

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

"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 200

CERTIFICATE

Signed [Signature] R.P.E. No. 2024

COMPANY	<u>COMMONWEALTH GAS CORPORATION</u>		
ADDRESS	<u>P.O. BOX 1433 CHARLESTON W.VA. 25325</u>		
FARM	<u>SUE PROCTOR MILLER</u>		
MAP	<u>OV-28</u>	ACRES <u>250² of 628²</u>	LEASE NO. <u>3164</u>
WELL (FARM) NO.	<u>1</u>	SERIAL NO.	<u>782</u>
ELEVATION (SPIRIT LEVEL)	<u>584.45</u>		
QUADRANGLE	<u>RAVENSWOOD N.E.</u>		
COUNTY	<u>JACKSON</u>	DISTRICT	<u>RAVENSWOOD</u>
POINT OF PROVEN ELEVATION	<u>U.S.G.S. - B.M. Y-83 (1945) Elev. 596</u> <u>Located in 1/2 between Miller & Rolliff at E. R/W Line of B.&O. R.R.</u>		
FILE NO	DRAWING NO.		
DATE	<u>MARCH 14 1969</u>	SCALE	<u>1" = 660'</u>

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. JAC-1173

+ 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.

6-6 Groundhog Creek Deep Well (Newburg) MAR 23 1969



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Rotary
Spudder
Cable Tools
Storage

Quadrangle Ravenswood N.E.

Permit No. JAC 1173

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Commonwealth Gas Corporation
Address P. O. Box 1433, Charleston, W. Va.
Farm Sue Proctor Miller Acres 250 of 628
Location (waters) Ohio River
Well No. 1 (Serial No. 782) Elev. 584.45
District Ravenswood County Jackson
The surface of tract is owned in fee by Sue Proctor Miller
100 Walnut Street Address Ravenswood, W.Va.
Mineral rights are owned by Same
Address Same

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
20" 20"	65'	65'	Kind of Packer <u>none</u>
13-3/8"	362'9"	362'9"	Size of
9-5/8" 9-5/8"	1675'3"	1675'3"	Depth set
8 1/4"			Perf. top <u>PSI nipple</u>
7" 7"	4851'9"	4851'9"	Perf. bottom
5 3/16"			Perf. top
3"			Perf. bottom
2-3/8"	4894'10"	4894'10"	
Liners Used			

Drilling commenced March 24, 1969
Drilling completed April 4, 1969
Date Shot -- From -- To --
With

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 20,000,000 (natural) Cu. Ft.
Rock Pressure 1880 lbs. 48 hrs.
Oil bbls., 1st 24 hrs.

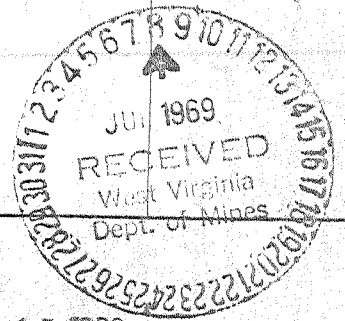
CASING CEMENTED SIZE No. Ft. Date
50 bags behind 13-2/8" csg., 100 bags behind 9-5/8" csg., 100 bags behind 7" csg.
COAL WAS ENCOUNTERED AT FEET INCHES
 FEET INCHES
 FEET INCHES

WELL FRACTURED April 4, 1969 with 865 bbls. water and 30,000# sand

RESULT AFTER TREATMENT 31,000,000 Cu. Ft. 31,000 Mcf
ROCK PRESSURE AFTER TREATMENT 1880

Fresh Water Feet Salt Water Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	20			
Sand & Gravel			20	57			
Shale			57	80			
Red Rock			80	160			
White Sand			160	280			
Slate			280	300			
Pittsburg Sand			300	335			
Coal			335	340			
Sand			340	390			
Shale			390	465			
Sand Wet			465	470			
Shale & Red Rock			470	600		4888	
Sand & Shale			600	960		4209	
Shale & Sand			960	1342		679	
Sand			1342	1344			
Shale Black			1394	1414			
Sand			1414	1425			
Shale			1425	1438			
Big Lime			1438	1523	4888		
Shale			1523	1635	584		
Injun Sand			1635	1655	4304		
Shale			1655	1900			
Shale, with some streaks			1900	2680			
Shale			2680	2700			
Slate & Shells			2700	4100			



Formation	Color	Hard or Soft	Top ⁷	Bottom	Oil, Gas or Water	Depth Found	Remarks
Brown Shale			4100	4123			
✓ Corniferous Lime	403		4123	4209			
Oriskany Sand			4209	4215			
Lime - HELLSBERG # SALINA			4215	4888			
Newburg Sand			4888	4895	Gas	4889 - 95	20,000,000 cu natural
TOTAL DEPTH				4895			
				535			

Date July 3, 1969

APPROVED Commonwealth Gas Corporation, Owner
 By W. S. Gravely, Mgr., Land & Eng. Dept.
 (Title)