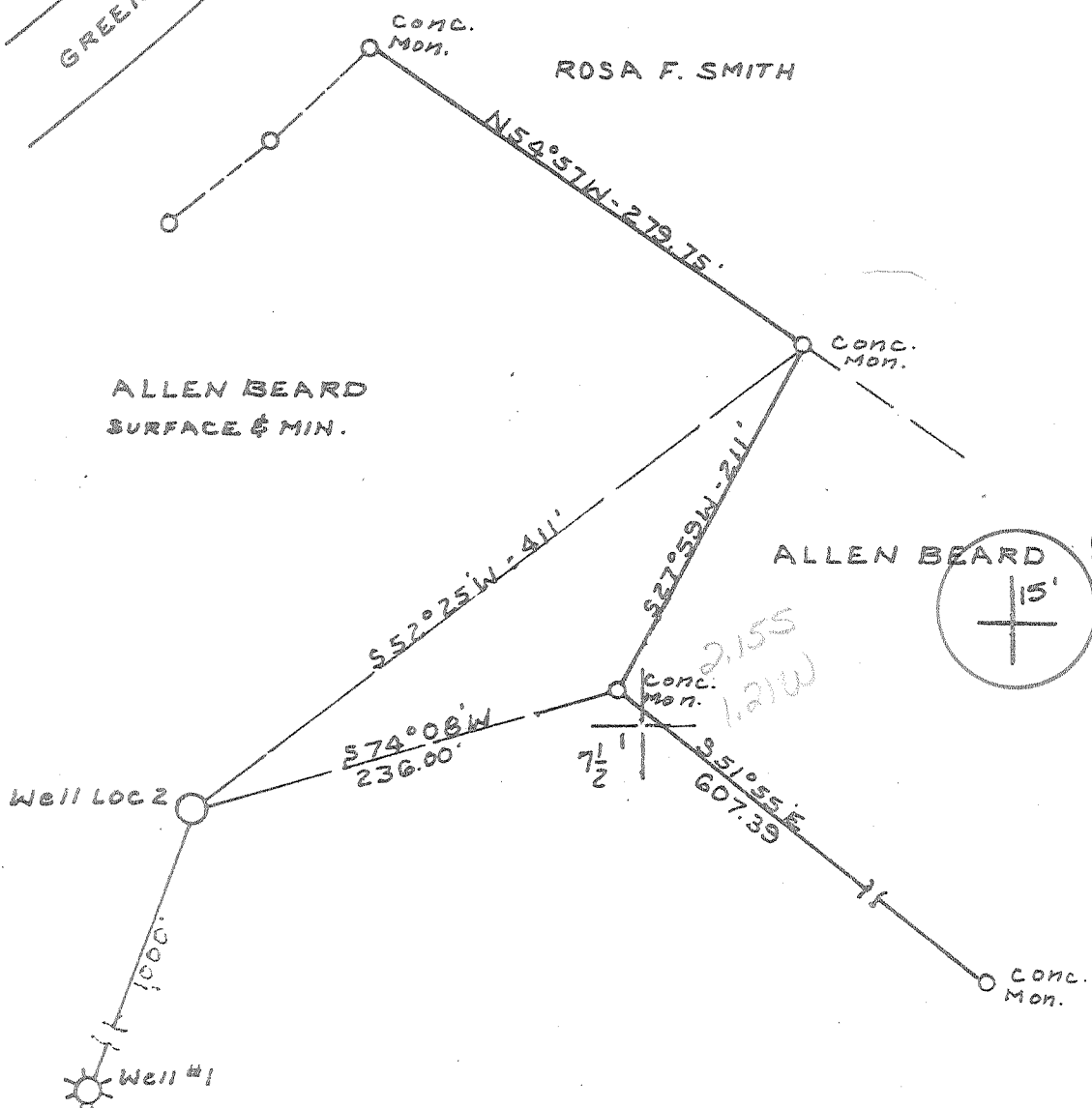
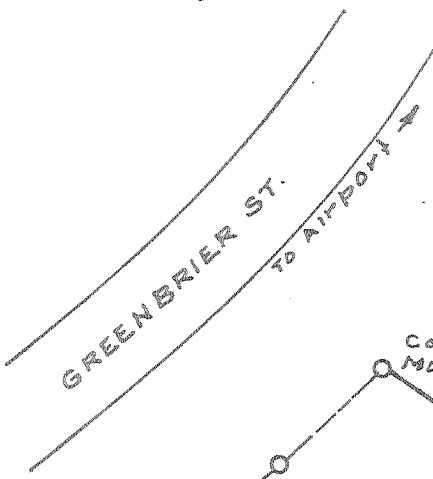


6400'

Latitude  $38^{\circ}22'30''$   
(15')  $38^{\circ}25'$



ALLEN BEARD  
SURFACE & MIN.



Longitude  $81^{\circ}35'00''$   
11,250'

SOURCE OF ELEVATION  
Intersection of Oakridge Road  
and Greenbrier Street El. 811.0'

REVISED PLAT

<p>New Location <input checked="" type="checkbox"/></p> <p>Storage <input type="checkbox"/></p> <p>Drill Deeper <input type="checkbox"/></p> <p>Abandonment <input type="checkbox"/></p> <p>Re-Drill/Fracture <input type="checkbox"/></p>	<p>"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 the rules and regulations of the oil and gas section of the mining laws of <u>West Virginia</u>.</p> <p>Minimum degree of accuracy is one part in <u>200</u></p> <p>Land Surveyor License N992 Legg Star Rt Box 549B Sissonville WVA 25320</p> <p>Signed <u>C. Y. Valley Jr.</u></p>
--	---

Company BIG "B" DRILLING CO. INC.  
 Address PO BOX 20 SISSONVILLE, WVA 25320  
 Farm ALLEN BEARD  
 Lease \_\_\_\_\_ Acres 59.127  
 Well Farm No. 2 Ser. No. \_\_\_\_\_  
 Elevation - Spirit Level 971.0'  
 Quadrangle CHARLESTON EAST C  
 Township or District CITY OF CHARLESTON  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_  
 Coordinates \_\_\_\_\_  
 File No. BK 32 P 44 Dwg. No. \_\_\_\_\_  
 Date 5-18-78 Scale 1"=100'

WELL LOCATION MAP  
STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

47-039-3455

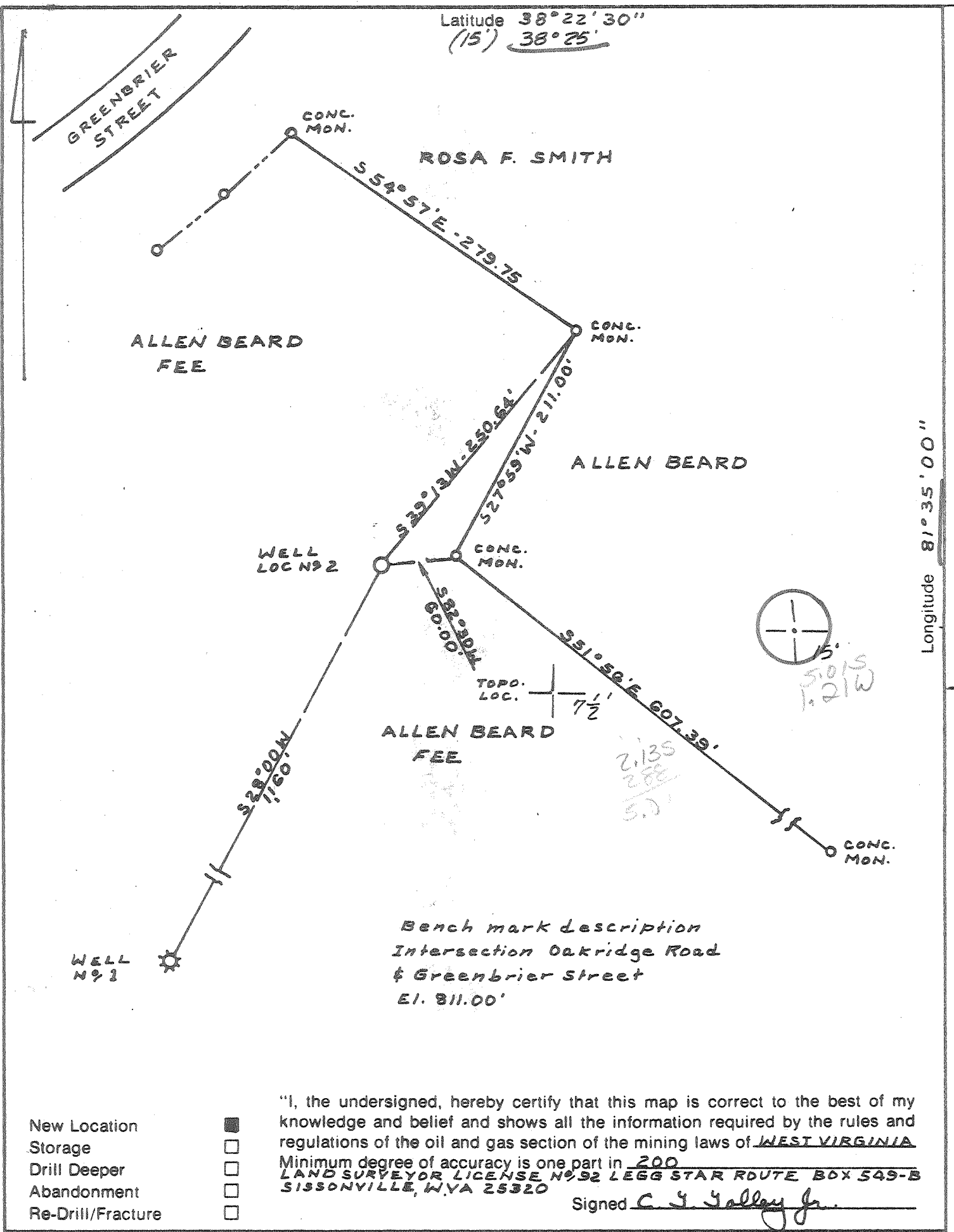
Scale 15'  7 1/2'

300 8941 + 2785

JUL 17 1979

DEEP WELL 6-6 Campbell Creek - Malden (214)

Latitude  $38^{\circ}22'30''$   
(15)  $38^{\circ}25'$



Longitude  $81^{\circ}35'00''$   
11,250'

"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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA. Minimum degree of accuracy is one part in 200.  
LAND SURVEYOR LICENSE NO. 92 LEGG STAR ROUTE BOX 549-B  
SISSONVILLE, WVA 25320

Signed C. S. Galley Jr.

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

Company BIG "B" DRILLING CO INC.  
 Address P.O. BOX 20 SISSONVILLE, WVA 25320  
 Farm ALLEN BEARD  
 Lease \_\_\_\_\_ Acres 59.127  
 Well Farm No. 2 Ser. No. \_\_\_\_\_  
 Elevation - Spirit Level 1007.94'  
 Quadrangle CHARLESTON EAST, CHARLESTON 15'  
 Township or District CITY OF CHARLESTON  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LONG  $81^{\circ}36'19''$  LAT  $38^{\circ}20'38''$   
 File No. BOOK 25 PAGE 93 Dwg. No. \_\_\_\_\_  
 Date 8-3-77 Scale 1" = 100'

**WELL LOCATION MAP**  
**STATE OF WEST VIRGINIA**

(+) Denotes Values Of Well On United States Topographic Maps

**KAN-2841**  
FORMERLY KAN-2785  
Scale 15'  7 1/2'

now: 3455

47-039

JUN 1 1978

200' 100' 100' 100'

Latitude  $38^{\circ}22'30''$   
(15')  $38^{\circ}25'$

GREENBRIER STREET

ROSA F. SMITH

ALLEN BEARD FEE

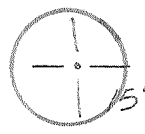
ALLEN BEARD

ALLEN BEARD FEE

5.075  
1.20W

Longitude  $81^{\circ}35'00''$

11,250'



WELL LOC N92

CONC. MON.

TOPO. LOC.

CONC. MON.

WELL N91

Bench mark description  
Intersection Oakridge Road  
& Greenbrier Street  
E1. 811.00'

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA. Minimum degree of accuracy is one part in 200.  
LAND SURVEYOR LICENSE NO. 92 LEGG STAR ROUTE BOX 549-B  
SISSONVILLE, WVA 25320

Signed C. S. Galley Jr.

Company BIG "B" DRILLING CO INC.  
Address P.O. BOX 20 SISSONVILLE, WVA 25320  
Farm ALLEN BEARD  
Lease \_\_\_\_\_ Acres 59.127  
Well Farm No. 2 Ser. No. \_\_\_\_\_  
Elevation - Spirit Level 1007.94'  
Quadrangle CHARLESTON EAST CHARLESTON 15'  
Township or District CITY OF CHARLESTON  
County KANAWHA  
Sec., Lot, Gr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Coordinates LONG  $81^{\circ}36'19''$  LAT  $38^{\circ}20'38''$   
File No. BOOK 25 PAGE 83 Dwg. No. \_\_\_\_\_  
Date 8-3-77 Scale 1" = 100'

**WELL LOCATION MAP**  
STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

WAV: **KAN-2785**

Scale 15'  7 1/2'

now: **KAN-2841**

**47-039**

WELL OPERATOR'S REPORT

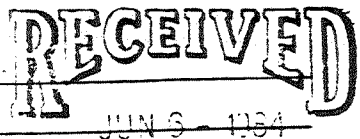
OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 971 Watershed: \_\_\_ District: City of Charleston County: Kanawha Quadrangle: Charleston E. 7.5

WELL OPERATOR: Big "B" Drilling Co., Inc. DESIGNATED AGENT: same Address: Box 20 Sissonville, W. Va.

PERMITTED WORK: Drill X \_\_\_ / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ Plug off old formation \_\_\_ / Perforate new formation \_\_\_ / Other physical change in well (specify) \_\_\_



PERMIT ISSUED ON \_\_\_, 19\_\_

OIL & GAS INSPECTOR FOR THIS WORK: GAS DIVISION Name: Martin Nichols DEPT. OF MINES Address: Clendenin, W. Va.

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

GEOLOGICAL TARGET FORMATION: Oriskany Sand Depth 4940-74 feet Depth of completed well, 5110 feet Rotary X \_\_\_ / Cable Tools \_\_\_ Water strata depth: Fresh, 75 feet; salt, 1200 feet. Coal seam depths: \_\_\_ Is coal being mined in the area? No Work was commenced 7/2/1979, and completed 7/11/1979

LOGGING AND TUBING PROGRAM

Table with columns: LOGGING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILLING OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depth set, Perforations: Top, Bottom). Includes handwritten data for 7" and 4 1/2" pipes.

OPEN FLOW DATA

Producing formation: Berea 170 mcf, Shale 143 mcf, Oriskany 130 mcf - Total 443 MCF. Gas: Initial open flow, \_\_\_ Mcf/d; Final open flow, 443 MCF Mcf/d. Oil: Initial open flow, \_\_\_ Bbl/d; Final open flow, \_\_\_ Bbl/d. Time of open flow between initial and final tests, \_\_\_ hours. Static rock pressure, 750 psig (surface measurement) after \_\_\_ hours shut in.

[If applicable due to multiple completion--]

Second producing formation: \_\_\_ Pay zone depth: \_\_\_ feet. Gas: Initial open flow, \_\_\_ Mcf/d; Final open flow, \_\_\_ Mcf/d. Oil: Initial open flow, \_\_\_ Bbl/d; 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.

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

Perforated Oriskany 4946-4962 Fractured with:

Perforated Shale 3794-3972. Fractured with:

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks including indication of all fresh and salt water, coal, oil and gas
Oil			0	5	
and			5	30	
Shale			30	60	
and			60	90	
Shale, Sand, & Red Rock			90	1050	
and			1050	1300	
Shale			1300	1400	
and			1400	1580	
Limestone			1580	1756	
and (Big Injun)			1756	1806	
Shale			1806	1990	
Gravel Sand			1990	2050	
Shale			2050	2200	
Shale			2200	2216	
Shale			2216	2222	
Shale			2222	4862	
Orniferous Lime			4862	4942	
Oriskany Sand			4942	4974	
Limestone - Helderberg			4974	5110	
				5110	Total Depth

(Attach separate sheets as complete as necessary.)

Big B Drilling Company, Inc.

Well Operator  
 By J. Beard  
 Its \_\_\_\_\_

NOTE: Regulation 2.01(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

Oil and Gas Division  
OIL AND GAS WELL PERMIT APPLICATION

*Handwritten initials*

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

DATE May 3, 1978

Surface Owner Charleston Racquet Club, Inc. Company Big B Drilling Company, Inc.  
 Address Box 20, Sissonville, W.Va. 25320 Address Box 20, Sissonville, W.Va. 25320  
 Mineral Owner Allen Beard, et ux Farm Allen Beard Acres 59.127  
 Address Box 20, Sissonville, W.Va. 25320 Location (waters) Kanawha River Elevation 971.0  
 Coal Owner A. Beard Well No. Two (2) District City of Charleston County Kanawha  
 Address \_\_\_\_\_ Quadrangle 15' Charleston 7.5' Charleston  
 Coal Operator not operated Address \_\_\_\_\_ Charleston East

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 2-21-80.

INSPECTOR TO BE NOTIFIED Martin Nichols  
 ADDRESS Clendenin, W.Va.  
 PHONE 548-6993

*[Signature]*  
 Deputy Director - Oil & Gas Division  
 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 February 1, 1977 by Allen P. Beard et ux made to Big B Drilling Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address of Well Operator

Very truly yours, Big B Drilling Company, Inc.  
 (Sign Name) *[Signature]* Well Operator  
 P. O. Box 20  
 \_\_\_\_\_ Street  
 Sissonville,  
 \_\_\_\_\_ City or Town  
 West Virginia 25320  
 \_\_\_\_\_ 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.

47-039-3455 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) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME Big B Drilling Company, Inc.  
 ADDRESS \_\_\_\_\_ ADDRESS Box 20, Sissonville, W.Va. 2532  
 TELEPHONE \_\_\_\_\_ TELEPHONE 984-9934  
 ESTIMATED DEPTH OF COMPLETED WELL: 5800 ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Newburg  
 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 WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	450	450	
9 - 5/8			
8 - 5/8	1800	1800	
7			
5 1/2	5800	5800	
4 1/2			
3			Perf. Top
2	5800		Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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 22 of the West Virginia Code.

\_\_\_\_\_  
 For Coal Company

\_\_\_\_\_  
 Official Title



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED  
MAY 10 1978  
OIL & GAS DIVISION  
DEPT. OF MINES

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

DATE May 3, 1978

Surface Owner Charleston Racquet Club, Inc. Company Big B Drilling Company, Inc.  
 Address Box 20, Sissonville, W.Va. 25320 Address Box 20, Sissonville, W.Va. 25320  
 Mineral Owner Allen Beard, et ux Farm Allen Beard Acres 59.127  
 Address Box 20, Sissonville, W.Va. 25320 Location (waters) Kanawha River  
 Coal Owner A. Beard Well No. Two (2) Elevation 1007.94'  
 Address \_\_\_\_\_ District City of Charleston County Kanawha  
 Coal Operator not operated Quadrangle 15' Charleston 7.5' Charleston  
 Address \_\_\_\_\_ Charleston East

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved drilling. This permit shall expire if operations have not commenced by 9-10-78.

INSPECTOR TO BE NOTIFIED Martin Nichols  
ADDRESS Clendenin, W.Va.  
PHONE 548-6993

[Signature]  
Deputy Director - Oil & Gas Division  
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 February 1, 1977 by Allen P. Beard et ux made to Big B Drilling Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

\_\_\_\_\_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, Big B Drilling Company, Inc.  
(Sign Name) [Signature]  
Well Operator

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address of Well Operator

P. O. Box 20  
Street  
Sissonville,  
City or Town  
West Virginia 25320  
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.

BLANKET BOND

KAN-2841 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 \_\_\_\_\_

47-039

[Signature] Kan-2785



**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 \_\_\_\_\_ NAME  Big B Drilling Company, Inc.   
 ADDRESS \_\_\_\_\_ ADDRESS  Box 20, Sissonville, W.Va. 25   
 TELEPHONE \_\_\_\_\_ TELEPHONE  984-9934   
 ESTIMATED DEPTH OF COMPLETED WELL:  4,670  ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION:  Shale   
 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 WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	200	200	to surface
9 - 5/8			
8 - 5/8			
7	2600	2600	
5 1/2			
4 1/2	4670		
3			Perf. Top
2	4670		Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title



RECEIVED

AUG - 4 1977

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 3, 1977

Surface Owner Allen P. Beard, et ux

Company Big B Drilling Company, Inc.

Address Box 20, Sissonville, W.Va.

Address Box 20, Sissonville, W. Va.

Mineral Owner same

Farm A. Beard- Hillcrest Acres 59.127

Address \_\_\_\_\_

Location (waters) Kanawha River

Coal Owner same

Well No. Two (2) Elevation 1007.94'

Address \_\_\_\_\_

District City of Charleston County Kanawha

Coal Operator not operated

Quadrangle 15' Charleston 7.5' Charleston

Address \_\_\_\_\_

Charleston East

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 12-4-77.

INSPECTOR  
TO BE NOTIFIED Martin Nichols

ADDRESS Clendenin, W. Va.

PHONE 548-6993

Deputy Director - Oil & Gas Division

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 February 1, 1977 by Allen P. Beard, et ux made to Big B Drilling Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Kanawha County, Book \_\_\_\_\_ Page \_\_\_\_\_

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, Big B Drilling Company, Inc.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

(Sign Name) Allen P. Beard  
Well Operator

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

P.O. Box 20  
Street  
Sissonville,  
City or Town  
West Virginia 25320  
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.

BLANKET BOND

was:  
KAN-2785 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 \_\_\_\_\_

47-039  
now: KAN-2841

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 \_\_\_\_\_ NAME Big B Drilling Company, Inc.  
 ADDRESS \_\_\_\_\_ ADDRESS P.O. Box 20, Sissonville, W.Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE 984-9934  
 ESTIMATED DEPTH OF COMPLETED WELL: 4,670 ROTARY \_\_\_\_\_ CABLE TOOLS X  
 PROPOSED GEOLOGICAL FORMATION: Shale  
 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 WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	200	200	to surface
9 - 5/8			
8 - 5/8			
7	2600	2600	
5 1/2			
4 1/2	4670		
3			Perf. Top
2	4670		Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title