



SURFACE OWNER:- Ruth H. Starkey, et al
Glenville, W. Va.

Minimum Error of Closure Lin 200

Source of Elevation Elev Viking No. 1 Well = 1027

- 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: [Signature]
Squares: N S E W

Map No. _____

Company UNITED OPERATING CO

Address 600 Commerce Sq. Charleston, W. Va.

Farm W. B. Holbert Ruth H. Starkey

Tract _____ Acres 113.5 Lease No. _____

Well (Farm) No. United No. 1 Serial No. _____

Elevation (Spirit Level) 1042

Quadrangle Tanner 7 1/2, Glenville 15 NC

County Gilmer District DeKalb

Engineer [Signature]

Engineer's Registration No. 1227 LLS 200

File No. _____ Drawing No. _____

Date December 1, 1977 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. GIL-2965

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{62,500}/_{24,000}, latitude and longitude lines being represented by border lines as shown.

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



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Tanner 7 1/2

Permit No. GIL-2965

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>	Size			
Farm <u>W. B. Holbert</u> Acres <u>113.5</u>	20-16			
Location (waters) <u>Big Run</u>	Cond.			
Well No. <u>1-A</u> Elev. <u>1042</u>	13-10" 11-3/4"	31	31	Circ.
District <u>DeKalb</u> County <u>Gilmer</u>	9 5/8			
The surface of tract is owned in fee by <u>Ruth H. Starkey</u>	8 5/8	622	622	Circ.
Address <u>Glenville, WV</u>	7			
Mineral rights are owned by <u>Ruth H. Starkey</u>	5 1/2			
Address <u>Same as above</u>	4 1/2	5,050	5,050	3150 ft. fillup
Drilling Commenced <u>January 15, 1978</u>	3			
Drilling Completed <u>January 25, 1978</u>	2		4,820	
Initial open flow <u>No test</u> cu. ft. <u> </u> bbls.	Liners Used			
Final production <u>500 M.</u> cu. ft. per day <u>-0-</u> bbls.				
Well open <u>5</u> hrs. before test <u>1700</u> RP.				

Well treatment details: Attach copy of cementing record.
Fraced second Benson - 700 bbls. treated water - 18,000 80/100 Sand,
25,000# 20/40 sand. Fraced Benson 715 bbls. treated water - 18,000#
80/100 mesh sand, 69,000# 20/40 mesh sand. Fraced Weir 500 bbls. treated
water, 20,000# 80/100 mesh sand - 27,000# 20/40 mesh sand.

Coal was encountered at no record Feet Inches
 Fresh water Dusted Feet Salt Water Feet
 Producing Sand 2nd Benson - Benson-Weir Depth 4830-80/4578-90/2020-90
New Pay Riley?

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand-Shale	Gr.	Hard	0	630		Hole dusted - no water
Sand	Gr.	Hard	630	696		
Shale	Gr.	Soft	696	724		
Sand	Gr.	Hard	724	674		
Sand-Shale	Gr.	Hard	764	1362		
Sand	Gr.	Hard	1362	1412		
Shale	Gr.	Soft	1412	1462		
Sand	Gr.	Hard	1462	1746		
Lime	Grey	Hard	1746	1800		
Sand	Grey	Hard	1800	1892		
Shale	Grey	Soft	1892	2020		
Weir S.S.	Grey	Hard	2020	2094	Sho Gas	
Shale	Grey	Soft	2094	4564		
Siltstone	Grey	Soft	4564	4594	Sho Gas	
Benson	Grey	Soft	4594	4825		
Shale-Siltstone	Gr.	Soft	4825	4878		
Shale	Grey	Soft	4878	5086	T.D.	

(over)

Electric Log tops in the remarks section.

5086 TD
4825 base Ben
261 expl. ft

MAR 29 1978

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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DEC 9 - 1977

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 8, 1977

Surface Owner Ruth H. Starkey
Address Glenville, WV
Mineral Owner Ruth H. Starkey
Address Glenville, WV
Coal Owner None
Address ---
Coal Operator ---
Address ---

Company United Operating Company
Address 600 Commerce Square, Charleston, WV
Farm W. B. Holbert Acres 113.5
Location (waters) Big Run
Well No. 1-A Elevation 1042
District DeKalb County Gilmer
Quadrangle Tanner 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 4-12-78.

INSPECTOR
TO BE NOTIFIED Paul Goodnight
ADDRESS Smithville, W.Va.
PHONE 477-3660

[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 January 1 1906 by W. B. Holbert made to Consolidated thence United Operating and recorded on the _____ day of _____ 19____, in Gilmer County, Book 58 Page 341

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,
(Sign Name) [Signature]
Well Operator
United Operating Company
600 Commerce Square
Street
Charleston, WV 25301
City or Town
West Virginia
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

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 9, Section 12-5 and will carry out the specified requirements."

Signed by [Signature]

GIL-2965
PERMIT NUMBER
47-021

[Signature]

ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO: DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME Lyle Coffman & J. L. Trittipo
 ADDRESS _____ ADDRESS Norris Road, Glenville, WV
 TELEPHONE _____ TELEPHONE 1-462-7176
 ESTIMATED DEPTH OF COMPLETED WELL: 5,200 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: 2nd Benson
 TYPE OF WELL: OIL _____ GAS 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	13	0	None
9 - 5/8			
8 - 5/8	600	600	600' fillup
7			
5 1/2			
4 1/2	0	5,200'	2,000 fillup
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 230 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