



Fracture Before 6/5/29.....   
 New Location .....   
 Drill Deeper .....   
 Redrill.....   
 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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia. *Paul S. Dean*  
 The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.  
**PROVEN ELEVATION** *See of Road, 1.4 Mi East of Loc. 1168*

Company UNION DRILLING, INC.  
 Address Box 347, Buckhannon, W. Va.  
 Farm ESTHER COLE - LEASE A. Swiger Sur.  
 Tract 1 Acres 145± Lease No. \_\_\_\_\_  
 Well (Farm) No. ONE Serial No. 268-CH  
 Elevation (Spirit Level) 1340  
 Quadrangle PHILIPPI NC  
 County BARBOUR District PLEASANT  
 Engineer PAUL G. DEAN  
 Engineer's Registration No. 1856  
 File No. 136-12-20 Drawing No. 72-2  
 Date JAN. 31, 1972 Scale 1" = 40 P = 660'

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

**WELL LOCATION MAP**  
 FILE NO. Bar. 575

+ 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.  
 - 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 Philippi  
Permit No. BAR-575

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

Company <u>Union Drilling, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Box 347, Buckhannon, W. Va., 26201</u>	Size			
Farm <u>Esther Cole</u> Acres <u>145+</u>	20-16			
Location (waters) <u>Pleasant Creek</u>	Cond.			
Well No. <u>(1) # 268-CH</u> Elev. <u>1340'</u>	13-10"	21'	21'	
District <u>Pleasant</u> County <u>Barbour</u>	9 5/8			
The surface of tract is owned in fee by <u>A. L. Swiger</u>	8 5/8	1109'	1109'	
Address <u>Rt. 3, Philippi, W. Va., 26416</u>	7			
Mineral rights are owned by <u>Clay Stout</u>	5 1/2			
Address <u>Rt. 2, Gra ft</u>	4 1/2	4509'	4509'	
Drilling Commenced <u>March 29, 1972</u>	3			
Drilling Completed <u>April 4, 1972</u>	2			
Initial open flow <u>21</u> cu. ft. _____ bbls.	Liners Used			
Final production <u>1,200,000</u> per day _____ bbls.				
Well open <u>40</u> hrs. before test <u>1725#</u> RP.				

Well treatment details: Attach copy of cementing record.  
4/28/72 - Halliburton Service - 2 Stage Job: Riley & Benson  
(1) Benson - 775 BBL. Waterfrac  
(2) Riley - 670 BBL. Waterfrac  
55,000 Lbs. Sand

Coal was encountered at 560' Feet 60" Inches  
Fresh water Hole Wet @ 79' Feet Salt Water \_\_\_\_\_ Feet  
Producing Sand Riley & Benson Depth 4133' - 4143'  
4410' - 4427'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	28		
Shale			28	76		
Sand			76	108		
Red Rock & Shale			108	153		
Sand & Shale			153	560		
Coal			560	565		
Sand & Shale			565	581		
Sand			581	592		
Sand & Shale			592	1280		
Red Rock & Shale			1280	1338		
Sand			1338	1387		
Red Rock and Shale			1387	1581		
Big Lime			1581	1669		
Red Rock, Sand & Shale			1669	1689		
Injun Sand			1689	1750		
Sand & Shale			1750	2008		
5th Sand			2008	2050		
Sand & Shale			2050	2375		
Red Rock, Sand & Shale			2375	2858		
Sand & Shale			2858	4133		
<u>Riley Sand</u>			<u>4133</u>	<u>4143</u>		
Sand & Shale			<u>4143</u>	<u>4410</u>		
<u>Benson Sand</u>			<u>4410</u>	<u>4427</u>		
Sand & Shale			<u>4427</u>	<u>4510</u>	TOTAL DEPTH	

\* Indicates Electric Log tops in the remarks section.

MAY 22 1972



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 15, 1972

Surface Owner A. L. Swiger  
Address Rt. #3, Philippi, W. Va., 26416  
(1) Mineral Owner Clay Stout (1/2 Int.)  
Address Rt. 2, Grafton, W. Va., 26354  
Coal Owner Simpson Creek Colliers  
Address 120 Wall St., New York 5, New York  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company Union Drilling, Inc.  
Address Box 347, Buckhannon, W. Va., 26201  
Farm Esther Cole A. L. Swiger, Jr. Acres 145+  
Location (waters) Pleasant Creek  
Well No. (1) # 268-CH Elevation 1340'  
District Pleasant County Barbour  
Quadrangle Philippi

- (2) Mineral Owner: Clementa Rose Proudfoot, Agent (1/4 Int.)  
118 Mason St., Philippi, W. Va., 26416
- (3) " " Elizabeth Bush Cole (1/4 Int.)  
4009 State Road, Dersel Hill, Pa., 19026

INSPECTOR TO BE NOTIFIED Mr Paul J. Thomas  
Box 12  
Buckhannon, PH: 472-6418  
W. Va. 26201

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 July 17, 1972

GENTLEMEN: Lease # A-7940

The undersigned well operator is entitled to drill upon the above named land for oil and gas, having fee  
title thereto, (or as the case may be) under grant or lease dated April 10, 1962 by Esther Cole, et. al.  
to: C & A Gas Co. & Assigned to Union Drilling, Inc. and recorded on the 11th day of April  
1962, in Barbour County, Book 46 Page 56

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 this day \_\_\_\_\_ before, or on the  
same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, UNION DRILLING, INC.  
(Sign Name) [Signature]  
Well Operator

Address of Well Operator P. O. BOX 347  
BUCKHANNON  
WEST VIRGINIA 26201  
Street City or Town 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.

Per - 575 PERMIT NUMBER  
[Signature]

THIS IS AN ESTIMATE ONLY  
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 John M. Williams  
 ADDRESS \_\_\_\_\_ ADDRESS Box 347, Buckhannon, W. Va., 26201  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304) 472-4610  
 ESTIMATED DEPTH OF COMPLETED WELL: 4400' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: 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 <u>13"</u>	<u>20'</u>	<u>20'</u>	<u>8</u>
9 - 5/8			
8 - 5/8 <u>8 5/8"</u>	<u>950'</u>	<u>950'</u>	<u>170</u>
7			
5 1/2			
4 1/2 <u>4 1/2"</u>	<u>4400'</u>	<u>4400'</u>	<u>175</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS ? FEET SALT WATER ? FEET  
 APPROXIMATE COAL DEPTHS Starting on Strip  
 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