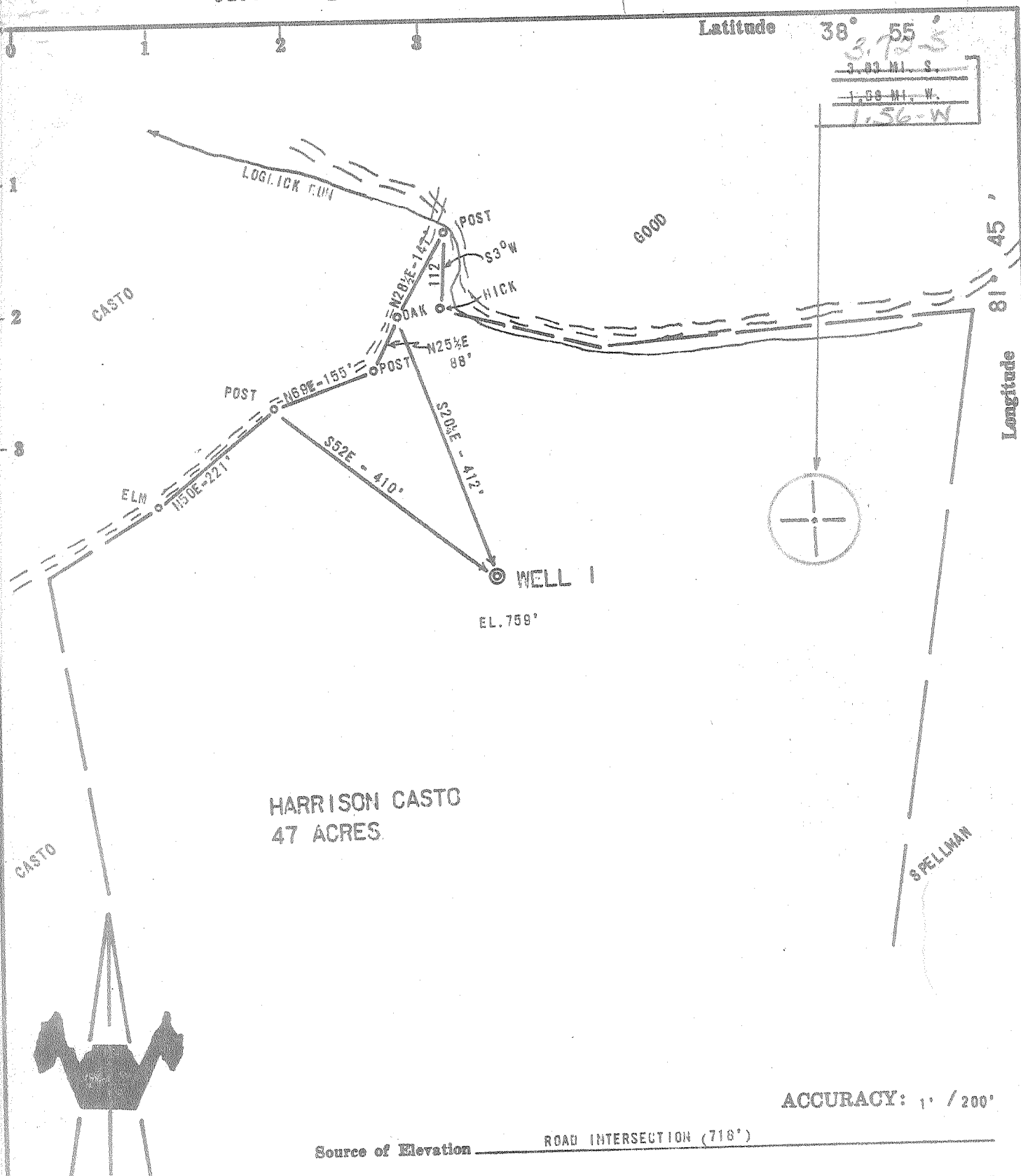


Latitude 38° 55' *3.75 S*

3.00 MI. S.  
1.00 MI. W.  
1.56-W



HARRISON CASTO  
47 ACRES.

ACCURACY: 1" / 200'

Source of Elevation ROAD INTERSECTION (718')

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.

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

*Chet Waterman*

Company	COLONIAL GAS CO., INC. W. C. STALDIKER	
Address	1596 Kanawha Blvd., East, CHARLESTON, W. VA.	
Farm	HARRISON CASTO	
Tract	Acres 47	Lease No. _____
Well (Farm) No.	1	Serial No. _____
Elevation (Spirit Level)	759'	
Quadrangle	RAVENSWOOD EC	
County	JACKSON	District UNION
Engineer	CHET WATERMAN	
Engineer's Registration No.	3788	
File No.	70003-246	Drawing No. _____
Date	7/1/70	Scale 1" = 200'

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

WELL LOCATION MAP

FILE NO. *JAC-1221*

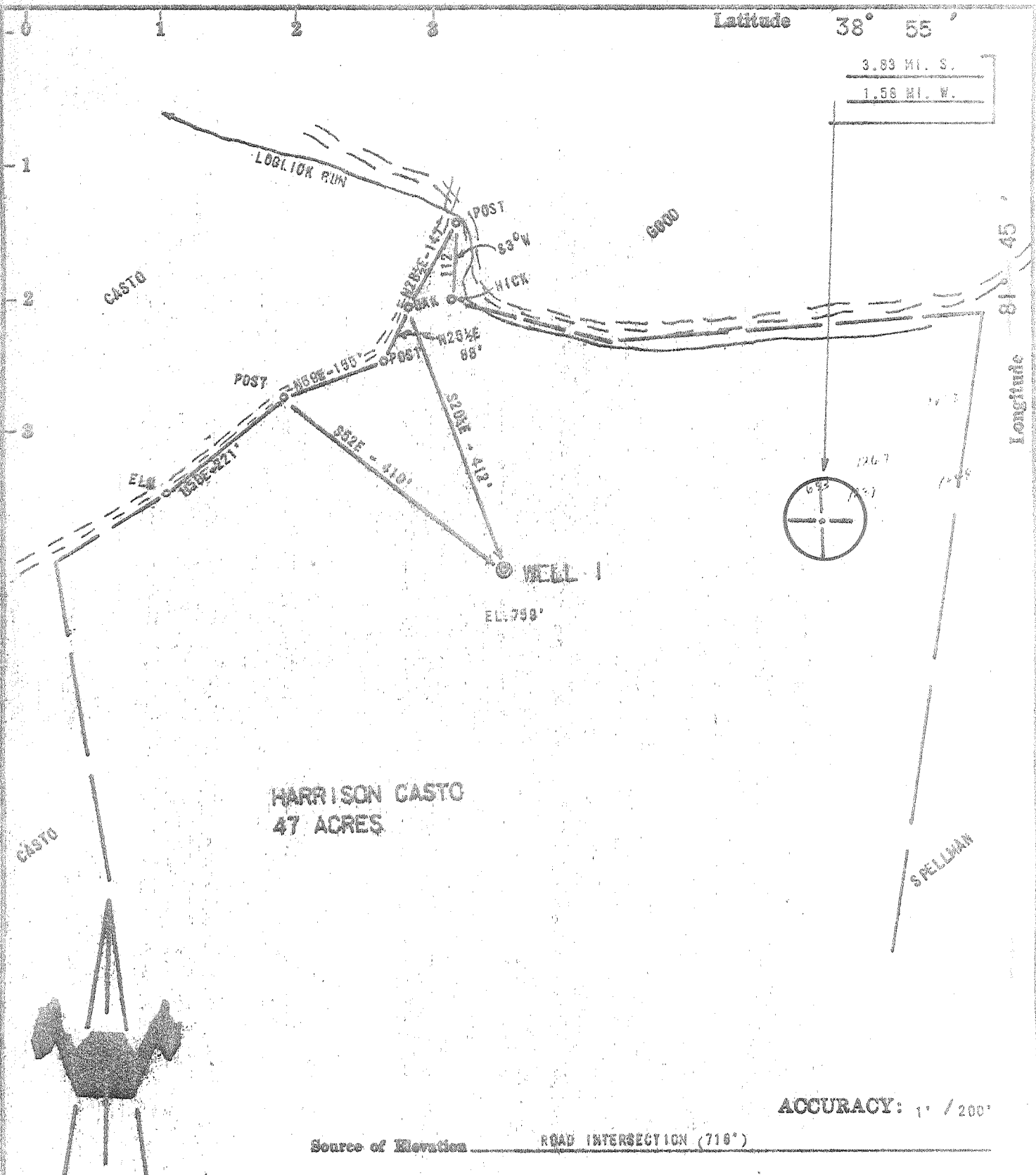
*Trans. to Jac-1253*

+ 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.

*6-6 Ripley 311*

*Deep Well (Newburg)*



HARRISON CASTO  
47 ACRES

ACCURACY: 1" / 200'

Source of Elevation ROAD INTERSECTION (710')

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

5-6-74

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.

Company STALWORTH Robt. J. Gas

Address 7598 Kanawha Blvd. East, Charleston, W. Va.

Farm HARRISON CASTO

Tract Acres 47 Lease No. \_\_\_\_\_

Well (Farm) No. 1 Serial No. \_\_\_\_\_

Elevation (Spirit Level) 759'

Quadrangle RAVENSWOOD EC

County JACKSON District UNION

Engineer CHET WATERMAN

Engineer's Registration No. 8788

File No. 70003-245 Drawing No. \_\_\_\_\_

Date 7/1/70 Scale 1" = 200'

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

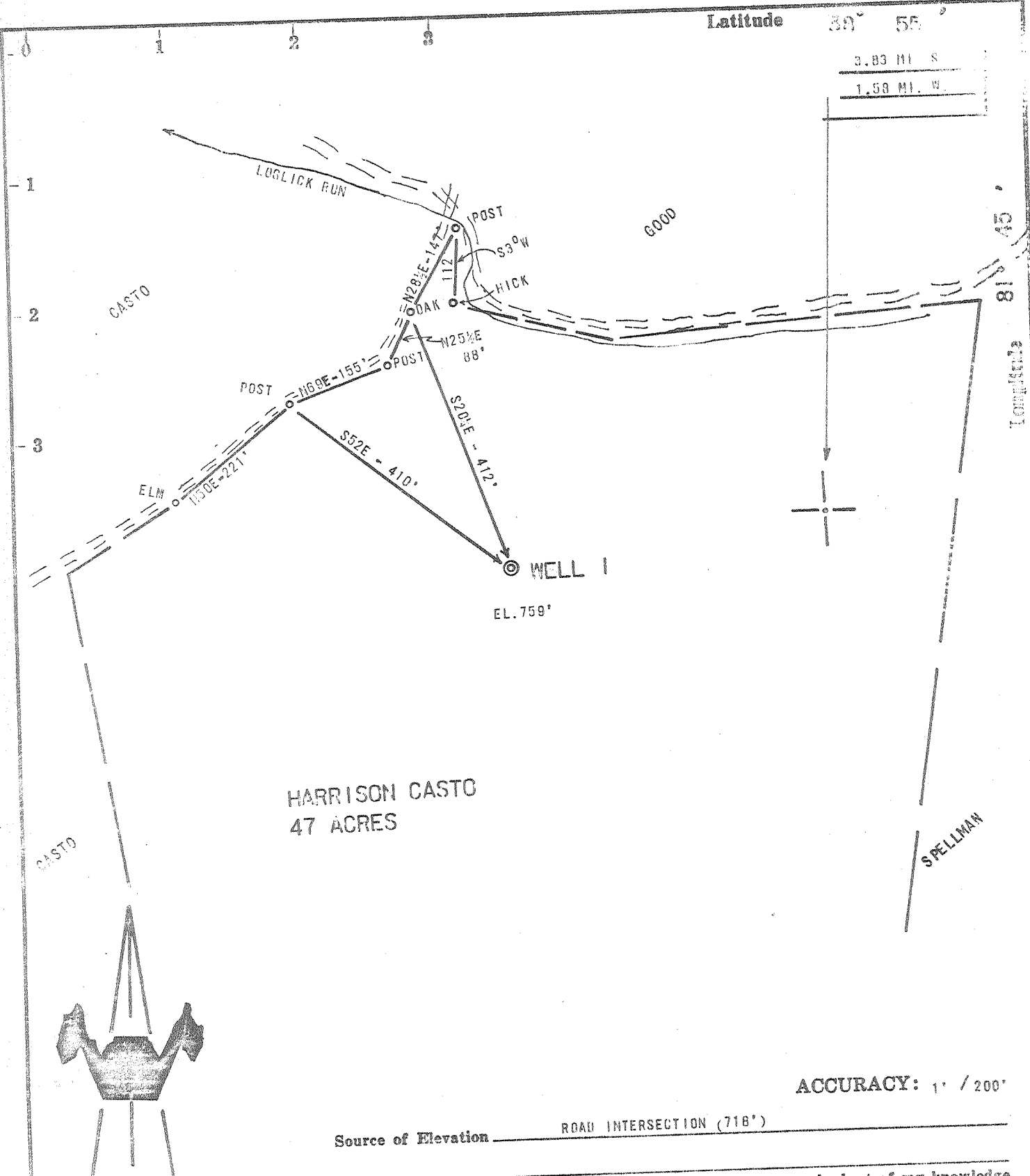
WELL LOCATION MAP

FILE NO. 70003-245-1021

Trans. to Gas-1253-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.

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

47 035  
Deep Well  
JUN 5 1974



HARRISON CASTO  
47 ACRES

ACCURACY: 1' / 200'

Source of Elevation ROAD INTERSECTION (718')

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.

*Chet Waterman*

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

Company W. C. STALNAKER  
 Address CHARLESTON, W. VA.  
 Farm HARRISON CASTO  
 Tract Acres 47 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 759'  
 Quadrangle RAVENSWOOD EC  
 County JACKSON District UNION  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 70003-246 Drawing No. \_\_\_\_\_  
 Date 7/1/70 Scale 1" = 200'

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

**WELL LOCATION MAP**  
 FILE NO. JAC-1221  
 TRANSFERRED TO JAC-1253

+ 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.

WF



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

Rotary   
 Spudder   
 Cable Tools   
 Storage  E. FORM  
 Oil or Gas Well  **Gas**  
(KIND)

Quadrangle Ravenswood  
 Permit No. Jac-1253

**WELL RECORD**

Company Colonial Gas Company  
 Address 1596 Kanawha Blvd, E., Charleston, W. Va.  
 Farm Harrison Casto Acres 47  
 Location (waters) Log Lick Run  
 Well No. One (1) Elev. 766 KB  
 District Union County Jackson  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced 11/30/70  
 Drilling completed 12/18/70  
 Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock Pressure 2175 lbs. 30 min hrs.  
 Oil \_\_\_\_\_ bbls. 1st 24 hrs.  
 WELL ACIDIZED (DETAILS) 500 gal MCH  
 WELL FRACTURED (DETAILS) Yes; 15000 gal MCH  
of 20-40 sand breakdown 3000 average fracture pressure  
 RESULT AFTER TREATMENT (Initial open Flow or bbls.) 11,000.00  
 ROCK PRESSURE AFTER TREATMENT 2175 HOURS 1.5  
 Fresh Water None Feet \_\_\_\_\_ Salt Water None Feet \_\_\_\_\_  
 Producing Sand Newburg Depth 5297'

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10 3/4	200	200	
8 1/2 5/8	2075	2075	Depth set
6 1/2			
5 1/2	5264	5264	Perf. top
4 1/2			Perf. bottom
3			Perf. top
2			Perf. bottom
Liners Used			

Attach copy of cementing record.  
 CASING CEMENTED Yes SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
 Amount of cement used (bags) See other side  
 Name of Service Co. Halliburton  
 COAL WAS ENCOUNTERED AT None FEET \_\_\_\_\_ INCHES \_\_\_\_\_  
 FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_  
 FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_  
 FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	10			
Sand, Shale & Red Rock			10	1120			
Sand & Shale			1120	1665			
Limestone - Bigline			1665	1815			
Shale } 340			1815	1835			
Big Injun			1835	1965			
Siltstone & Shale			1965	2025			
Shale			2025	4510			
Corniferous Lm. 463			4510	4600			
Oriskany Sandstone			4600	4607			
Limestone & Dolomite (HELLERSBERG & SALINA)			4607	5297			
Newburg Sandstone			5297	5306			
Dolomite McKenzie			5306	5320			
				5320 - TOTAL DEPTH			
				545			

VED  
 JAN 25 1971

*Notes: Top and Bottom for Newburg taken from PI Card.*

Formation	Color	Hard or Soft	Top $\angle$	Bottom	Oil, Gas or Water	Depth Found	Remarks
<b>CASING RECORD:</b>							
11/30/70							10-3/4" casing @ 200 ft. cemented to surface
12/8/70							8-5/8" casing @ 2075 ft. cemented w/150 sx.
12/15/70							5-1/2" casing @ 5264 ft. cemented w/160 sx.

Date January 2, 19 71

APPROVED Colonial Gas Co., Owner

By [Signature]  
(Title)