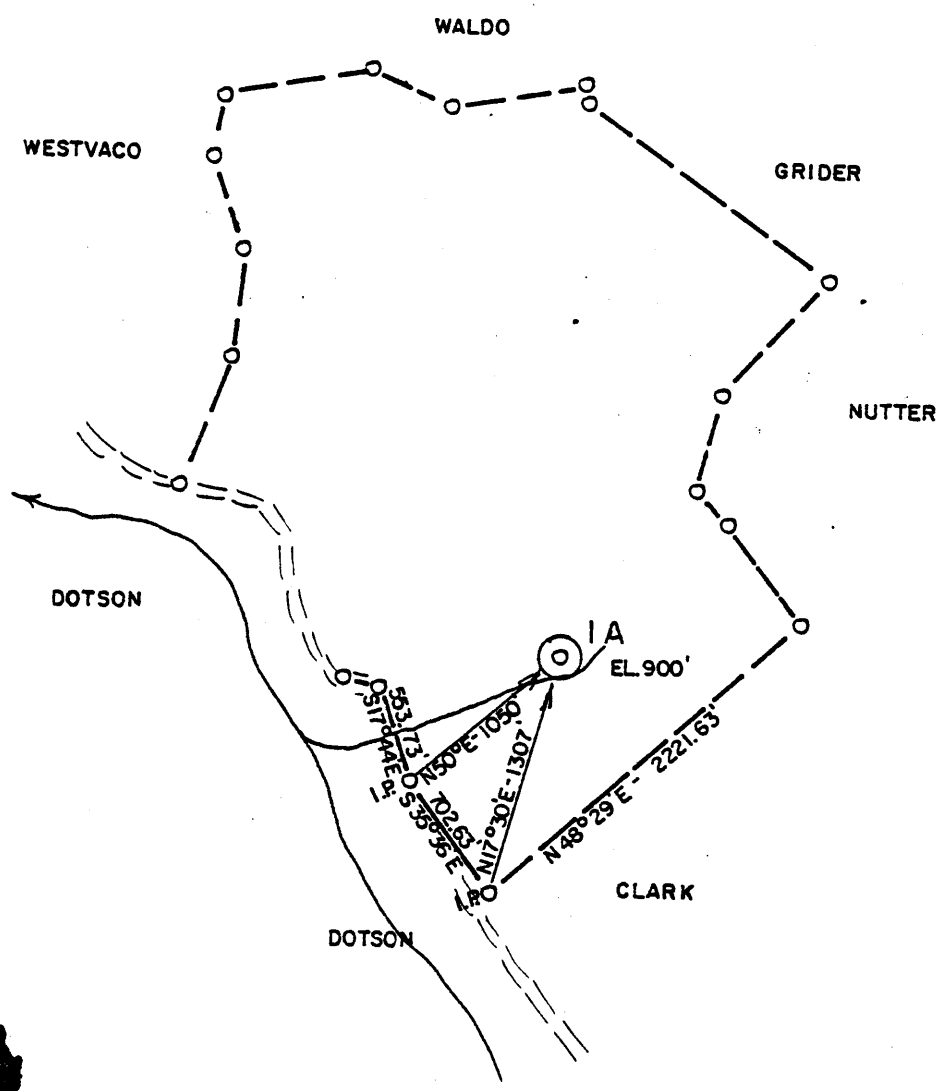


Latitude 39° 15' 00"
 1450' SOUTH
 4800' WEST



Longitude 80° 52' 30"

ACCURACY: 1" / 200'
 New Location
 Drill Deeper
 Abandonment
 Fracture
 Redrill
 Other

Formation SHALE Oil
 Est. Depth 5900' Gas
 Other

Source of Elevation LEASON RUN (807')
 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.

Chet Waterman

Company UNITED OPERATING COMPANY
 Address CHARLESTON, WV
 Surface Owner WESTVACO
 Mineral Owner H.O. DOTSON, H.R.S
 Well No. IA Acres 240
 Elevation 900'
 Quadrangle PULLMAN Series 7.5'
 County DODDRIDGE District CENTRAL
 Date 10/17/80 Scale 1" = 1000'

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

WELL LOCATION MAP
47 - 017 - 2929
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer **CHET WATERMAN**
 Engineer's Registration No. 3788 File No. 80-630

3-3 Greenwood (89)

JAN 26 1981

DPD-ELK-

DEEP WELL

RECEIVED

MAR 15 1984



IV-35 (Rev 8-81) OIL & GAS DIVISION

Date 4-1-81
Operator's
Well No. 1A
Farm H. O. Dotson
API No. 47 - 017 - 2909

RECEIVED
APR 7 - 1984

MINES State of West Virginia
Department of Mines
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / GasX / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 900 Watershed Cabin Run
District: Central County Doddridge Quadrangle Pullman

COMPANY United Operating Company
ADDRESS Suite 930, Commerce Square
DESIGNATED AGENT Jack L. Trittino
ADDRESS SAME
SURFACE OWNER WV Pulp & Paper (WESTVACO)
ADDRESS Parkersburg, WV
MINERAL RIGHTS OWNER Myrtle Dotson heirs
ADDRESS Parkersburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK
Paul Garrett ADDRESS Clarksburg
PERMIT ISSUED Dec. 23, 1980
DRILLING COMMENCED Jan. 5, 1981
DRILLING COMPLETED Jan. 10, 1981
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Lower Devonian Depth 6000 feet
Depth of completed well 6611 feet Rotary X / Cable Tools
Water strata depth: Fresh 60 feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area?

OPEN FLOW DATA
Producing formation Devonian Pay zone depth 5690-5790 feet
Gas: Initial open flow No test Mcf/d Oil: Initial open flow No test Bbl/d
Final open flow 220 Mcf/d AF Final open flow None Bbl/d
Time of open flow between initial and final tests 90 hours
Static rock pressure 1100 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

EIK 5690 - 5790 29 perf. frac. with 400 bbl. gelled water. 30,000# sand
 Balltown 3344 - 3398 25 perf. frac. with 400 bbl. gelled water. 30,000# sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand-Shale	GR.	Soft	0	1250	
Sand	GR.	Hard	1250	1320	
Shale-Sand	GR.	Soft	1320	1630	
Sand	GR.	Hard	1630	1655	
Shale	GR.	Soft	1655	1698	
Lime	GR.	Hard	1698	1770	
Shale	GR.	Soft	1770	1840	
Lime	GR.	Hard	1840	1920	
Big Injun	GR.	Soft	1920	1980	
Shale	GR.	Soft	1980	2176	
Weir	GR.	Soft	2176	2294	
Shale	GR.	Soft	2294	3240	
Speechley	GR.	Soft	3240	3314	
Shale w/ sand stringers	GR.	Soft	3314	4180	
Sand	GR.	Soft	4180	4202	
Shale w/ sand stringers	GR.	Soft	4202	5690	
Sand	GR.	Soft	5690	5720	
Shale w/ sand stringers	GR.	Soft	5720	6390	
Lime	GR.	Soft	6390	6611	

66 11
900
57 11

66 11
-5300
= 1311 EXP
Ag

Onion
(foriskany)

(Attach separate sheets as necessary) JD

United Operating Company
Well Operator

By: Jack J. Dutta/K.C.
Date: March 14, 1984 ✓

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
DEC 23 1980

Oil and Gas Division
OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE December 22, 1980

Surface Owner Westvaco

Company United Operating Company

Address _____

Address 600 Commerce Square, Charleston, WV

Mineral Owner H. O. Dotson Heirs

Farm H. O. Dotson Acres 240

Address _____

Location (waters) Cabin Run

Coal Owner _____

Well No. 1-A Elevation 900'

Address _____

District Central County Doddridge

Coal Operator _____

Quadrangle Pullman

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 8-30-81.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street, Clarksburg, WV

PHONE 1-622-3871

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 October 5 19 80 by Palmer Hill made to United Operating Company and recorded on the 28th day of October 19 80 in Doddridge County, Book 117 Page 558

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) United Operating Company
Well Operator (President)
600 Commerce Square
Street
Charleston,
City or Town
West Virginia 25301
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.

47-017-2909

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

**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 _____ NAME J. L. Trittipo/Lyle Coffman
 ADDRESS _____ ADDRESS 600 Commerce Square/Norris Road
 TELEPHONE _____ TELEPHONE Charleston, WV/Glenville, WV
 ESTIMATED DEPTH OF COMPLETED WELL: 5900' ROTARY X 343-9383 or 462-6176 CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Shale
 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			
8 - 5/8 H 24# New	1600'	1600'	Circulated to surface
7			
5 1/2			
4 1/2 K or 10.5 new	5900'	5900'	2,000' fillup or as required by rule 15.01
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? _____ 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