



Surface:-  
H. Spurlock & C. Michaels  
West Union, W. Va.

Minimum Error of Closure 1 in 200  
Source of Elevation USGS elev on Sheep Run Road 1800' SW of location = 858'

- 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: W. Nutter  
Squares: N S E W

Map No. \_\_\_\_\_

Company United Operating Co.  
Address 600 Commerce Sq. Charleston, W. Va.  
Farm John Birch, H. Spurlock & C. Michaels  
Tract \_\_\_\_\_ Acres 44.89 Lease No. \_\_\_\_\_  
Well (Farm) No. One Serial No. \_\_\_\_\_  
Elevation (Spirit Level) 1071 NE  
Quadrangle Pullman 7 1/2, Halbrook 15'  
County Doddridge District Southwest  
Engineer W. Nutter  
Engineer's Registration No. 1227 LLS 200  
File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
Date Dec. 5, 1977 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. DOD-1884

+ 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.  
DEC 30 1977  
- Denotes one inch spaces on border line of original tracing.  
47-017



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**PROCESSED**  
OIL & GAS DIVISION  
DEPT. OF MINES

**Oil and Gas Division**

**WELL RECORD**

Quadrangle Pullman 7½  
Permit No. DDDD-1884

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

Company <u>United Operating Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>600 Commerce Sq., Charleston, WV</u>				
Farm <u>John Birch</u> Acres <u>44.89</u>				
Location (waters) <u>Sheep Run</u>				
Well No. <u>1</u> Elev. <u>1071</u>				
District <u>Southwest</u> County <u>Doddridge</u>				
The surface of tract is owned in fee by <u>H. Spurlock &amp; C. Michaels</u>				
Address <u>West Union, W. Va.</u>				
Mineral rights are owned by <u>John Birch et al</u>				
Address <u>West Union</u>				
Drilling Commenced <u>January 30, 1978</u>				
Drilling Completed <u>February 3, 1978</u>				
Initial open flow <u>Sho</u> cu. ft. <u>0</u> bbls.				
Final production <u>1,115</u> M. ft. per day _____ bbls.				
Well open <u>4</u> hrs. before test <u>1200</u> RP.				
Size <u>20-16</u>				
Cond. <u>13-10"</u>				
<u>9 5/8</u>				
<u>8 5/8</u>		<u>243</u>	<u>243</u>	<u>Circulated</u>
<u>7</u>				
<u>5 1/2</u>				
<u>4 1/2</u>			<u>2140</u>	<u>700' Fillup</u>
<u>3</u>				
<u>2</u>				
Liners Used _____				

Well treatment details: Attach copy of cementing record.  
Fraced 3 zones with 1675 bbls. water - Upper Weir - Lower Weir and  
Injun. 106,000 pounds sand -(20,000# 80/100, 86,000# 20/40) Average  
treating pressure in Weir 2,220, in Big Injun 2,700.

Coal was encountered at No Coal Feet \_\_\_\_\_ Inches \_\_\_\_\_  
 Fresh water 60' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
 Producing Sand Weir and Big Injun Depth 1,796-1,820-1,982, 2,094  
B.I Weir

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand-Shale	Grey	Hard	0	292		
Shale	Grey	Soft	292	308		
Sand-Streaks of Shale		Hard	308	608		
Shale	Grey	Soft	608	614		
Sand	Grey	Hard	614	920		
Shale	Grey	Soft	920	1014		
Sand	Grey	Hard	1014	1045		
Shale	Grey	Soft	1045	1080		
Sand	Grey	Hard	1080	1142		
Shale	Grey	Soft	1142	1170		
Sand	Grey	Hard	1170	1220		
Sand-Shale	Grey	Soft	1220	1680		
Lime	Grey	Hard	-1680	1786		
Sand(Big Injun)Gr.	Gr.	Soft	1786	1820	Sho Gas	
Shale	Grey	Soft	1820	1982		
Weir	Grey	Soft	1982	2094	Sho Gas	
Shale	Grey	Soft	2094	2160	T.D.	

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
DEC 20 1977

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 December 19, 1977

Surface Owner H. Spurlock & C. Michaels  
Address West Union, WVA  
Mineral Owner John Birch et al  
Address West Union, W. Va.  
Coal Owner None  
Address ---  
Coal Operator ----  
Address ---

Company United Operating Company  
Address 600 Commerce Sq., Charleston, WV  
Farm John Birch Acres 44.89  
Location (waters) Sheep Run  
Well No. 1 Elevation 1071  
District Southwest County Doddridge  
Quadrangle Pullman 7 1/2

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 4-23-78.

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

*Robert R. [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 3-27- 19 73 by John Birch made to Consolidated thence/ and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Doddridge County, Book 97 Page 115

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) [Signature]  
Well Operator  
UNITED OPERATING COMPANY  
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.

SUBMIT LOGS

DODD-1884 PERMIT NUMBER

47-017

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 [Signature], Pres.

