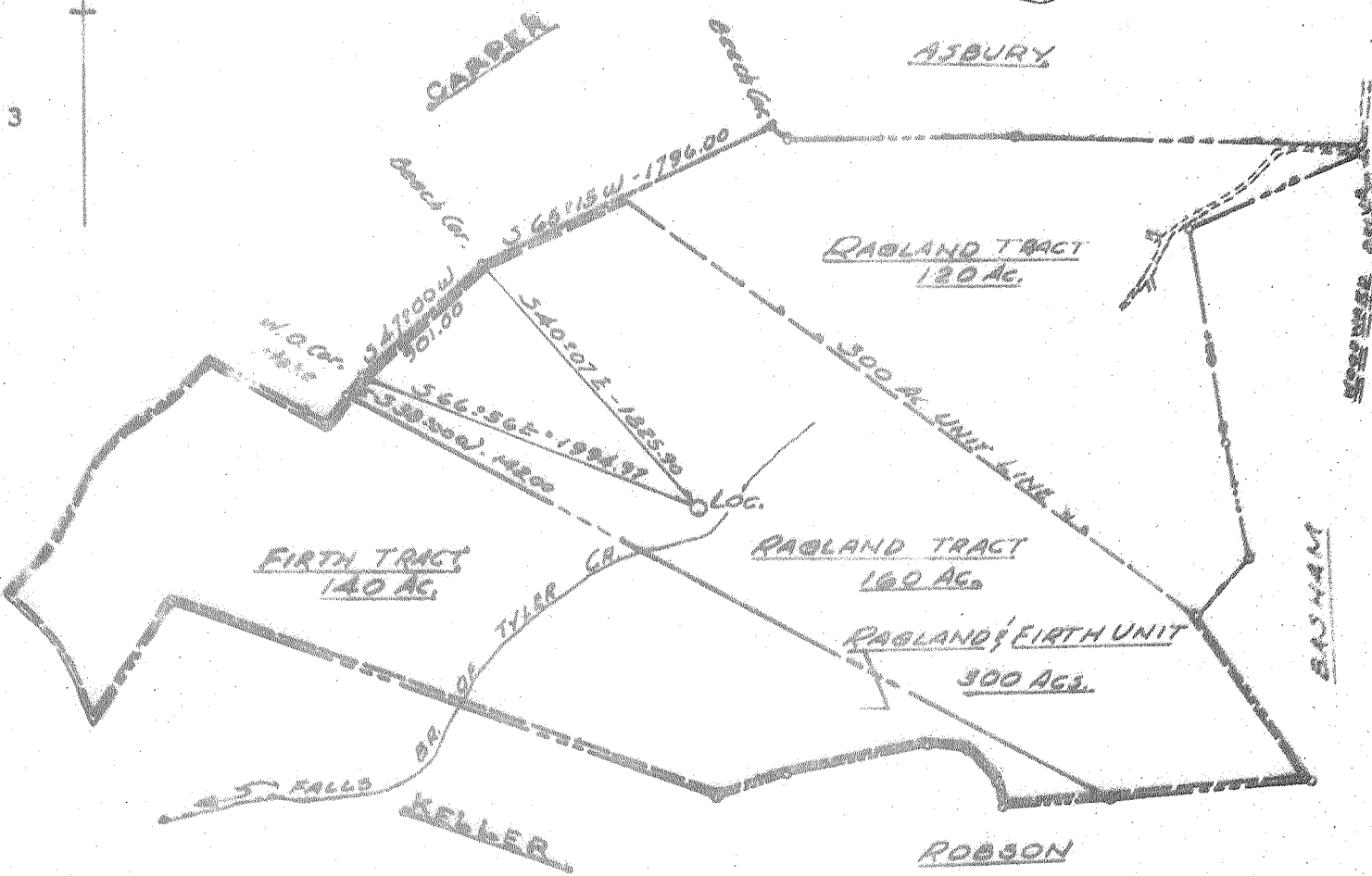


333S  
191W



Pocatalico <sup>2</sup>  
7 1/2 min quad  
under Branch

**CERTIFICATE**

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."  
Minimum degree of accuracy is one part in 500

Signed *H. L. Sexton* # 1232

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

Surveyed July 27, 1967

COMPANY PAGE BOWER CONSTRUCTION CO.  
 ADDRESS 205 N. NELSON AVE CHARLESTON, W.VA.  
 FARM RAGLAND & FIRTH, 300 AC UNIT  
 MAP \_\_\_\_\_ ACRES 300 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 1 SERIAL NO. \_\_\_\_\_  
 ELEVATION (SPIRIT LEVEL) 803.0  
 QUADRANGLE CHARLESTON WC  
 COUNTY KANAWHA DISTRICT UNION  
 POINT OF PROVEN ELEVATION U.S.G.S. ELEV 841' INTERSECTION  
SNOW ROAD & WOODWARD DRIVE  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE DEC 4 1966 SCALE 1" = 1000'

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

**WELL LOCATION MAP**

FILE NO. Kan-2088-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.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle CHARLESTON

Permit No. KAN=2088

**WELL RECORD**

Oil or Gas Well GAS Show

Company PAGE BOWER CONSTRUCTION CO.  
Address 305 NELSON BLDG., CHARLESTON, WVA  
Farm RAGLAND FIRTH Acres 300  
Location (waters) KANAWHA  
Well No. 1 Elev. 803  
District UNION County KANAWHA  
The surface of tract is owned in fee by G. M. M. RAGLAND  
J. MALCOLM FIRTH TO Box 772,  
16 STATEHOUSE RD. Address CHARLESTON, WVA  
Mineral rights are owned by same  
FT. LAUDERDALE, FLA. Address \_\_\_\_\_

Drilling commenced DEC. 13, 1966  
Drilling completed JAN. 7, 1967  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_

Open Flow 6 /10ths Water in \_\_\_\_\_ Inch  
6 /10ths Merc. in 3/8 Inch  
Volume 10,000 Cu. Ft.  
Rock Pressure 2,000 lbs. 30 DAYS hrs.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED WATERFRAC 1/14/67 w/500 GAL  
MUD ACID: 23,000# SAND: 600 J111; 400 J84  
WELL FRACTURED: 7-23-67 - same as above

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
10			
13		23'	
2-5/8"	1951'		Size of
4-1/2"	5724.30'		Depth set
6 3/16			Perf. top <u>5671 1/2</u>
3			Perf. bottom <u>5672 1/2</u>
2			Perf. top _____
Liners Used			Perf. bottom _____

CASING CEMENTED 9-5/8" 245 No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
4-1/2" 225

Service performed by DOWELL  
COAL WAS ENCOUNTERED AT none FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT No increase in volume

ROCK PRESSURE AFTER TREATMENT  
Fresh Water 280 Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
CLAY-SAND			0	29	WATER	280	
SAND-SHALE			29	292			
LIME-SHALE			292	410			
SAND-SHALE			410	1000			
SAND-SHALE-LIME			1000	1123			
SAND-SHALE			1123	1371			
SAND			1371	1640			
LITTLE LIME			1640	1690			
BIG LIME			1690	1870			
INJUN			1870	1905			
SHALE-SAND			1905	2350			
PEREA			2350	2370			
SHALE			2370	4870			
ONONDEGA			4870	4955			
ORISKANY			4955	4990			
LIVE			4990	5654	GAS	5672 1/2 = 5674 1/2	
NEWBERG			5654	5680			
LIME-SHELLS			5680	5724			

