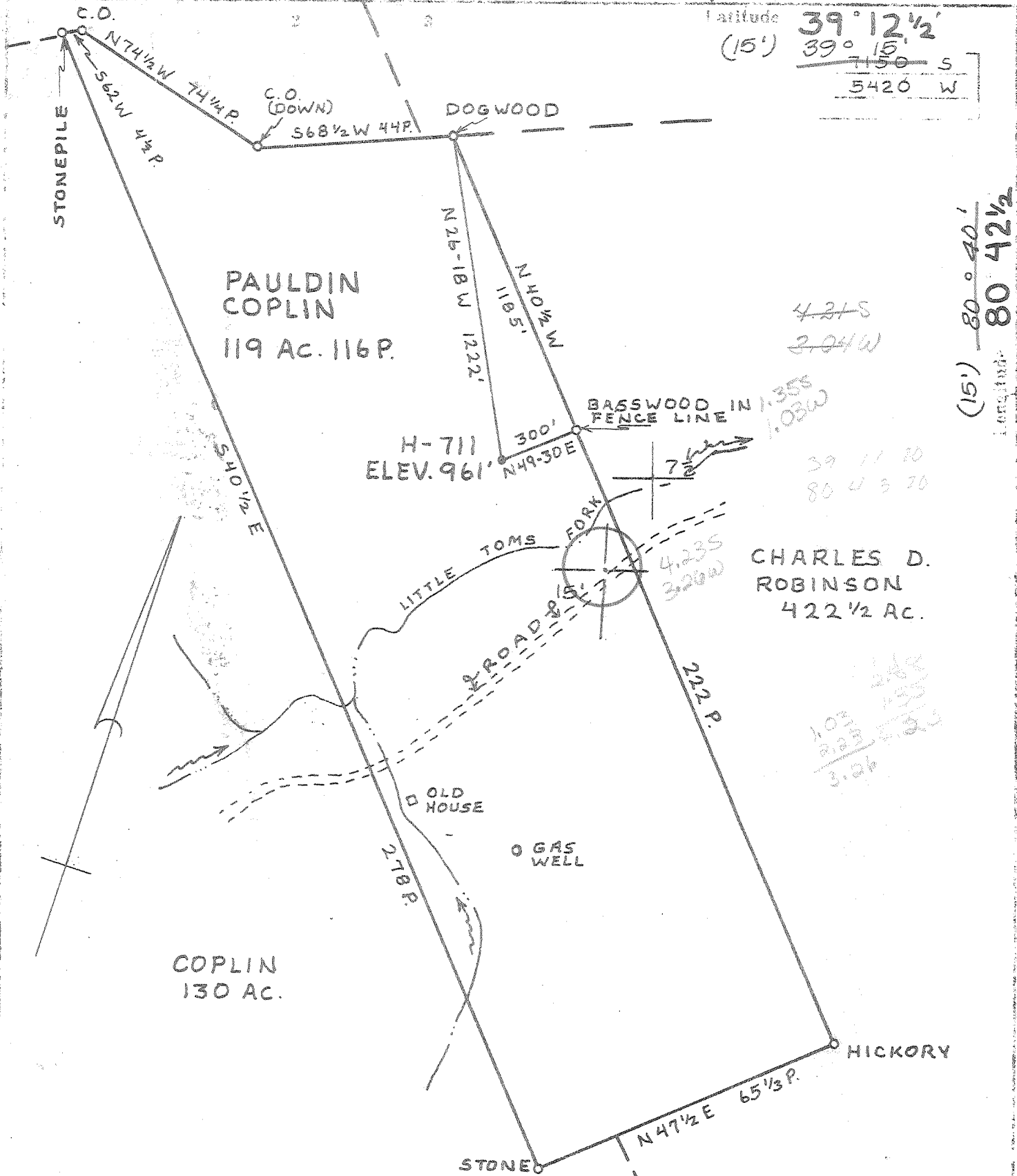


Latitude **39° 12' 1/2"**
 (15') **39° 15'**
 7150 S
 5420 W



(15') ~~80° 40'~~
 Longitude **80° 42' 1/2"**

PAULDIN
 COPLIN
 119 AC. 116 P.

CHARLES D.
 ROBINSON
 422 1/2 AC.

COPLIN
 130 AC.

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

Source of Elevation **ROAD ELEVATION** ELEV **893'**
 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 8 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.
William R. Mossor
 Minimum accuracy, one part in 200

Company **GLENN L. HAUGHT & SONS**
 Address **SMITHVILLE, W.VA. 26178**
 Farm **PAULDIN COPLIN**
 Tract _____ Acres **119 Ac. 116 P.** Lease No. _____
 Well (Farm) No. **H-711** Serial No. _____
 Elevation (Spirit Level) **961'** **NW**
YAD 15 15'
 Quadrangle **NEW MILTON, W.VA. 7 1/2' QUAD.**
 County **DODDRIDGE** District **NEW MILTON**
 Surveyor or Engineer **WILLIAM R. MOSSOR, L.L.S.**
 Surveyor's or Engineer's Registration No. **551**
 File No. _____ Drawing No. _____
 Date **22 DEC. 1978** Scale **1" = 30 P.**

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

WELL LOCATION MAP
 FILE NO. **47-017-2325**

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.

JAN 25 1979

(08-78)

WELL OPERATOR'S REPORT
OF

Permit No. VH-711

API Well No. 47 017-2325

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

State County Per

WELL TYPE: Oil / Gas / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production / Underground storage ___ / Deep ___ / Shallow)

LOCATION: Elevation: 961' Watershed: Little Toms Fork
District: New Milton County: Doddridge Quadrangle: New Milton, WV 7 1/2'

WELL OPERATOR Coplin VH-711
GLENN L. HAUGHT & SONS DESIGNATED AGENT WARREN R. HAUGHT
Address Smithville, WV 26178 Address Smithville, WV 26178

PERMITTED WORK: Drill / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation 13 /
Other physical change in well (specify) _____

APR - 9 1979

PERMIT ISSUED ON December 27, 19 78

OIL & GAS INSPECTOR DEPT. OF MINES

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

Name Kenneth Paul Goodnight

Address Smithville, WV 26178

477-3660

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 4029-5392 feet

Depth of completed well, 5470 feet Rotary / Cable Tools ___

Water strata depth: Fresh, ___ feet; salt, ___ feet.

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

Work was commenced Feb. 6, 19 79, and completed March 3, 19 79

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								Runs
Fresh water	11"			X		208'	208'	90 Sacks
Coal								Sizes
Intermediate	8 5/8"	K-55	20#	X		1930'	1930'	115 Sacks
Production	4 1/2"	J-55	10.5#	X		5461'	5461'	180 Sacks
Tubing								Depth set
Screen								Perforations: 4029-5392

DOWN HOLE LOG

Formation Devonian Shale Depth range 4029-5392

Initial flow, ___ gpm Final flow, ___ gpm

Initial flow, 920,000 gpm/d Final flow, 5 gpm/d

Time of flow between initial and final tests, 8 hours

Initial pressure, 1175 psig (surface measurement) after 12 hours shut in

[Additional data for completion]

Flow rate, ___ gpm Depth, ___ feet

Flow rate, ___ gpm Flow, ___ gpm

Flow rate, ___ gpm

APR 27 1979

DETAILS OF TEST RATED INTERVALS, REACTANTS OR STIMULATING FLUIDS, PHYSICAL CHANGE, ETC.
 Hydrafraced by Halliburton - 3-10-79 -- 2,360 bbls. Water -- 2,000 Gal. Acid --
 13,000 Lbs. 20-40 Mesh Sand --116,000 Lbs. 80-100 Mesh Sand.

Perforations - 15--5392-5204
 14--4922-4916
 14--4479-4469
 14--4045-4029

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks including indication of all fresh and salt water, coal, oil and gas
Shale	Grey	Med.	875	1240	
Shale	Grey/Brn.	Soft	1240	1290	
Shale	Grey	Soft	1290	1325	
Shale	Grey	Soft	1325	1375	
Shale	Brn/Grey	Soft	1375	1425	
Shale	Grey	Soft	1425	1500	Water
Shale	Grey	Soft	1500	1590	
Sandy Shale	Grey	Soft	1590	1630	
Shale	Grey	Med.	1630	1700	
Shale	Black	Soft	1700	1740	
Sandy Shale	Grey	Med.	1740	1810	
Shale	Black	Soft	1810	1840	
Shale	Dk. Grey	Med.	1840	1895	
Shale	L. Grey	Med.	1895	1902	
Shale	Grey	Soft	1902	1965	
Shale	Dk. Grey	Med.	1965	2020	
Shale	Grey	Soft	2020	2160	
Shale	Grey	Soft	2160	2200	
Shale	Lt. Grey	Soft	2200	2235	Gas at 2250'
Shale	Grey	Soft	2235	2270	
Shale	DK. Grey	Med.	2270	2300	
Shale	Grey	Soft	2300	2360	
Sandy Shale	Gray	Med.	2360	2400	
Shale	Grey	Med.	2400	2475	
Shale	Dk. Grey	Med.	2475	2525	
Shale	Lt. Grey	Soft	2525	2600	
Sandy Shale <i>Gordon</i>	Grey	Hard	2600	2710	Wet hole @ 2650'
Sandy Shale	Lt. Grey	Hard	2710	2745	Drilg. w/air & foam
Shale	Dk. Grey	Soft	2745	2800	
Shale	Grey	Med.	2800	2850	
Shale & Sand	Grey	Med.	2850	2880	...
Shale	Grey	Soft	2880	2970	
Sandy Shale	Grey	Med.	2970	3030	
Shale	Grey	Soft	3030	3200	
Shale	Brown	Hard	3200	3220	
Shale	Gray	Med.	3220	3238	
Sandy Shale	Gray	Hard	3238	3420	
Shale	Gray	Med.	3420	3445	
Sandy Shale	Gray	Med.	3445	3800	
Shale	Gray	Soft	3800	4200	
Sandy Shale	Gray	Med.	4200	4265	
Shale	Gray	Hard	4265	4330	
Shale	Gray	Soft	4330	5470	T.D.

Alex

5470
 2710
 2760 Exp. ft.

GLENN L. HAUGHT & SONS

Glenn R. Haught

Partner



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

DEC 26 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Pauldin G. & Shirley J. Coplin
Address Rt. 1, Box 226D, Weston, WV
Mineral Owner Same
Address _____
Coal Owner _____
Address _____
Coal Operator None
Address _____

DATE December 23, 1978
Company Glenn L. Haught & Sons
Address Smithville, WV 26178
Farm Coplin Acres 119A
Location (waters) Little Toms Fork
Well No. H-711 Elevation 961'
District New Milton County Doddridge
Quadrangle New Milton, WV 7 1/2'

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 27,
of the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 4-27-79.

Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS Clarksburg, WV
PHONE 622-3871

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 Nov. 14 1978 by Pauldin G. & Shirley J. Coplin made to Key Oil Co. and recorded on the 29th day of Nov. 1978, in Doddridge County, Book 105 Page 625

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, GLENN L. HAUGHT & SONS
(Sign Name) BY: Warren R. Haught
Well Operator Partner

Address _____
of _____
Well Operator _____
Street _____
Smithville, WV 26178
City or Town _____
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

47-017-2325

PERMIT NUMBER

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Fox Drilling Co. NAME Warren R. Haught
 ADDRESS Glenville, WV ADDRESS Smithville, WV 26178
 TELEPHONE 462-7353 TELEPHONE 477-3333
 ESTIMATED DEPTH OF COMPLETED WELL: 5500' ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS XX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT III UP OR SACKS - CUBIC FT
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	800'	800'	200 sacks
7			
5 1/2			
4 1/2		5500'	150 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET _____ 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