9/28/79

Latitude 39° 20' 00"

4220'SOUTH
540'WEST

15'

0.80 S
2.33W

15'

30"

20'

22'

0.80 S
0.10W

15'

Longitude 80° 30'

MUNSIE-

N 8°E
330'

W.O. S 87°30'E-891' B.O.

1

BARNETT

96 ACRES

S 50°45'E-1075'

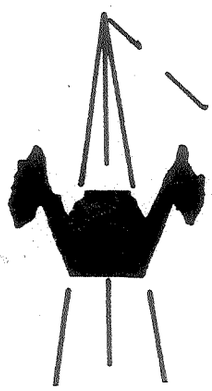
S 5°W-645'

N 8°E-660'

2
EL.765'

HIGGINS

DORNIN



ACCURACY: 1/200'

New Location ■
Drill Deeper □
Abandonment ■ - 4/1
Fracture □
Redrill □
Other _____

Formation GORDON
Est. Depth 2550'

Oil ■
Gas ■
Other _____

Source of Elevation BULL RUN RD. & RT.#2 (620')

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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company BEREA OIL & GAS CORPORATION
Address BUFFALO, NY
Surface Owner BERTHA HENDERSHOT
Mineral Owner BERTHA HENDERSHOT

Well No. 2 **Acres** 96

Elevation 765'
Quadrangle MARIETTA VALLEY MILLS **Series** 7.5'
County WOOD **District** UNION
Date 9/4/79 **Scale** 1" = 500'

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

WELL LOCATION MAP

47 - 107 - 0906 - P
STATE COUNTY PERMIT

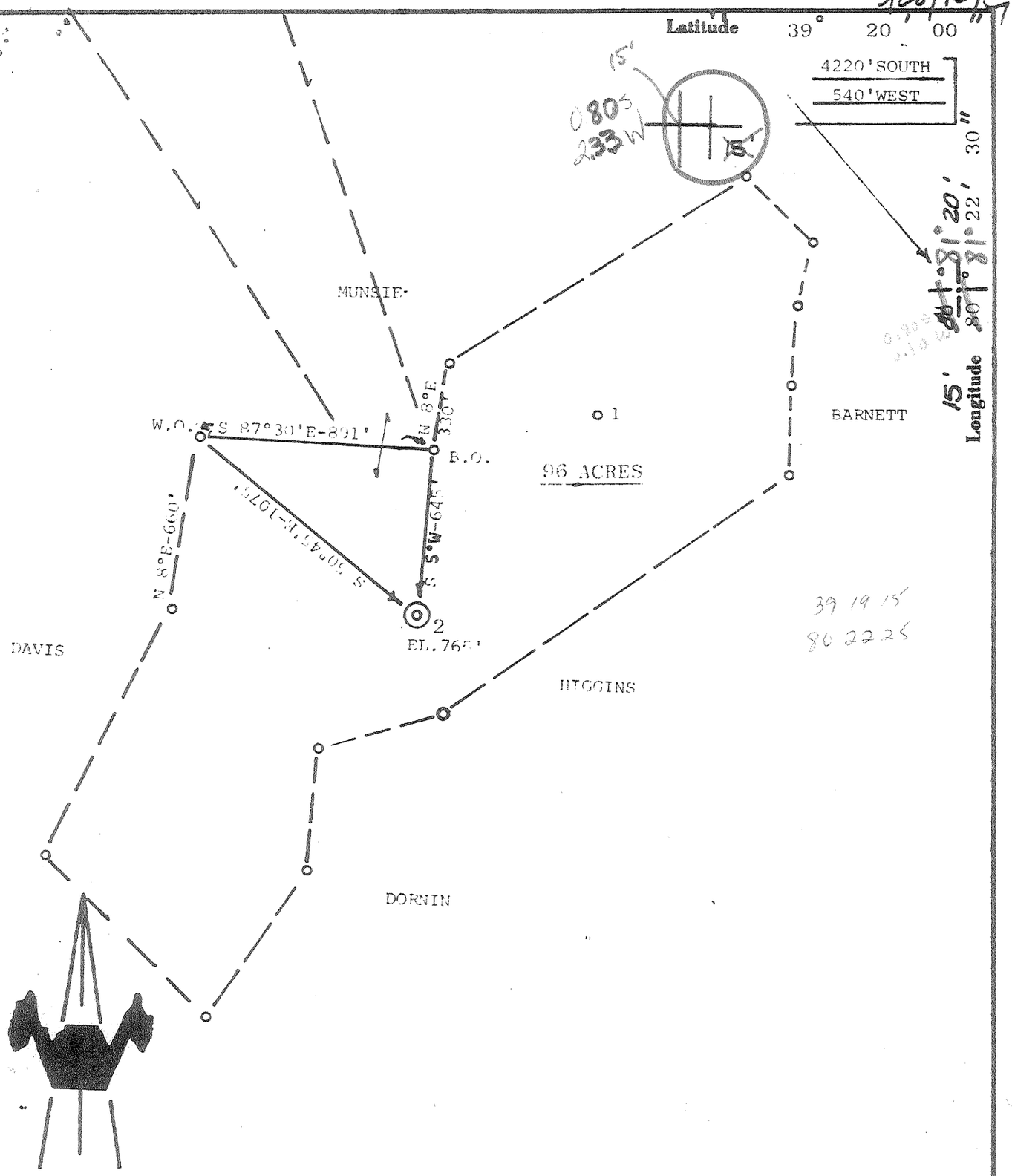
+ Denotes location of well on United States Topographic Maps.

Engineer CHET WATERMAN APR 11 1983

Engineer's Registration No. 3788 **File No.** 79--599

Plot ✓ Log ___ Card ✓ CSD ___

9/28/79



ACCURACY: 1/200'

New Location ■
Drill Deeper ☐
Abandonment ☐
Fracture ☐
Redrill ☐
Other ___

Formation GORDON
Est. Depth 2550'

Oil ■
Gas ■
Other ___

Source of Elevation BULL RUN RD. & RT.#2 (620')

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Address BUFFALO, NY
Surface Owner BERTHA HENDERSHOT
Mineral Owner BERTHA HENDERSHOT

Well No. 2 **Acres** 96
Elevation 765' SC
Quadrangle MARIETTA VALLEY MILLS 15' **Series** 7.5'
County WOOD **District** UNION
Date 9/4/79 **Scale** 1" = 500'

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

WELL LOCATION MAP

47 - 107 - 0906
STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
Engineer CHET WATERMAN OCT 12 1979
Engineer's Registration No. 3788 **File No.** 79-599

6-6 WAVERLY

7

RECEIVED

JUL 8 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

IV-35
(Rev 8-81)

AMENDED

State of West Virginia
Department of Mines
Oil and Gas Division

Date July 7, 1982
Operator's
Well No. Hendershot #2
Farm B. Hendershot
API No. 47 - 107 - 0906

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: 765' Watershed Bull Creek
District: Union County Wood Quadrangle Valley Mills

COMPANY Berea Oil & Gas Corp.
ADDRESS PO Box 299, Bridgeport, WV 26330
DESIGNATED AGENT Mark V. Schumacher, P.E.
ADDRESS PO Box 299, Bridgeport, WV 26330
SURFACE OWNER B. Hendershot
ADDRESS 700 39th St., Vienna, WV
MINERAL RIGHTS OWNER Same as above
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace
ADDRESS Rt. 1, Box 65 Sandridge, WV
PERMIT ISSUED 9/27/79
DRILLING COMMENCED 1/16/80
DRILLING COMPLETED 1/20/80
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.			
13-10"			
9 5/8			
8 5/8	260'	260'	90 sks
7			
5 1/2			
4 1/2	2577'	2577'	225 sks
3			
XX 1½		2084'	
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2550 feet
Depth of completed well 2600 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 40 feet; Salt ----- feet
Coal seam depths: ------ Is coal being mined in the area?

OPEN FLOW DATA
Producing formation Berea Pay zone depth 2127-33' feet
Gas: Initial open flow ----- Mcf/d Oil: Initial open flow ----- Bbl/d
Final open flow 56 Mcf/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 500 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

JUL 19 1982

(Continue on reverse side)

FORM IV-35
(REVERSE)

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

10/3/80: Perf Berea 2127-2133' (14 holes). Frac w/50000# 20/40 and 15000# 80/100 sand in 1111 bbls. fluid.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Fill & Shale	0	15	
Shale	15	25	
Sand	25	75	
Shale & Red Rock	75	155	
Red Rock	155	165	
Sand & Shale	165	245	
Red Rock & Sand	245	255	
Sand, Shale & Red Rock	255	370	
Red Rock	370	400	
Sand & Shale	400	450	
Red Rock & Shale	450	720	
Sand	720	765	
Shale	765	795	
Red Rock & Shale	795	870	
Sand & Shale	870	950	
Shale	950	1015	
Sand & Shale	1015	1280	
Shale	1280	1285	
Sand & Shale	1285	1310	
Shale	1310	1320	
Sand & Shale	1320	1460	
Sand	1460	1520	
Big Injun	1520	1762	
Shale	1762	2106	
Coffee Shale	2106	2125	
Berea	2125	2124	
Shale	2134	2482	
Gordon	2482	2514	
Shale	2514	2600	

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.
Well Operator

By: Mark V. Schumacher
Mark V. Schumacher, P.E., Vice-President

Date: July 7, 1982

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geologic[illegible] record of [illegible] formations, including

OG-10
Rev. - 9-71

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OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary XX Oil ____
Cable ____ Gas ____
Recycling ____ Comb. XX
Water Flood ____ Storage ____
Disposal ____ ____ (Kind)

Quadrangle Valley Mills

Permit No. 47-107-0906

Company Berea Oil & Gas Corporation
Address 652 Empire Bk. Bldg, Clarksburg, WV
Farm Hendershot Acres 96
Location (waters) Bull Creek
Well No. #2 Elev. 765'
District Union County Wood
The surface of tract is owned in fee by
B. Hendershot
Address 700-39 St., Vienna, WV
Mineral rights are owned by B. Hendershot
____ Address Same as Above
Drilling Commenced 1-16-80
Drilling Completed 1-20-80
Initial open flow ____ cu. ft. ____ bbls.
Final production 56 mcf cu. ft. per day ____ bbls.
Well open 4 hrs. before test 500 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	260'	260'	90 sks.
7			
5 1/2			
4 1/2	2577'	2577'	225 sks.
3			
XX 1½"		2084'	
Liners Used			

Attach copy of cementing record.

Well treatment details:

10-3-80 Perforated Berea 2127-2133, (14 holes) Fracted w/50,000# 20/40 & 15,000# 80/100 in 1111 bbls. fluid.

Coal was encountered at ____ Feet ____ Inches
Fresh water 40 Feet ____ Salt Water ____ Feet ____
Producing Sand Berea Depth 2127-2133

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	1520		
Injun			1520	1762		
Sand & Shale			1762	2125		
Berea			2125	2134		
Sand & Shale			2134	2482		
Gordon Siltstone			2482	2514		
Sand & Shale			2514	2600		
TOTAL DEPTH				2600		

(over)

* Indicates Electric Log tops in the remarks section.

DEC 5 1980

OG - 1
Rev. - 71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
SEP 27 1979
O. & G.

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE September 6, 1979

Surface Owner Bertha Hendershot
Address 700-39 St., Vienna, WV 26101
Mineral Owner SAME
Address
Coal Owner SAME
Address
Coal Operator NONE
Address

Company Berea Oil & Gas Corporation
Address SEE WELL OPERATOR BELOW
Farm Hendershot Acres 96
Location (waters) Bull Creek
Well No. #2 Elevation 765'
District Union County Wood
Quadrangle Valley Mills

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 6-1-80.

Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul Goodnight
ADDRESS Smithville, W.Va.
PHONE 477-3660

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 August 7 19 79 by Hazen K. Hendershot made to Energy Unlimited, Inc. and recorded on the 7th day of August 19 79, in Wood County, Book 725 Page 363

XX 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, Mark Schumacher
(Sign Name) Mark Schumacher
Well Operator

Address of Well Operator
652 Empire Bank Building
Fourth & Main Streets
Street
Clarksburg
City or Town
West Virginia 26301
State

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

*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.

47-107-0906
PERMIT NUMBER

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known)
NAME N/A
ADDRESS _____
TELEPHONE _____

RESPONSIBLE AGENT:
NAME Mark Schumacher
ADDRESS Clarksburg, West Virginia
TELEPHONE (304) -624-6429

ESTIMATED DEPTH OF COMPLETED WELL: 2800'
ROTARY XX CABLE TOOLS _____
PROPOSED GEOLOGICAL FORMATION: Gordon
TYPE OF WELL: OIL XX GAS XX 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			
9 - 5/8			
8 - 5/8 XX	250'	250'	Surface
7			
5 ½			
4 ½ XX	TD	TD	400'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET _____ SALT WATER 1500 FEET _____
APPROXIMATE COAL DEPTHS NONE , _____
IS COAL BEING MINED IN THE AREA? NO 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

FORM IV-38
(Affidavit of Plugging)

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

RECEIVED
MAY 12 1983
OIL & GAS DIVISION
DEPT. OF MINES

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

_____ Coal Operator or Owner

_____ Address

_____ Coal Operator or Owner

_____ Address

_____ Lease or Property Owner

_____ Address

Berea Oil And Gas Corp.
Name of Well Operator

P. O. Box 299, Bridgeport, WV 26330
Complete Address

May 11, 1983

WELL AND LOCATION

Union District

Wood County

WELL NO. #2

B. Hendershot Farm

STATE INSPECTOR SUPERVISING PLUGGING Samuel N. Hushman, P. O. Box 66, Smithfield, WV 26178

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Harrison ss:

Mark Schumacher and Tom Mallernee being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Berea Oil And Gas Corp., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 6th day of May, 19 83, and that the well was plugged and filled in the following manner:

Sand or Zone Record		Filling Material	Plugs Used	Casing		
Formation			Size & Kind	CSG PULLED	CSG LEFT IN	
2625'-2283'	Shale	Gel	Gel Plug	-	260'	8 5/8"
2223'-2100'	Berea & Shale	10 sks. Class A Cement	Cement Plug	1233'	1344'	4 1/2"
2100'-1200'	Shale	Gel	Gel Plug	2084	0	1 1/2"
1200'-1120'	Sand & Shale	31 sks. Class A Cement	Cement Plug			
1120'-300'	Sand & Shale	Gel	Gel Plug			
300' - 200'	Sand & Shale	31 sks. Class A Cement	Cement Plug			
200' - 50'	Sand & Shale	Gel	Gel Plug			
50' - surface	Sand & Shale	33 sks. Class A Cement	Cement Plug			
		Topped off with 10sks.				
		Class A Cement				
		Total 115 sks. Class A Cement				
Coal Seams	None		Description of Monument			
(Name)			None			
(Name)						
(Name)						
(Name)						

and that the work of plugging and filling said well was completed on the 6th day of May, 1983.

And further deponents saith not.

M. V. Johnson Jr.
Thomas W. Mallernee

Sworn to and subscribed before me this 11th day of May, 1983.

Hattie E. Kerns
Notary Public

My commission expires:
January 3, 1993

Permit No. 47-107-0906 -P

5/16/83