



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 THE CHEATERFIELD CORP.  
 Address P.O. Box 377, Clarkburg, W. Va.  
 Farm Henry Register  
 Tract 20 Acres 20 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 2035  
 Quadrangle Sage NE  
 County Upshur District Union  
 Engineer [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Dec 30 1972 Scale 1" = 200' = 330'

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

WELL LOCATION MAP

FILE NO. Upa-1477

+ 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  Oil  C. NO. LL  
Cable \_\_\_\_\_ Gas  C. NO. LL  
Recycling \_\_\_\_\_ Comb.   
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Sago  
Permit No. UPS-1477

Company Chesterfield Corporation  
Address Box 2428, Clarksburg, W.Va.  
Farm Henry Register Acres 20  
Location (waters) Middle Fork River  
Well No. L & L No. 1 Elev. 2038  
District Union County Upshur  
The surface of tract is owned in fee by Henry & Annie Register  
Address Middle Fork River, Buckhannon  
Mineral rights are owned by Henry & Annie Register Address Middle Fork River  
Drilling Commenced 2-7-73  
Drilling Completed 2-15-73  
Initial open flow 60M cu. ft. sho bbls.  
Final production 1.5MM cu. ft. per day 20 bbls.  
Well open 4 hrs. before test 700 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
Cond.	14	14	8sx
13-10"			
9 5/8			
8 5/8	720	720	170sx-Howco to surface
7			
5 1/2			
4 1/2	3640	3640	470sx-Howco
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Howco - Waterfrac - two stage w/baffle @1930'  
Benson Fm-BDW/500 gal MSA acid BD press 1900 psi  
frac w/680 bbls sd laden fluid 44,000 #20/40 sd  
air 36.1BPM AIP2400 psi HHP used 2124  
5th Sand Fm- BD w/500 gal MSA acid BD press 2300 psi  
frac 2/646 bbls sd laden fluid 31,00 #20/40 sd AIR 36.2BPM  
Coal was encountered at None ~~xxxx~~ HHP used 2218 ~~xxxx~~ AIP 2500 psi  
Fresh water 75' Feet 120' Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Benson Sand - 5th Sand Depth 3543-67 1781-92 - FIPH

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay & Sandstone			0	14		
SS & Shale			14	498		Water at 120'
Redrock & Sand			498	720		
Sand & Shale			720	806		
Little Lime & Shale			806	912		
Big Lime			912	1024	*	
Shale			1024	1040	*	
Keener Lime			1040	1070	*	
Big Injun Sd			1070	1140		
Sand & Shale			1140	1774		
5th Sand			1774	1872		sho of oil and gas*
Shale			1872	2020		
Bayard Sand			2020	2050	*	
Sand & Shale			2050	3310		
2nd Riley			3310	3325	*	
Sdy Shale			3325	3366		
3rd Riley			3366	3390	*	
Sand & Shale			3390	3540		
Benson Sand			3540	3570	*	
Sand & Shale			3570	3664		

Rotary TD 3664

(over)

\* Indicates Electric Log tops in the remarks section.



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JAN 4 1973

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 DEC. 28, 1972  
Company CHESTERFIELD CORP  
Address P.O. Box 242B CLARKSBURG, W. VA.  
Farm HENRY REGISTER Acres 20  
Location (waters) MIDDLE FORK RIVER.  
Well No. L&L #1 Elevation 2038  
District UNION County UPSHUR  
Quadrangle SAGA

Surface Owner HENRY D. & ANNA REGISTER  
Address MIDDLE FORK RIVER, BUCKHANNON W. VA.  
Mineral Owner HENRY D. & ANNA REGISTER  
Address MIDDLE FORK RIVER BUCKHANNON  
Coal Owner HENRY D. & ANNA REGISTER  
Address MIDDLE FORK RIVER, BUCKHANNON  
Coal Operator NONE  
Address \_\_\_\_\_

INSPECTOR TO BE NOTIFIED Mr. Paul Thomas  
Box 12 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 5-8-73.

Robert H. Todd  
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 D. 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 145 THORN ST. Street  
of \_\_\_\_\_  
Well Operator CLARKSBURG. 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.

BOND DRILL

Ups-1477 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 DRLG. CO. NAME STANLEY N. PICKENS  
 ADDRESS BUCKHANNON, W. VA. ADDRESS 145 THORN ST.  
 TELEPHONE 216-264-9701 TELEPHONE 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			
13 - <del>10</del>	15'	15'	85X
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'	1105X CEMENT
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