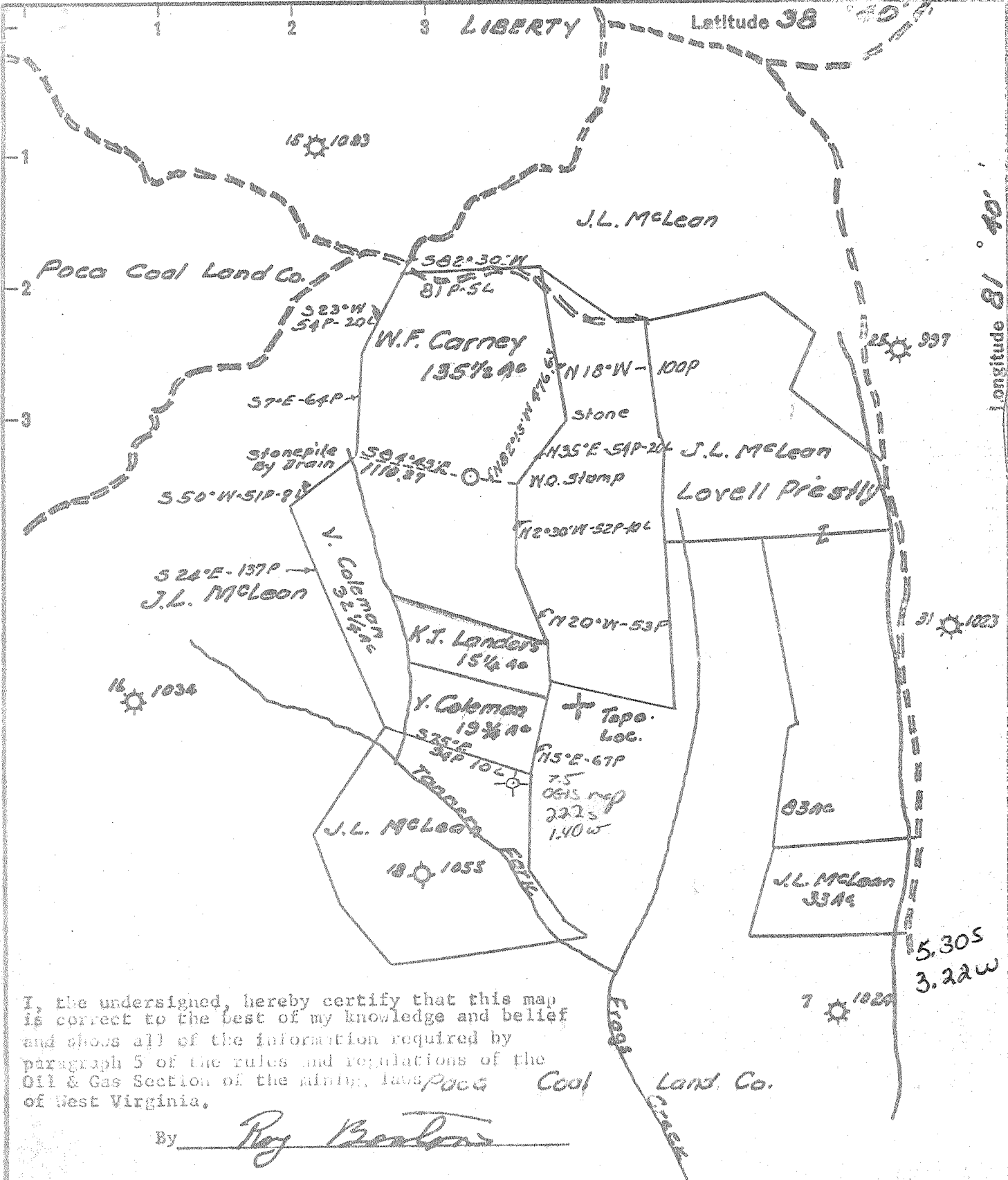


38° 37' 30" N



I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by paragraph 5 of the rules and regulations of the Oil & Gas Section of the Mining Laws of West Virginia.

By Roy Bottom

- New Location
- Drill Deeper
- Abandonment

issued 6-4-70 9 1049
 AN ACCURACY OF ONE PART IN 200.
 Datum U.S.G.S. B.M. of Liberty Blay 776.00

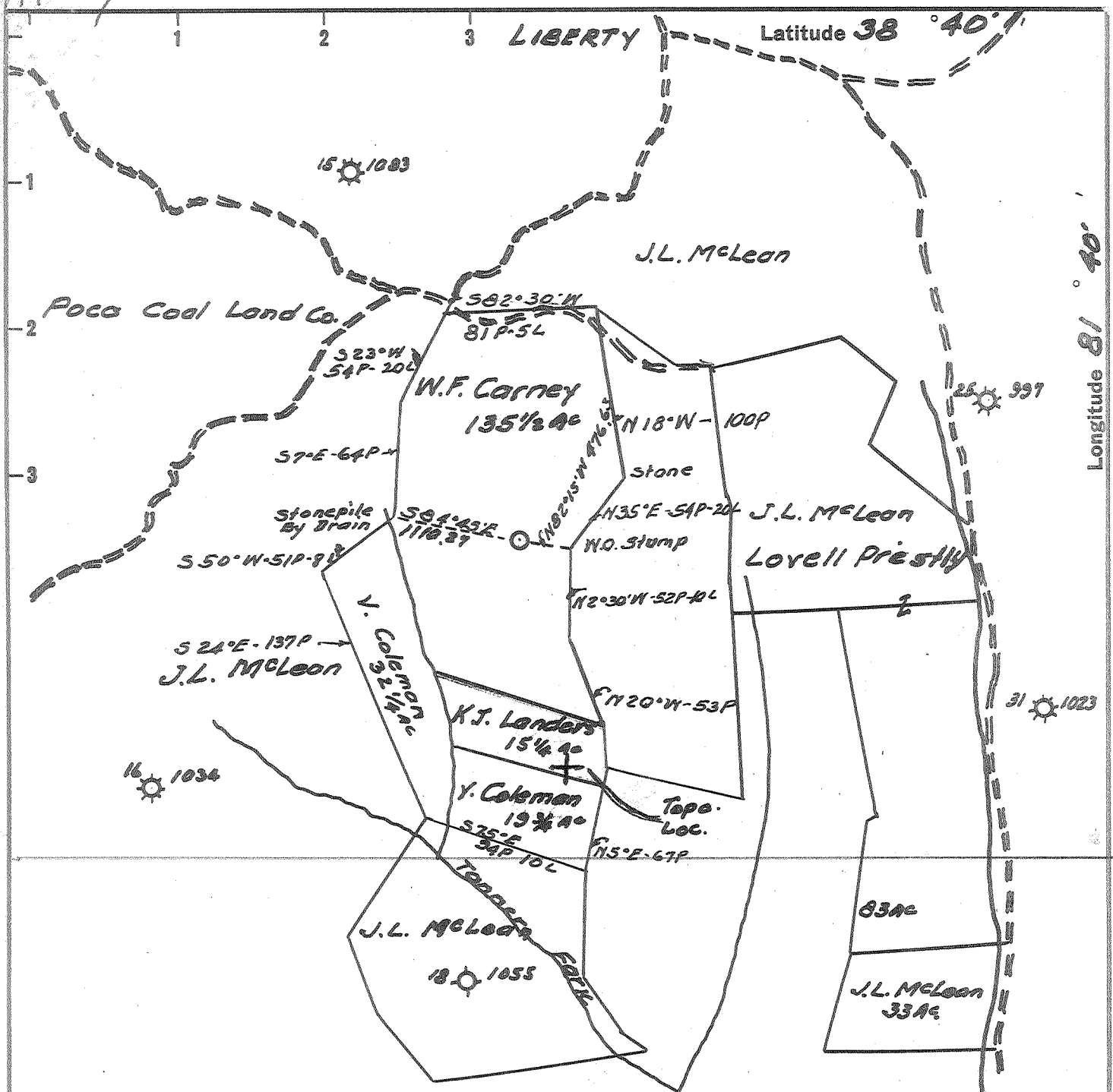
Company Cabot Corporation
 Address Box 1473 Charleston W. Va.
 Farm W.F. Carney et al Unit Wv. 96
 Tract _____ Acres 135 1/2 Lease No 3-1249
 Well (Farm) No. 1 Serial No. 1548
 Elevation (Spirit Level) 915.74
 Quadrangle Kenna Wc
 County Kanawha District Poca
 Engineer Roy Bottom
 Engineer's Registration No. 3204
 File No. _____ Drawing No. _____
 Date 4-8-64 Scale 1" = 1920'

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

WELL LOCATION MAP
 FILE NO. KAN-2002-P

+ 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.



I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by paragraph 5 of the rules and regulations of the Oil & Gas Section of the mining laws of West Virginia.

By Roy Boston

5.28 S.
3.69 W
4 SW (I-52)

- New Location
- Drill Deeper
- Abandonment

AN ACCURACY OF ONE PART IN 200.
Datum U.S.G.S. B.M. of Liberty Elev 776.00

Company	<u>Cabot Corporation</u>
Address	<u>Box 1473 Charleston W.Va.</u>
Farm	<u>W.F. Carney et al UNIT W.V. 96</u>
Tract	Acres <u>135 1/2</u> Lease No. <u>3-1249</u>
Well (Farm) No.	<u>1</u> Serial No. <u>1548</u>
Elevation (Spirit Level)	<u>915.74</u>
Quadrangle	<u>Kenna - VC</u>
County	<u>Manawha</u> District <u>Poca</u>
Engineer	<u>Roy Boston</u>
Engineer's Registration No.	<u>3204</u>
File No.	Drawing No.
Date	<u>4-8-64</u> Scale <u>1" = 1320'</u>

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

WELL LOCATION MAP
FILE NO. KAN-2002

- + 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.

No Samples 6-6-192 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 13

Quadrangle Kenna

Permit No. KAN-2002

WELL RECORD

Oil or Gas Well GAS

Company Cabot Corporation
 Address Charleston, West Virginia
 Farm W. F. Carney (Unit 96) Acres 135 1/2
 Location (waters) _____
 Well No. 1, Serial 1548 Elev. 916
 District Poca County Kanawha
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by W. F. Carney et al
c/o Vella C. Derrick, Agt. 21 Woodward Court
Charleston
 Drilling commenced June 22, 1964
 Drilling completed July 15, 1964
 Date Shot _____ From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume 211,000 Cu. Ft.
 Rock Pressure 1950 lbs. 72 hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	899	219	
13			
10	899	219	Size of
8 3/4			
6 3/4	2606	2606	Depth set
5 3/16			<u>from P.I. card.</u>
4 1/2	5150	5150	Perf. top <u>5102</u>
2			Perf. bottom <u>5112</u>
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE 10" No. Ft. 219' Date _____
7" w/26 bags & 4 1/2" with 30 bags.

COAL WAS ENCOUNTERED AT NONE FEET _____ INCHES
 _____ FEET _____ INCHES
 _____ FEET _____ INCHES

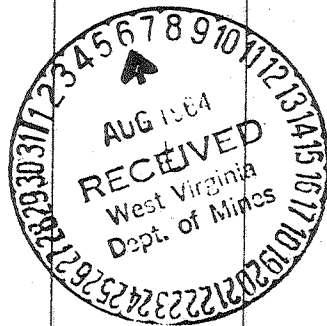
WELL FRACTURED with 29,500 gallons of water and 2100# sand. 4-1/2" casing perforated.

RESULT AFTER TREATMENT 1,760,000 cubic feet

ROCK PRESSURE AFTER TREATMENT 1950

Fresh Water _____ Feet Salt Water 1675' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Stone & Clay			0	18			
Sand			18	35			
Shale & Red Rock			35	185			
Sand			185	205			
Shale			205	285			
Sand			285	380			
Red & gray shale			380	550			
Red Rock			550	590			
Shale			590	665			
Sand			665	730			
Sand, Shaley			730	800			
Sand			800	835			
Shale, Sandy			835	900			
Shale			900	960			
Shale, Sandy			960	1090			
Shale			1090	1375			
Sand q			1375	1525			
Shale & Shell			1525	1560			
Salt Sand			1560	1880	S. Water	1675	200 bbls./hr. H.F.W. at 1776.
Lime			1880	1900			
Big Lime			1900	2100			
Shale - not Muscovady			2100	2115			
Injun			2115	2245			
Shale & Shell			2245	2535			
BEREA			2535	2545			
Shale & Shell			2545	4935			
Shale			4935	4972			
CONIFEROUS			4972	5058			
GRISKANY			5058	5076			



4972 5058 5123
 916 916 916
 4056 4142 4207

