

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 200

Signed Aufbauer R.P.E. # 2024

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY	COMMONWEALTH GAS CORPORATION		
ADDRESS	P.O. Box 1433 CHARLESTON, W.VA.		
FARM	LEVI F. JONES		
MAP	OV 38	ACRES	167 3/4
LEASE NO.	1856		
WELL (FARM) NO.	2	SERIAL NO.	776
ELEVATION (SPIRIT LEVEL)	827.8'		
QUADRANGLE	WINFIELD S.W. SC		
COUNTY	PUTNAM	DISTRICT	SCOTT
POINT OF PROVEN ELEVATION	U.S. ARMY CORPS OF ENGINEERS BM. IN FRANEL CHRISTY FENCE LINE 300' WEST OF KANAWHA RIVER EL. 583.075		
FILE NO.	DRAWING NO.		
DATE	OCTOBER 10, 1968	SCALE	1" = 660'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Put. 750

+ 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

Deep Well (Heldberg) 5-5 OCT 21 1968 Scott Dept 212



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Winfield S.W.

WELL RECORD

Oil or Gas Well Gas
(KIND)

Permit No. Put. 750

Company Commonwealth Gas Corporation
Address P.O. Box 1133, Charleston, W. Va. 25325
Farm Levi F. Jones Acres 167-3/4
Location (waters) Lick Run
Well No. 776 Elev. 827.8
District Scott County Putnam
The surface of tract is owned in fee by Levi F. Jones
R.F.D., Winfield, W. Va. Address 25213
Mineral rights are owned by Same
Address Same

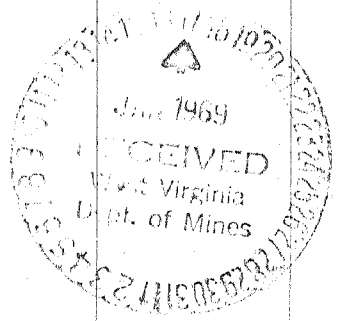
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	52	52	
9-5/8"	1932	1932	Size of Cage
8 3/4			Depth set 4595
6 3/4			
5 3/16			
4-1/2"	4685	4685	Perf. top 4595
2	4648	4648	Perf. bottom 4601
Liners Used			Perf. top
			Perf. bottom

Drilling commenced October 19, 1968
Drilling completed November 26, 1968
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths More in Inch
Volume 140,000 Natural Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls. 1st 24 hrs.

CASING CEMENTED SIZE No. Ft. Date
50 bags behind the 13" casing. 100 bags behind the 9-5/8" casing. 100 bags behind 4-1/2" casing.
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL FRACTURED Nov. 22, 1968 through 4-1/2" casing with 500 gallons of Mud Acid, 10,000% of 0/10 Sand and 564 barrels of water.
RESULT AFTER TREATMENT (370,000 cu. ft.) 370 McF
ROCK PRESSURE AFTER TREATMENT 1650# - 72 hours
Fresh Water Feet Salt Water 1460 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface Soil			0	23			
Sand Stone			23	68			
Sand			68	385			
Shale & Red Rock			385	435			
Sand & Shale			435	460			
Shale & Red Rock			460	520			
COAL			520	525			
Shale			525	591			
Sand			591	815			
Shale & Sand			815	1270			
Sand			1270	1380			
SALT SAND			1380	1595	Salt Water	1460	
Sand			1595	1665			
LITTLE LIME			1665	1685			
Shale			1685	1705	4514	4608	4620
BIG LIME			1705	1805	841	841	841
Shale			1805	1845	3673	3767	3779
BIG INJUN SAND			1845	1925			
Shale			1925	2318			
HIGHTA SAND			2318	2330			
Shale			2330	4514			
CORNUTSROUS LIME			4514	4598			
ORISKANY SAND			4598	4620			
DELDERBURG			4620	4664			
			TOTAL DEPTH	4664			



Note PI Rpt 12/13/68 classifies this well as a development well 6 but GS classifies it as an outpost 5 of the Oriskany pool in Scott-Depot
(over) 4664 4514 150 6981 9 2 NOV JAN 26 1969 JAN 26 1969