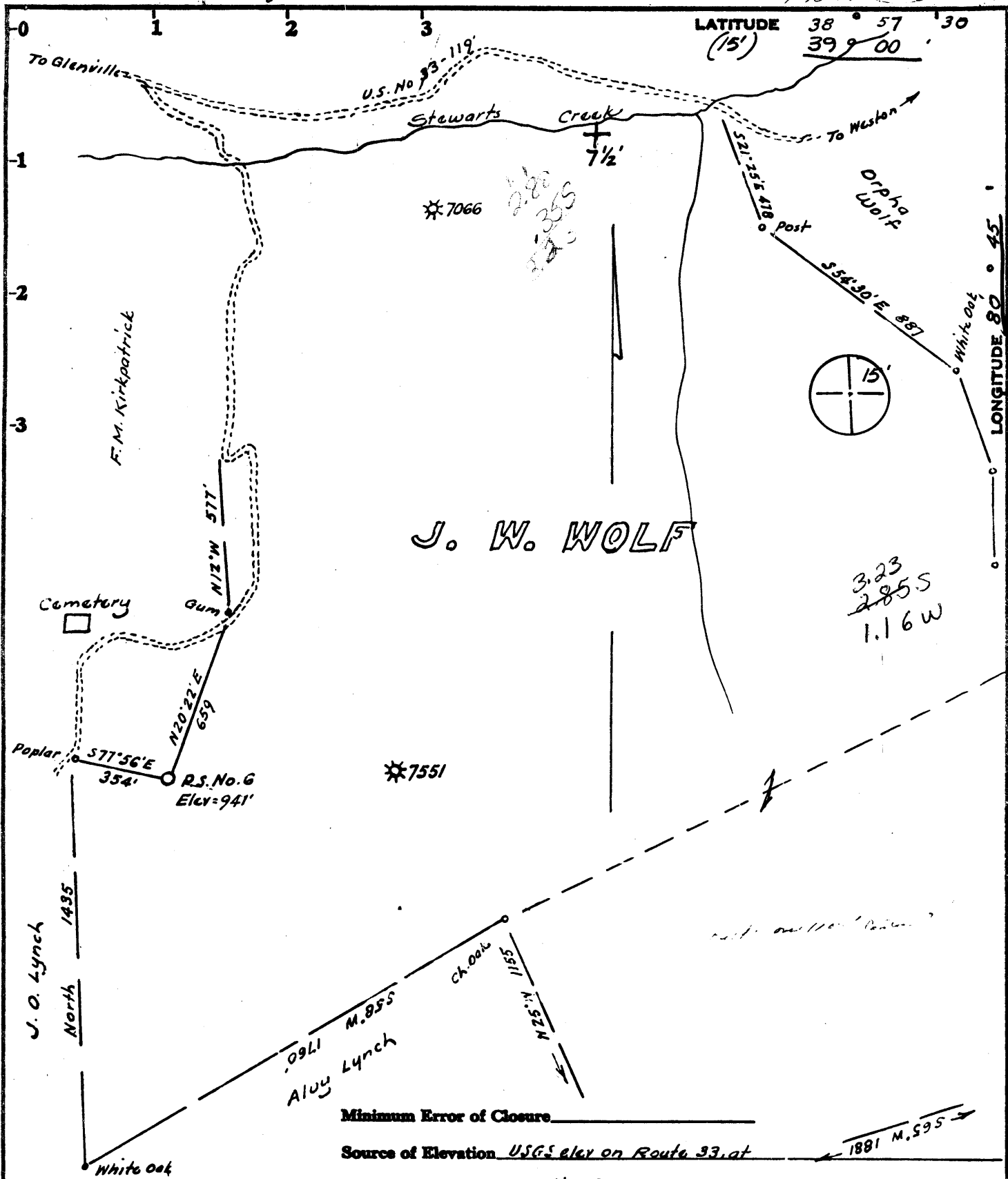


7-18-77 12-42



LATITUDE 38° 57' 30" (15') 39° 00'

LONGITUDE 80° 45'

J. W. WOLF

Minimum Error of Closure \_\_\_\_\_  
 Source of Elevation USGS elev on Route 33 at  
mouth of Collins Run = 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.

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

Signed: [Signature]  
 Squares: N S E W

Company Pacific States Gas & Oil  
 Address P.O. Box 67, Glenville, W.Va.  
 Farm J.W. Wolf, et ux  
 Tract \_\_\_\_\_ Acres 322 Lease No. \_\_\_\_\_  
 Well (Farm) No. P.S. No. 6 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 941  
 Quadrangle Glenville 7 1/2 15' NE  
 County Gilmer District Glenville  
 Engineer [Signature]  
 Engineer's Registration No. 1227 645 200  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date July 14, 1977 Scale 1" = 500'

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

**WELL LOCATION MAP**

FILE NO. GIL-2872

+ 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. 47-021 AUG 5 1977



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

*[Handwritten notes and stamps]*  
OIL & GAS DIVISION  
STATE OF WEST VIRGINIA

Quadrangle Glenville

Permit No. GIL-2872

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

Company Pacific States Gas & Oil, Inc.  
Address P.O. Box 67, Glenville, W.Va. 26351  
Farm J.W. Wolfe Acres 322  
Location (waters) Stewarts Creek  
Well No. P.S. #6 Elev. 1100  
District Glenville County Gilmer  
The surface of tract is owned in fee by Byrl and Leo Langford  
Address Glenville, W.Va.  
Mineral rights are owned by May Wolfe, Atty. C. Wolfe, et al Address Glenville, W.Va.  
Drilling Commenced 9/17/77  
Drilling Completed 9/23/77  
Initial open flow N/A cu. ft. N/A bbls.  
Final production 850 m. cu. ft. per day - bbls.  
Well open 4 hrs. before test 1800 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	403	403	Surface
7			
5 1/2			
4 1/2	4774	4774	100 sks Class "A"
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

PERF: w/6 - .41" Diameter Holes from 4682 - 4686  
4 - .41" Diameter Holes from 4690 - 4692

FRAC: w/ 990 BBL H<sub>2</sub>O; 600 lbs. water gel agent; 3000 lbs. KCl;  
30,000 lbs. 80/100 sand and 30,000 lbs. 20/40 sand; 20 gal. Freflo;  
500 gal. HCl.

Coal was encountered at 200' Feet 10 ft. Inches  
Fresh water 105' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Benson Depth 4678 - 4795'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	143		
Shale			143	200		
Coal			200	204		
Sand and Shale			204	643		
Shale			643	1121		
Sand and Shale			1121	1230		
Shale			1230	1727		E Log Top
Sand			1727	1738		
Shale			1738	1764		
Little Lime			1764	1792		
Pencil Cave			1792	1805		
Big Lime			1805	1880		
Big Injun			1880	1978		
Shale			1978	2052		
Weir			2052	2168		
Shale			2168	2774		
5th Sand			2774	2788		
Shale			2788	4678		
<u>Benson</u>			4678	4684		
Shale			4684	4697		

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED  
JUL 15 1977  
DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 14, 1977

Surface Owner Byrl & Leo Langford  
Address Glenville, W.Va.  
Mineral Owner May Wolfe Atty: Charles Wolfe etal  
Address Glenville, W.Va.  
Coal Owner Mid-Allegheny Coal Co.  
Address Summersville, W.Va.  
Coal Operator None  
Address \_\_\_\_\_

Company Pacific States Gas and Oil  
Address P.O. Box 67, Glenville, W.Va.  
Farm J.W. Wolfe Acres 322  
Location (waters) Stewarts Creek  
Well No. P.S. 6 Elevation 941 ?  
District Glenville County Gilmer  
Quadrangle Glenville

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 11-19-77.

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

[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 1945 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,  
(Sign Name) [Signature]  
Well Operator  
P.O. Box N  
Street  
Glenville, W.Va.  
City or Town  
W.Va.  
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

"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 [Signature]

GIL-2872 PERMIT NUMBER

47-021

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

PROPOSED WORK ORDER TO  DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME S.W. Jack Drilling Inc. NAME J. M. Mork  
 ADDRESS Buckhannon WV ADDRESS P.o. Box 67, Glenville, W.Va.  
 TELEPHONE 472-2161 TELEPHONE 462-8118  
 ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS  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	250 sks.
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 ft. \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No. Strip 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