

- Fracture....
- Redrill....
- NEW Location
- Drill Deeper....
- Abandonment.....

Source of Elevation Well 4969; ELEV. 877'

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.

Minimum accuracy, one part in 200

Issued 4/22/74

Company	WILLARD E. FERRELL	
Address	PHILADELPHIA, PA. Box 5056	
Farm	S. G. GREATHOUSE et. al.	
Tract	Acres 200	Lease No.
Well (Farm) No.	3	Serial No. 1
Elevation (Spirit Level)	1140'	EC
Quadrangle	HOLBROOK 246 AD	
County	DODDRIDGE District SOUTHWEST	
Engineer	James J. Jeffers	
Engineer's Registration No.	1684	
File No.	215/22	Drawing No.
Date	9-20-68	Scale 1" = 500'

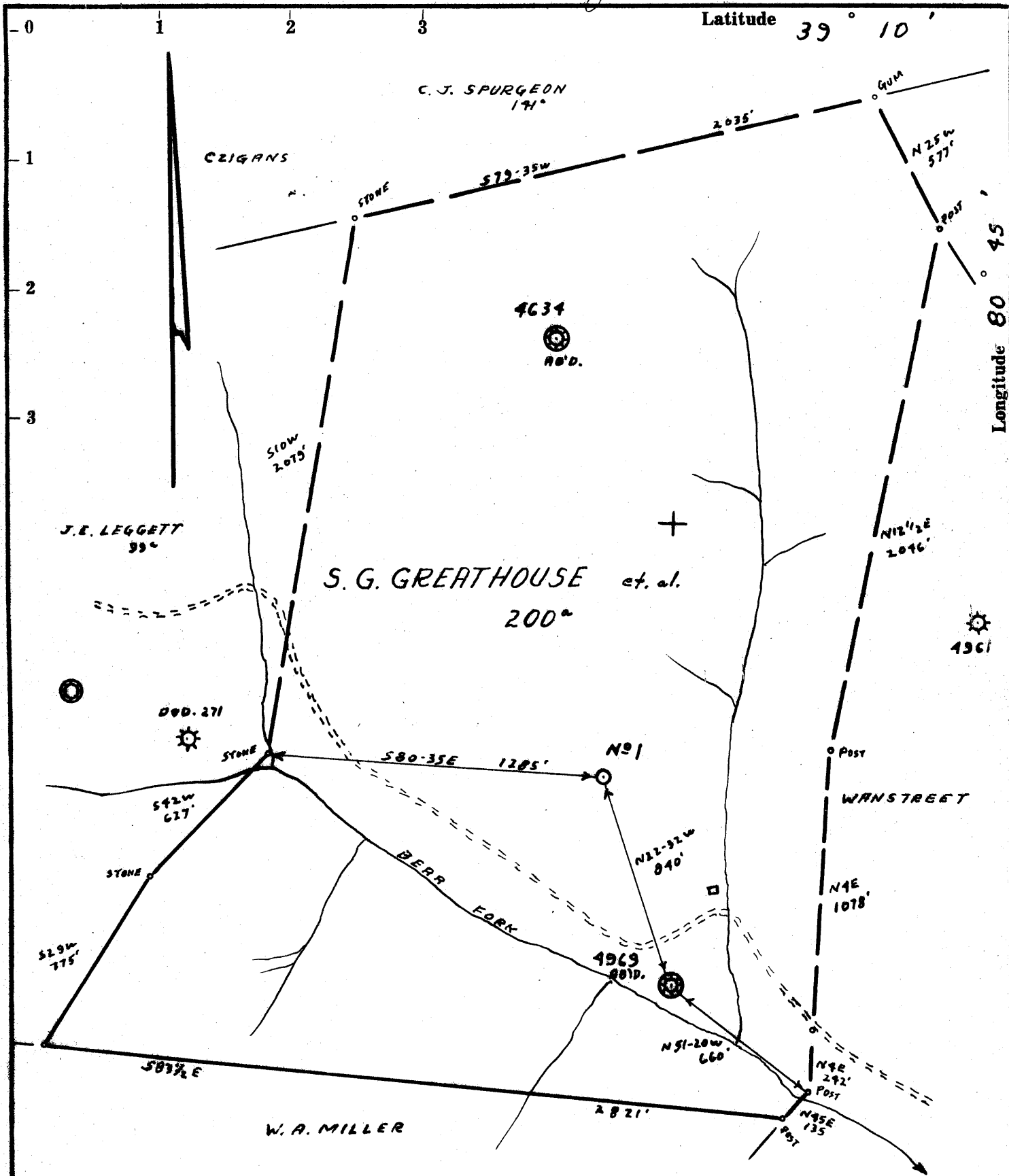
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Dod-1532-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.

47-017



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

Source of Elevation WELL 1969 ; ELV. 877'

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle.....

WELL RECORD

Permit No. DOD 1532

Oil or Gas Well Gas
(KIND)

Company Tel-Star Dev. Co. # 2, Willard E. Ferrell
 Address P.O. Box 5056, Philadelphia, Pa. Agent
 Farm S.G. Greathouse 19111 Acres 200
 Location (waters).....
 Well No. Farm # 4-- Serial 2 Elev. 1140
 District Southwest County Doddridge
 The surface of tract is owned in fee by S.G. Greathouse, et al
 Address Auburn, W.Va.
 Mineral rights are owned by S.G. Greathouse, heirs
 Address Auburn, W.Va.
 Drilling commenced Feb. 2, 1969
 Drilling completed Mar. 15, 1969
 Date Shot..... From..... To.....
 With.....
 Open Flow 5 /10ths Water in 1 Inch
 /10ths Merc. in..... Inch
 Volume 25M Cu. Ft.
 Rock Pressure Not Taken lbs..... hrs.
 Oil Show bbls., 1st 24 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer.....
16	15	15	
13			Size of.....
10	218		
8 1/4	772		Depth set.....
6 3/4 7in	1224	380	
5 3/16			Perf. top.....
4 1/2	2180	2180	Perf. bottom.....
3			Perf. top.....
2			Perf. bottom.....
Liners Used.....			

WELL ACIDIZED (DETAILS).....

Attach copy of cementing record.
 CASING CEMENTED 4 1/2 SIZE 200 No. Ft. Mar. 21, 1969
 Amount of cement used (bags) 40
 Name of Service Co. Lawson
 COAL WAS ENCOUNTERED AT..... FEET..... INCHES
 FEET..... INCHES..... FEET..... INCHES
 FEET..... INCHES..... FEET..... INCHES

WELL FRACTURED (DETAILS) Fractured Mar. 28, 750 Bls fluid, 40M lbs sand- 500 gal acid.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 125M cuft 125,000
 ROCK PRESSURE AFTER TREATMENT 425 HOURS 24
 Fresh Water Surface Only Feet..... Salt Water..... Feet.....
 Producing Sand Big Injun Depth.....

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	8			
Sand			8	50			
Slate B			50	65			
Slate & Shells			65	125			
Red Rock			125	355			
Sand			355	375			
Slate			375	390			
Red Rock			390	443			
Slate & Shells			443	595			
Lime			595	624			
Slate & Shells			624	741			
Red Rock			741	900			
Slate & Shells			900	1136			
Sand			1136	1157			
Slate & Shells			1157	1450			
Lime			1250	1373			
Sand			1373	1505			
Slate			1505	1508			
Slate & Shells			1508	1590			
Sand			1590	1835			
Slate & Shells			1835	1900			
Sand			1900	1933			
Slate			1933	1953			
Little Lime			1953	1973			
Blue Mondy			1973	1986			
Slate			1986	1998			
Big Lime			1998	2060			
Sand <u>Big Injun</u>			2060	2118			
Lime (G)			2118	2137			
Slate			2137	2187			

Total Depth 2191

