

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 and Gas Division of the mining laws of West Virginia.

By Roy Boston

5.15 S
0.54 W

- New Location
- Drill Deeper
- Abandonment

AN ACCURACY OF ONE PART IN 200.
U.S.G.S. Datum

7 SE (F-4)

Company	<u>Cabot Corporation</u>
Address	<u>Box 1473 Charleston W. Va.</u>
Farm	<u>Black Betsey Land Corp.</u>
Tract	Acres <u>2500</u> ^{Dead} Area No. <u>3-468</u>
Well (Farm) No.	<u>12</u> Serial No. <u>1549</u>
Elevation (Spirit Level)	<u>986.30</u>
Quadrangle	<u>Winfield-SE</u>
County	<u>Putnam</u> District <u>Pocahontas</u>
Engineer	<u>Roy Boston</u>
Engineer's Registration No.	<u>3204</u>
File No.	Drawing No.
Date	<u>4-10-64</u> Scale <u>1" = 1320'</u>

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

WELL LOCATION MAP
FILE NO. PUT-702

+ 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 6-6-1962 Deep Well



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

Quadrangle WINFIELD

Permit No. Z PUT-702

WELL RECORD

Oil or Gas Well GAS
(KIND)

Company Cabot Corporation
Address Charleston, W. Va.
Farm Black Betsey Coal Ld. Co. Acres 986.3
Location (waters) _____
Well No. 12, Serial 1549 Elev. 986
District Pocatalico County Putnam
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Cabot Corporation
Address Charleston, W. Va.
Drilling commenced May 27, 1964
Drilling completed June 18, 1964
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 246,000 Cu. Ft.
Rock Pressure 1400 lbs. 6 days test.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	40	40	
13			
10	902	902	Size of
8 1/2			
6 3/4	2582	2582	Depth set
5 3/16			
4 1/2	5048	5048	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 16" SIZE 40 No. Ft. _____ Date _____
10" with 50 bags; 7" with 100 bags; 4 1/2" with 30 bags.

COAL WAS ENCOUNTERED AT 324 FEET 12 INCHES
BLOSSOM
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

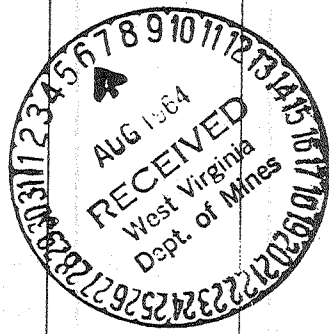
WELL FRACTURED with 34,500 gallons water, 17,500# sand, and 500 gallons MCA--perforated 4981 to 4992 with two shots per foot.

RESULT AFTER TREATMENT 978,000 cubic feet

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water 850 Feet Salt Water 1680; 2105 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Stone & Clay			0	35			
Sand			35	50			
Shale			50	82			
Red Rock			82	120			
Shale			120	150			
Red Rock			150	175			
Shale			175	210			
Red Rock			210	225			
Shale			225	324			
Coal Blossom			324	325			
Shale			325	355			
Shale & Shell			355	395			
Red Rock			395	420			
Lime			420	445			
Shale & Shell			445	485			
Lime			485	500			
Sand; shaley			500	695			
Red Rock			695	715			
Sand			715	860	Water-fresh	850	Small amount
Shale & Shell			860	1055'			
Sand & Shale			1055	1140			
Shale			1140	1540			
Salt Sand			1540	1820			
Little Lime			1820	1880			
Big Lime			1880	2080			
Injun Sand			2080	2140			
Leir			2140	2297			
Shale			2297	2355			
Shale & Shell			2355	2522			



Formation	Color	Hard or Soft	Top 13	Bottom	Oil, Gas or Water	Depth Found	Remarks
NEREA			2522	2555			
Shale & Sand			2555	2566			
Shale			2580	3085			
Shale & Shell			3085	4070			
Shale			4070	4888			
CONSPICUOUS OILY SANDY			4888	4974			
Lime & Sand			4974	4993	Gas	4979-4993	246 Mcf
			4993	5057			
TOTAL DEPTH				5057			
					4888 986 <u>3902</u>	4974 3988	

Date August 4, 1964

APPROVED CAROT CORPORATION, Owner
 By J. D. Trimmer (Title) Manager