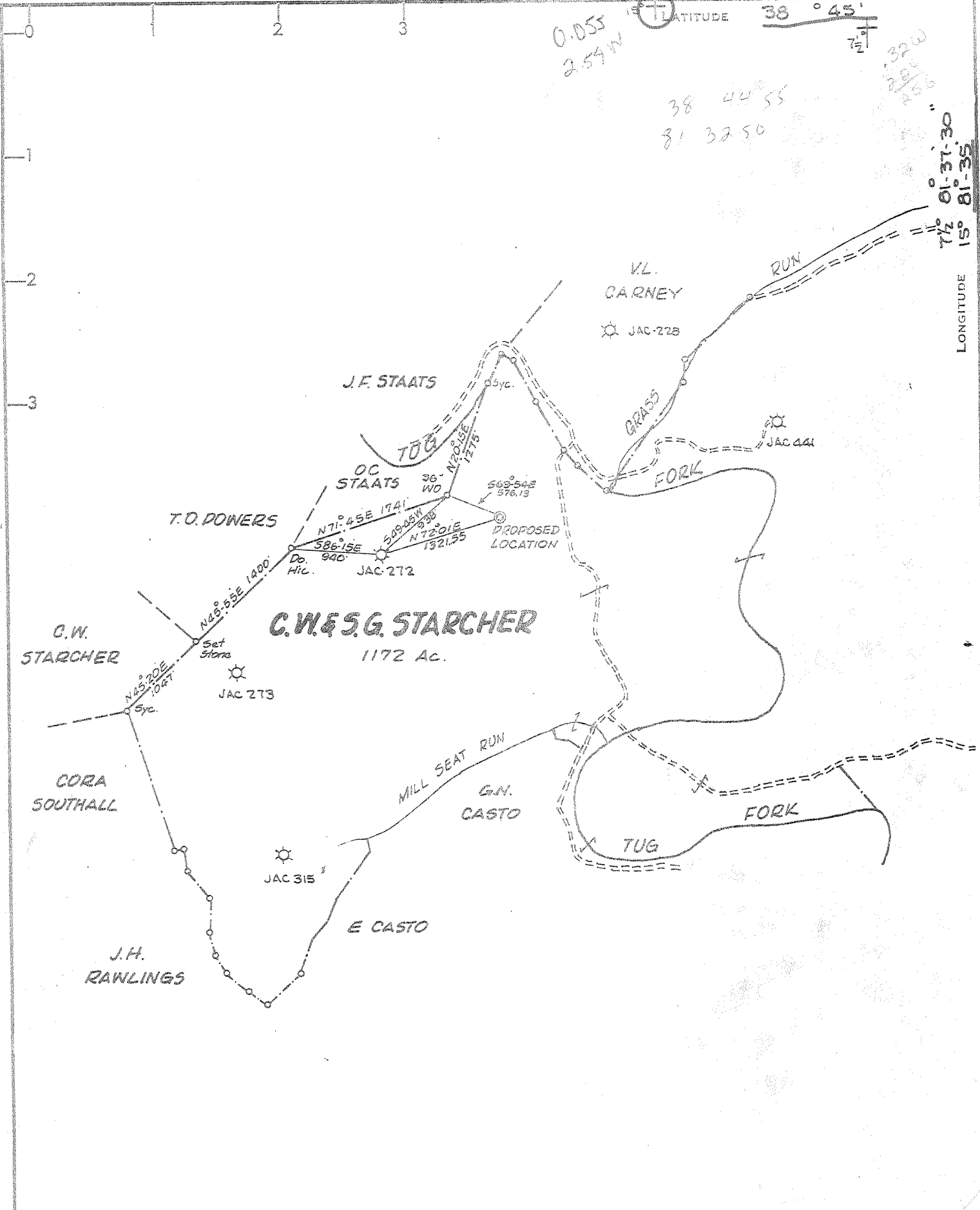


11/8/78



**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 200

Signed Frank J. Barba U.S. 289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY H.D. WELLS OIL & GAS EXPLORATION & DEVELOPMENT CO. INC.  
 ADDRESS P.O. BOX 1785 CHARLESTON, W. VA.  
 FARM C.W. & S.G. STARCHER, Heritage Farms  
 MAP \_\_\_\_\_ ACRES 1172 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 1 SERIAL NO. \_\_\_\_\_  
 ELEVATION (SPIRIT LEVEL) 657.2  
 QUADRANGLE KENNA N.C.  
 COUNTY JACKSON DISTRICT WASHINGTON  
 POINT OF PROVEN ELEVATION UFG WELL # 5086  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE NOV. 4, 1978 SCALE 1" = 1320'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. JAC-1469  
35  
 NOV 30 1978  
 + 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. **47-035**  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

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

Date: April 3,

FORM IV-35  
(Reverse)

Operator: Starcher # 1

(08-78)

WELL OPERATOR'S REPORT 44

ADJ Well No. Jackson 1

OF  
DRILLING, REWORKING AND/OR STEEL LATING, OR PHYSICAL CHANGE

State Survey Form  
035-1469

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal

(If "Gas", Production  / Underground storage  / Deep  / Shallow

LOCATION: Elevation: 657.2 Watershed: Tug Fork of Mill Creek

District: Washington County: Jackson Quadrangle: Kenna

WELL OPERATOR H. D. Wells Oil & Gas DESIGNATED AGENT Same

Address P. O. Box 1785 Address \_\_\_\_\_  
Charleston, WV 25326

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill

Plug off old formation  / Perforate new formation

Other physical change in well (specify) \_\_\_\_\_

RECEIVED  
NOV - 3 1980

PERMIT ISSUED ON Nov. 8, 19 78

OIL & GAS INSPECTOR FOR THE **OIL & GAS DIVISION DEPT. OF MINE**

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name: Mr. Morris

Address Grantsville, WV

Phone 354-7259

GEOLOGICAL TARGET FORMATION: Brown Shale Depth 4230

Depth of completed well, 4230 feet Rotary  / Cable Tools

Water strata depth: Fresh, 165 feet; salt, 1173 feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced Nov. 9, 19 78, and completed Nov. 30, 19 78

CASING AND TUBING PROGRAM

CASING OR. TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	9 5/8		23	X			300 feet	Back to Surface
Fresh water	165							
Coal	None							Sizes
Intermediate	7"		23	X			2335	1000 feet
Production	7"						2335	Depth set
Tubing	None							
Liners	None							Perforations:

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3,000-4,200

Gas: Initial open flow, 15 Mcf/d Oil: Initial open flow, NA Bbl/d

Final open flow, 103 Mcf/d Final open flow, NA Bbl/d

Time of open flow between initial and final tests, 24 hours

Static rock pressure, 960 psig (surface measurement) after 72 hours shut in.

(If applicable due to multiple completion--)

Second producing formation NA Pay zone depth 3,000 - 4,200

Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d

Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests, \_\_\_\_\_ hours

NOV 2 5 1980

## WELL LOG

FORMATION	TOP 44	BOTTOM	
Surface	0	15	
Red rock	15	80	
Blue Shale	80	90	
Red rock	90	125	
Slate	125	140	
Sand & slate	140	185	Water
Red rock	185	245	
Sand	245	275	
Red rock	275	319	
Sand	310	333	
Red rock	333	430	
White slate	430	555	
Pittsburg Sand	555	620	
Red rock	620	625	
White slate	625	635	
Red rock	635	655	
Sand	655	660	
Red rock	660	675	
White slate	675	700	
Red rock	700	740	
Slate & shell	740	765	
White slate	765	775	
Lime	775	785	
Blue shale	785	800	
Black slate	800	805	
Lime	805	820	
White slate	820	826	
Little Dunkard Sand	826	853	
Red rock	853	863	
White Slate	863	914	
Gray lime	914	944	
Blue slate	944	985	
Lime	985	1030	
Sand	1030	1109	
White shale	1109	1130	
Salt sand	1130	1173	
Water sand	1173	1195	Salt Water
Sand	1195	1220	
Water sand	1220	1235	
Shale	1235	1265	
Sand	1265	1376	
Slate & shell	1376	1405	
Gray Lime	1405	1497	
Slate	1497	1524	
Black Lime	1524	1555	
Shale	1555	1623	
Maxton sand	1623	1786	
Shale	1786	1792	
Little Lime	1792	1820	

FORMATION	TOP <sup>44</sup>	BOTTOM
Pencil Cave	1820	1822
Big lime	1822	1942
Keener sand	1942	1969
Slate	1969	1971
Injun sand	1971	2027
Shale	2027	2032
Lime	2032	2038
Slate & shells	2038	2165
White slate	2165	2390
Brown shale	2390	2402
Berea sand	2402	2412
Slate & shells	2412	3680
Brown shale	3680	3785
Slate & shell	3785	3895
Brown shale	3895	3990 Show of Gas
Slate & shell	3990	4010
<u>Brown shale</u>	4010	4230 Total Depth

*G.D. Well with gas*

*G.D. Well Bu.*

*4/3/59*



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED  
NOV - 8 1978

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Heritage Farms  
Address Statts Mill Rd.  
Mineral Owner C.W. Statcher  
Address Florida  
Coal Owner Same  
Address Same  
Coal Operator None  
Address \_\_\_\_\_

DATE Nov 8-78  
Company H.D. Wells Oil & Gas Expt. Rec.  
Address P.O. Box 1785  
Farm C.W. Statcher Acres 1172  
Location (waters) Tug Fork  
Well No. #1 Elevation 657.2  
District WASH County JACK  
Quadrangle Kenna

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 3-9-79.

INSPECTOR  
TO BE NOTIFIED Mr. Mottis  
ADDRESS Grantsville, W.Va.  
PHONE 354 7259

Robert T. [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 1972 by C.W. Statcher made to United Fuel Gas and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

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

Address  
of  
Well Operator

Very truly yours,  
(Sign Name) A.D. Wells [Signature]  
Well Operator  
P.O. Box 1785  
Street  
Charleston, 25326  
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 BOND

JAC-1469

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 A.D. Wells [Signature]

47-035

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 G. Jones \_\_\_\_\_ NAME H.D. Wells III \_\_\_\_\_  
 ADDRESS Spencer W.Va \_\_\_\_\_ ADDRESS P.O. Box 1785 \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE 346-2829 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 4100 \_\_\_\_\_ ROTARY X \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: B. Shale. Pretty close \_\_\_\_\_  
 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	300 ft	Cement to	Surface
8 - 5/8			
7	2,200 ft		
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 120 FEET 1100 SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS None \_\_\_\_\_  
 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