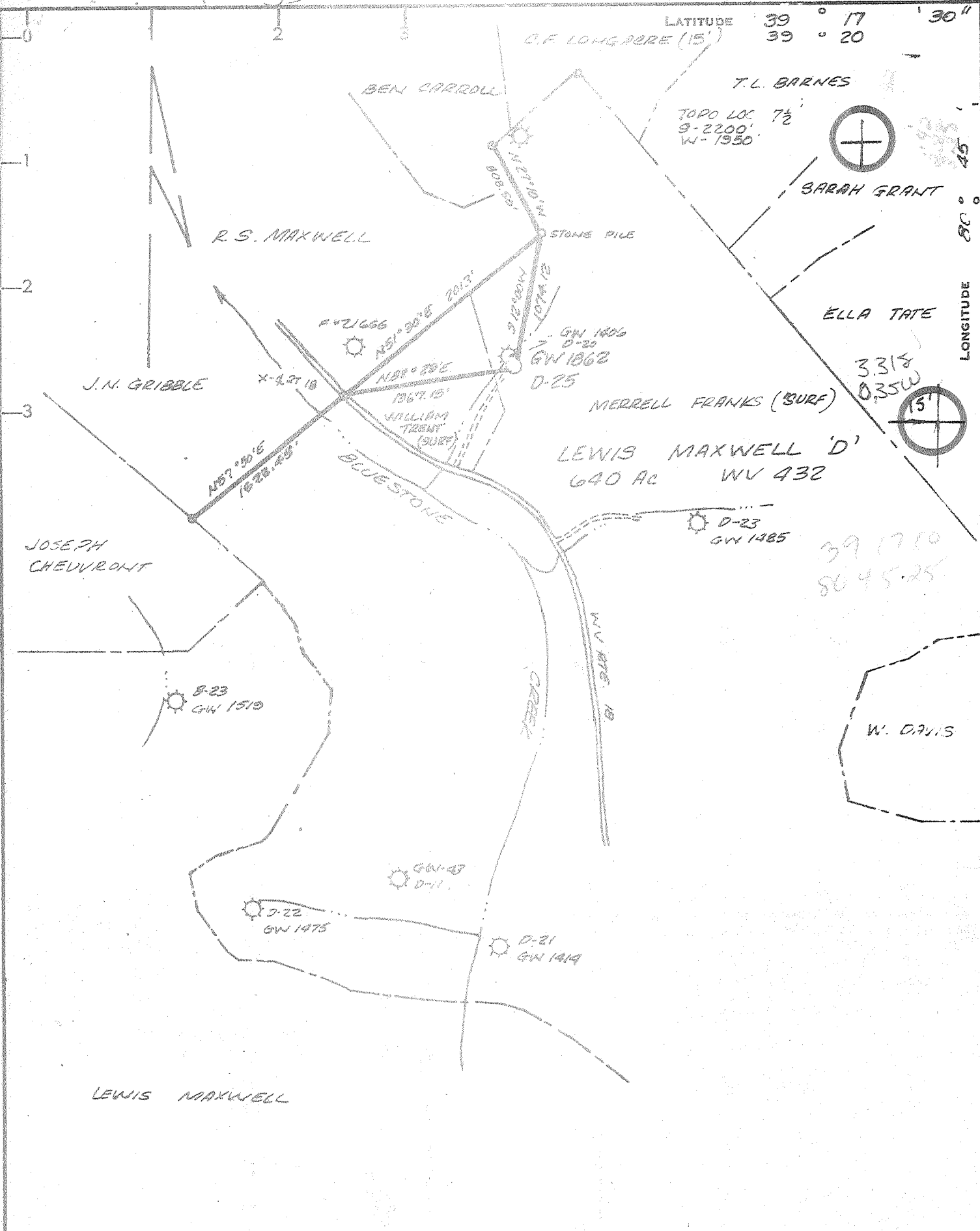


6-5-0



**CERTIFICATE**

"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 degree of accuracy is one part in 800  
 Signed L. Alexander LLS 247

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY CITIES SERVICE COMPANY  
 ADDRESS Box 873 Charleston W.V. 25323  
 FARM LEWIS MAXWELL 'D'  
 MAP \_\_\_\_\_ ACRES 640 LEASE NO WV 432  
 WELL (FARM) NO. D-25 SERIAL NO. GW 1862  
 ELEVATION (SPIRIT LEVEL) 894.62'  
 QUADRANGLE WEST UNION 7 1/2 15' SE  
 COUNTY DODDRIDGE DISTRICT WEST UNION  
 POINT OF PROVEN ELEVATION CITIES SERVICE - L. MAXWELL  
GW 1406 ELEV - 892.12'  
 FILE NO. \_\_\_\_\_ DRAWING NO. W-14-80  
 DATE MAY 30, 1960 SCALE 1" = 1000'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
017-2758  
 FILE NO. \_\_\_\_\_

+ 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.  
 5150' ALEXANDER  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

FEB 13 1981

Oil and Gas Division  
WELL RECORD <sup>14</sup>

OIL & GAS DIVISION  
DEPT. OF MINES

Quadrangle West Union  
Permit No. 47-017-2758

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

Company Cities Service Company  
Address Box 873, Charleston, WV 25323  
Farm Lewis Maxwell et ux Acres 640  
Location (waters) Bluestone Creek  
Well No. "D" #25, GW-1862 Elev. 894.62  
District West Union County Doddridge  
The surface of tract is owned in fee by Rev. Merrill Franks, 441 Camp Creek Road, Apt. 5, Huntington, WV 25701  
Address \_\_\_\_\_  
Mineral rights are owned by Lewis Maxwell, et ux Robert Holland, Agent, West Union, WV 26456  
Address \_\_\_\_\_  
Drilling Commenced 7-15-80  
Drilling Completed 1-23-81  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 211 M cu. ft. per day \_\_\_\_\_ bbls.  
Well open 24 hrs. before test 780 RP.  
Well treatment details: 22 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 43-40" 11-3/4"	75	75	40 sx -Surface
9 5/8			
8 5/8	1668	1668	410 sx-Surface
7			
5 1/2			
4 1/2 "	5134	5134	700 sx
3			
2			
Liners Used			

Attach copy of cementing record. 211 MCF  
Perforated Alexander 5006-5112 and 4972-4986 with 1 SPF-total 15 shots. Broke down Alexander at 2700 psi with 1000 gallons 15% Acid Fraced with Dowell X-Link System using 15000# 80/100 and 45,000# 20/40 sand Avg. treating pressure 2750 psi AIR 20 BPM Avg. Sand Conc. 4.2 ppg. TL&T 655 bbls. Perforated Weir 2014-28', 1975-82, 1960-66' with 1 SPF total 30 shots. Broke down Weir at 2800 psi with 1000 gal. 15% acid. Fraced with Dowell foam frac containing 14,500# 80/100 and 60,000# 20/40 sand with 800 MCF N<sub>2</sub> Avg. treating pressure 2850 psi Avg. Sand conc. 7.3 ppg prefoamed. -TL&T 299 bbls.  
Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water 180 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Weir, Alexander Depth 1954-2044, 4956-5036

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
RR			0	40		
Shale			40	85		
Sand			85	100		
Shale			100	115		
RR			115	157		
Shale			157	175		
Sand			175	210		
Shale			210	290		
Sand			290	370		
Shale			370	400		
Sand			400	425		
RR			425	440		
Sand			440	463		
Shale RR			463	515		
Sand			515	550		
Shale			550	575		
Sand			575	614		
Shale			614	921		
Sand			921	1004		
Shale			1004	1013		
Sand			1013	1045		
Shale			1045	1120		
Sand			1120	1220		
Shale			1220	1384		
Sand			1384	1430		

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1430	1580		
Sand			1580	1610		
Lime			1610	1620		
Shale			1620	1627		
Lime			1627	1695		
Sand			1695	1805		
Shale			1805	2004		
Sand			2004	2120		
Shale			2120	2190		
Sand			2190			
Shale				2490		
Sand			2490	2500		
Shale			2500	3300		
Sand			3300	3400		
Shale			3400	4565		
Sand			4565	4640		
Shale			4640	4955		
Sand			4955	5030		

Date February 9, 19 81

APPROVED Cities Service Company Owner

BY Paul D. Phillips  
Paul D. Phillips



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

JUN 5 1980

OIL AND GAS WELL PERMIT APPLICATION  
OIL & GAS DIVISION  
DEPT. OF MINES

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

DATE June 5, 1980

Surface Owner Rev. Merrell Franks  
Address 4441 Camp Creek Road, Apt. 5  
Huntington, WV 25701  
Mineral Owner Lewis Maxwell et ux  
Address Robert Holland, Agent  
West Union, WV 26436  
Coal Owner \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company Cities Service Company  
Address Box 873, Charleston, WV 25323  
Farm Lewis Maxwell Acres 640  
Location (waters) Bluestone Creek  
Well No. "D" #25, GW-1862 Elevation 894.62  
District West Union County Doddridge  
Quadrangle West Union

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 2-10-81

INSPECTOR  
TO BE NOTIFIED Paul Garrett  
ADDRESS Clarksburg, WV 26301  
PHONE 22-3871

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. 1 1899 by Lewis Maxwell et ux made to Columbian Carbon (now Cities Service) and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Doddridge County, Book 33 Page 431  
 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 \_\_\_\_\_ day \_\_\_\_\_ 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

Very truly yours, Cities Service Company  
(Sign Name) Sam J. Matthews  
Sam J. Matthews Well Operator Region Prod. Manager

Address \_\_\_\_\_  
of \_\_\_\_\_  
Well Operator \_\_\_\_\_  
Box 873 \_\_\_\_\_  
Street \_\_\_\_\_  
Charleston \_\_\_\_\_  
City or Town \_\_\_\_\_  
W. Va. 25323 \_\_\_\_\_  
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.

47-017-2758 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 Sam J. Matthews

BLANKET BOND

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 Spencer Enterprises NAME Sam J. Matthews  
 ADDRESS West Union, WV 26436 ADDRESS Box 873, Charleston, WV 25323  
 TELEPHONE \_\_\_\_\_ TELEPHONE 304-344-8383  
 ESTIMATED DEPTH OF COMPLETED WELL: 5150' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Alexander  
 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 16" 65#	60	60	To Surface
13 - 10			
9 - 5/8			
8 - 5/8 24#	1750	1750	To Surface
7			
5 1/2			
4 1/2 11.6#	5150	5150	509 sx
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET 150 SALT WATER \_\_\_\_\_ FEET

APPROXIMATE COAL DEPTHS None

IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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