



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

Source of Elevation Rd. Fk. 57 & 32 Elev. 1207'
 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.
 Minimum accuracy, one part in 200

Company <u>Berry Energy Consultants and Managers Inc.</u>	
Professional Bldg. Suite 309	
Address <u>Clarksburg, W.Va. 26301</u>	
Farm <u>Bly Haller</u>	
Tract _____	Acres <u>12 1/2</u> Lease No. <u>70978</u>
Well (Farm) No. <u>1</u>	Serial No. <u>B-14</u>
Elevation (Spirit Level) <u>1496'</u>	
Quadrangle <u>Philippi NE 43 C</u>	
County <u>Barbour</u>	District <u>Philippi</u>
Engineer <u>Daniel L. Wheeler</u>	
Engineer's Registration No. <u>L.L.S. No. 530</u>	
File No. <u>F.O.-3</u>	Drawing No. <u>A-104</u>
Date <u>11-3-75</u>	Scale <u>1" = 500'</u>

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

WELL LOCATION MAP
 FILE NO. BAR-746

+ 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.

47-001



OIL AND GAS DIVISION
DEPARTMENT OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 10

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

Quadrangle Philippi

Permit No. BAR 746

BERRY ENERGY CONSULTANTS & MANAGERS, INC.

Company ~~Consolidated Gas Supply Corporation~~
Address Clarksburg, West Virginia
Farm Haller Acres 12.50
Location (waters) Tributary Elk Creek
Well No. B-14 Elev. 1496
District Philippi County Barbour
The surface of tract is owned in fee by Roy Nutter

Address Route 1, Philippi, W. Va.
Mineral rights are owned by Ely Haller
Address Philippi, W. Va.

Drilling Commenced 2-17-76
Drilling Completed 2-23-76
Initial open flow 80,000 cu. ft. _____ bbls.
Final production 1100,000 cu. ft. per day _____ bbls.
Well open 3 hrs. before test 1390 RP.

Well treatment details: 48 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. XX-1XX 11 3/4	25'		5 sks
9 5/8			
8 5/8	865'		230 sks
7			
5 1/2			
4 1/2	4216		175 sks
3			
2			
Liners Used			

Attach copy of cementing record.

Benson - Waterfrac	1065 bbl	- 6,000	80/100	60,000	20/40
Riley 3rd Waterfrac	780 bbl	6,000	80/100	50,000	20/40
Riley 2nd Waterfrac	800 bbl	6,000	80/100	46,000	20/40

1,100 MCF

Coal was encountered at 290-292; 337-340; 423 feet 425'; 441-445 Inches
Fresh water 400 Feet Salt Water 1875 Feet
Producing Sand Benson, 1st Riley, 2nd Riley Depth 4090-4098; 3837-54; 3770-88
B R R

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale			0	65		
Sand White			65	290		100' 1/2" water
Coal			290	292		
Sand and Shale			292	337		
Coal			337	340		
Sand and Shale			340	360		
S and			360	423		
Coal			423	425		815 more water 1 1/2" Stream
Sand and Shale			425	441		
Coal			441	445		
Sand White			445	695		
Sand and Shale			695	750		
Sand and White			750	870		oil @ 770
Sand and Shale Red Rock			870	960		
Sand			960	1100		
Sand and Shale			1100	1225		
Lime and Injun			1225	1435		oil show @ 1235
Sand and Shale			1435	1465		
Sand			1465	1540		
Sand and Shale			1540	1600		wet 1540 1 1/2" Stream water
Sand			1600	1685		put soap on hole
Sand and Shale			1685	1835		
Sand Red Rock			1835	1845		Gas 2685 10/10 1/2" FMW

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet (0	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale			1845	1875		
Red Rock			1875	1890		
Sand and Shale			1890	1920		
Sand			1920	1950		
Sand and Shale			1950	3775		
Sand Brown			3775	3790	Gas @ 3806	4/10 2" of water
Sand and Shale			3790	4085		
Benson			4085	4145	Gas @ 4178	20/10 30/10 2" of water
Sand and Shale			4145	4237	Gas @ 4237	20/10 30/10 2" of water
						* Benson 4090-48 Riley 3837-54 Riley 3770-88

Date April 9, 1926

APPROVED W.D. J. Jones, Owner

By President
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

NOV 17 1975

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 5, 1975

Surface Owner Roy Nutter

Company Berry Energy Consultants & Mgrs., Inc.

Address Route 1, Philippi, W. Va.

Address 308-309 Professional Bldg., Clarksburg, WV

Mineral Owner Ely Haller

Farm Haller Acres 12.50

Address Philippi, W. Va.

Location (waters) Tributary Elk Creek

Coal Owner Same

Well No. B-14 Elevation 1496

Address _____

District Philippi County Barbour

Coal Operator None

Quadrangle Philippi

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 4-3-76

Paul Thomas
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Thomas
PH: 496-7739 ADDRESS Augusta, W.Va. 26704

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 8/20 19 68 by Ely Haller, et al made to Consolidated Gas Supply and recorded on the 6th day of _____ 1968, in Barbour County, Book 64 Page 150

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.

Very truly yours,

(Sign Name) W. P. Berry President
Berry Energy Consultants & Mgrs., Inc.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Address
of
Well Operator

308-309 Professional Bldg.
Street
Clarksburg,
City or Town
West Virginia 26301
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.

BOND DRILL

BAR-746

PERMIT NUMBER

47-001

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 AGENCY
 NAME S. W. Jack Drilling Company NAME Jim Willett
 ADDRESS Indiana, Penna. ADDRESS Buckhannon, W. Va.
 TELEPHONE 412 463-9191 TELEPHONE 472-5468
 ESTIMATED DEPTH OF COMPLETED WELL: 4250 ROTARY TOOLS
 PROPOSED GEOLOGICAL FORMATION: Benson
 TYPE OF WELL: OIL GAS COMB. DISPOSAL
 RECYCLING WATER OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	DEPTH	TO
20 - 16			
13 - 10 <u>11"</u>	<u>25</u>	<u>25</u>	To surface
9 - 5/8			
8 - 5/8	<u>1900</u>	<u>1900</u>	To surface
7			
5 1/2			
4 1/2	<u>4230</u>	<u>4230</u>	To 3600
3			
2			
Liners			

APPROXIMATE FRESH WATER DEPTHS 400 FEET SALT WATER 1875 FEET
 APPROXIMATE COAL DEPTHS None expected
 IS COAL BEING MINED IN THE AREA? None 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 ORIGINAL 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 WELLS ORIGINALLY DRILLED BEFORE JUNE 5, 1929, SHALL SUBMIT ORIGINAL PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELLS ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, SHALL SUBMIT ORIGINAL PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

Required forms must be filed within ninety (90) days of completion for bond release. Release must be received within twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be used for a period of 90 days or more without receipt thereof.

WAIVER: I, the undersigned, Agent for _____ Coal Company, Owner of _____, under the lease have examined and place on our mine maps this proposed well location. We the _____ Coal Company have no objections to the proposed well location, provided the mining operator has complied with all rules and regulations in Articles _____ of the _____ of _____.