

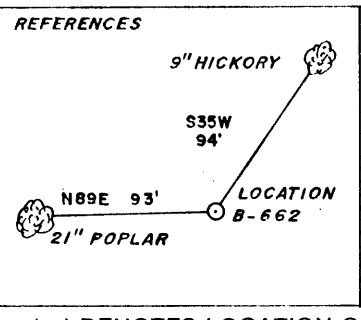
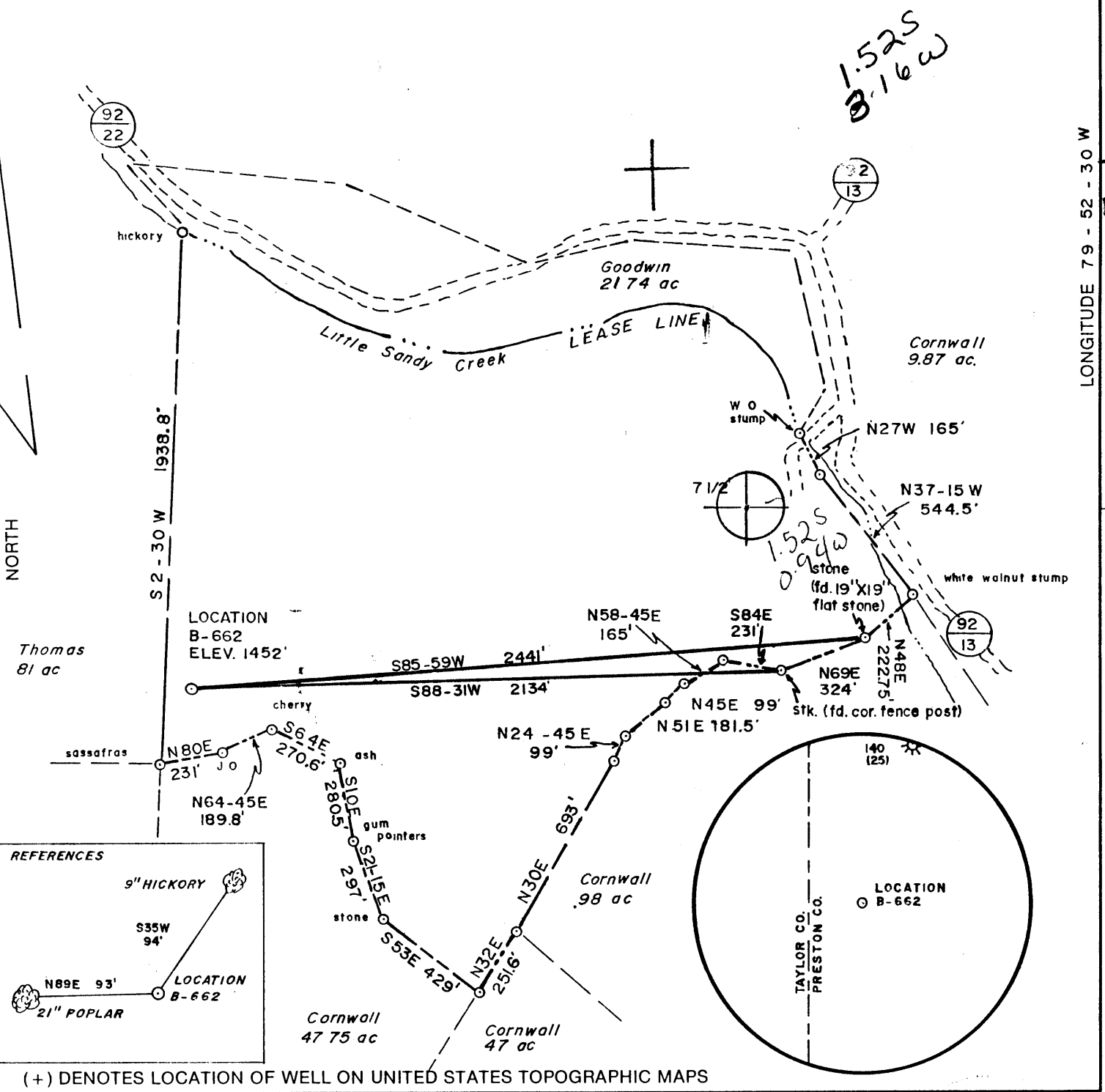
9812/16/87

LATITUDE 39 - 20 - 00 N

5050'

LONGITUDE 79 - 52 - 30 W

NORTH



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION USGS "THOMAS" MON. 1750' NW OF LOC. ELEV. 1768'

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 ENERGY.  
 (SIGNED) David J. Jackson  
 R.P.E. \_\_\_\_\_ L.L.S. 708

PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE November 11, 19 87  
 OPERATOR'S WELL NO. B-662  
 API WELL NO. 47-077-0245  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1452' WATER SHED Little Sandy Creek  
 DISTRICT Reno 6 COUNTY Preston  
 QUADRANGLE Thornton 7 1/2' 638 122 SC  
 SURFACE OWNER Mike A. Soubelet and Louise V. Harris ACREAGE 93.75  
 OIL & GAS ROYALTY OWNER Mike A. Soubelet & Louise V. Harris LEASE ACREAGE 93.75  
 LEASE NO. 2638  
 PROPOSED WORK: DRILL X 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 Haverty ESTIMATED DEPTH 5600  
 WELL OPERATOR Berry Energy Consultants & Mgrs., Inc. DESIGNATED AGENT David Berry  
 ADDRESS P.O. Box 5, Clarksburg, WV 26301 ADDRESS P.O. Box 5, Clarksburg, WV 26301

DEC 28 1987

FORM WW-6

COUNTY NAME PERMIT

3-3 unnamed (0)

DPD- Benson, Elk Brallier

offset Pres 140,192

83



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

1. 4th Elk 5209-5227(24); 3500 gal. acid; 165 Bbls of Foam
2. 3rd Elk 4942-4952(12); 500 gal. acid; 23,000 lb 20/40 Sand
3. Benson/Riley 3952-4292(22); 1000 gal. acid; 50,000 lb. 20/40 Sand
4. Balltown 3048-3054(16); 500 gal. acid; 60,000 lb. 20/40 Sand
5. Bayard 2384-2459(12); 500 gal. acid; 25,000 lb. 20/40 Sand
6. Fourth Sand 2186-2192(16); 500 gal. acid; 60,000 lb. 20/40 Sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	368	1/2" Stream Fresh Water
Coal			368	371	— Coal
Sand & Shale			371	748	
Coal			748	753	— Coal
Sand & Shales			753	1210	
Big Lime			1210	1400	
Sand			1400	1520	
Shales			1520	1630	
Sands			1630	1750	
Sands & Shales			1750	2175	
Sand			2175	2200	
Shales			2200	2360	
Sands			2360	2450	
Shales			2450	2950	
Sands			2950	3050	
Shales			3050	3850	
Sands & Shales			3850	4320	
Shales			4320	4660	
Siltstones & Shales			4660	5250	
Shales			5250	5500	
Siltstones			5500	5550	
Shales			5550	T.D.	Gas check T.D. - Odor
T.D. <i>Brallen @ TD</i>			<u>5702</u>		

**RECEIVED**  
MAY 27 1988  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

5702  
4292  
1410 - exp

(Attach separate sheets as necessary)

Berry Energy Consultants & Mgrs.  
Well Operator  
By: *David B. Berry*  
Date: 3-10-88

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."

(Obverse)  
7/85

**RECEIVED**  
DEC 7 1987



1) Date: November 23, 19 87  
2) Operator's Well No. B-662  
3) API Well No. 47 State 077 County 0245 Permit

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

- 4) WELL TYPE: A Oil  / Gas  / B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )
- 5) LOCATION: Elevation: 1452' Watershed: Little Sandy Creek  
District: Reno 6 County: Preston 077 Quadrangle: Thornton 7 1/2' 6.
- 6) WELL OPERATOR Berry Energy Consultants CODE: 4800 7) DESIGNATED AGENT David 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 Donald Ellis 9) DRILLING CONTRACTOR:  
Address 2504 Crab Apple Lane Address \_\_\_\_\_  
Fairmont, WV 26554
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Haverty 407
- 12) Estimated depth of completed well, 5700
- 13) Approximate trata depths: Fresh, 70, 375, 402, 530 feet, salt,  NONE 1447 feet.
- 14) Approximate coal seam depths: 170', 412', 415' Is coal being mined in the area? Yes  / No
- 15) CASING AND TUBING PROGRAM FROM Preston 140, 192'

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		32'	32'	CLS	Kinds
Fresh water									
Coal									
Intermediate	8 5/8	API	24#	X		900'	900'	CLS TO SURFACE	Sizes 30CSR10-11.3
Production	4 1/2	API	10#	X		5650'	5650'	300 SKS	30CSR10-11.2
Tubing									Depths set 30CSR10-11.1
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-077-0245 Date December 23, 19 87

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.)

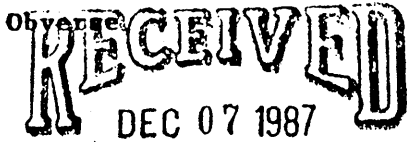
The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires December 23, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond	Agent:	Plat:	Casing	Fee	WFOC	SAE	Other
				234 0788			

NOTE: Keep one copy of this permit posted at the drilling location. Director, Division of Oil and Gas File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



1) Date: November 23, 1987  
Operator's  
2) Well No. B-662  
3) API Well No. 47 - 077 - 024  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL & GAS  
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED  
(i) Name Mike A. Soubelet et ux  
Address 7312 Robert Lane  
Falls Church, VA 22042  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5 (i) COAL OPERATOR NON-OPERATED  
Address \_\_\_\_\_  
5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Preston County Land Co.  
Address P. O. Box 1871  
Roanoke, VA 24008  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form WW-2(B) which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form WW-6, and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION WW-2(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, with respect to a well at the location described on attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director of the Division of Oil and Gas.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included in the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22B-1-8(c)(1) through (4). (see reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes (No)

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form WW-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

David B. Berry  
this 23rd day of November, 1987,  
My commission expires 4/22, 1991.

Mary Ann Cowger  
Notary Public, Harrison County,

WELL OPERATOR Berry Energy Consultnats & Mgr's

By David B. Berry  
Its Vice President  
Address P. O. Box 5  
Clarksburg, WV 26301  
Telephone 622-3450