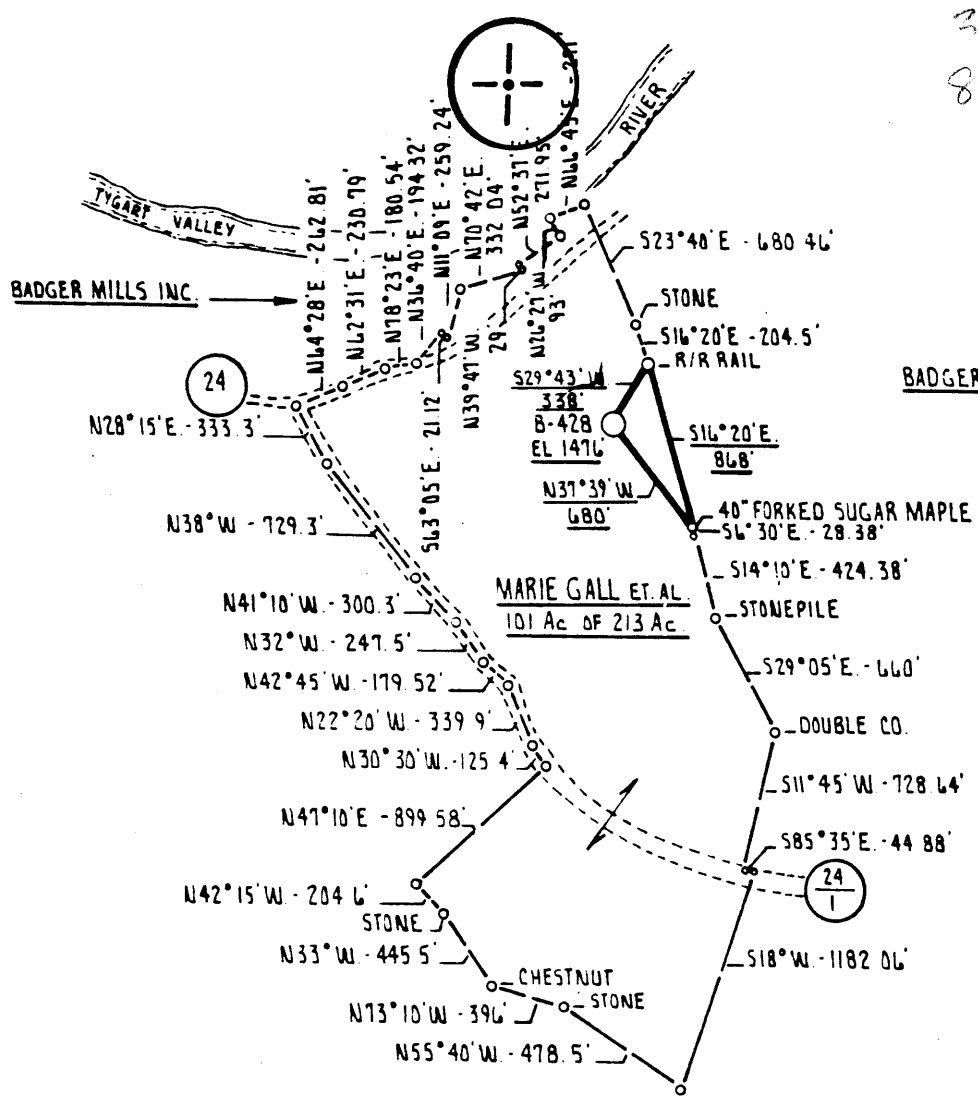


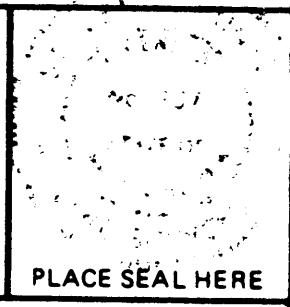
390925  
800700

NORTH



FILE NO. DE 4-12 RH  
 DRAWING NO. VAR. 4-00  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION ROAD JUNCTION 1400' WEST OF LOCATION  
 ELEV. 1307'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Steven K. Hunt  
 R.P.E. \_\_\_\_\_ L.L.S. 707



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE APRIL 30<sup>th</sup> 19 81  
 OPERATOR'S WELL NO. B-428  
 API WELL NO. \_\_\_\_\_  
47 - 001 - 1619  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1476' WATER SHED TYGART VALLEY RIVER  
 DISTRICT PHILIPPI COUNTY BARBOUR  
 QUADRANGLE PHILIPPI 7.5' x 15' EC  
 SURFACE OWNER ARMINTHA MATEL ACREAGE 28 Ac.  
 OIL & GAS ROYALTY OWNER MARIE GALL, ET AL. LEASE ACREAGE 101 Ac. Of 213 Ac.  
 LEASE NO. 2127  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500' 6-4 PHILIPPI  
 WELL OPERATOR J. and J. ENTERPRISES, INC. DESIGNATED AGENT BERRY ENERGY CONSULTANTS and MANAGERS, INC. 309  
 ADDRESS BERRY ENERGY CONSULTANTS and MANAGERS, INC. ADDRESS SUITE 309 PROFESSIONAL BUILDING SEP 26 1981  
SUITE 309 PROFESSIONAL BLDG. : CLARKSBURG, W.Va. 26301 CLARKSBURG, WEST VIRGINIA 26301

RECEIVED

DEC 22 1981



OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines  
Oil and Gas Division

Date November 17, 1981  
Operator's \_\_\_\_\_  
Well No. B-428  
Farm Marie Gall et al  
API No. 47-001-1619

-81)

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 1476' Watershed Tygart Valley River  
District: Philippi County Barbour Quadrangle Philippi 7.5

COMPANY J & J Enterprise %  
Berry Energy Consultants & Mgrs.  
ADDRESS P.O. Box  
Clarksburg, W. Va. 26301  
DESIGNATED AGENT Same  
ADDRESS \_\_\_\_\_  
SURFACE OWNER Armentha Mayle  
ADDRESS Rt. 1, Moatsville, W.Va.  
MINERAL RIGHTS OWNER Marie Gall et al  
ADDRESS Rt. 2, Philippi, W.Va.  
OIL AND GAS INSPECTOR FOR THIS WORK Robert  
Stewart P.O. Box 345  
ADDRESS Jane Lew, WVa. 26378  
PERMIT ISSUED September 4, 1981  
DRILLING COMMENCED 11-4-81  
DRILLING COMPLETED 11-16-81  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size <u>11-3/4</u> <u>20-16</u> Cond.	30'	30'	
13-10"			
9 5/8			
8 5/8	710	710'	To Surface
7			
5 1/2			
4 1/2	4895'	4895'	470 Sks 50/50 POZ
3			10 Sks Gel/ 8 Centerlizer
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty & Benson Depth 5400' feet  
Depth of completed well 4895 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 140 feet; Salt 1000 feet  
Coal seam depths: 95-100 & 135-140' Is coal being mined in the area? No.

OPEN FLOW DATA  
Producing formation 1st Stage Fourth Elk  
2nd Stage Third Elk Pay zone depth 4552-4833 feet  
Gas: Initial open flow None Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 2,316,000 Mcf/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 1800# psig (surface measurement) after 168 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

JAN 18 1982

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Water Fraced: December 7, 1981

1st Stage Fourth Elk: 10,000, 80/100, 60,000, 20/40 - 686 Bbls. water

2nd. Stage 3rd Elk: 10,000, 80/100, 70,000, 20/40 - 762 Bbls. Water

Perforations: 4th Elk: 4808-4833 - 13 holes

3rd Elk: 4552-4561 - 14 holes

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay & Fill			0	10	
Sand & Shale			10	50	
Sand			50	95	
Coal			95	100	Coal
Sand			100	135	
Coal			135	140	Coal
Sand			140	405	Water @ 140' - 1" Stream
Sandyshale & Red Rock			405	470	
Sand			470	685	
Sandyshale & Red Rock			685	1000	Water @ 1000' - 1/2" Stream
Big Lime & Injun			1000	1205	
Sandyshale			1205	2350	Water @ 1230' - 2 1/2-3" Stream
Sand & Shale			2350	4800	
4th Elk			4800	4860	
Shale			4860	5066	No gas test could be run because of water.

(Attach separate sheets as necessary)

J & J Enterprise %

Berry Energy Consultants & Mgrs.

Well Operator

By: W B Berry

Date: 12-17-81

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

AUG - 4 1981

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 May 6, 1981

Surface Owner Armentha Mayle

Company J & J Enterprises, Inc.

Address RT #. Moatsville, WV

Company c/o Berry Energy Consultants, Inc.

Mineral Owner Marie Gall et al

Address P. O. Box 5, Clarksburg, WV 26301

Address Rt. #2

Farm Marie Gall et al Acres 28

Coal Owner Marie Gall & Badger Coal Co.

Location (waters) Tygart Valley River

Address Rt. #2, Philippi, WV

Well No. B-428 Elevation 1476'

Coal Operator Badger Coal Company

District Philippi County Barbour

Address Philippi, WV

Quadrangle Philippi 7.5'

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 5-4-82

INSPECTOR TO BE NOTIFIED Robert Stewart

*Robert Stewart*  
Deputy Director - Oil & Gas Division

ADDRESS P.O. Box 345, Jane Lew, WV 26378

PHONE 884-7782

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 November 7 19 79 by Marie & Brooks Gall, et al made to W. B. Berry and recorded on the 21 day of Nov. 19 79, in Barbour County, Book 82 Page 396

XXX 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 Same 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:

Very truly yours, J & J Enterprises, Inc.  
C/O Berry Energy Consultants, Inc.  
(Sign Name) *W.B. Berry*  
Well Operator

OFFICE OF OIL AND GAS  
1615 Washington Street, East  
Charleston, West Virginia  
Area Code 304 -348-3092 348-3096

Address of Well Operator 308-309 Professional Building  
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.

NET BOND

47-001-1619

PERMIT NUMBER

"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 \_\_\_\_\_

**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)  S. W. Jack Drilling Company  RESPONSIBLE AGENT:  W. B. Berry   
 NAME  S. W. Jack Drilling Company  NAME  W. B. Berry   
 ADDRESS  P. O. Box 48, Buckhannon, WV 26201  ADDRESS  P. O. Box 5, Clarksburg, WV 26301   
 TELEPHONE  472-9403  TELEPHONE  622-3450   
 ESTIMATED DEPTH OF COMPLETED WELL:  5400'  ROTARY  X  CABLE TOOLS    
 PROPOSED GEOLOGICAL FORMATION:  Haverty - Benson   
 TYPE OF WELL: OIL   GAS  X  COMB.   STORAGE   DISPOSAL    
 RECYCLING   WATER FLOOD   OTHER

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WFLI.	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
<del>XXXX</del> 11-3/4"	30'	30'	To Surface
9 - 5/8			
8 - 5/8	1400'	1400'	To Surface
7			
5 1/2			
1/2	5400'	5400'	400 Sacks
			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS  136' - 1400 FEET  SALT WATER  Unknown FEET

APPROXIMATE COAL DEPTHS  125', 175', 250'

IS COAL BEING MINED IN THE AREA?  ~~Yes~~ NO  BY WHOM?  Badger Coal Company

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