

BENCH MARK DESCRIPTION

U.S.G.S. Standard Disk Stamped  
 L-98-1956 in Headwall Along W. Va. Sec.  
 Rt. No 32 And About 2300' East of W. Va.  
 Secondary Rt. N33 1/2 At Derricks Ck.  
 Elev. 644.00'

Reissued as 2476

- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.  
 The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

Company RAY BROTHERS CORP  
718 KANAWHA VALLEY BLDG.  
 Address CHARLESTON, W. VA. 25301  
 Farm OTTO B. JOHNSON, ET. AL.  
 Tract \_\_\_\_\_ Acres 305 Lesse No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. 1  
 Elevation (Spirit Level) 951.75'  
 Quadrangle KENNA SW  
 County KANAWHA District POCA  
 Engineer Adrian E. Hardman  
 Engineer's Registration No. \_\_\_\_\_  
 File No. 58-71 Drawing No. \_\_\_\_\_  
 Date MARCH 6, '69 Scale 1" = 400'

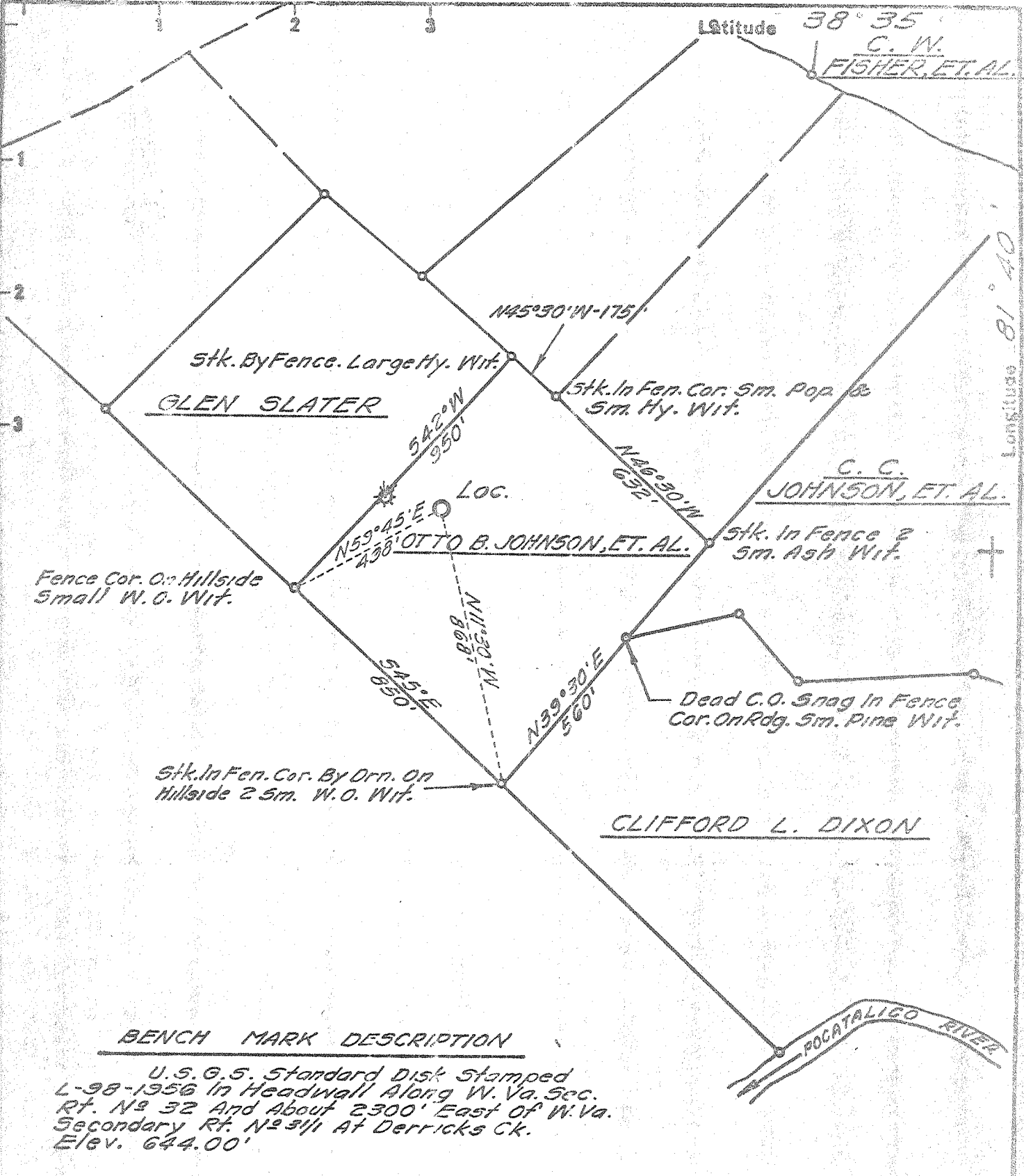
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. KAN-2372  
 Care: Reissued as 2426

+ 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.

3/21/69



**BENCH MARK DESCRIPTION**

U.S.G.S. Standard Disk Stamped  
 L-98-1956 in Headwall Along W. Va. Sec.  
 Rt. No 32 And About 2300' East of W. Va.  
 Secondary Rt. No 311 At Derricks Ck.  
 Elev. 644.00'

- Fracture Before 6/5/29
  - New Location
  - Drill Deeper
  - Redrill
  - Abandonment
- Waud 9-19-69

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Company RAY BROTHERS CORP  
718 KANAWHA VALLEY BLDG.  
 Address CHARLESTON, W. VA. 25301

Farm OTTO B. JOHNSON, ET. AL.

Tract \_\_\_\_\_ Acres 305 Lease No. \_\_\_\_\_

Well (Farm) No. 1 Serial No. 1

Elevation (Spirit Level) 951.75'

Quadrangle KENNA SW

County KANAWHA District POCA

Engineer Adrian E. Hardman

Engineer's Registration No. \_\_\_\_\_

File No. 58-71 Drawing No. \_\_\_\_\_

Date MARCH 6, '69 Scale 1" = 400'

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

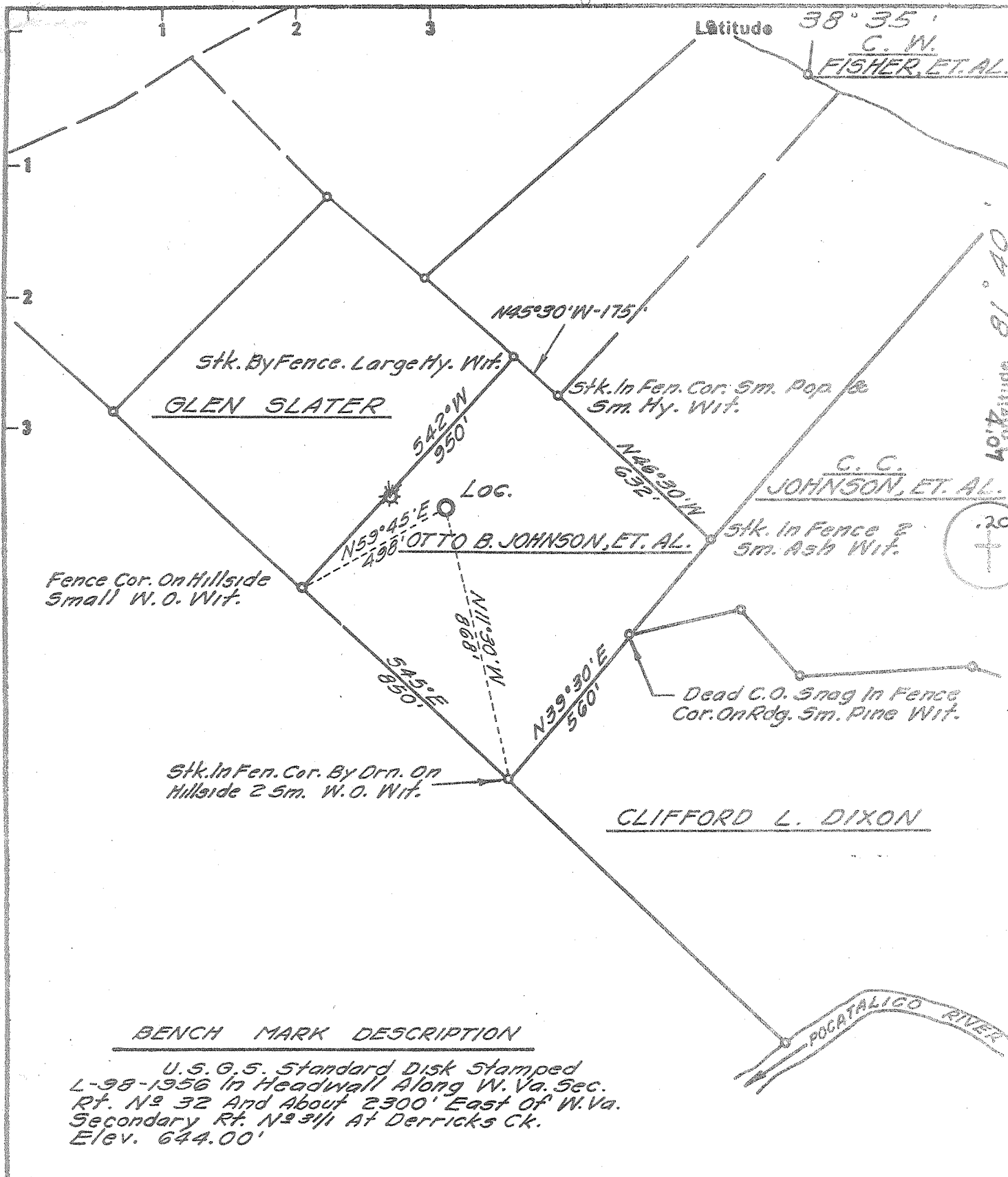
**WELL LOCATION MAP**  
 FILE NO. KAN-2373

Reissued under KAN-24-26-P

+ 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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Deep Well (Newburg)



BENCH MARK DESCRIPTION

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 L-98-1956 in Headwall Along W. Va. Sec.  
 Rt. No 32 And About 2300' East of W. Va.  
 Secondary Rt. No 311 At Derricks Ck.  
 Elev. 644.00'

- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

Company RAY BROTHERS CORP  
 Address 718 KANAWHA VALLEY BLDG. CHARLESTON, W. VA. 25301  
 Farm OTTO B. JOHNSON, ET. AL.  
 Tract \_\_\_\_\_ Acres 305 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. 1  
 Elevation (Spirit Level) 951.75'  
 Quadrangle KENNA SW  
 County KANAWHA District POCA  
 Engineer Norman E. Hardman  
 Engineer's Registration No. \_\_\_\_\_  
 File No. 58-71 Drawing No. \_\_\_\_\_  
 Date MARCH 6, '69 Scale 1" = 400'

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

**WELL LOCATION MAP**

FILE NO. KAN-2372

Reissued under KAN-2426  
 + 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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*Deep Well (Newburg)*



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Kenna

Permit No. KAN-2426  
Formerly KAN-2372

**WELL RECORD**

Gas Well Dry  
(KIND)

Company Ray Brothers Corporation  
Address 630 Commerce Sq., Chas., W. Va. 25301  
Farm Otto B. Johnson Acres 305  
Location (waters) Derricks Creek  
Well No. One Elev. 952'  
District Poca County Kanawha  
The surface of tract is owned in fee by Otto B. Johnson et al  
Charleston, W. Va.  
Mineral rights are owned by Otto B. Johnson, et al  
Charleston, W. Va.  
Drilling commenced September 10, 1969  
Drilling completed September 18, 1969  
Date Shot None From \_\_\_\_\_ To \_\_\_\_\_  
Liners Used \_\_\_\_\_  
Open Flow  /10ths Water in \_\_\_\_\_ Inch  
 /10ths Merc. in \_\_\_\_\_ Inch  
Volume None Cu. Ft.  
Rock Pressure None lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) None  
WELL FRACTURED (DETAILS) None  
RESULT AFTER TREATMENT (Initial open flow or bbls.) N.A.  
ROCK PRESSURE AFTER TREATMENT N.A. HOURS \_\_\_\_\_  
Fresh Water \_\_\_\_\_ Feet  
Producing Sand (Proposed Newburg) Salt Water Salt Sand Feet 1500'  
Depth 5,876' - 5,889'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
<b>Cementing Records:</b>							
13 3/8"			set at 135'				- cemented to surface with 100 sx. cement (Dowell)
8 5/8"			set at 2,151'				- cemented to surface with 500 sx. cement (Dowell) (400 sx. Litepoz and 100 sx. common - tail in)
5 1/2"			set at 5,840'				- cemented back to 5,340' * with 100 sx. common cement.
<b>Formation Record:</b>							
Soil			0	20			
Red Rock & Shale			20	135			
Shale & Sand			135	300			
Br. Shale			300	750			
Sand			750	850			
Gr. Shale			850	1365			
Salt Sand			1365	1755	Salt Water	1500'	Filled Hole
Little Lime			1755	1828			
Big Lime			1828	1989			
Shale			1989	1999			No gas
Injun Sand			1999	2095	5876	5876	
Shale			2095	5016	5110	952	
Lime (Conif.)			5016	5110	766	4924	
Oris. Sand			5110	5145			
Lime & Dolomite			5145	5876			
Newburg Sand			5876	5889			Hole damp no gas
Lime & Dolomite		<i>McKenzie</i>	5889	5980			
Total Depth				5980			