

- Fracture
- New Location
- Drill Deeper
- Abandonment Issued 4/25/67

Minimum Error of Closure less than 1 in 2000
 Source of Elevation U.S.G.S B.M. Elev. 1023.4 on culvert
 Headwall

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.

Signed: William P. Foley
 Squares: N S E W

Company D.K. Moore The Manufacturers Light & Heat Co.
 Address Hundred W.Va.
 Farm R.S. & E. Clouis
 Tract _____ Acres 132 Lease No. _____
 Well (Farm) No. 2437 Serial No. _____
 Elevation (Spirit Level) 1033.4
 Quadrangle Mannington NC
 County Monongalia District Battelle
 Engineer William P. Foley
 Engineer's Registration No. 4449
 File No. _____ Drawing No. _____
 Date 8/31/66 Scale 1" = 500'

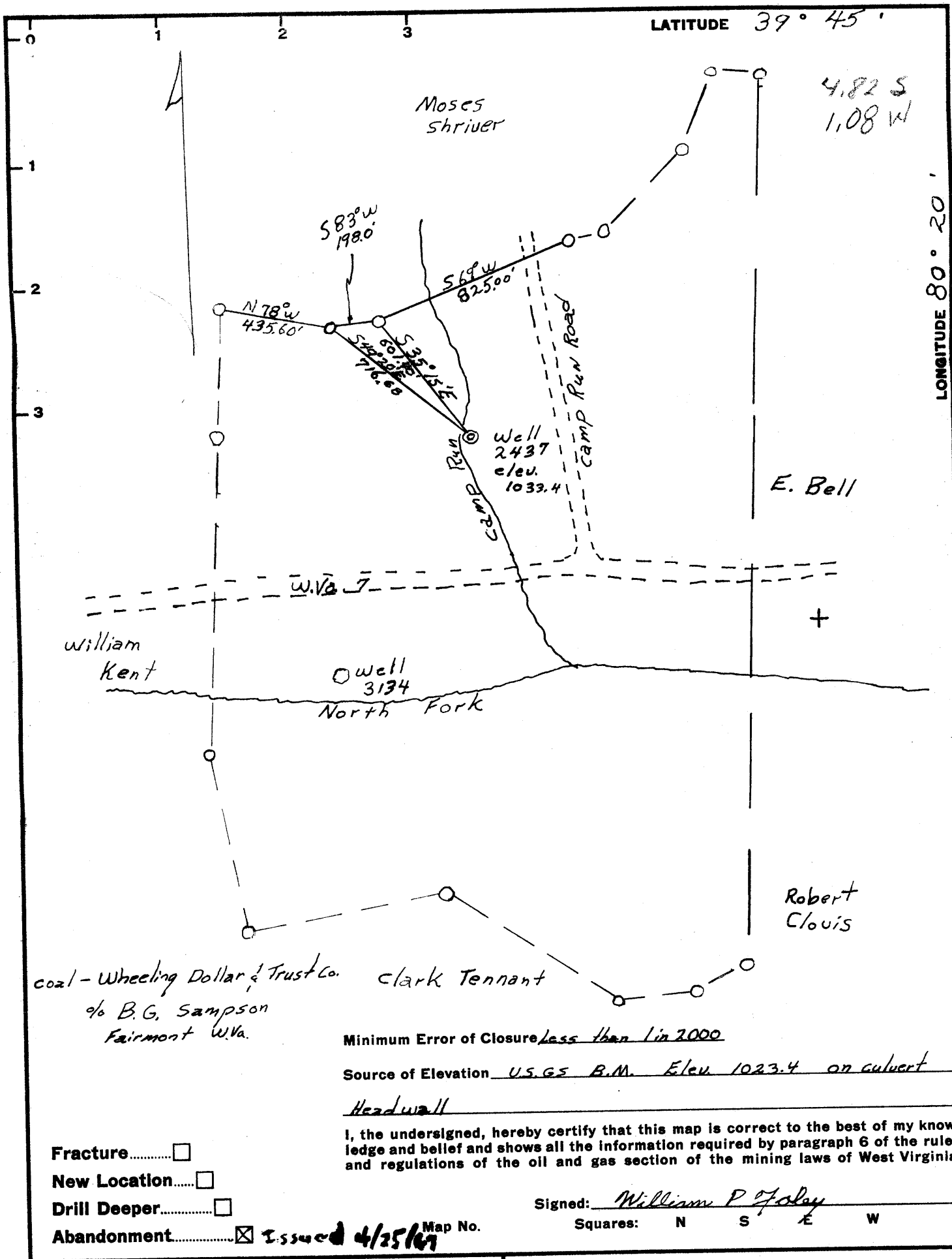
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. Permit 6729
PERMIT To Run Issued 4/25/67

+ 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.



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Source of Elevation U.S.G.S B.M. Elev 1023.4 on culvert Headwall

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- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment..... Issued 4/25/67 Map No.

Company D.K. Moore The Manufacturers Light & Heat Co.
 Address Hundred W.Va.
 Farm R.S. & E. Clovis
 Tract _____ Acres 132 Lease No. _____
 Well (Farm) No. 2437 Serial No. _____
 Elevation (Spirit Level) 1033.4
 Quadrangle Mannington - NC
 County Monongalia District Battelle
 Engineer William P. Foley
 Engineer's Registration No. 4449
 File No. _____ Drawing No. _____
 Date 8/31/66 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. 707-67210
 PERMIT TO DRILL ISSUED 4/25/67

+ 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.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 8

Rotary
Spudder
Cable Tools
Storage

Quadrangle Mannington

WELL RECORD

Permit No. MON-672A

Oil or Gas Well Gas
(KIND)

Company Manufacturers Light & Heat Company
Address Hundred, West Virginia
Farm R. S. & E. Clovis Acres 132
Location (waters) Wadestown, West Virginia
Well No. 2437 Elev. 1033.4
District Battelle County Monongalia
The surface of tract is owned in fee by R. S. & E. Clovis
Wadestown, West Virginia
Address Wadestown, W.Va.
Mineral rights are owned by R. S. & E. Clovis
Wadestown, W.Va.
Address Wadestown, W.Va.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	127-7		Size of
10	1376-11	849-2	Depth set
8 1/4	1758-11	2076-5	
5 3/16	2076-5	2076-5	
4 1/2		2295	Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Drilling commenced June 12, 1919
Drilling completed August 15, 1919
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co.
COAL WAS ENCOUNTERED AT 820 FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS)

WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

ROCK PRESSURE AFTER TREATMENT HOURS

Fresh Water Feet Salt Water Feet

Producing Sand Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Line			5	10		5	
Red Rock			100	180		80	
Red Rock			300	350		50	
Shale			410	414		4	
Bluff Sand			455	475		20	
Waynesburg Coal			475	480		5	
Sand			520	555		35	
Mapletown Coal			732	737		5	
Pittsburg Coal			820	828		8	
Big Dunkard Sand			1312	1345		33	
1st Salt Sand			1520	1579		59	
2nd salt sand			1582	1670		88	
3rd salt sand			1690	1725		45	
Big Line			2040	2113		73	
Big Injun Sand			2113	2320		207	
Line & Slate			2320	2760		440	
Fifty foot Sand			2760	2809		48	
Slate			2808	2815		7	
Thirty foot Sand			2815	2847		32	
Slate			2847	2865		18	
Gordon Stray Sand			2865	2885		20	
Slate			2885	2915		30	
Gordon Sand			2915	2940		25	
Slate			2940	2965		25	
Fourth Sand			2965	3030		65	
Slate			3030	3035		5	
Sand			3035	3045		10	
Slate & Line			3045	3094		49	
15th Sand			3094	3118		24	

Formation	Color	Hard or Soft	Top 8	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			3118	3220		102	
Bayard Sand			3220	3226		6	
Slate			3226	3278		52	
Total Depth				3278			

Date April 13

APPROVED A. K. Moore

By _____ (Title)

MA