

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 G of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Arthur Y. Barney R.P.E. No. 2024

SURVEY JAN. 4, 1963 - W.S.G. NOTE BOOK No. 90 Pg. 2

- New Location .
- Drill Deeper
- Redrill
- Abandonment

9 WC (G-16)

Company COMMONWEALTH GAS CORPORATION

Address P.O. BOX 1433 CHARLESTON, W. VA.

Farm KATHREN BERGDOLL

Tract _____ Acres 286 Lease No. 2270

Well (Farm) No. 1 Serial No. 696

Elevation (Spirit Level) 923.25' (CORRECTED ELEVATION)

Quadrangle MOOREFIELD-S.W.

County HARDY District SOUTH FORK

Engineer Arthur Y. Barney

Engineer's Registration No. 2024

File No. _____ Drawing No. _____

Date JAN. 18, 1963 Scale 1" = 660'

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

WELL LOCATION MAP

FILE NO. HARDY-4

+ 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

100 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Moorefield S. W.

Permit No. Hardy 4

WELL RECORD

Oil or Gas Well Dry Hole
(KIND)

Company COMMONWEALTH GAS CORPORATION
Address P. O. Box 1433, Charleston 25, W. Va.
Farm Kathren Kuhn Bergdoll Acres 286
Location (waters) South Branch Potomac River
Well No. 696 Elev. 923.25
District South Fork County Hardy
The surface of tract is owned in fee by Kathren Kuhn Bergdoll
Address Moorefield, W. Va.
Mineral rights are owned by Same
Address Same
Drilling commenced February 7, 1963
Drilling completed April 24, 1963
Date Shot From To
With _____
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Dry hole Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
13 2 1/2"	22' 2"	22' 2"	
10	27' 1/2"	27' 1/2"	Size of
8 1/4	1482'	1482'	Depth set
6 3/4			
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

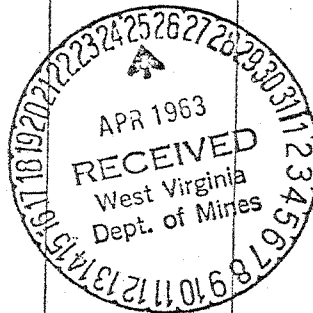
CASING CEMENTED SIZE No. Ft. Date
10 bags cement behind the 13" casing and 15 bags cement behind the 8" casing
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water 36, 70, 122 Feet 325 Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	15			
Shell			15	25			
BROWN SHALE			25	528	Water	36'	1/4 bailer per hr
Lime			528	768	Water	70'	1-1/2 " " "
BROWN SHALE			768	790	Water	122'	2 " " "
Limey Shale			790	1057	Water	325'	Hole full
BROWN SHALE			1057	1265	Gas	488'	Smell
Grey Shale			1265	1374			
BROWN SHALE			1374	1480			
ORISKANY SAND			1480	1647		1482'	S.L.M.
Black Slate			1647	1920			
ORISKANY SAND			1920	1935			
Black Shale			1935	1962			
ORISKANY SAND			1962	2160			
Sandy Lime			2160	2205			
Lime & Chert			2205	2214			
		TOTAL DEPTH		2214			



1374
923
451

Well logs ran on this well.
Don't have any



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Moorefield S. W.

Permit No. Hardy 4

WELL RECORD

Oil or Gas Well Dry Hole

Company COMMONWEALTH GAS CORPORATION
Address P. O. Box 1433, Charleston 25, W. Va.
Farm Kathren Kuhn Bergdoll Acres 286
Location (waters) South Branch Potomac River
Well No. 696 Elev. 923.25 Rig 11805
District South Fork County Hardy
The surface of tract is owned in fee by Kathren Kuhn Bergdoll
Address Moorefield, W. Va.
Mineral rights are owned by Same
Address Same

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
13 22 1/2"	22'2"	22'2"	
10	271'2"	271'2"	Size of
8 1/4	1482'	1482'	
6 3/4			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced February 7, 1963
Drilling completed April 24, 1963
Date Shot From To
With
Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
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WELL ACIDIZED
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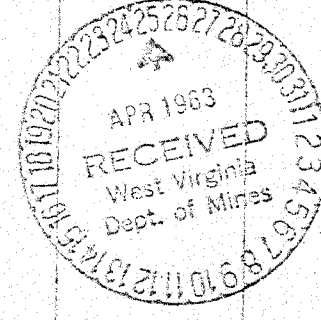
RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

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ORISKANY SAND			1920	1935			
Black Shale			1935	1962			
ORISKANY SAND			1962	2160			
Sandy Lime			2160	2205			
Lime & Chert			2205	2214			
TOTAL DEPTH				2214			

485



Well logs run on this well.

Don't have any (over)