



O. H. SHREVE

Minimum Error of Closure 1 in 200'

Source of Elevation U.S.G.S. B.M. at mouth of Laurel Run = 1901

- Fracture
- New Location
- Drill Deeper
- Abandonment

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

Map No. _____

Company	<u>THE CHESTERFIELD CORP.</u>		
Address	<u>P.O. Box 271, Clarksburg, West Va.</u>		
Farm	<u>Henry Register</u>		
Tract	Acres <u>27</u>	Lease No.	
Well (Farm) No.	<u>1-2-2</u>	Serial No.	<u>Two</u>
Elevation (Spirit Level)	<u>1917</u>		
Quadrangle	<u>Sage</u>	<u>NE</u>	
County	<u>Upshur</u>	District	<u>Union</u>
Engineer	<u>[Signature]</u>		
Engineer's Registration No.	<u>1227</u>		
File No.	Drawing No.		
Date <u>Dec. 30, 1972</u>	Scale <u>1" = 200' = 330'</u>		

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

WELL LOCATION MAP

FILE NO. Up-1476

+ 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.



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

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

Quadrangle Sago
Permit No. UPS-1476

Company <u>Chesterfield Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Box 2428, Clarksburg, W. Va.</u>	Size <u>20"</u>	<u>25'</u>	<u>25'</u>	None
Farm <u>Henry Register</u> Acres <u>27</u>	20" <u>16"</u>	<u>30'</u>	<u>30'</u>	30 sx-Dowell
Location (waters) <u>Middle Fork River</u>	Cond. <u>11"</u>	<u>158'</u>	<u>158'</u>	100 sx-Dowell
Well No. <u>L & L No. 2</u> Elev. <u>1917</u>	<u>9 5/8</u>			
District <u>Union</u> County <u>Upshur</u>	<u>8 5/8</u>	<u>605'</u>	<u>605'</u>	220 sx-Dowell to surface
The surface of tract is owned in fee by <u>Henry & Annie Register</u>	<u>7</u>			
Address <u>Middle Fork River, Buckhannon</u>	<u>5 1/2</u>			
Mineral rights are owned by <u>Henry & Annie Register</u> Address <u>Middle Fork River</u>	<u>4 1/2</u>	<u>1874'</u>	<u>1874'</u>	70 sx-Dowell
Drilling Commenced <u>1-25-73</u>	<u>3</u>			
Drilling Completed <u>2-1-73</u>	<u>2</u>			
Initial open flow <u>25M</u> cu. ft. <u>sho</u> bbls.	Liners Used			
Final production <u>250M</u> cu. ft. per day <u>10</u> bbls.				
Well open <u>4</u> hrs. before test <u>450</u> RP.				

Well treatment details: Attach copy of cementing record.
Dowell-Waterfrac - 777 bbls sand laden fluid 50,000 #20/40 sd
Breakdown w/500 gallons 7 1/2% acid
BD - 1700 psi AIR 39.9 BPM AIP 1885psi
ISIP 1200 psi
HHP used 1885

Coal was encountered at None Feet _____ Inches _____
 Fresh water 20' Feet 110 Salt Water None Feet _____
 Producing Sand 5th Sand Depth 1710-1756

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	25	Water	
Sand & Gravel			25	37		
Sand & Shale			37	456	Water at 110'	
Redrock			456	463		
Sand & Shale			463	605'		
Sand & Redrock			605	776		
Little Lime			776	780		
Shale			780	830		
Big Lime			830	985	*830'	
Injun Sd			985	1056		
<u>5th Sand</u>			1708	1774	Gas & Oil shows*	
Sand & Shale			1774	1883		
						Total depth 1883



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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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 JAN. 2, 1973

Surface Owner HENRY D & ANNA REGISTER

Company CHESTERFIELD CORP.

Address MIDDLE FORK RIVER, BUCKHANNON W. VA.

Address PO. BOX 2428 CHARLESTON, W. VA.

Mineral Owner HENRY D & ANNA REGISTER

Farm HENRY REGISTER Acres 27

Address MIDDLE FORK RIVER, BUCKHANNON, W. VA.

Location (waters) MIDDLE FORK RIVER

Coal Owner HENRY D & ANNA REGISTER

Well No. LK # 2 Elevation 1917

Address MIDDLE FORK RIVER, BUCKHANNON, W. VA.

District UNION County UPSHUR

Coal Operator NONE

Quadrangle SAGA Jago

Address _____

Mr. Paul
INSPECTOR TO BE NOTIFIED Thomas
Boyle PH: 472-6418
Buckhannon
W. VA. 26201

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 5-3-73.

Robert K. Fode
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 JUNE 17 1972 by HENRY & ANNA REGISTER made to CHESTERFIELD CORP. and recorded on the 23RD day of SEPT. 1972 in UPSHUR County, Book 55 Page 207

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.

Very truly yours,
(Sign Name) Stanley A. Pickens
Well Operator

Address _____
of _____
Well Operator _____
Street 145 THORN ST.
City or Town CHARLESTON
State W. VA. 26301

*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.

BOND DRILL

Ups-1476 PERMIT NUMBER

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

PROPOSED WORK ORDER TO X DRILL DEEPEN X FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME B. M & S DRILLING CO. NAME STANLEY N. PICKENS
 ADDRESS BUCKHANNON, W. VA. ADDRESS 145 THORN ST. CLARKSBURG.
 TELEPHONE 216-264-9701 TELEPHONE 304-623-5467
 ESTIMATED DEPTH OF COMPLETED WELL: 2200' ROTARY X CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: 5TH SAND
 TYPE OF WELL: OIL X 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	15'	15'	85K
13 - 10			
9 - 5/8			
8 - 5/8 11" HOLE	600'	600'	CIRCULATE TO SURFACE
7			
5 1/2			
4 1/2 7 7/8" HOLE	2200'	500'	1105K
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 45 FEET 90 SALT WATER FEET
 APPROXIMATE COAL DEPTHS UNKNOWN
 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