



BERRY ENERGY CONSULTANTS & MANAGERS INC.
 Company
 Address PROFESSIONAL BLDG. SUITE 309
CLARSBURG, W. VA. 26301

Farm CARL KINES

Tract _____ Acres 90.3 Lease No. 63045

Well (Farm) No. 1 Serial No. B-2

Elevation (Spirit Level) 1303'

Quadrangle PHILIPPI N.E. 3° C

County BARBOUR District PHILIPPI

Engineer Daniel L. Wheeler

Engineer's Registration No. 530 L.L.S.

File No. F.O. 1 Drawing No. _____

Date 10-16-75 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. BAR-741

+ 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Philippi

Permit No. BAR 741

BERRY ENERGY CONSULTANTS & MANAGERS, INC.

Company ~~Consolidated Gas Supply Corp~~
 Address Clarksburg, W. Va.
 Farm Kines (Carl) Acres 90.3
 Location (waters) Elk Creek
 Well No. B-2 Elev. 1303
 District Elk County Barbour
 The surface of tract is owned in fee by M. Kines
Carl Kines and Lucille Kines
 Address Carl Kines
 Mineral rights are owned by Carl Kines
RD 1 Address Philippi, W. Va.
 Drilling Commenced 1/6/76
 Drilling Completed 1/11/76
 Initial open flow 269,000 cu. ft. - bbls.
 Final production 956,000 cu. ft. per day - bbls.
 Well open 5 days hrs. before test * RP.
 Well treatment details: 1740 Benson

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. <u>1 1/2" 11 3/4</u>	20	20'	to surface
9 5/8			
8 5/8	1487	1487	to surface
7			
5 1/2			
4 1/2	4039	4039	170 sacks
3			
2			
Liners Used			

Attach copy of cementing record.

Waterfrac Benson: 1st Stage and 2nd Stage:

Loss of Baffle caused double frac of Benson

2000 bbl; 108,000 20/40

Waterfrac Riley: 768, bbl; 41,000# 20/40

956 MCF

Coal was encountered at 120-125; 180-184 Feet _____ Inches _____
 Fresh water 75, 510, 925 Feet _____ Salt Water 1405 Feet _____
 Producing Sand Benson, Riley Depth 3595-3598; 3647-3654; 3658-3664;
3896-3903B

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
KBGL			0	11		
Top Soil			11	15		
Sand			15	35		
Shale			35	50		
Sand			50	100	H ² O	
Shady Shale			100	120		
Coal			120	125		
Shady Shale			125	180		
Coal			180	184		
Shale			184	195		
Sand			195	300		
Sdy Shale			300	315		
Sand			315	350		
Sdy Shale			350	370		
Sand			370	445		
Sdy Sh			445	595		Increase in water (510)
Sand			595	715		
Sd and Sh			715	850		
Sand			850	980		
Sdy Sh			880	1070		Increase in water (975)
Sdy Lime			1070	1085		
Big Lime			1085	1180		
Sand			1180	1290		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sdy Sh			1290	1315		
Sand			1315	1345		
Sdy Sh			1345	1395		
Sand white soft			1395	1440		
Sdy Sh dark hard			1440	1490		
Sand hard			1490	1540		
Sh			1540	1640		
Sd and Sdy Sh			1640	1920		
Sand			1920	1945		
Sdy Sh			1945	2070		
Shale and Red Rock			2070	2685		
Sand			2685	2700		
Sdy Sh			2700	3000		Gas Test 2855 14/10 1" W FM
Sandy			3000	3235		
Sdy Sh			3235	3640		
Sand Brown			3640	3895		
Shale			3650	3895		
Sand Brown			3895	3915		
Sh			3915	4065		Gas Test 38/10 W 2" OF 260, MCF
						* Benson 3887-3898
						* Riley 3692-3850

Date April 5, 19 76

APPROVED W.B. Berry *W.B. Berry*, Owner

By President
(Title)



RECEIVED
NOV 17 1975

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 3, 1975

Surface Owner Carl Kines
Address RD 1, Philippi, W. Va.
Mineral Owner Carl Kines
Address RD 1, Philippi, W. Va.
Coal Owner SAME
Address _____
Coal Operator NA
Address _____

Company Berry Energy Consultants & Mgrs., Inc.
Address 308 Professional Bldg., Clarksburg, W. Va.
Farm Carl Kines Acres 90.3
Location (waters) Elk Creek
Well No. S-B-2 Elevation 1303'
District Philippi County Barbour
Quadrangle Philippi

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 3-20-75.

Robert H. Hill
Deputy Director - Oil & Gas Division

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

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 September 15, 1970 by M. Kine;
Carl & Lucine Kine made to Consolidated Gas Supply Corp and recorded on the 17th day of October
1976 in Barbour County, Book 68 Page 283

NEW WELL DRILL DEEPER REBRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929.

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. B. Berry
Berry Energy Consultants & Mgrs., Inc.
308 Professional Building
Address _____ Street _____
of _____
Well Operator Clarksburg, City or Town _____
West Virginia State _____

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

*SECTION 3. If no objections are filed or found by the Department of mines, within said period of ten (10) 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-741 PERMIT NUMBER
47-001

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 S. W. Jack Drilling Company NAME Jim Willitt

ADDRESS Indiana, Penna. ADDRESS Buckhannon, W. Va.

TELEPHONE 412/ 463-9191 TELEPHONE 472-5468

ESTIMATED DEPTH OF COMPLETED WELL: 4150 ROTARY X CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: Benson

TYPE OF WELL: OIL GAS X COMB. STORAGE DISPOSAL

RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	FEET IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16	25	25	To surface
13 - 10			
9 - 5/8			
8 - 5/8	1440	1440	To surface
7			
5 1/2			
4 1/2	4135	4135	3500
3			Perf. Top
2			Perf. Bottom
1 1/2			Perf. Top
1			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 75 FEET SALT WATER 1405 FEET

APPROXIMATE COAL DEPTHS 450-630

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 23 of the West Virginia Code.

Per Coal Company

Operator Date