

SURVEY ACCURACY 1 TO 500
MAP ACCURACY 1 TO 100

39° 40'
99 57 30

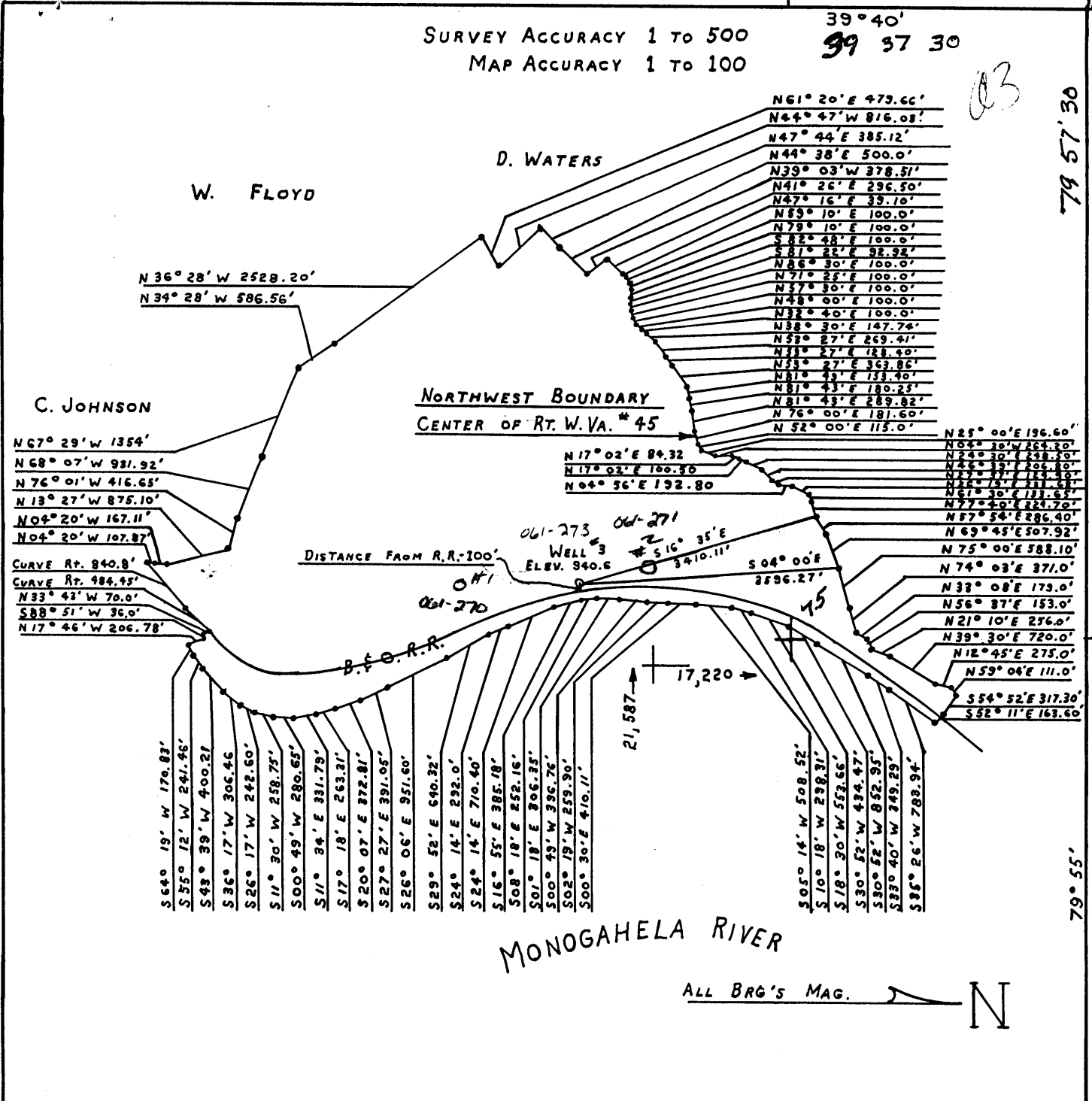
4100

79 57 30

0088

79° 55'

03



I, the undersigned, hereby certify that this map is correct to the best of my knowledge 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 W.Va.

[Signature]

New Location
Drill Deeper
Abandonment - 11/2/88
FRAC

Company Hydrocarbon Service Company
Address P.O. Box 976 - Buckhannon, WV. 26201

Farm MORGANTOWN 'ORDNANCE WORKS
Tract _____ Acres 824.65 Lease No. _____
Well (Farm) No. 3 Serial # _____
Elevation (Spirit Level) 940.6
Quadrangle MORGANTOWN / Morgantown south 7.5
County MONONGALIA District GRANT
Engineer [Signature]
Engineer's Registration No. 3165
File No. _____ Drawing No. _____
Date 6-9-64 Scale 1" = 2000'

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston

WELL LOCATION MAP
File No. MON-273-FRAC
+ 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.

MON 273-P

SURVEY ACCURACY 1 TO 500
MAP ACCURACY 1 TO 100

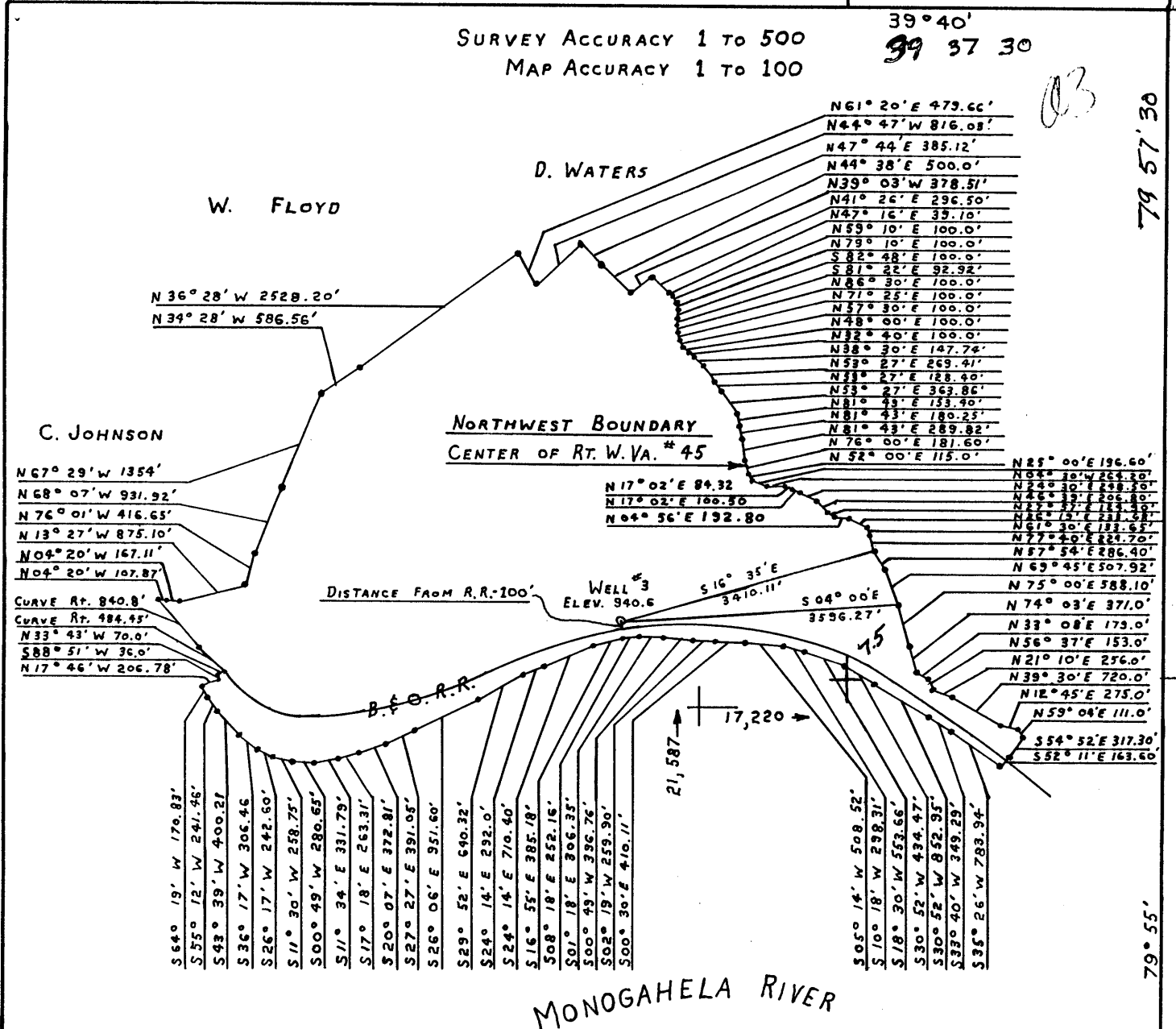
39° 40'
99 37 30

4100

79 57 30

0088

79° 55'



MONOGAHELA RIVER

ALL BRG'S MAG. N

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[Signature]

- New Location
- Drill Deeper
- Abandonment
- FRAC

Company BORG WARNER CHEMICALS
 Address P.O. BOX 1868, PARKERSBURG, WV 26102
 Farm MORGANTOWN ORDNANCE WORKS
 Tract _____ Acres 824.65 Lease No. _____
 Well (Farm) No. 3 Serial # _____
 Elevation (Spirit Level) 940.6
 Quadrangle MORGANTOWN / Morgantown south 75
 County MONONGALIA District GRANT
 Engineer [Signature]
 Engineer's Registration No. 3165
 File No. _____ Drawing No. _____
 Date 6-9-64 Scale 1" = 2000'

State of West Virginia
 Department of Mines
 Oil and Gas Division
 Charleston

WELL LOCATION MAP
 File No. MON-273-FRAC
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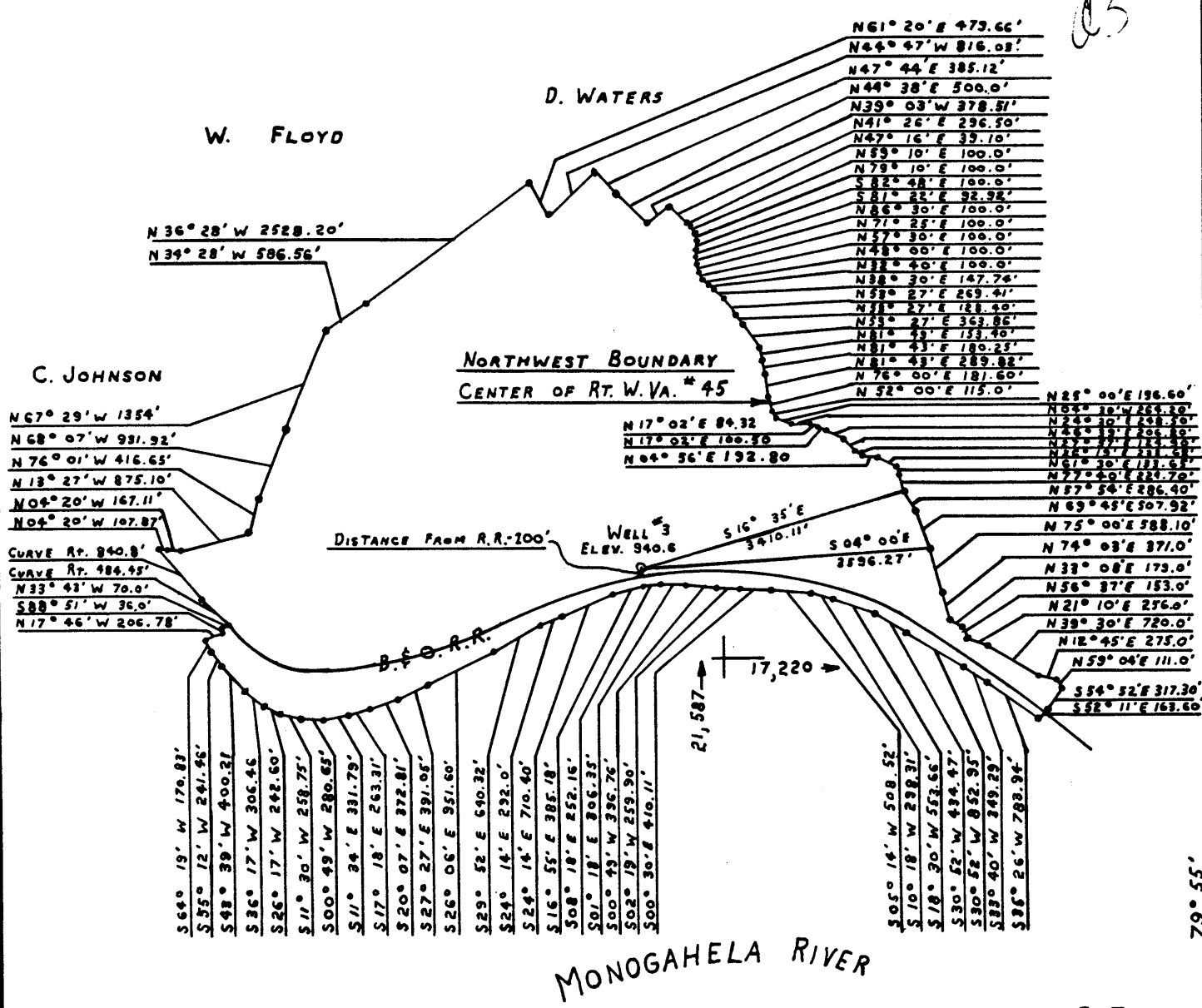
MON 273 FRAC.

FEB 3 1987

SURVEY ACCURACY 1 TO 500
MAP ACCURACY 1 TO 100

39° 40'

CB



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[Signature]

- New Location
- Drill Deeper
- Abandonment
- FRAC

Company BORG WARNER CHEMICALS
 Address P.O. BOX 1868, PARKERSBURG, WV 26102
 Farm MORGANTOWN, ORDNANCE WORKS
 Tract _____ Acres 824.65 Lease No. _____
 Well (Farm) No. 3 Serial # _____
 Elevation (Spirit Level) 940.6
 Quadrangle MORGANTOWN
 County MONONGALIA District GRANT
 Engineer *[Signature]*
 Engineer's Registration No. 3145
 File No. _____ Drawing No. _____
 Date 6-9-64 Scale 1" = 2000'

State of West Virginia
 Department of Mines
 Oil and Gas Division
 Charleston

WELL LOCATION MAP
 File No. MON-273-FRAC

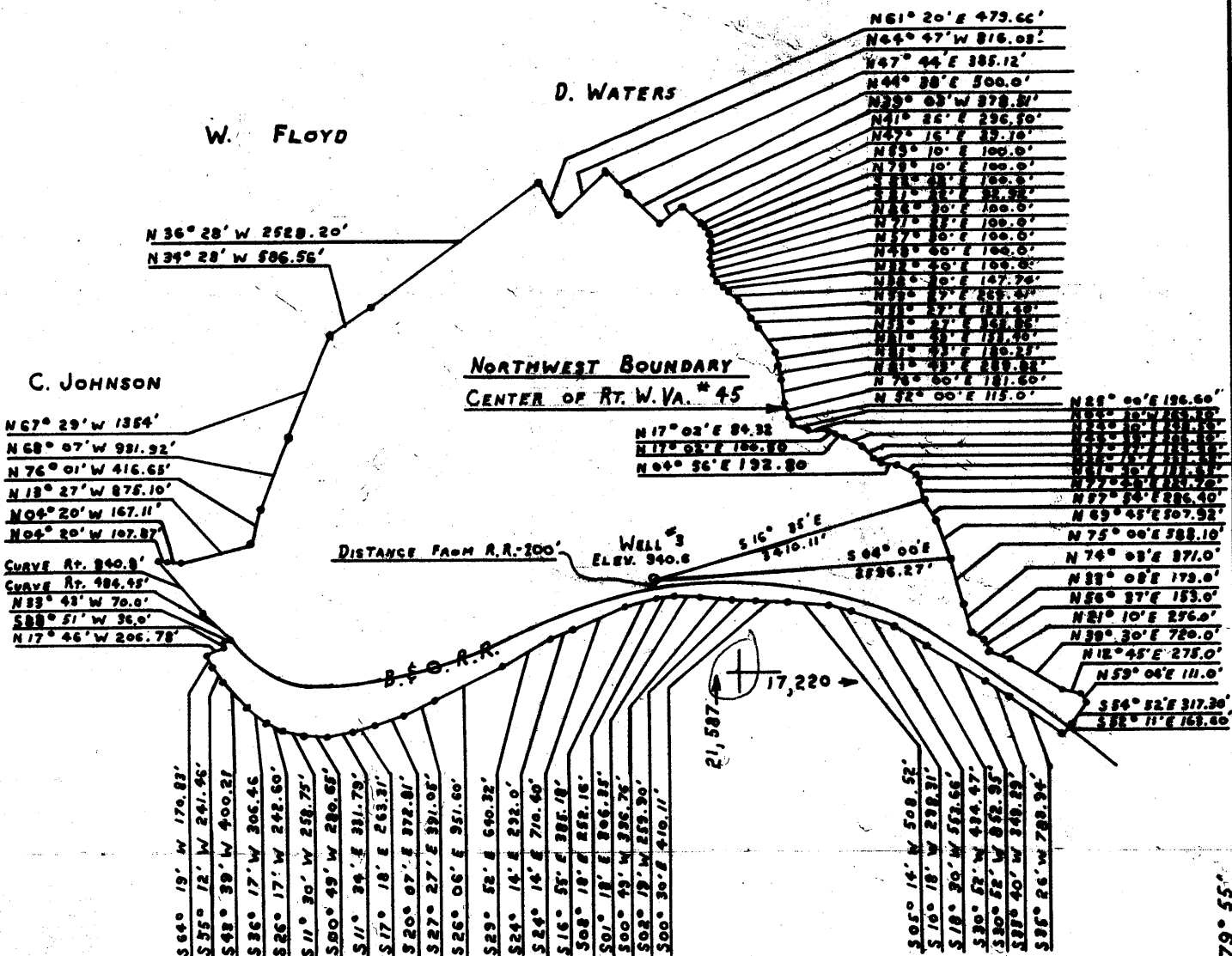
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- Denotes one inch spaces on border line of original tracing.

NOV 07 1963

SURVEY ACCURACY 1 TO 500
MAP ACCURACY 1 TO 100

39° 40'



4.52-S
~~4.52-S~~
3.0-W
2.95-W

I, the undersigned, hereby certify that this map is correct to the best of my knowledge 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 W.Va.

[Signature]

- New Location
- Drill Deeper
- Abandonment

Company J. W. RUBY
 Address MORGANTOWN, W. VA.
 Farm MORGANTOWN ORDNANCE WORKS
 Tract _____ Acres 824.65 Lease No. _____
 Well (Farm) No. 3 Serial # _____
 Elevation (Spirit Level) 940.6
 Quadrangle MORGANTOWN WC
 County MONONGALIA District GRANT
 Engineer [Signature]
 Engineer's Registration No. 3145
 File No. _____ Drawing No. _____
 Date 6-9-64 Scale 1" = 2000'

State of West Virginia
 Department of Mines
 Oil and Gas Division
 Charleston

WELL LOCATION MAP
 File No. MON-273

† 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 22

Rotary
Spudder
Cable Tools
Storage

Quadrangle Morgantown
Permit No. Mon-273

WELL RECORD

Oil or Gas Well Gas
(KIND)

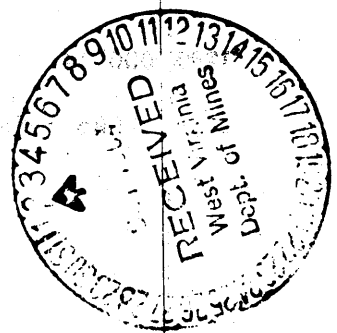
Company J. W. Ruby
Address P. O. Box 798
Farm M. O. W. Acres 824.65
Location (waters) Monongalia River
Well No. 3 Elev. 940.6'
District Grant 798 County Monongalia
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by J. W. Ruby
P. O. Box 798 Address Morgantown, W.Va.
Drilling commenced July 25, 1964
Drilling completed October 22, 1964
Date Shot _____ From _____ To _____
With _____
Open Flow 28 /10ths Water in 1" Orifice 55,760 Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure 600 lbs. 24 hrs.
Dil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	30	30	Size of
8 1/4	293		
6 5/8	926	926	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 190 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED _____
RESULT AFTER TREATMENT _____
ROCK PRESSURE AFTER TREATMENT _____
Fresh Water 50 346 Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	Yellow	Soft	0	31	Little Water	50'	
Sand	Gray	Hard	31	88			
Slate	Brown	Soft	88	101			
Sand	Gray	Hard	101	134			
Slate	Gray	Soft	134	148			
Slate	Brown	Soft	148	172			
Sand	Gray	Hard	172	190			
Coal	Black	Soft	190	193			
Sand	Brown	Hard	193	198			
Slate	Gray	Soft	198	216			
Slate	Brown	Soft	216	229			
Slate & Shells	Gray	Hard	229	239			
Sand	Gray	Hard	239	278			
Slate	Brown	Soft	278	326	Coal 346-348 Water in Coal		
Lime	Gray	Hard	326	340			
Slate	Brown	Soft	340	349			
Slate	Gray	Soft	349	447			
Salt Sand	Gray	Hard	447	518			Show of Gas 518'
Slate	Gray	Soft	518	531			
2nd Salt Sand	Gray	Hard	531	612			Water Sand 558
Slate & Shells	Gray	Hard	612	621			
Lime	Gray	Hard	621	630			Show Gas 637 - 642
Slate	Brown	Soft	630	668			
Lime	Gray	Hard	668	689			
Red Rock	Red	Soft	689	697			
Lime	Gray	Hard	697	709			
Slate & Shells	Brown	Soft	709	718			



Formation	Color	Hard or Soft	Top 22	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock	Red	Soft	718	736			
Slate	Gray	Soft	736	755			
Sand	Gray	Hard	755	772			
Slate & Shells	Gray	Medium	772	810			
Red Rock	Red	Soft	810	815			
Lime	Gray	hard	815	824			
Red Rock	Red	Soft	824	838			
Slate & Lime	Gray	Hard	838	868	914	1000	
Little Lime	Gray	Hard	868	881	941	941	
Slate	Gray	Soft	881	889	- 59		
Red Rock	Red	Soft	889	892	+ 27		
Lime	Gray	Hard	892	899			
Slate	Gray	Soft	899	906			
Lime	Gray	Hard	906	911			
Slate	Gray	Soft	911	914			
Big Lime	Gray	Hard	914	986			
Sand	Gray	Hard	986	995	Show Gas	986 - 988	
Red Rock	Red	Soft	995	1000			
Injun Sand	Gray	Hard	1000	1119	Show Gas	1202 17,000	Test
Slate & Shells	Gray	Medium	1130	1214			
Squaw Sand	Gray	Hard	1214	1304			
Slate & Shells	White	Soft	1304	1435			
Sand	Gray	Hard	1435	1441			
Slate	Gray	Soft	1441	1449	Show Gas	1443-1446	Test: 8/10 w. 1" P 23,000
Sand	Gray	Hard	1449	1470	Gas: 1460 - 1464		
Slate	Gray	Soft	1470	1496			
		TOTAL DEPTH		1496			

Date October 29, 19 64

APPROVED [Signature], Owner

By [Signature] Vice President
(Title)



1) Date: September 5, 19 83
 2) Operator's Well No. _____
 3) API Well No. 47 - 061 - 273-FRAC
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
 5) LOCATION: Elevation: 640.6' Watershed: Monongahela River
 District: Grant County: Monongahela Quadrangle: Morgantown South
 6) WELL OPERATOR Borg Warner Chemicals DESIGNATED AGENT Arthur T. Sandy
 Address P.O. 1868 Address P.O. Box 1868
Parkersburg, W.V. 26102 Parkersburg, W.V. 26102
 8) OIL & GAS INSPECTOR TO BE NOTIFIED DRILLING CONTRACTOR:
 Name William Blosser Name _____
 Address Rt. 4 Box 317 Address _____
Fairmont, W.V. 26564
 10) PROPOSED WELL WORK: Drill _____ / Drill deeper / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Big Injun and/ or Berea
 12) Estimated depth of completed well, _____ feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling		Left in well	Kinds
Conductor	10"	Original drilling				30'	30'		
Fresh water	8-1/4"	"				293'			
Coal									
Intermediate	6-5/8"	"				926'	926'		
Production	4-1/2"	proposed for stimulation					T.D.	CTS	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-061-0273-FRAC

November 3, 1983
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires November 3, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
<u>BB</u>	<u>OK</u>	<u>PS</u>	<u>T/S</u>	<u>201089</u>

[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

RECEIVED
Department of Energy
MAY 23 89
Office of Director
Oil and Gas Division

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

*D.K.
R.S.*

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: MORGANTOWN ORDNANCE WKS Operator Well No.:3

LOCATION: Elevation: 940.60 Quadrangle: MORGANTOWN SOUTH
District: GRANT County: MONONGALIA
Latitude: 8800 Feet South of 39 Deg. 37 Min. 30 Sec.
Longitude 4100 Feet West of 79 Deg. 57 Min. 30 Sec.

Well Type: OIL _____ GAS x

Company: WV Department of Energy Coal Operator none known
J. W. Ruby or Owner _____
P. O. Box 798 _____
Morgantown, WV _____

Agent: _____ Coal Operator _____
Inspector: Don Ellis or Owner _____
Permit Issued: 11/02/88 _____

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Upshur ss:

Mike Riffle and Phil Pulliam being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by WV Department of Energy, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 20th day of April, 1989, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement 50 sk.	1496	1200		
Gel 6%	1200	1000		
Cement 25 sk.	1000	915	506' of 7" csq.	420'
Gel 6%	915	120		
Cement 75 sk.	120	surface	0	32' of 10 3/4"

Description of monument: 7" marker 8 ft. long. 4 ft. in ground 4 ft. above ground with API#.

and that the work of plugging and filling said well was completed on the 25th day of April, 1989.

And further deponents saith not.

Phil Pulliam
Michael Rife
Joyce K. Harlow
Notary Public

Sworn and subscribe before me this 1st day of May, 1989
My commission expires: June 16, 1993

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Joyce K. Harlow
Route 1, Box 217-B, French Creek, 26210
My commission expires June 16, 1993

JUN 16 1989