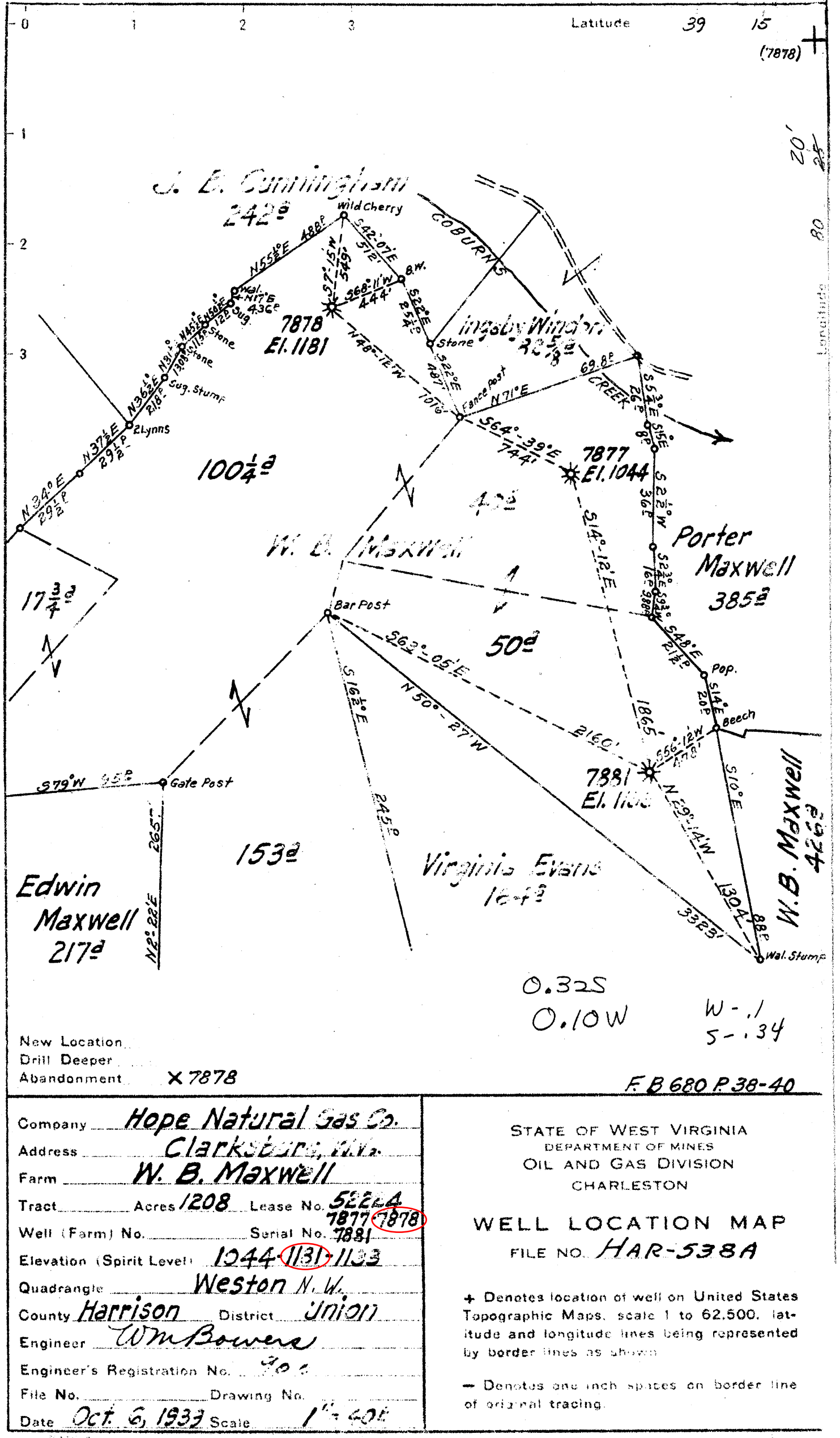
15' Quad Weston (NC)
(sec.)

7.5' Quad West Milford

District Union

WELL LOCATION PLAT

County 033 Permit 30538



New Location
 Drill Deeper
 Abandonment

X 7878

0.32S
 0.10W
 W-.1
 S-.34

F. B 680 P. 38-40

Company Hope Natural Gas Co.
 Address Clarksburg, W. Va.
 Farm W. B. Maxwell
 Tract Acres 1208 Lease No. 52224
 Well (Farm) No. _____ Serial No. 7877 7878
 Elevation (Spirit Level) 1244 1131 1133
 Quadrangle Weston N. W.
 County Harrison District Union
 Engineer Wm Bowers
 Engineer's Registration No. 700
 File No. _____ Drawing No. _____
 Date Oct. 6, 1933 Scale 1" = 40'

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

WELL LOCATION MAP
 FILE NO. HAR-538A

+ 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.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

431

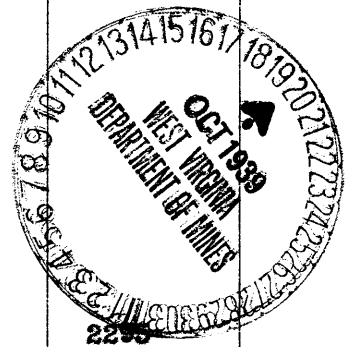
WELL RECORD

Ab 538-A
Permit No. 538-A

Oil or Gas Well Gas
(Kind)

Company <u>Hope Natural Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Clarksburg, W. Va.</u>	Size			
Farm <u>W. B. Maxwell</u> Acres <u>1208</u>	16			Kind of Packer
Location (waters) <u>Sycamore</u>	13			
Well No. <u>7678</u> Elev. <u>1181</u>	10	<u>280</u>	<u>Pulled</u>	Size of
District <u>Union</u> County <u>Harrison</u>	8 1/4	<u>1053</u>	<u>Pulled</u>	Depth set
The surface of tract is owned in fee by <u>W. B. Maxwell Hrs.</u>	6 5/8	<u>1441</u>	<u>1441</u>	Perf. top
<u>F. J. Maxwell</u> Address <u>Clarksburg, W. Va.</u>	5 3/16	<u>2086</u>	<u>Pulled</u>	Perf. bottom
Mineral rights are owned by	3	<u>2993</u>	<u>2993</u>	Perf. top
Address	2			Perf. bottom
Drilling commenced <u>8-4-1914</u>	Liners Used			
Drilling completed <u>9-11-1914. Deeper in 1918.</u>				
Date shot <u>1914 & 1918</u> Depth of shot <u>No record</u>				
Open Flow /10ths Water in _____ Inch				
/10ths Merc. in _____ Inch				
Volume _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Rock Pressure _____ lbs. _____ hrs.	<u>Not cemented</u>			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water _____ None recorded _____ feet	_____ FEET <u>No coal</u> _____ INCHES _____ FEET _____ INCHES			
Salt water _____ None recorded _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
First Salt Sand			735	835			
Second Salt Sand			847	1010			
Third Salt Sand			1040	1055			
Little Lime			1325	1340			
Pencil Cave			1340	1352			
Big Lime			1352	1412			
Big Injun			1412	1520			
Sand			1800	1820	Gas	1810	
Fifty Foot Sand			1870	1905			
Thirty Foot Sand			1915	1955			
Gordon Stray Sand			2047	2160			
Gordon Sand							
Fourth Sand			2165	2198			
Fifth Sand			2281	2297	Gas	2295	
Sand			2308	2310	Gas	2310	
Speechley Sand			2969	2977	Gas	2971-2976	
			Total Depth	2993			



FORM 628-14283

Record of Well No. 4321 (7878) Located on N. D. Maxwell Farm June 16 19 14
 Union District Harrison County West Va State
 Division A District No. 11 Drilled under well Order 885
 Rig built by John Criss Began July 20 19 14 Completed July 27 19 14
Michael M. Fisher July 24 19 18
 Well drilled by W. M. Bankart Began Aug 5 19 14 Completed Sept 11 19 14

 Depth of Well 2324 feet. Size of Hole 5 3/16 Producing Gas
2993 Elev. 1181' G.L.

CASED WITH			REMARKS
AMOUNT	SIZE	KIND	
16'	13"	Wood	
280'	10"	New	Reclaimed 9-18-1914
1053'	8 1/4"	Old	" 9-18-1914
1441'	6 3/8"	New	1-6 5/8" Steel Shoe
2056'	5 3/16"	"	1-5 3/16" " Reclaimed
2341'	5 3/16"	118 3/8"	1- Shoe

COAL VEINS

FORMATIONS					
FORMATION	COLOR	OPEN OR CLOSE HARD OR SOFT	TOP	BOTTOM	REMARKS GAS-OIL-WATER (thickness of feet)
Loess Overland			480	500	
Loess "			682	712	
1st bell sand			785	835	
2nd "			855	1010	
3rd "			1040	1055	Water 1030-1060 ft.
Little Limestone			1325	1340	
Lower Carboniferous			1340	1352	
Big Limestone			1352	1412	
Big Limestone			1412	1520	
5th sand			1870	1905	Gas 1810 - 7/16" 2" opening 174 MCF
3rd "			1915	1987	
Woodson Shale			2047		
Warren Shale				2160	
4th sand			2165	2198	
Sand			2222	2237	391 MCF
5th sand			2281	2297	Gas 2295 - 7/16" 2 1/2" opening 735 MCF
Begin Drilling at			2328		" 2310 - 6/16" 2 1/2" opening 84 MCF
Sand			2337	2350	
"			2610	2650	
"			2675	2695	
"			2710	2750	
Spucky sand			2967	2977	" 2971-76 - 4/16" 2 1/2" 84 MCF
				2993	
				2328	
			New Fty	665	

(15) Jarvisville

FIRST PRESSURE TEST IN 5 3/16 CASING

REMARKS

30 Sec.	5	lbs.	1/2	8	After shot	Shot 20 ft. Sept 12-1914
1 Min.	10	"	1	16		57 sand
2 "	20	"	2	32		
5 "	50	"	3	52		
10 "	100	"	4	66		Shot 20 ft. Sept-9-19-18
15 "	140	"	5	80		
30 "	220	"	10	155		
Rock Pressure	270	" in 24 hrs.	15	205		
Taken	Sept 11	1914	20	240	R.P. 375-24 hrs	
By	P. W. Dolan		Sept 12-1914		P. W. Dolan	

WELL TUBED AND PACKED Sept 16 1914

Sept-16-1918

VIZ:- Used 111 ft. 2342 ft. 2" Tubing (New) Used 149 ft. 2993 ft. 3" Tubing
 12 ft. 229 ft. 2" Tubing Anchor 1- 5 3/16 x 3" Anchor Packer
 16-5 3/16 x 2" Spring Anchor Packer 7 ft. 134 ft. of Anchor

FIRST PRESSURE TEST IN 2" TUBING

REMARKS

30 Sec.	65	lbs.	1/2	5	30	198
1 Min.	120	"	1	10	60	335
2 "	160	"	2	18	2 hrs. 463	3/4 W.S.
5 "	230	"	3	25		
10 "	285	"	4	32		
15 "	305	" 315	5	41		
30 "	340	"	10	84		
Rock Pressure	430	" in 12 hrs.	15	105		
Taken	Sept 16	1914	20	126		
By	J. M. Clark					

MATERIAL FOR THIS WELL RECEIVED FROM FOLLOWING SOURCES:

Well # 4321 W. B. Maxwell

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
Clay		10				
Slate + Lime	10	210				
Red Rock	210	280				
Slate	280	320				
Lime	320	380				
Red Rock	380	410				
Shells	410	480				
Little Dunkard	480	520				
Slate	520	530				
Lime	530	570				
Slate + Lime	570	695				
Lime	695	735				
Slate	735	785				
1st. Salt Sand	785	835				
Slate	835	855				
2nd. Salt Sand	855	1010				
Slate	1010	1040				
3rd. Salt Sand	1040	1055				
Red Rock	1055	1175				
Slate + Lime	1175	1260				
Lime	1260	1325				
Little Lime	1325	1340				
Council Cove	1340	1352				
Big Lime	1352	1412				
Big Inquirer Sand	1412	1520				
Slate + Shells	1520	1570				
Sand	1570	1600				
Slate + Sand	1600	1800				
Sand	1800	1820		1810		
Slate	1820	1870				
Dirty Root Sand	1870	1905				
Slate	1905	1915				
Dirty Root Sand	1915	1987				
Slate	1987	2047				
London Stray	2047					
No Break between London Stray and London Sand						
Bot. London Sand		2160				
North Sand	2165	2198				
Slate	2198	2222				
Sand	2222	2237				
Slate	2237	2281				
Fish Sand	2281	2297		2295		
Slate	2297	2324		2310		
Total Depth		2324				
Drilling deeper						
Slate	2324	2337				
Sand	2337	2350				
Slate + Shells	2350	2710				
Sand	2710	2760				
Lime + Slate	2760	2870				
Slate + Shells	2870	2977				
Sand	2977	2993		2991-96		