



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot elevation 3500' NW of location; elev. 1250

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) James H. Richardson
 R. P. E. _____ L. L. S. 669

PLACE SEAL HERE

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



DATE February 2, 1984
 OPERATOR'S WELL NO. B-560
 API WELL NO. 47-033-3027
 STATE COUNTY PERMIT

Department of Mines
 Oil & Gas Division

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1245 WATER SHED Tributary of Shinn's Run
 DISTRICT Clay 2 COUNTY Harrison
 QUADRANGLE Clarksburg-7 1/2 15' EC 6
 SURFACE OWNER James H. & Helen V. Richardson ACREAGE 23.135
 OIL & GAS ROYALTY OWNER Mary Phares, et al LEASE ACREAGE 23.78
 LEASE NO. 2444

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 Balltown ESTIMATED DEPTH 3600
 WELL OPERATOR Berry Energy Consultants & Mgs, Inc DESIGNATED AGENT Berry Energy Consultants & Mgs, Inc
 ADDRESS P.O. Box 5 ADDRESS P.O. Box 5
Clarksburg, WV 26301 Clarksburg, WV 26301

RECEIVED



IV-35 (Rev 8-81)

JUL 17 1984

Date May 31, 1984
Operator's Well No. B-560
Farm Mary Phares, et al
API No. 47 - 033 30-7 1984

State of West Virginia
OIL & GAS DIVISION
DEPT. OF MINES
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1245' Watershed Tributary of Shinns Run
District: Clay County Harriosn Quadrangle Clarksburg 7 1/2 min.

COMPANY Berry Energy Consultants & Mgrs.
ADDRESS P.O. Box 5, Clarksburg, WVa. 26301
DESIGNATED AGENT W.B. BERRY
ADDRESS SAME
SURFACE OWNER James H & Helen V. Richardson
ADDRESS Rt. 2, Box 97, Bridgeport, W. Va. 26330
MINERAL RIGHTS OWNER Mary Phares, et al
ADDRESS 401 Lee St., Fairmont, W. Va. 26554
OIL AND GAS INSPECTOR FOR THIS WORK Stephen
Casey Rt. 2, Box 232-D ADDRESS Jane Lew, 26378
PERMIT ISSUED April 26, 1984
DRILLING COMMENCED 5-14-84
DRILLING COMPLETED 5-19-84

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 11-3/4, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Speechly & Fifth Depth 3600' feet
Depth of completed well 3635' feet Rotary X / Cable Tools
Water strata depth: Fresh 150' feet; Salt None feet
Coal seam depths: 600' & 100' Is coal being mined in the area? No

OPEN FLOW DATA Lower Speechly 3429-3433
Upper Speechly 3330-3334
Producing formation Fifth Sand Pay zone depth 2734-2753 feet
Gas: Initial open flow 18,827 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow ESTIMATED 600,000 Mcf/d Final open flow ESTIMATED 10 per day Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)

(Continue on reverse side)

FOAM FRACED: JUNE 5, 1984

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

1st Stage; Lower Speechly; 60,000#, 20/40, 256 Bbls. H₂O, 1024 Bbls. Foam, 52,300 SCF N₂

2nd Stage: Upper Speechly; 31,000#, 20/40, 201 Bbls. H₂O, 804 Bbls. Foam, 608,025 SCF N₂

3rd Stage: Fifth Sand: 52,300#, 20/40, 289 Bbls. H₂O, 1156 Bbls. Foam, 549,600 SCF N₂

PERFORATIONS: Lower Speechly; 3429-3433

Upper Speechly; 3330-3334

Fifth Sand; 2734-2753

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free gas and salt water, coal, oil and gas
Fill	Brown	Soft	0	5	
Shale	Gray	Soft	5	73	
Sand & Shale	Gray	Med.	73	76	
Sand	White	Hard	76	106	
Sand & Shale	Gray	Med.	106	119	
Sand	Brown	Med.	119	142	
Sand & Shale	Gray	Med.	142	275	
Coal	Black	Soft	275	280	Coal
Sand & Shale	Gray	Med.	280	731	Hole Damp @ 737'
Coal	Black	Soft	731	737	Coal
Sand & Shale	Gray	Med.	737	790	
White Sand	White	Hard	790	848	
Sand & Shale	Gray	Med.	848	950	
Sand	White	Hard	950	1028	
Sand & Shale	Gray & White	Hard	1028	1072	
Red Rock	Red	Soft	1072	1349	
Sand & Shale	Gray	Med.	1349	1430	
Sand	Gray	Hard	1430	1668	
BIG LIME	Gray	Hard	1668	1767	
Sand & Shale	Gray	Med.	1767	1771	
BIG INJUN	Tan	Hard	1771	1832	
Sand	Gray	Med.	1832	1856	
POCONO	Tan	Med.	1856	1884	
Sand & Shale	Gray	Hard	1884	2208	Gas Ck @ 1965' - No Show
FIFTY FOOT	Tan	Med.	2208	2260	
Sand	Gray	Soft	2260	2286	
THIRTY FOOT	Tan	Med.	2286	2308	
Sand & Shale	Gray	Hard	2308	2598	Gas Ck @ 2365 - No Show
FOURTH	Tan	Med.	2598	2646	
Sand	Gray	Med.	2646	2739	
FIFTH	Tan	Med.	2739	2762	
Sand & Shale	Gray & Tan	Hard	2762	3320	Gas Ck @ 3294', 2/10 - 1/2" w/water
UPPER SPEECHLY	Tan	Med.	3320	3360	
Sand & Shale	Gray & Tan	Hard	3360	3437	
LOWER SPEECHLY	Tan	Med.	3437	3454	
Sand & Shale	Gray & Tan	Soft	3454	3636 TD	Gas Ck @ TD, 10/10 - 1/2" w/water

(Attach separate sheets as necessary)

Berry Energy Consultants & Mems.

Well Operator

By: W.D. Berry, Pres

Date: 7-16-84

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."



1) Date: March 5, 19 84
 2) Operator's Well No. B-560
 3) API Well No. 47 - 033 - 3027
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 1245 Watershed: Tributary of Shinns Run
 District: Clay County: Harrison Quadrangle: Clarksburg 7 1/2
- 6) WELL OPERATOR Berry Energy Consultants & Mgr's 7) DESIGNATED AGENT W. B. Berry
 Address P. O. Box 5 Address P. O. Box 5
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Stephen Casey
 Address Rt. 2, Box 232-D
Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR: Name
 Address
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, SPEECHLY - FIFTH
 12) Estimated depth of completed well, 3500 feet
 13) Approximate trata depths: Fresh, 150 feet; salt, NONE feet.
 14) Approximate coal seam depths: 600'; 100' Is coal being mined in the area? Yes
- 15) CASING AND TUBING PROGRAM

RECEIVED
 APR 9 - 1984
 OIL & GAS DIVISION
 DEPT. OF MINE

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4	API	42#	X		30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	API	24#	X		1280'	1280	TO SURFACE	NEAT
Production	4 1/2	API	10#	X		3300'	3300	250 SKS.	Depths set
Tubing									OR AS REQ. BY RULE 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-3027 Date April 26, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires April 26, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u> </u>	Agent: <u>✓</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>7568</u>
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[Signature]
 Administrator, Office of Oil and Gas