

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 A. J. Barney R.P.E. 2024

(W.S.G. N.B. No. 96-Pgs. 47-53)

COMPANY	COMMONWEALTH GAS CORPORATION		
ADDRESS	P.O. BOX 1433 CHARLESTON, W.VA. 25325		
FARM	P.K. FRAVEL HEIRS ETAL		
MAP	WV 11	ACRES	208
		LEASE NO.	1906
WELL (FARM) NO.	3	SERIAL NO.	754
ELEVATION (SPIRIT LEVEL)	942.2		
QUADRANGLE	SAINT ALBANS NE. NC		
COUNTY	PUTNAM	DISTRICT	SCOTT
POINT OF PROVEN ELEVATION	U.S. ARMY CORP OF ENGINEERS RIVER BM TOP OF RIVER BANK IN FRAVEL-CHRISTY LINE ELEV. 583.875'		
FILE NO.	DRAWING NO.		
DATE	NOVEMBER 22, 1966	SCALE	1" = 660'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP

FILE NO. Put-722

+ 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.

3-6 212

Deep Well (Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary:
Spudder:
Cable Tools:
Storage:

Quadrangle St. Albans, N.E.

WELL RECORD

Permit No. Put. 722

Oil or Gas Well Gas
(KIND)

Company Commonwealth Gas Corporation
Address P.O. Box 1433, Charleston, W. Va. 25325
Farm P.K. Fravel Heirs, et al Acres 208
Location (waters) Bills Creek
Well No. 3 (Serial No. 754) Elev. 942.0
District Scott County Putnam
The surface of tract is owned in fee by Betty F. Meadows et al
Address Winfield, W. Va.
Mineral rights are owned by Same
Address _____
Drilling commenced December 4, 1966
Drilling completed February 13, 1967
Date Shot - From - To -
With _____

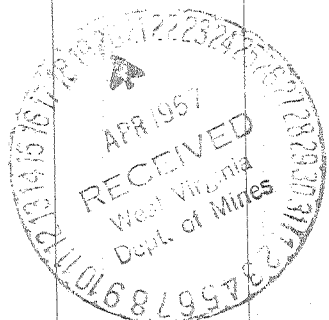
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			---
13	24'	24'	Size of
9-5/8	2463'	2463'	Depth set
8 1/2			Perf. top <u>4745'</u>
6 5/8			Perf. bottom <u>4751'</u>
4 1/2	4882'	4882'	Perf. top _____
3			Perf. bottom _____
2	4774'	4774'	
Liners Used			

Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure 1,450 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED Well Service Acid Treatment through 4 1/2" Casing with 1,000 gallons Acid

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
100 bags behind 4 1/2" casing. - 97 bags behind 9-5/8" casing. Squeezed with 15 bags.
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT 855,000 Cu. Ft.
ROCK PRESSURE AFTER TREATMENT 1,450 lbs.
Fresh Water 765 Feet Salt Water 1,300 Feet 1,600

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	24			
Sandstone			24	35			
Shale & Red Rock			35	106			
Shale & Sand			106	140			
Shale & Red Rock			140	290			
Sand & Shale			290	325			
Shale & Red Rock			325	345			
Shale & Lime			345	365			
Shale & Red Rock			365	400			
Shale & Lime			400	415			
Shale & Red Rock			415	450			
Shale & Lime			450	545			
Sand & Shale			545	615			
Sandy Lime & Shale			615	715			
Sand			715	765	Water	765	
Sand & Shale			765	775			
Shale			775	865			
Sand & Shale			865	905			
Shale			905	930			
Sand & Shale			930	1,300			
Sand		(Soft)	1,300	1,330	Water	1,300	
Shale			1,330	1,420			
Salt Sand			1,420	1,560			
Sand & Shale			1,560	1,600			
Sand & Lime Shells			1,600	1,660	Water	1,600	Hole Full
Red Rock & Shale			1,660	1,690			
Sand & Shale			1,690	1,700			
Shale Black			1,700	1,715			
Lime & Shell			1,715	1,740			



(over)

Formation	Color	Hard or Soft	Top γ	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			1,740	1,895			
Lime & Shale			1,895	1,930			
Injun Sand			1,930	1,950			
Sandy Shale			1,950	1,980			
Sand			1,980	2,025			
Sandy Shale			2,025	2,125			
Sandy Shale & Dolomite			2,125	2,380			
Coffee Shale			2,380	2,410			
Berea Sand			2,410	2,430			
Shale			2,430	4,650			
Corniferous Lime			4,650	4,735			
Oriskany Sand			4,735	4,750			
Sand & Shale			4,750	5,422	Gas	4,765	
Newburg Sand			5,422	5,432			
Sand & Shale			5,432	5,525			
TOTAL DEPTH				5,525			

5525
4750
775 expl. H.

NOTE: This Well was dry in Newburg Sand. Plugged back to 4,880 and produced from Oriskany Sand - Final Open Flow 855,000 cu. ft.

Date April 17, 19 67

APPROVED COMMONWEALTH GAS CORPORATION, Owner

By W. S. Gravely, Land & Eng. Dept.

(Title)