



Fee ownership of this tract is vested in, W.C. Haight
Summers, W. Va.

Minimum Error of Closure 1 in 200
Source of Elevation USGS elev. at Summers, 3/4 mi. east - 825

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.

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

Signed: W. S. Haight
Squares: N S E W

Company UNITED OPERATING CO.
 Address 600 Commerce Sq. Charleston, W. Va.
 Farm W.C. Haight
 Tract _____ Acres 100 Lease No. _____
 Well (Farm) No. I-618 Serial No. _____
 Elevation (Spirit Level) 894
 Quadrangle Oxford 7 1/2 Halbrook 15
 County Doddridge District Southwest
 Engineer W. S. Haight
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date June 14, 1978 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. DODD-2186

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{24,000}/_{62,500} latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing. 47-017



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

SEP 11 1978

Oil and Gas Division OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle Oxford 7½

Permit No. D0DD-2186

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

Company UNITED OPERATING COMPANY
Address 600 Commerce Sq., Charleston, W. Va.
Farm W. C. HAUGHT Acres 100
Location (waters) Lower Run
Well No. 1 (I-618) Elev. 894
District Southwest County Doddridge
The surface of tract is owned in fee by _____
W. C. Haught
Address Summers, WV
Mineral rights are owned by Same
Address Same
Drilling Commenced 7-1-78
Drilling Completed 7-6-78
Initial open flow No test cu. ft. _____ bbls.
Final production 194 M. cu. ft. per day 0 bbls.
Well open 4 hrs. before test 975 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	321	321	Circulated
7			
5 1/2			
4 1/2	0	2150	110 sacks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

BIG INJUN: 460 bbl treated water, 14,000# 80/100 sand, 28,000# 20/40 Sand - Rate 25 BPM, Pressure 2,200 psi.

WEIR: 610 bbl. water - 14,000# 80/100 sand - 18,000# 20/40 sand, 500 gal. acid. Average rate 19 BPM, Average pressure 2,900 psi.

Coal was encountered at No record Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand WEIR - INJUN Depth 1,722-1,798 1,960-2,086 feet

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand-Shale	Grey	Soft	0	973		
Sand	Grey	Hard	973	1030		
Shale	Grey	Soft	1030	1086		
Sand	Grey	Hard	1086	1152		
Shale	Grey	Soft	1152	1306		
Sand some shale	Grey	Hard	1306	1557		
Shale	Grey	Soft	1557	1660		
Lime	Grey	Hard	1660	1722		
Sand (BIG INJUN)	Grey	Hard	1722	1798		
Shale	Grey	Soft	1798	1960		
Sand (WEIR)	Grey	Hard	1960	2086		
Shale	Grey	Soft	2086	2335	T.D.	

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUN 21 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.

DATE June 19, 1978

Surface Owner W. C. Haught

Company United Operating Company

Address Summers, W. Va.

Address 600 Commerce Sq., Charleston, WV

Mineral Owner W. C. Haught

Farm W. C. HAUGHT Acres 100

Address Summers, W. Va.

Location (waters) Lower Run

Coal Owner _____

Well No. 1 (I-618) Elevation 894

Address _____

District Southwest County Doddridge

Coal Operator _____

Quadrangle Oxford 7 1/2

Address _____

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 10-21-78.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St., Clarksburg, WV

PHONE 622-3871

Robert H. [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 7-7 1971 by W. C. Haught made to Consolidated thence and recorded on the United Operating Company day of 19, in Doddridge County, Book 95 Page 375

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, UNITED OPERATING COMPANY

(Sign Name) [Signature]
Well Operator

Address
of
Well Operator

600 Commerce Square
Street

Charleston
City or Town

West Virginia 25071
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-2186 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."

47 017

Signed by [Signature]

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 Warren Haught NAME Lyle Coffman & J. L. Trittipo
 ADDRESS Smithville, WV ADDRESS Norris Road, Glenville, WV
 TELEPHONE 1-477-2222 TELEPHONE 1-462-7176
 ESTIMATED DEPTH OF COMPLETED WELL: 2400' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Weir
 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 - 10			
9 - 5/8			
8 - 5/8	300'	300'	Circ.
7			
5 1/2			
4 1/2	0	2400'	700' Fill-up
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 140 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 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