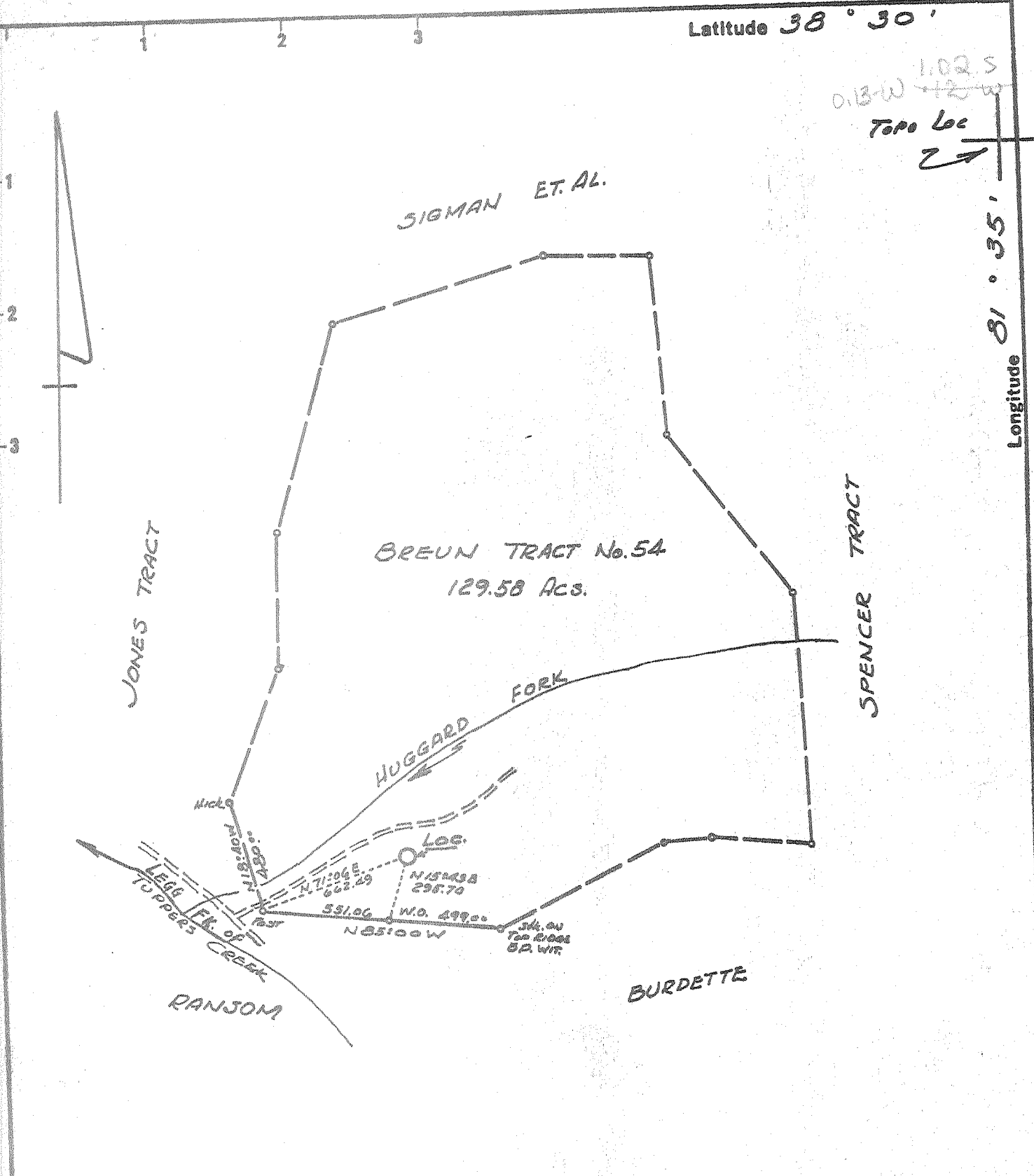


Latitude 38° 30'

Longitude 81° 35'

1.02.5
0.13 W 12 W
Topo Loc
Z



- New Location
- Drill Deeper
- Abandonment

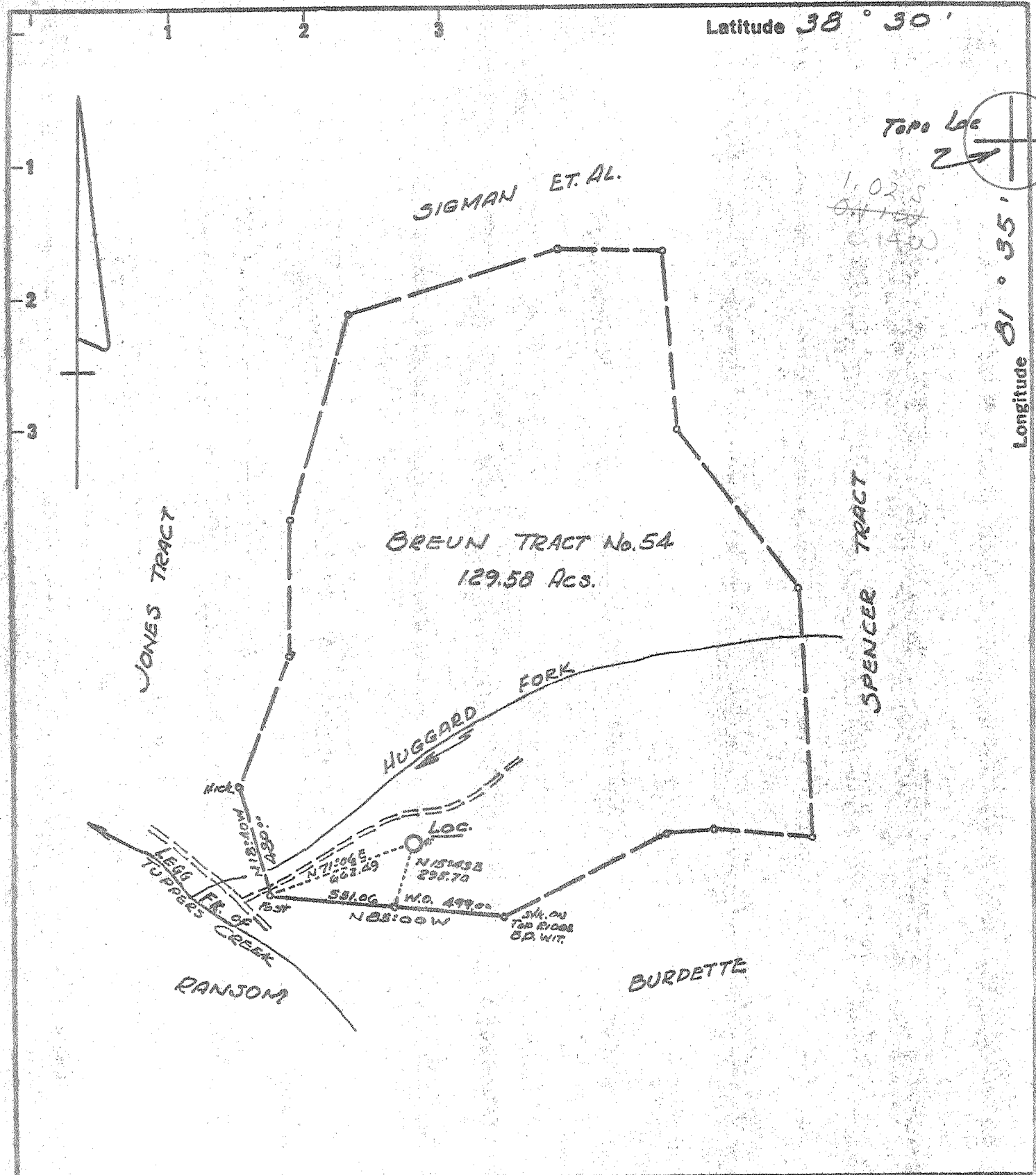
Minimum Error of Closure 1 in 200
 Source of Elevation BM 702 Me. HUGGARD Fork

"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 HARRY A. HOLTOM
 Address 808 HIGH ST, WORTHINGTON, OHIO
 Farm BREUN TRACT No. 54
 Tract _____ Acres 129.58 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 783.0
 Quadrangle CHARLESTON NC
 County KANAWHA District POCA
 Engineer N. G. Saylor
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 10-24-70 Scale 1" = 600'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. KAN-2487

+ 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.



~~New Location~~
 Drill Deeper
 Abandonment
Partial Plugging
 1334 ed -- 5-5-71

Minimum Error of Closure 1 in 200
 Source of Elevation BM 703 Mo. HUGGARD Fork
 "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."

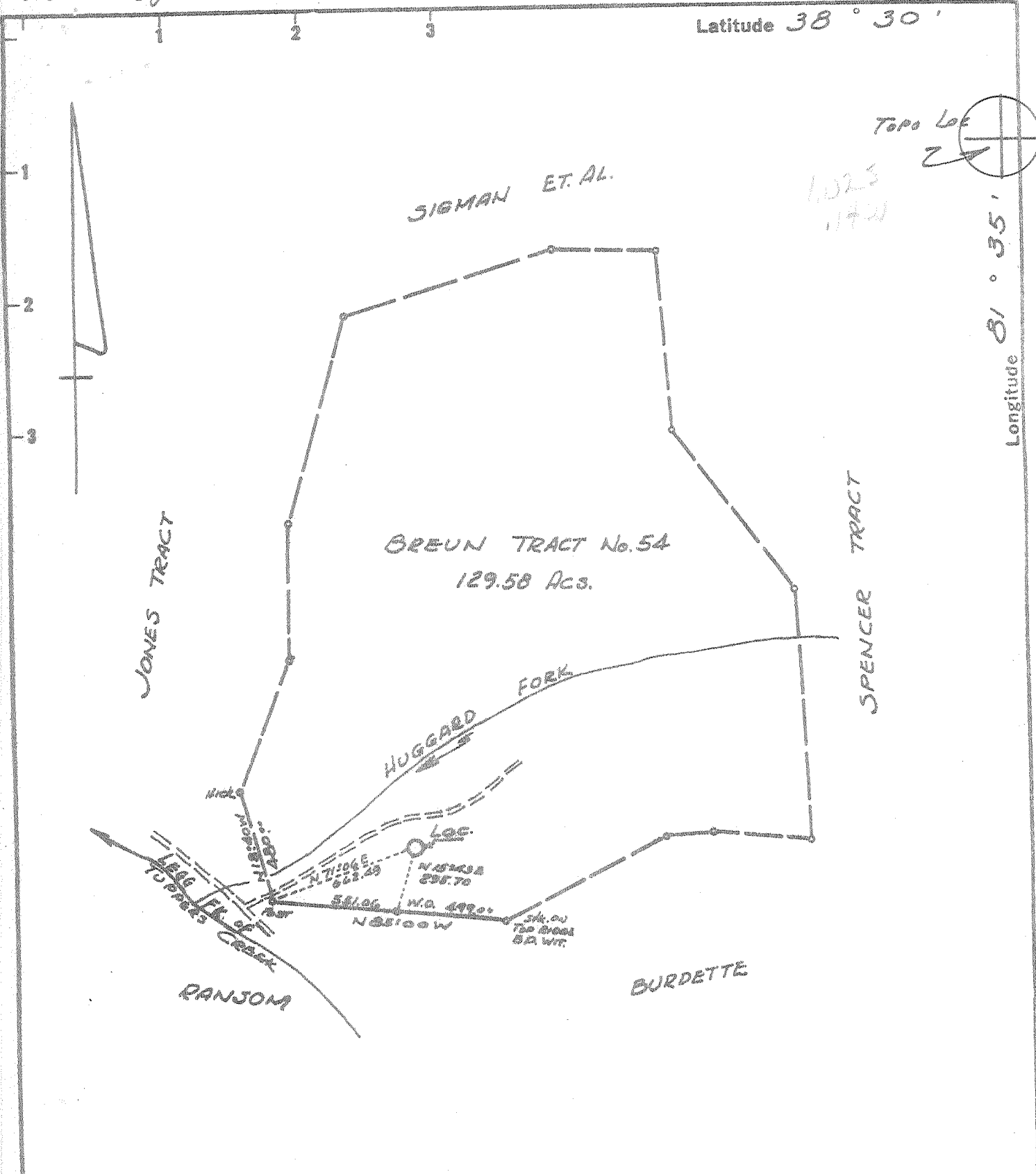
Company HARRY A. HOLTOM
 Address 808 HIGH ST., WORTHINGTON, OHIO
 Farm BREUN TRACT No. 54
 Tract _____ Acres 129.58 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 783.0
 Quadrangle CHARLESTON NC
 County KANAWHA District POCA
 Engineer N. G. Sefton
 Engineer's Registration No. 1932
 File No. _____ Drawing No. _____
 Date 10-24-70 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. KAN-2487-PP
redrilled - W

⊕ 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.



Minimum Error of Closure 1 in 200
 Source of Elevation D.M. 703' Mt. HUGGARD Fork

"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."

~~Not Located~~
 Drill Deeper
 Abandonment 12-28-73

Partial Resurvey
 1224 ed - 5-3-71

Company TRaverse CORPORATION
MARY A. HOLTON
 P.O. BOX 1039, TRAVERSE CITY, MICHIGAN

Address 200 S. 1st St., Traverse City, Mich.

Farm BREUN TRACT No. 54

Tract _____ Acres 129.58 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 783.0

Quadrangle CHARLESTON NC

County KANAWHA District POCA

Engineer N. P. Syflet

Engineer's Registration No. 1832

File No. _____ Drawing No. _____

Date 10-24-70 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. KAN-2487-

+ 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

JAN 11 1974



RECEIVED

MAY 5 1971

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION 7

- Rotary
- Cable Tools
- Storage
- Oil or Gas Well

Dry
(KIND)

Quadrangle Charleston
Permit No. Kan-2487

WELL RECORD

Company <u>Harry A. Holtom</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>808 High St. Worthington, Ohio</u>	Size			Kind of Packer
Farm <u>Breun Tract No. 54</u> Acres <u>129.58</u>	<u>16</u>			
Location (waters) <u>Legg Fork</u> Elev. <u>795' KB</u>	<u>13</u>	<u>129'</u>	<u>129'</u>	
Well No. <u>1</u> Elev. <u>783' GL</u>	<u>10</u>	<u>1812'</u>	<u>1812'</u>	Size of
District <u>Poca</u> County <u>Kanawha</u>	<u>8 1/4</u>			Depth set
The surface of tract is owned in fee by	<u>6%</u>	<u>5660'</u>	<u>1060'</u>	
Mineral rights are owned by	<u>4 1/2</u>			Perf. top
Drilling commenced <u>11-27-70</u>	<u>3</u>			Perf. bottom
Drilling completed	<u>2</u>			Perf. top
Date Shot From To	Liners Used			Perf. bottom
With				
Open Flow /10ths Water in Inch	Attach copy of cementing record.			
/10ths Merc. in Inch	CASING CEMENTED SIZE No. Ft. Date			
Volume <u>15</u> MCF Cu. Ft.	Amount of cement used (bags) <u>see reverse side</u>			
Rock Pressure lbs. hrs.	Name of Service Co.			
Oil bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT FEET INCHES			
WELL ACIDIZED (DETAILS)	FEET INCHES FEET INCHES			
WELL FRACTURED (DETAILS) <u>12-1-70 in Newburg by Dowell</u>	FEET INCHES FEET INCHES			
<u>1053 barrells water</u>	<u>500 gal. MA, 22000# 20/40 sand</u>			
RESULT AFTER TREATMENT (Initial open Flow or bbls.)	<u>show gas</u>			
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
blue mud & lime			15	60			
sand			60	133			
shale & red rock			133	210			
slate & shells			210	285			
sand			285	335			
sand & shale			335	425			
sand			425	465			
slate			465	490			
sand			490	580			
slate			580	600			
sand			600	628			
slate & shells			628	900			
sand			900	935			
slate			935	955			
SALT SAND			955	1320			
slate			1320	1348			
sand			1348	1410			
slate			1410	1418			
lime			1418	1492			
Pencil Cove			1492	1505			
BIG LIME			1505	1665			
INJUN			1665	1710			
slate & shells			1710	2097			
COFFEE SHALE			2097	2118			
slate & shells			2118	2503			
white slate			2503	3042			
slate & shells			3042	3740			
brown shale			3740	3972			
white slate			3972	4150			

(over)

MAY 17 1971

Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
brown shale			4450	4528			
white slate			4528	4558			
brown shale			4558	4650			
white slate			4650	4690			
brown shale			4690	4790			
COPNIFFCOUS			4790	4892			
BRISKANY			4892	4950			
WILDERBERG			4950	5192			
SALINA VI LS	CREAK		5192	5660			
WILLIAMSPORT			5660	5730			
	Newburg Sand		5690	5692			
McKENZIE			5730	5976			
KEEFER			5976	6000			
ROSE HILL			6000	6338			
CACAPON			6338	6432			
TUSCARORA			6432	6500			
JUNIATA			6500				
	Total Depth			6533			
				615			
			Cementing Record				
	13"	129'	120 sks	11-11-70	Dowell		
	8-5/8"	1812'	400 "	11-14-70	"		
	5 1/2"	5660'	175 "	11-18-70	"		
	Partial Plug	6533-5715	100 "	11-28-70	"		
11-27-70	Hole completed through Tuscarora						
11-28-70	Partial plug back to 5715						
12- 1-70	Frac Newburg						
	Will plug back to 3350' and prepare to whipstock and drill new hole to Newburg.						
			6533				
			5692				
			841				
				Expn Seepage			

Date 5-5-71, 19

APPROVED Harry A. Holtom, Owner

By Gene Hammy, Cons Genl
(Title)



RECEIVED

SEP 23 1971

OIL & GAS DIVISION
STATE OF WEST VIRGINIA
DEPT. OF MINES
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage
- Oil or Gas Well **Gas** (KIND)

Quadrangle... Charleston
Permit No. Kan - 2487 PFW

WELL RECORD

Company Harry A. Holtom
Address 808 High St. Worthington, Ohio
Farm Breun Tract No. 54 Acres 129.58
Location (waters) Legg Fork 795' KB
Well No. 1 Elev. 783 GL
District Poca County Kanawha
The surface of tract is owned in fee by Otto Schievley
Address Sissonville, W.Va.
Mineral rights are owned by Breun Heirs Estate & Columbia Gas System Address Charleston, W. Va.
Drilling commenced 6-5-71
Drilling completed 6-14-71
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)
WELL FRACTURED (DETAILS) Frac with 1250 bbl. water and 30,000 lb. sand.
Avg. injection rate 18 BPM @ 5000 psi.
RESULT AFTER TREATMENT (Initial open Flow or bbls.) Estimated 10 MMCFGPD
ROCK PRESSURE AFTER TREATMENT 1820 HOURS 72
Fresh Water Feet Salt Water Feet
Producing Sand Newburg Depth 5726

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	129	129	Size of
10			Depth set
8 1/4 5/8"	1812	1812	First hole
6 3/4			Second hole
5 1/8 1/2	5660	2010	Perf. top
4 1/2 5/8	5695	5695	Perf. bottom
3			Perf. top
2		5736	Perf. bottom
Liners Used			

Attach copy of cementing record.
CASING CEMENTED 5 1/2 SIZE 5695 No. Ft. 6-13-71 Date
Amount of cement used (bags) 175
Name of Service Co. Dowell, Inc.
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

MLP
10,000,000

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Partial plug to 2020,		Whipstock	and redrill				
Shale				4812'			5754 2020 3734 new footage
Lime - <u>Onondaga</u>			4812	4905			
Oriskany			4905	4950			
Lime & Dolomite - <u>Helderberg & Salina</u>			4950	5726			
<u>Newburg</u>			5726	5729			
Dolomite and Shale - <u>McKENZIE</u>			5729				
TOTAL DEPTH				5754			
				<u>545</u>			
Date <u>Sept 7, 1971</u>							
Approved <u>Harry A. Holtom</u> owner							
By <u>[Signature]</u>							