



- Calls reading Clockwise from "A"
- S 83° W, 400' ± Pike
  - S 56° W, 181.5 ± "
  - S 35° W, 148.5 ± Pike
  - S 29° W 363 ± Pike
  - S 68° W 198' ± Pike
  - S 83° W 396' ± Pike
  - S 44° W 165' ± Pike
  - S 15° 30' E 99'
  - S 44° 00' E 125'
  - S 77° 15' E 99'
  - S 35° 30' E 87' Hickory
  - S 17° 15' W 247.5' stone at water gap
  - N 88° 00' W 120' Walnut
  - N 81° 00' W 143' stone, walnut ptrs
  - N 52° 00' W 33' Mulberry
  - N 73° 30' W 181.5 stone
  - S 83° 15' W 118' Mulberry
  - S 74° 00' W 132' stone
  - S 66° 00' W 157' stone, Sucomore ptr.
  - N 72° 00' W 135' stone
  - N 81° 30' W 115.5 "
  - S 52° 30' W 190' "
  - N 72° 00' W 145' "
  - N 89° 00' W 339' "
  - S 53° 00' W 152' River Bank
  - N 50° 00' E 290' ± Pike
  - N 24° 00' E 99' "
  - N 15° 00' E 320' "
  - N 30° 30' E 148.5' stone
  - N 43° 30' E 165' "
  - N 32° 00' E 198' "

Surface:- Howard Dilly,  
Route 1, D-x 96,  
West Union  
W.Ua.

Minimum Error of Closure 1 in 200

Source of Elevation U.S.G.S. B.M. at Oxford = 815'

- 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: M. Robert J.  
Squares: N S E W

Company J and J Enterprises Inc  
 Address 1/2 J. Robert Hornor, P.O. Box 225, Clarksburg, W.V.  
 Farm P.B. Michael, Howard Dilly  
 Tract \_\_\_\_\_ Acres 160 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 973' NC  
 Quadrangle Oxford 7 1/2, Halbrook 15'  
 County Doddridge District Southwest  
 Engineer M. Robert J.  
 Engineer's Registration No. 1222 665200  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date July 4, 1978 Scale 1" = 2000'

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

WELL LOCATION MAP  
FILE NO. DODD-2282

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing. 47-017



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD 2

Quadrangle Oxford-Holbrook

Permit No. DODD-2282

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

Company J. & J. Enterprises, Inc.  
Address Indiana, Pa. 15701  
Farm P.B. Michael Heirs et als Acres 160  
Location (waters) South Fork Hughes River  
Well No. One (1) Elev. 973'  
District Southwest County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Howard Dilly  
Address Rt. 1-Box 96, West Union W. VA.  
Mineral rights are owned by Leona Broadwater  
et als Address Oxford, W. Va.  
Drilling Commenced 8-28-78  
Drilling Completed 9-5-78  
Initial open flow Show cu. ft. \_\_\_\_\_ bbls.  
Final production 420,000 cu. ft. per day 0 bbls.  
Well open 8 hrs. before test 1100 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	380'	380'	
7			
5 1/2			
4 1/2		2390'	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Hydrafraced by Halliburton 9-8-78 -- 800 Bbls. Water -- 500 Gal. Acid-  
- 32,000 lbs. 20-40 Mesh Sand -- 10,000 lbs. 80-100 Mesh Sand.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 80 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Weir Depth Preforations 11--2235-2288  
11--2320-2351

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Slate			400	411		
Sand			411	421		
Slate			421	448		
Red Rock/Slate			448	461		
Red Rock			461	489		
Slate			489	498		
Red Rock			498	517		
Slate			517	530		
Sand			530	544		
Slate			544	546		
Sand			546	550		
Red Rock			550	560		
Slate			560	565		
Red Rock/Slate			565	589		
Sand			589	598		
Red Rock/Slate			598	613		
Sand			613	619		
Slate			619	632		
Sand			632	651		
Slate			651	687		
Sand			687	690		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet $\pm$	Bottom Feet	Oil, Gas or Water	* Remarks
Slate			690	700		
Red Rock			700	710		
Slate			710	730		
Red Rock			730	738		
Slate			738	780		
Red Rock/Salte			780	795		
Sand			795	800		
Red Rock			800	809		
Slate			809	820		
Red Rock			820	836		
Slate			836	848		
Sand			848	883		
Red Rock/Slate			883	887		
Sand			887	915		
Slate			915	922		
Sand			922	947		
Slate			947	959		
Sand			959	964		
Slate			964	1013		
Sand			1013	1060		
Slate			1060	1120		
Sand			1120	1182		
Slate			1182	1225		
Sand			1225	1260		
Slate			1260	1300		
Sand			1300	1335		
Slate			1335	1343		
B. Slate			1343	1350		
Slate			1350	1413		
Sand			1413	1436		
Slate			1436	1455		
Sand			1455	1506		
Slate			1506	1528		
Sand			1528	1537		
Slate			1537	1564		
Sand			1564	1592		
Slate			1592	1631		
Sand			1631	1666		
Slate			1666	1672		
Sand			1672	1775		
Slate			1775	1795		
Sand			1795	1857		
L. Lime			- 1857	1885		
Pencil Cave			1885	1895		
Maxon Sand			1895	1928		
Big Lime			- 1928	2008		
Big Injun Sand			2008	2053		
Slate			2053	2230		
Weir			2230	2358		
Slate			2358	2434	T.D.	

Date September 29, 1978

APPROVED GLENN L. HAUGHT & SONS Owner

By Warren R. Haught  
(Title) Partner



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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AUG 14 1978

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

*Handwritten initials*

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

DATE August 8, 1978

Surface Owner Howard Dilly  
Address Route 1 Box 96 West Union W. Va.  
Mineral Owner Leona Broadwater et al.  
Address Oxford, W. Va.  
Coal Owner None  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company J. and J. Enterprises, Inc.  
Address Indiana, Pa. 15701  
Farm P. B. Michael Heirs et al Acres 160  
Location (waters) South Fork Hughes River  
Well No. One (1) Elevation 973'  
District Southwest County Doddridge  
Quadrangle Oxford - Holbrook

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 12-15-78.

*Robert K. Jones*  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Garrett  
PH: 622-3871 ADDRESS Clarksburg, W. Va.

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 August 30, and 31st 19 78 by Leona Broadwater et al. made to Clarence W. Mutschelknaus and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Doddridge County, Book 102 Page s 592 through 618

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, W. Va. 26505

Very truly yours,  
*J. Robert Horner*  
(Sign Name) \_\_\_\_\_  
Well Operator J. Robert Horner

Address  
of  
Well Operator

P. O. Box 225  
Street  
Clarksburg, W. Va. 26301  
City or Town  
West Virginia 26301  
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

DODD-2282 PERMIT NUMBER

47-017



**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 Glen L. Haught and Sons NAME J. Robert Horner  
 ADDRESS Smithville, W.Va. 26178 ADDRESS P. O. Box 225 Clarksburg, W.Va. 26301  
 TELEPHONE 477 3333 TELEPHONE 304 - 622 3043  
 ESTIMATED DEPTH OF COMPLETED WELL: 2300' ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16	20'	20'	Cement to surface
13 - 10			
9 - 5/8			
8 - 5/8	400'	400'	Cement to surface
7			
5 1/2			
4 1/2	2300'	2300'	Cement 300' above any
3			Perf. Top producing sands.
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40' to 80' 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