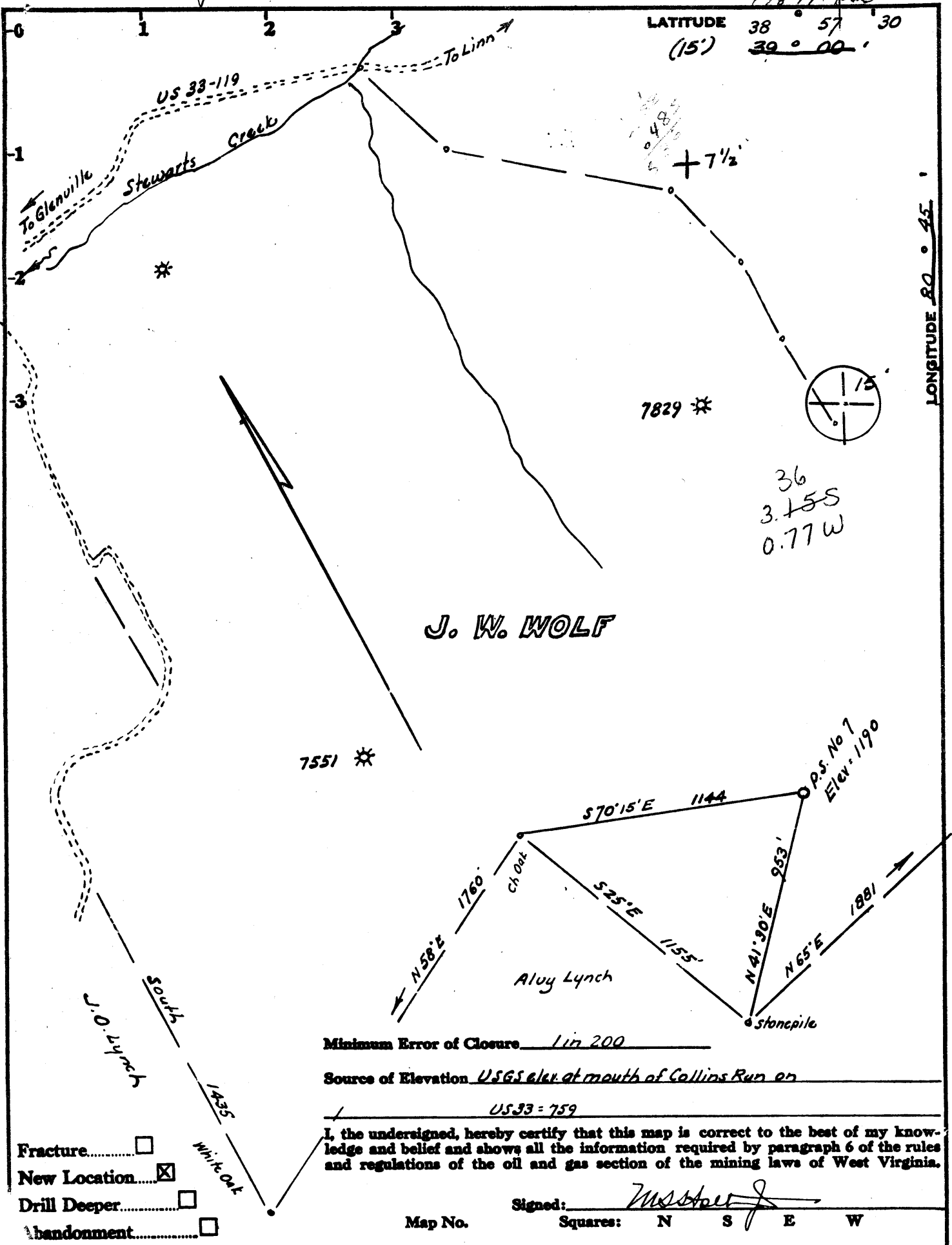


4177 19



**J. W. WOLF**

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev. at mouth of Collins Run on

US 33 = 759

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.

Signed: [Signature]  
Squares: N S E W

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

Company Pacific States Gas & Oil  
 Address P.O. Box 67, Glenville, W. Va.  
 Farm J. W. Wolf et ux, Bryl & Laa Langford  
 Tract \_\_\_\_\_ Acres 322 Lease No. \_\_\_\_\_  
 Well (Farm) No. P.S. No 7 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1190  
 Quadrangle Glenville 7 1/2, 15' NE  
 County Gilmer District Glenville  
 Engineer [Signature]  
 Engineer's Registration No. 1227 445 200  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date July 14, 1917 Scale 1" = 500'

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

**WELL LOCATION MAP**

FILE NO. GIL-2881

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 24,000, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing. 47-021



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

**RECEIVED**  
 JUN - 5 1978  
 OIL & GAS DIVISION  
 DEPT. OF MINES

Quadrangle Glenville

Permit No. GIL 2881

Rotary  Oil \_\_\_\_\_  
 Cable \_\_\_\_\_ Gas   
 Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
 Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
 Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company Pacific States Gas & Oil, Inc.  
 Address P.O. Box 67, Glenville, WV 26351  
 Farm J.W. Wolfe Acres 322  
 Location (waters) Stewarts Creek  
 Well No. P.S. #7 Elev. 1190  
 District Glenville County Gilmer  
 The surface of tract is owned in fee by \_\_\_\_\_  
Beryl and Leo Langford  
 Address Glenville, W.Va. 26351  
 Mineral rights are owned by May Wolfe Atty:C.  
Wolfe etal Address Glenville, W.Va. 26351  
 Drilling Commenced 9/23/77  
 Drilling Completed 9/30/77  
 Initial open flow N/A cu. ft. N/A bbls.  
 Final production 800 m cu. ft. /per day - bbls.  
 Well open 4 hrs. before test 1825 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	401	401	Surface
7			
5 1/2			
4 1/2	4744	4744	100 sks Class "A"
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perf: w/10 - .49" Diameter Hole from 4640' - 4646'  
 Frac: w/500 gals. 15% HCl.; 568 BBL H<sub>2</sub>O; 15,000 lbs. 80/100 Sand and 26,000 lbs. 20/40 sand; 2500 lbs. KCl; 350 lbs. water gel agent; 488 BBL H<sub>2</sub>O.

Coal was encountered at 207' Feet 84 Inches  
 Fresh water N/A Feet \_\_\_\_\_ Salt Water N/A Feet \_\_\_\_\_  
 Producing Sand Benson Depth 4640-4646

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	207		
Mine Shaft			207	214		
Shale			214	471		
Sand			471	612		
Shale			612	947		
Sand			947	1051		
Shale			1051	1470		
Sand			1470	1620		
Sand and Shale			1620	1806		
Big Lime			1806	1879	Gas	E Log Top
Keener			1879	1928		
Big Injun			1928	1975	Gas	
Shale			1975	2040		
Weir			2040	2151		
Shale			2151	2760		
5th Sand			2760	2774	Gas	
Shale			2774	4633		
<u>Benson</u>			4633	4654	Gas	
Shale			4654	4760		
TD				4760		

(over)

\* Indicates Electric Log tops in the remarks section.



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JUL 15 1977

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE July 14, 1977

Surface Owner Bryl & Leo Langford Company Pacific States Gas & Oil  
 Address Glenville, W. Va. Address P.O. Box 67, Glenville, W. Va.  
 Mineral Owner May Wolfe Atty: Charles Wolfe et al Farm J.W. Wolfe Acres 322  
 Address Glenville, W. Va. Location (waters) Stewarts Creek  
 Coal Owner Mid-Allegheny Corp. Well No. PS-7 Elevation 1190  
 Address Summersville, W. Va. District Glenville County Gilmer  
 Coal Operator None Quadrangle Glenville  
 Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 11-21-77.

INSPECTOR TO BE NOTIFIED Paul Goodnight  
ADDRESS Smithville, W. Va.  
PHONE 477-3660

*Robert A. [Signature]*

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Feb. 9 1915 by J.W. Wolfe & M.M. Wolfe made to Pittsburgh & W. Va. Gas Co. and recorded on the 14 day of April 1915, in Gilmer County, Book 79 Page 87

NEW WELL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address 7-14 day 1977 before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address of Well Operator

Very truly yours, *[Signature]*  
(Sign Name) \_\_\_\_\_ Well Operator  
P.O. Box 67  
Street  
Glenville, W. Va.  
City or Town  
West Virginia  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOARD

GIL-2881 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

47-021

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME S.W. Jack Drilling NAME J.M. Mork  
 ADDRESS Buckhannon, W.Va. ADDRESS P.O. Box 67, Glenville, W.Va.  
 TELEPHONE 472-2161 TELEPHONE 462-8118  
 ESTIMATED DEPTH OF COMPLETED WELL: 4800 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Benson  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	500	500	Surface
7			
5 1/2			
4 1/2	4800	4800	250sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET \_\_\_\_\_ SALT WATER none FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS 207 \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

**TO DRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

**TO DRILL DEEPER OR REDRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title