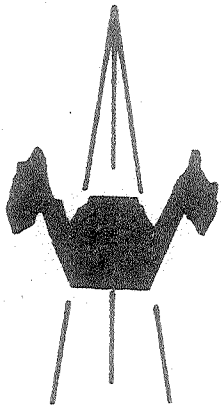
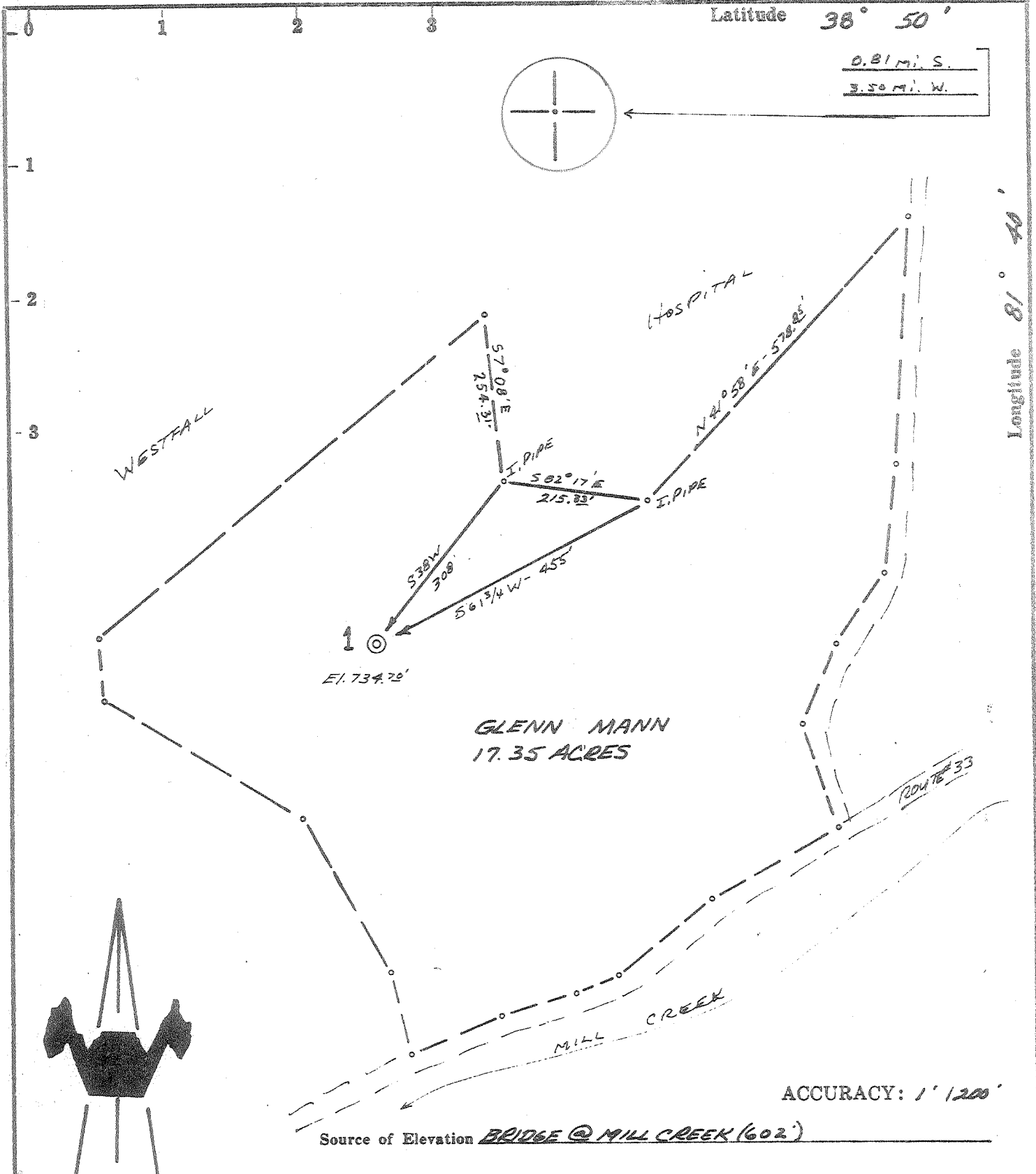


Latitude 38° 50'

0.81 Mi. S.
3.50 Mi. W.



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

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 portion of the mining laws of West Virginia.

issued 2-28-79

Chet Waterman

JACKSON DEVELOPMENT Co. for
 Company WV. DEPT OF MINES OIL & GAS DIV
 Address PO Bx. 498 HAMLIN WV 25523
 Farm GLENN MANN
 Tract _____ Acres 17.35[±] Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 734.7'
 Quadrangle RIPLEY SW
 County JACKSON District RIPLEY
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 69003-943 Drawing No. _____
 Date 12/13/69 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO. JAC-1188-P

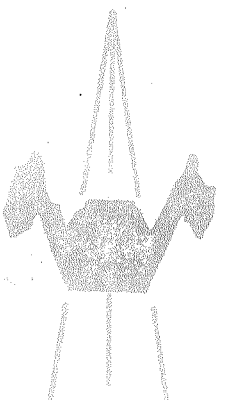
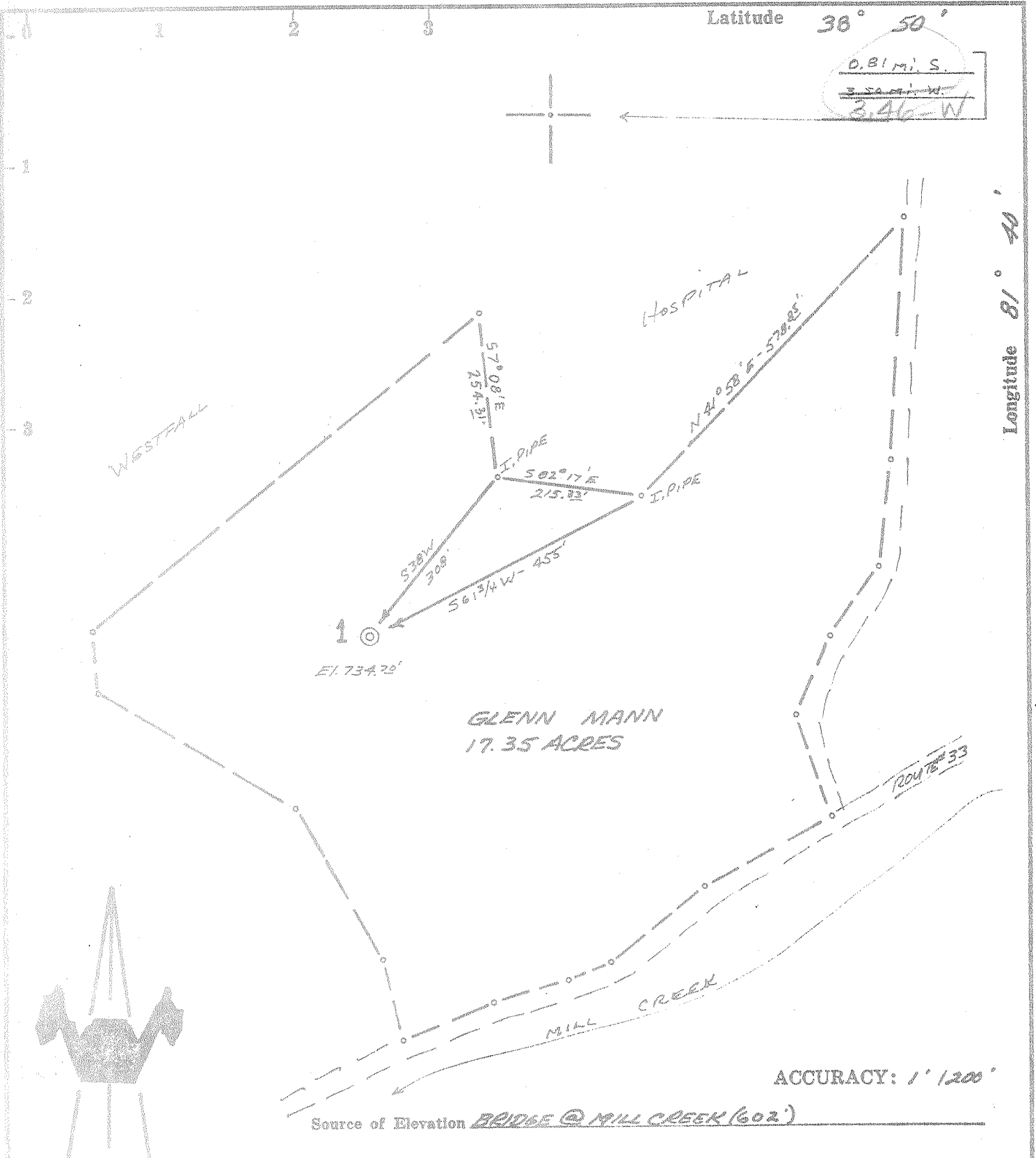
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

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

47-035

Deep Well

MAR 21 1979



Source of Elevation BRIDGE @ MILL CREEK (602')

ACCURACY: 1' 1200'

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

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.

Issued 3-10-70

Chet Waterman

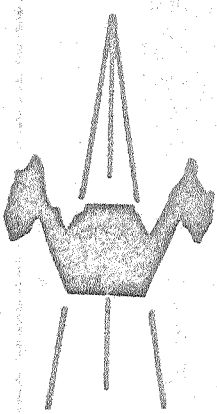
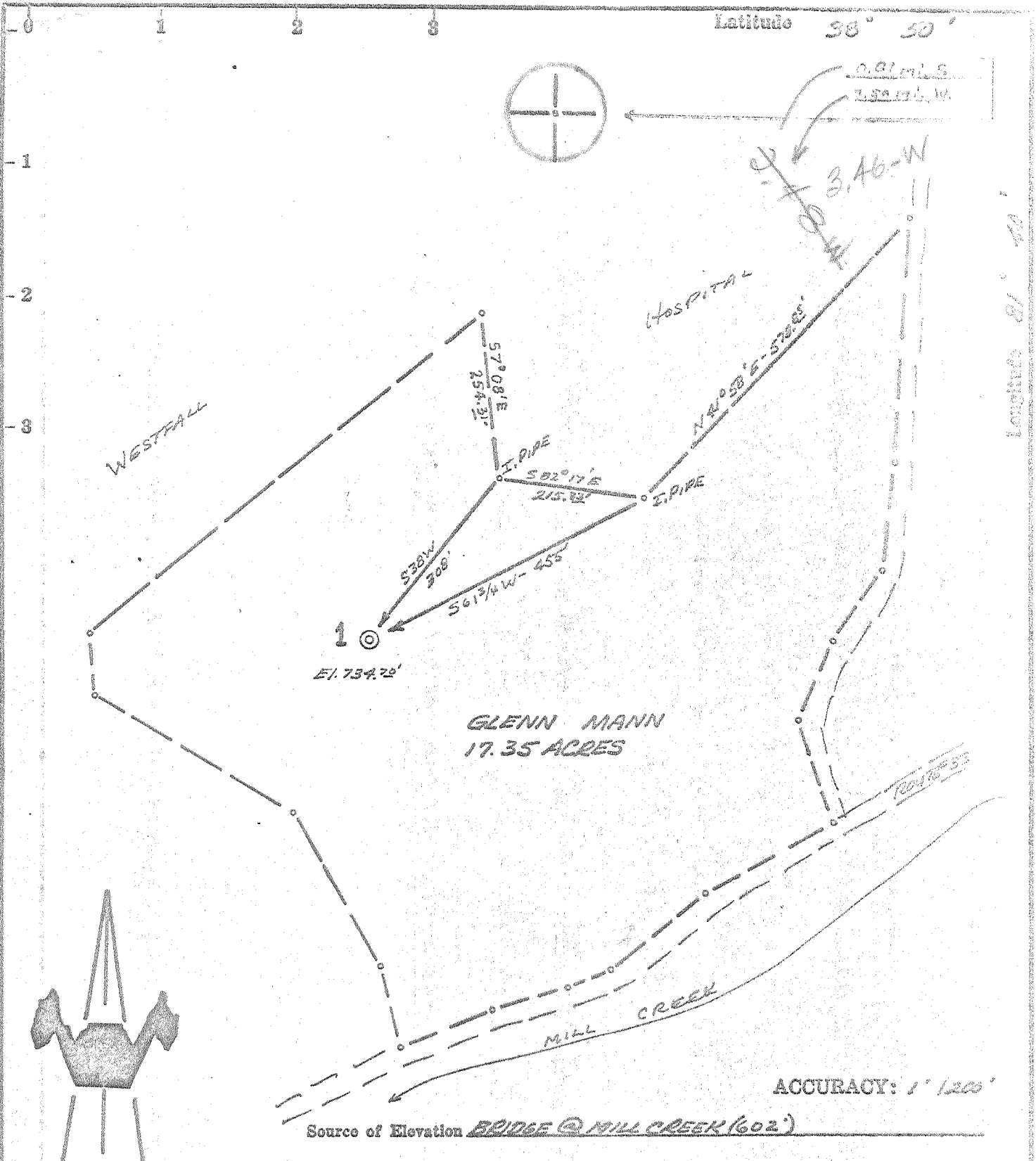
Company R & S GAS & OIL
 Address CHARLESTON, W. VA.
 Farm GLENN MANN
 Tract Acres 17.35 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 734.7'
 Quadrangle RIPLEY SW
 County JACKSON District RIPLEY
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 69003-943 Drawing No. _____
 Date 12/13/69 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO. JAC-1188-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.

1/10/69



Source of Elevation BRIDGE @ MILL CREEK (602')

ACCURACY: 1" = 200'

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

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

Company R.E.S. GAS & OIL
 Address CHARLESTON, W.VA.
 Farm GLENN MANN
 Tract Acres 17.35 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 724.7'
 Quadrangle RIPLEY SW
 County JACKSON District RIPLEY
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 69003-243 Drawing No. _____
 Date 12/13/69 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO. MC-1188

+ 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.

Deep Well (Newburg)

6-0 Ripley 311

JAN 02 1970



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Rotary
Spudder
Cable Tools
Storage

Quadrangle Ripley
Permit No. Jac - 1188

WELL RECORD

Oil or Gas Well dry
(KIND)

Company R & S Gas and Oil, Inc.
Address Charleston, W. Va.
Farm Glenn Mann Acres 17.35
Location (waters) Mill Creek
Well No. 1 Elev. 746 KB
District Ripley County Jackson
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 2-28-70
Drilling completed 3-10-70
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.
WELL ACIDIZED (DETAILS) No
WELL FRACTURED (DETAILS) No
RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water _____ Feet _____ Salt Water 5588' Feet
Producing Sand _____ Depth _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	31'	31'	Size of
10			Depth set
8 5/8	2061'	2061'	Perf. top
6 5/8			Perf. bottom
5 3/16			Perf. top
4 1/2			Perf. bottom
3			
2			
Liners Used			

Attach copy of cementing record. 13 31' 2-28
CASING CEMENTED 8 5/8 SIZE 2061' No. Ft. 3-6 Date
Amount of cement used (bags) 13" 25 bags; 8 5/8 (390 sks)
Name of Service (13" Well Service) (8 5/8 Haliburton)
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandy shale			45	250			
White sand	-18 P.H.S?		250	350			
Sandy shale			350	500			
Red & Green shale			500	545			
Green shale			545	580			
Grey sandy shale			580	1160			
Grey shale			1160	1305			
White sand			1305	1510			
Grey Sandy shale			1510	1660			
Log Depths							
Salt sand			1660	1750			
Sand & shale			1750	1780			
Sand <u>Sand</u>			1780	1820			
laxon			1820	1895			
Big Lime			1895	1962			
lun			1962	2038			
Shale			2038	2352			
Coal. Shale			2352	2388			

RECEIVED
MAR 20 1970

OIL & GAS DIVISION
DEPT. OF MINES

(over)

Formation	Color	Hard or Soft	Top ζ	Bottom	Oil, Gas or Water	Depth Found	Remarks
Perea			2388	2497			
Shale			2497	4730			
Corn. - 463			4730	4830			
Cris.			4830	4856			
Lime - Helderberg			4856	5072			
Dolomite - Salina			5072	5587			
Newburg			5587	5598	Show gas & water		
Dolomite & shale		McKenzie	5598	5625			
Total Depth			5625 (Driller - 5594)				
			5587	5587			
			746	4830			
			4841	757			

Date _____, 19__

APPROVED _____, Owner

By _____ (Title)