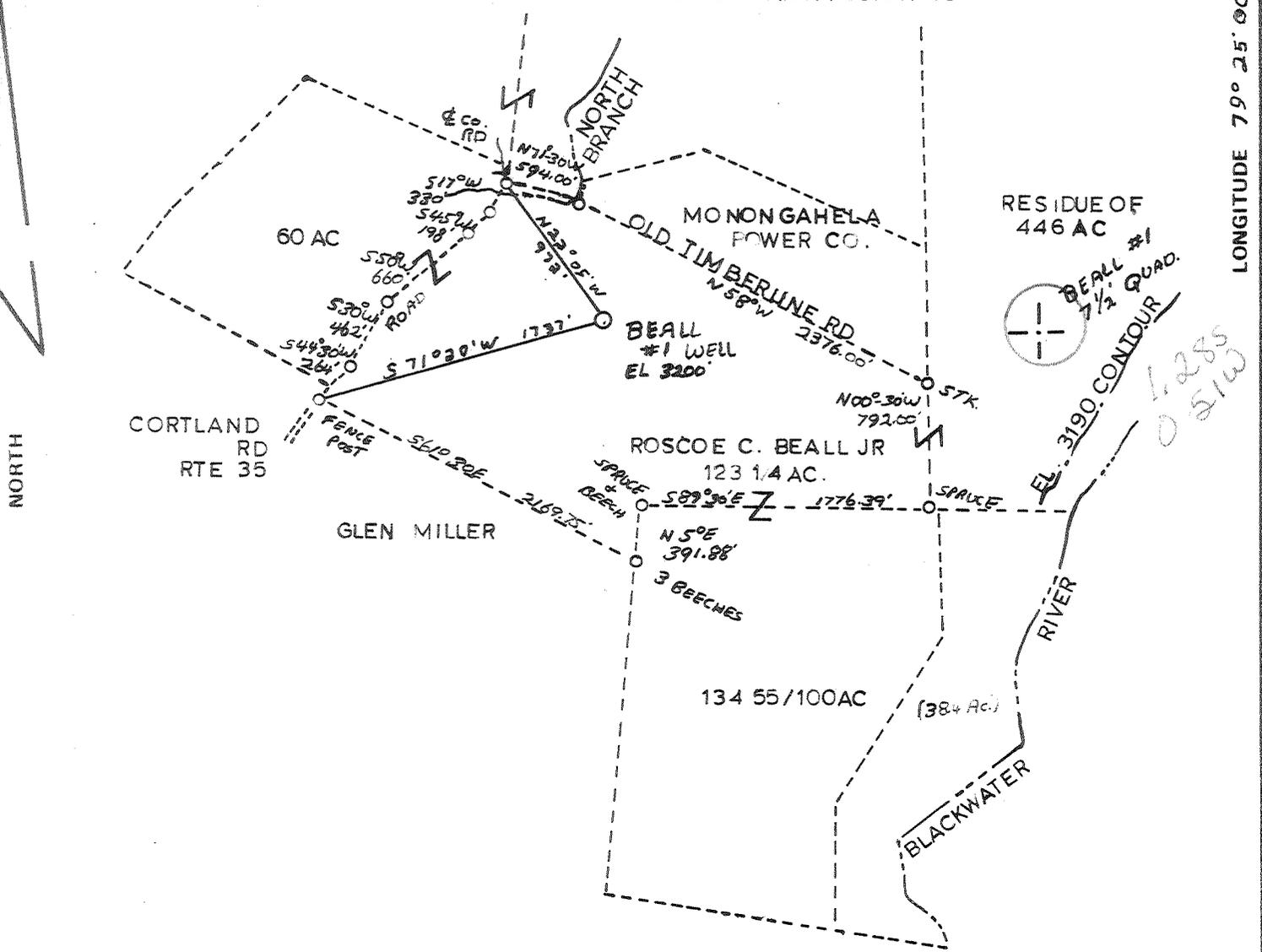


LATITUDE 39° 05' 00"

LONGITUDE 79° 25' 00"

WV POWER & TRANSMISSION CO.



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BM 3163

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) Burd Smith
 R.P.E. 6988 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE August 25, 19 83
 OPERATOR'S WELL NO. BEALL #1
 API WELL NO. REVISED
47 - 093 - 065 - REV
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 3200 WATER SHED NORTH BRANCH OF BLACKWATER RIVER
 DISTRICT DRY FORK COUNTY TUCKER
 QUADRANGLE BLACKWATER FALLS 7.5' Davis 15' SW
 SURFACE OWNER ROSCOE C. BEALL JR ACREAGE 123 1/4 AC
 OIL & GAS ROYALTY OWNER ROSCOE C BEALL JR LEASE ACREAGE 318 AC
 LEASE NO. _____
 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 66 Canaan Valley (287)
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8700 AUG 29 1983
 WELL OPERATOR BEREA OIL & GAS CORP DESIGNATED AGENT MARK SCHUMACHER
 ADDRESS 901 CHEMICAL BANK BLDG. 69 DELAWARE AVE ADDRESS ONE BEREA PLAZA
BUFFALO, NY 14202 BRIDGE PORT WV 26330

FORM IV-6 (8-78)
 H.T. HALL

6-6-83

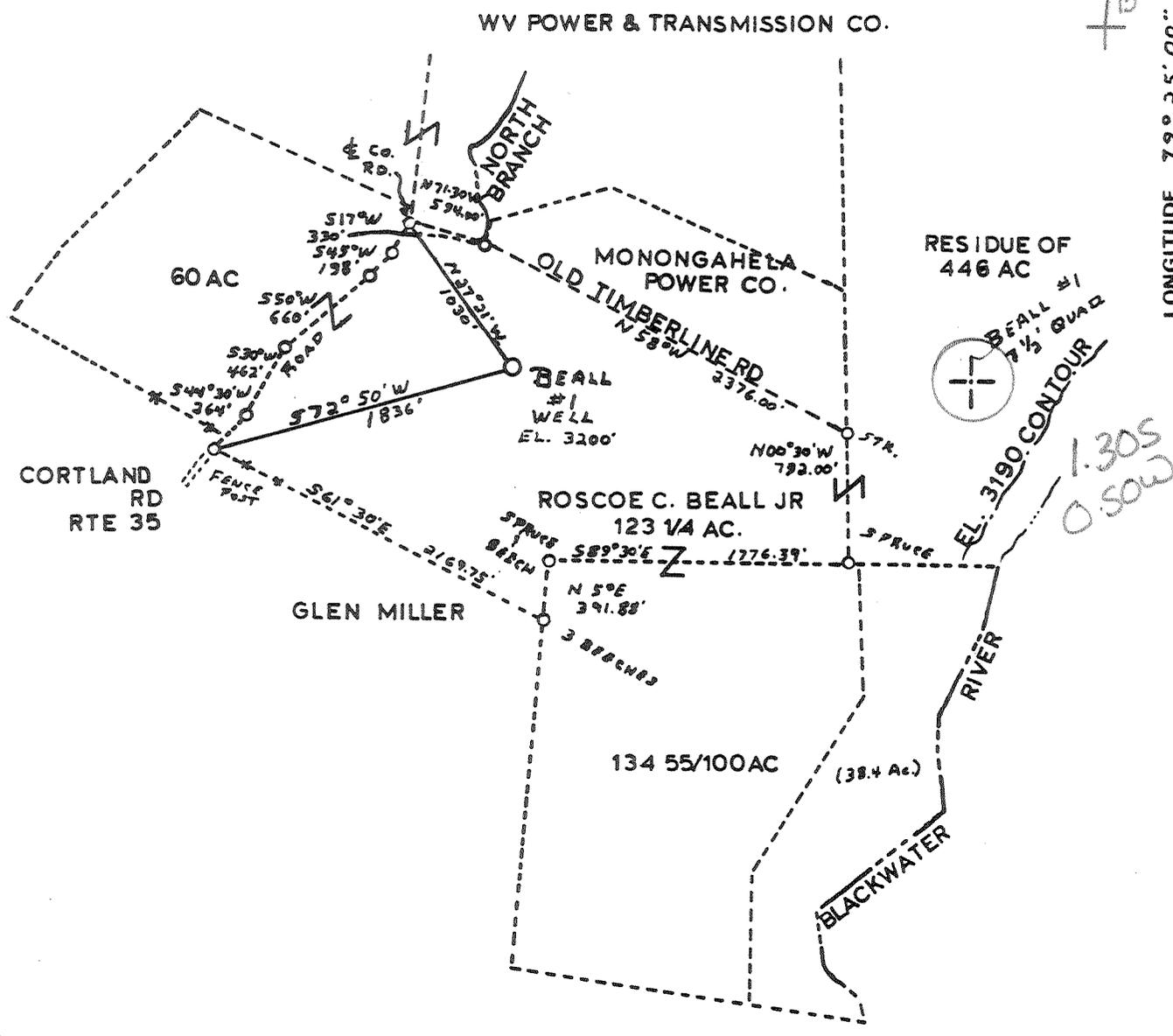
2600'

Plot Card CSD

LATITUDE 39° 05' 00"

LONGITUDE 79° 25' 00"

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BM 3163

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) Burl Smith
 R.P.E. 6988 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 16, 19 83
 OPERATOR'S WELL NO. BEALL #1
 API WELL NO. _____
47 - 093 - 0065
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 3200 WATER SHED NORTH BRANCH OF BLACKWATER RIVER
 DISTRICT DRY FORK COUNTY TUCKER
 QUADRANGLE BLACKWATER FALLS 7.5' Davis U-1 SW
 SURFACE OWNER ROSCOE C BEALL JR ACREAGE 123 1/4 AC
 OIL & GAS ROYALTY OWNER ROSCOE C BEALL JR LEASE ACREAGE 318 AC
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

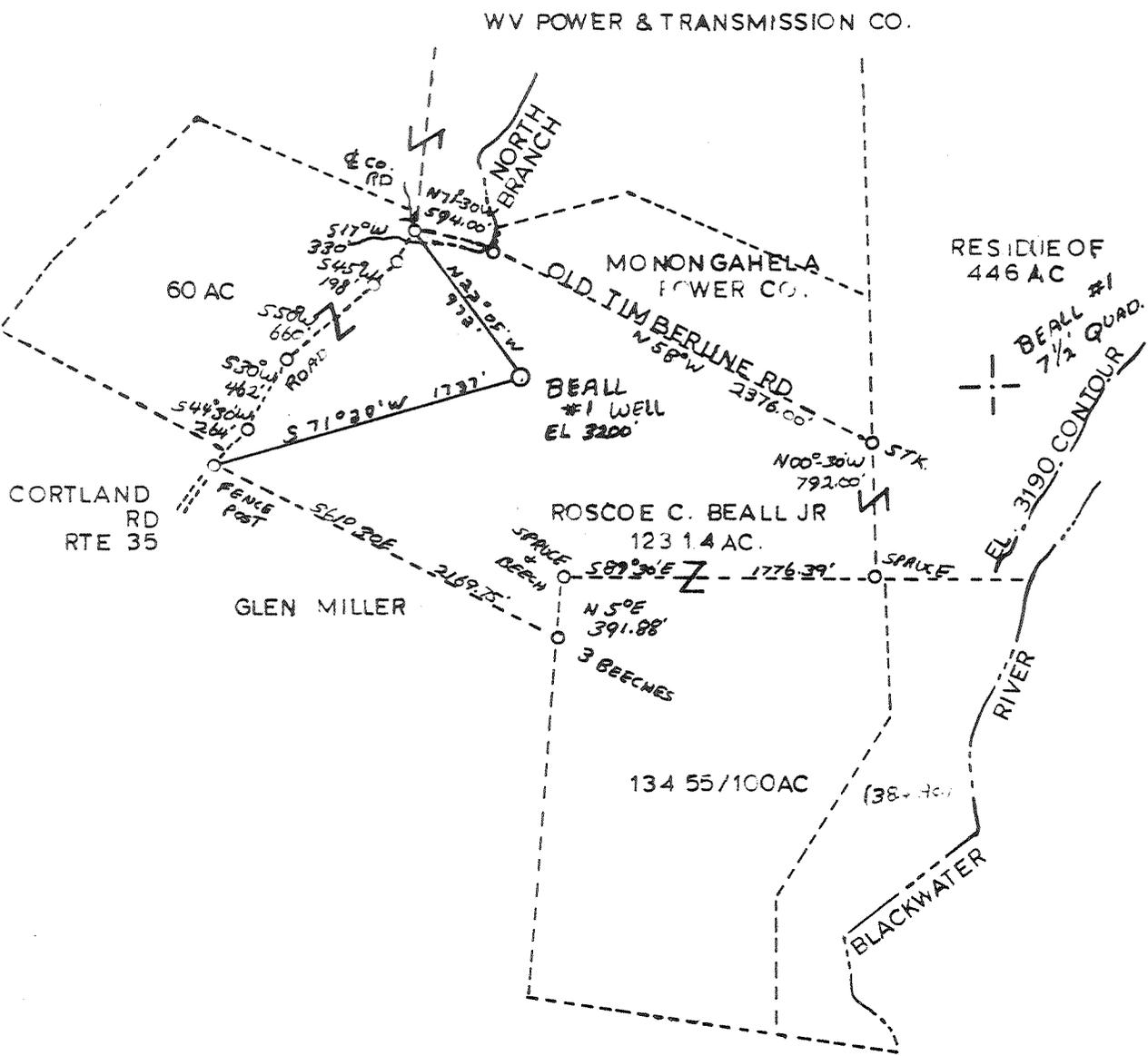
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8700'
 WELL OPERATOR BEREA OIL & GAS CORP. DESIGNATED AGENT MARK SCHUMACHER
 ADDRESS 901 CHEMICAL BANK BLDG. 69 DELAWARE AVE ADDRESS ONE BEREA PLAZA
BUFFALO, NY 14202 BRIDGEPORT, WV 26330

JUN 13 1983

FORM IV-6 (8-78)

H. T. HALL

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BM 3163

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) Burl J. Smith
 R.P.E. 6988 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE August 25, 19 83
 OPERATOR'S WELL NO. BEALL #1
 API WELL NO. REVISD
47 - 093 - 0065-FRAC.
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP SHALLOW ___
 LOCATION: ELEVATION 3200 WATER SHED NORTH BRANCH OF BLACKWATER RIVER
 DISTRICT DRY FORK COUNTY TUCKER
 QUADRANGLE BLACKWATER FALLS 7.5'
 SURFACE OWNER ROSCOE C. BEALL JR ACREAGE 123 1/4 AC
 OIL & GAS ROYALTY OWNER ROSCOE C. BEALL JR LEASE ACREAGE 318 AC
 LEASE NO. _____
 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 ORISKANY ESTIMATED DEPTH 8700'
 WELL OPERATOR BEREA OIL & GAS CORP. DESIGNATED AGENT MARK SCHUMACHER
 ADDRESS 901 CHEMICAL BANK BLDG. 69 DELAWARE AVE ADDRESS ONE BEREA PLAZA
BUFFALO, NY 14202 BRIDGEPORT WV 26330

FORM IV-6 (8/78)

INCL. 22 0005 200

Nancy Wickline 1987



17-15
(Rev. 8-81)

Date October 13, 1983
Operator's
Well No. R. Beall #1
Farm Roscoe C. Beall, Jr.
API No. 47 - 093 - 0065 Rev.

RECEIVED
OCT 14 1983
State of West Virginia
Department of Mines
Oil and Gas Division
OIL & GAS DIVISION WELL OPERATOR'S REPORT
DEPT. OF MINES OF
LITHOLOGY, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION
DEPT. OF MINES
Gas X / Liquid Injection / Waste Disposal /
(If "Gas" Production X / Underground Storage / Deep X / Shallow /)

LOCATION: Elevation: 3200' Watershed N. Branch Blackwater River
District: Dry Fork County Tucker Quadrangle Blackwater Falls 7 1/2

PROPERTY Berea Corp.
ADDRESS PO Box 299, Bridgeport, WV 26330
REGISTRATED AGENT Thomas E. Riley
ADDRESS PO Box 299, Bridgeport, WV 26330
PROPERTY OWNER Roscoe C. Beall, Jr.
ADDRESS 319 N. Main St., Keyser, WV 26726
MINERAL RIGHTS OWNER Roscoe C. Beal, Jr.
ADDRESS 319 N. Main St., Keyser, WV 26726

OIL AND GAS INSPECTOR FOR THIS WORK Phillip
Tracy ADDRESS _____
PERMIT ISSUED 8/25/83

DRILLING COMMENCED 9/06/83
DRILLING COMPLETED 9/23/83

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	Content fill up Cu. ft.
Size 20-3/4 Conn 19 3/8 18 1/2	10'	10'	----
9 5/8	3056'	3018'	200 sks
8 5/8			350 sks
7			
5 1/2			
4 1/2	8463'	8207'	565 sks
3			
liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 8700' feet
Depth of completed well 8463' feet. Rotary X / Cable Tools _____
Water strata depth: Fresh 50; 130 feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Oriskany Pay zone depth 8265' feet
Gas: Initial open flow 3.25M Mcf/d Oil: Initial open flow None Bbl/d
Final open flow 1.4 M Mcf/d Final open flow None Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 2200 psig (surface measurement) after 72 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

(Continue on reverse side)

Nancy Wickline 1987

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

None - natural open flow

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	LEVELS
					Including indication of all fr and salt water, coal, oil and
Limestone			0	280	
Sand & Shale			280	1870	1/2" str wtr @ 50'
Shale			1870	2070	1" wtr @ 130'
Sand			2070	2160	
Shale			2160	2410	
Sand			2410	2480	
Shale			2480	2784	
Sandstone			2784	2920	
Sand & Shale			2920	3175	
Sand			3175	3340	
Shale			3340	3620	
Siltstone			3620	4160	
Shale			4160	4310	
Siltstone			4310	4575	
Shale			4575	4700	
Siltstone			4700	4950	
Shale			4950	5200	
Siltstone			5200	5395	
Siltstone & Shale			5395	5800	
Shale			5800	6520	
Siltstone			6520	6660	
Shale			6660	7608	
Limestone			7608	7640	
Siltstone			7640	7874	
Shale			7874	8036	
Chert			8036	8120	
Shale			8120	8140	
Sand			8140	8320	
Limestone			8320	TD	

Driller's TD 8463'
Logger's TD 8465'

(Attach separate sheets as necessary)

BEREA OIL & GAS CORP.
Well Operator

By: *Thomas E. Riley* Thomas E. Riley, P.E.
Date: October 13, 1983 Manager of Engineering

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."

CONFIDENTIAL



AMENDED FOR FRACTURING ONLY

WV-25
(Rev 8-81)

RECEIVED

AUG 29 1984

State of West Virginia
Department of Mines
Oil and Gas Division
DEPT. OF MINES

Date August 28, 1984
Operator's
Well No. R. Beall #1
Farm Roscoe C. Beall, Jr.
API No. 47 - 093 - 0065 FRAC.

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 X / Shallow /)

LOCATION: Elevation: 3200' Watershed North Branch of Blackwater River
District: Dry Fork County Tucker Quadrangle Blackwater Falls

PROPERTY Berea Oil & Gas Corp.
ADDRESS P. O. Box 299, Bridgeport, WV 26330
RESIDENTIAL AGENT Thomas E. Riley, P.E.
ADDRESS P. O. Box 299, Bridgeport, WV 26330
SURFACE OWNER Roscoe C. Beall, Jr.
ADDRESS 319 N. Main St. Keyser, WV 26726
MINERAL RIGHTS OWNER Roscoe C. Beall, Jr.
ADDRESS 319 N. Main St. Keyser, WV 26726
OIL AND GAS INSPECTOR FOR THIS WORK Russell
Beall ADDRESS P.O.Box 160, Philippi, WV
26416

PERMIT ISSUED 7-20-84 (FRAC)
DRILLING COMMENCED 9-6-83 8/11/84
DRILLING COMPLETED 9-23-83 8/14/84

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 20- 16 Cond.	10'	10'	--
13 3/8" 13 1/2"	258'	240'	200 sks.
9 5/8	3056'	3018'	350 sks.
8 5/8			
7			
5 1/2			
4 1/2	8463'	8207'	565 sks.
3			
2 3/8"	---	7999'	---
3 1/2" Liners used		425'	90 sks.

GEOLOGICAL TARGET FORMATION Oriskany Depth 8700 feet
Depth of completed well 8463 feet Rotary X / Cable Tools
Water strata depth: Fresh 40' - 20' feet; Salt 2900' feet
Coal seam depths: N/A Is coal being mined in the area? no

OPERATIONAL FLOW DATA
Producing formation Oriskany / Helderberg Pay zone depth See Well Treatment Details feet
Gas: Initial open flow none Mcf/d Oil: Initial open flow --- Bbl/d
After Frac
Final open flow 500 Mcf/d Final open flow --- Bbl/d
Date 8/3/84
Time of open flow between initial and final tests 48 hours
Static rock pressure 1150 psig (surface measurement) after 4 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

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

8-11-84 Perf. Oriskany/ Helderberg

Frac. Oriskany 8-14-84

8254' - 8258' (8 holes) Oriskany
 8262' - 8264' (2 holes) "
 8290' - 8292' (2 holes) "
 8322' - 8328' (6 holes) Helderberg

Frac. Helderberg
 Formation broke @ 2550#. ISIP 3400#.
 5 min. 3000#. Avg. pump rate 33 BPM.
 Used 75,000# 20/40 sand. 7000 gal 15%
 HCl acid, 1245 BW.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fossils and salt water, coal, oil and gas
Limestone			0	280	½ str. wtr. @ 50'
Sand & Shale			280	1870	1"str. wtr. @ 130'
Shale			1870	2070	
Sand			2070	2160	
Shale			2160	2410	
Sand			2410	2480	
Shale			2480	2784	
Sandstone			2784	2920	
Sand & Shale			2920	3175	
Sand			3175	3340	
Shale			3340	3620	
Siltstone			3620	4160	
Shale			4160	4310	
Siltstone			4310	4575	
Shale			4575	4700	
Siltstone			4700	4950	
Shale			4950	5200	
Siltstone			5200	5395	
Siltstone & Shale			5395	5800	
Shale			5800	6520	
Siltstone			6520	6660	
Shale			6660	7608	
Tully Limestone			7608	7640	
Hamilton Siltstone			7640	7874	
Marcellus Shale			7874	8036	
Huntermville Chert			8036	8120	
Needmore Shale			8120	8140	
Oriskany Sand			8140	8320	
Helderberg Limestone			8320	8463'	

Drillers TD 8463
 Loggers TD 8465'

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.

Well Operator

By: *Thomas E. Riley*
 Thomas E. Riley, P.E., Manager of Engineering

Date: August 28, 1984

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 fossils, encountered in the drilling of a well."



1) Date: August 24, 19 83
 2) Operator's Well No. R. Beall #1
 3) API Well No. 47 - 093 - 0065-Rev
 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 X / Shallow)
- 5) LOCATION: Elevation: 3200' Watershed: North Branch of Blackwater River
 District: Dry Fork County: Tucker Quadrangle: Blackwater Falls 7.5'
- 6) WELL OPERATOR Berea Oil & Gas Corp. 7) DESIGNATED AGENT Mark Schumacher
 Address P.O. Box 569 Address P.O. Box 299
Dover, OH 44622 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phillip Tracy Name
 Address Address
Phone: (304)472-0091
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 8700' feet
 13) Approximate trata depths: Fresh, 40'; 209' feet; salt, 2900' feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No X
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	13 3/8	H40	48	X		250'	250'	to surface	Kinds <u>by Rule 15.05</u>
Fresh water									
Coal									Sizes
Intermediate	9 5/8	J55	36	X		3100'	3100'	1000' Fillup	or US Reg.
Production	4 1/2	N80	11.6	X		8700'	8700'	1000' Fillup	Depths set. <u>by Rule 15.01</u>
Tubing	2 3/8	J55	4.7	X		9000'			
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-093-0065-Rev Date August 25, 1983 19

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 August 25, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>OB</u>	Agent: <u>OK</u>	Plan: <u>OB</u>	Casing: <u>OB</u>	Fee: <u>16390</u>
-----------------	------------------	-----------------	-------------------	-------------------

T. R. P. B.
 Administrator, Office of Oil and Gas

RECEIVED

JUL 12 1984



1) Date: July 11, 19 84
 2) Operator's Well No. R. Beall #1
47 - 093 - 0065-FRAC
 State County Permit

RECEIVED

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage Deep / Shallow
- 5) LOCATION: Elevation: 3200' Watershed: North Branch of Blackwater River (MC6003)
 District: Dry Fork County: Tucker Quadrangle: Blackwater Falls 7.5'
- 6) WELL OPERATOR Berea Oil & Gas Corp. 7) DESIGNATED AGENT Mark Schumacher
 Address P.O. Box 569 Address P.O. Box 299
Dover, OH 44622 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Russell Beall Name _____
 Address Phone: (304)866-4608 Address _____
- 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, Oriskany
- 12) Estimated depth of completed well, 8700' feet
- 13) Approximate trata depths: Fresh, 40'; 209' feet; salt, 2900' feet.
- 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No
- 15) CASING AND TUBING PROGRAM

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	13 3/8	H40	48	X		250'	240'	to surface	Kinds by Rule 15.05
Fresh water									
Coal									Sizes
Intermediate	9 5/8	J55	36	X		3100'	3018'	1000' Fillup	Or U.S. Reg.
Production	4 1/2	N80	11.6	X		8700'	8207'	1000' Fillup	Depths set by Rule 15.01
Tubing	2 3/8	J55	4.7	X		9000'			
Liners	3 1/2	N80	8.80	X			450'	450'	Perforations: Top Bottom

**OFFICE USE ONLY
 DRILLING PERMIT**

Permit number 47-093-0065-FRAC Date July 20, 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 July 20, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>17</u> <u>Blanket</u>	Agent: <input checked="" type="checkbox"/>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>33098</u>
-----------------------------------	--	-----------------	-------------------	-------------------

[Signature]
 Administrator, Office of Oil and Gas



1) Date: May 27, 19 83
 2) Operator's Well No. R. Beall #1
 3) API Well No. 47 093 0065
 State County Permit

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas X
 B (If "Gas", Production X / Underground storage / Deep X / Shallow)
- 5) LOCATION: Elevation: 3200' Watershed: North Branch of Blackwater River
 District: Dry Fork County: Tucker Quadrangle: Blackwater Falls 7.5'
- 6) WELL OPERATOR Berea Oil & Gas Corp. 11) DESIGNATED AGENT Mark Schumacher
 Address P.O. Box 369 Address P.O. Box 299
Dover, OH 44622 Bridgeport, WV 26330
- 7) OIL & GAS ROYALTY OWNER Roscoe C. Beall, Jr. 12) COAL OPERATOR
 Address 319 N. Main St. Address
Keyser, WV 26726
 Acreage 318
- 8) SURFACE OWNER Roscoe C. Beall, Jr. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 319 N. Main St. Name
Keyser, WV 26726 Address
 Acreage 123.25 Name
 Address
- 9) FIELD SALE (IF MADE) TO:
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Stewart
 Address Box 345, Jane Lew, WV
Phone: (304) 884-7782
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name
 Address
- 15) PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Oriskany
 17) Estimated depth of completed well, 8700' feet
 18) Approximate water strata depths: Fresh, 40' feet; salt, 2900' feet.
 19) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No X

20) CASING AND TUBING PROGRAM

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	3 3/8	H40	48	X		250'	250'	to surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	9 5/8	J55	36	X		3100'	3100'	1000' Fillup	
Production	4 1/2	N80	11.6	X		8700'	8700'	1000' Fillup	Depths set
Tubing	2 3/8	J55	4.7	X		9000'			
Liners									Perforations: Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is 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 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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 IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Anna M. Conner Signed: Mary Brewell
 My Commission Expires Its: Vice President, Land

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-093-0065 Date June 7 19 83

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. 10) 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.)

Permit expires February 7, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u> </u>	Agent: <u> </u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>15985</u>
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Administrator, Office of Oil and Gas