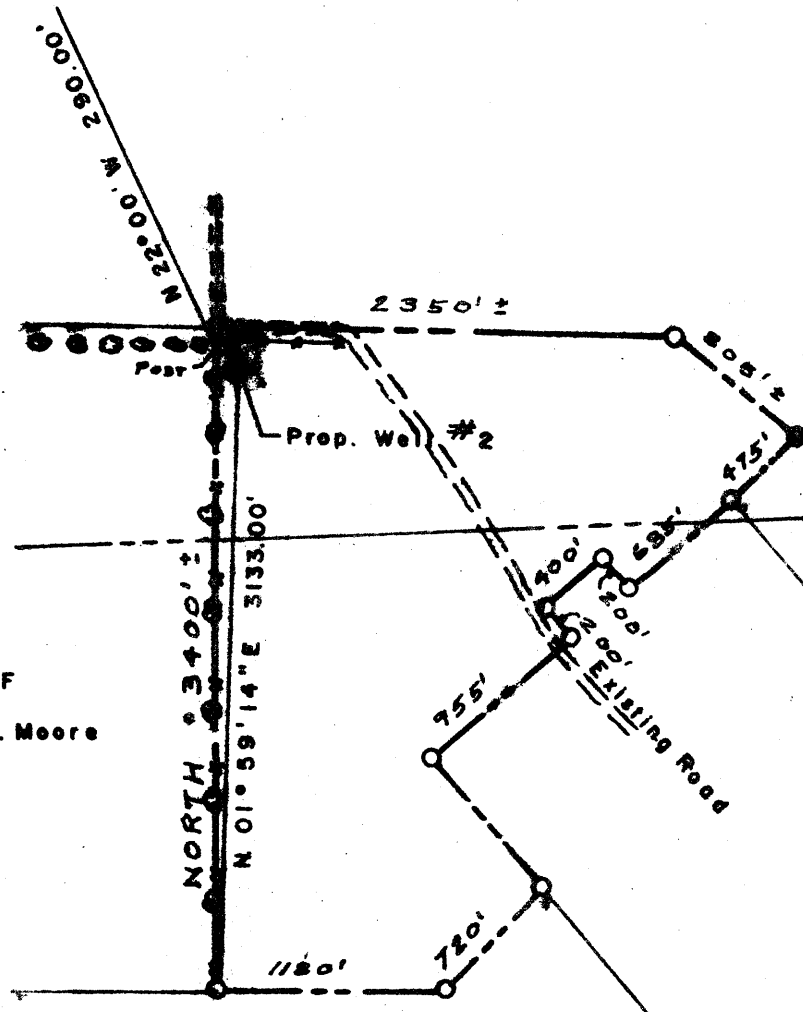
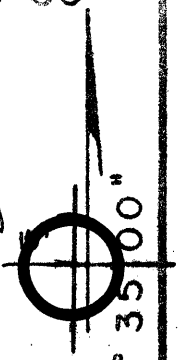


Latitude 40° 35' 00"

Longitude 80° 35' 00"

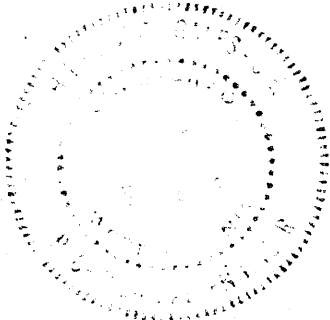
1565
0.46W



GRANT DISTRICT 2
CLAY DISTRICT 3



N/F
Wm. J. Moore



Minimum Error of Closure 1 PART IN 2500
 Source of Elevation U.S.G.S. MAP 7 1/2 MIN. SERIES
John Robert Gales
 "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."

New Location
 Drill Deeper
 Abandonment

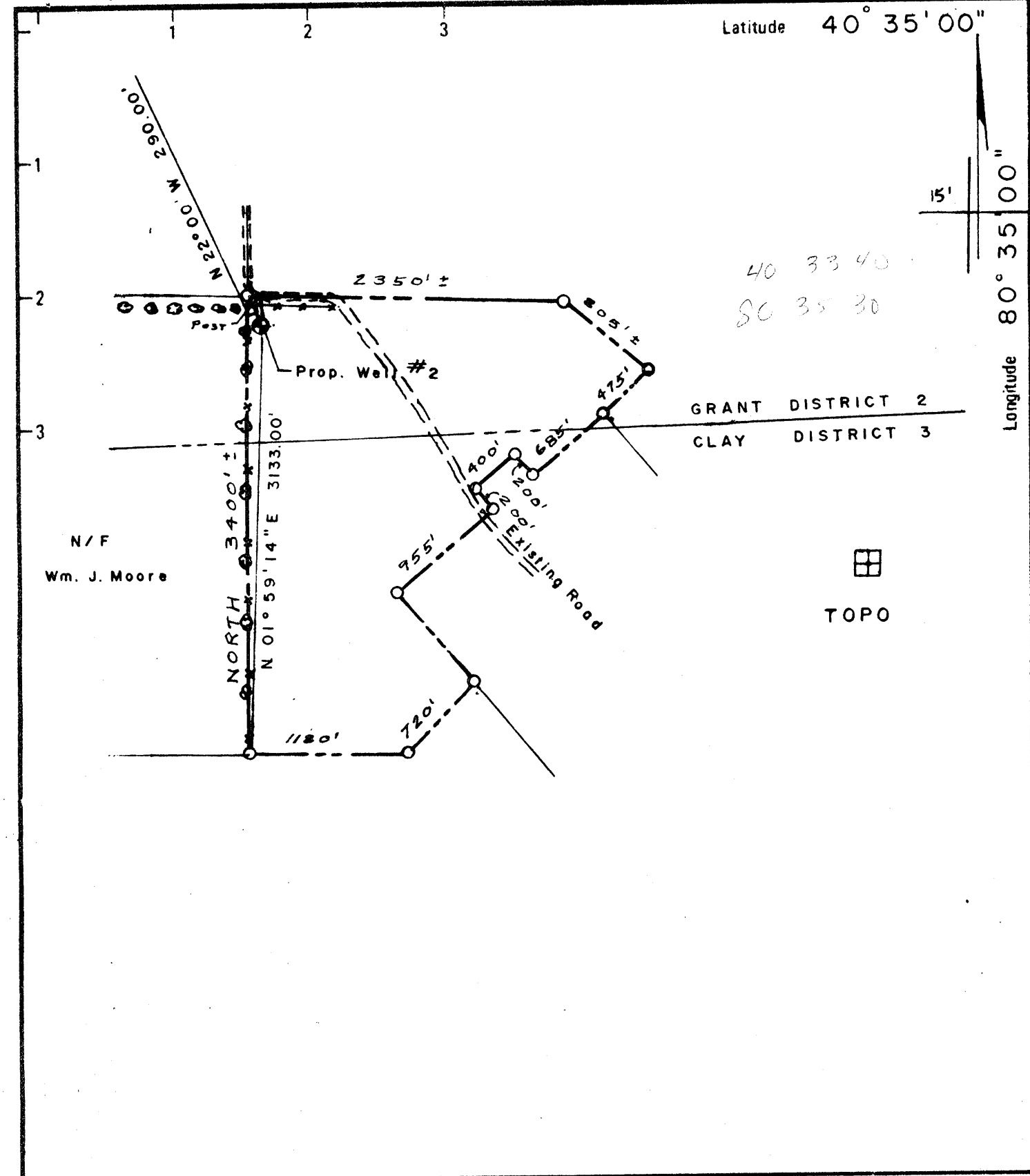
Company Globe Refractories, Inc.
 Address P.O. Box D, Newell, WV 26050
 Farm CAROL MURRAY
 Tract Acres 148.00 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 1170 WELLSVILLE 15'
 Quadrangle EAST LIVER POOL SOUTH 7 1/2 MIN. SC
 County HANCOCK District GRANT/CLAY
 Engineer J.R. GALES
 Engineer's Registration No. 5566
 File No. _____ Drawing No. _____
 Date 3-14-80 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 029-0091-RED

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

Latitude $40^{\circ} 35' 00''$



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 PART IN 2500
 Source of Elevation U.S.G.S. MAP 7 1/2 MIN. SERIES
John Robert Gales
 "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."

Company Globe Refractories, Inc.
 Address P.O. Box D, Newell, WV 26050
 Farm CARYL MURRAY
 Tract Acres 148.00 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 1170 WELLSVILLE 15'
 Quadrangle EAST LIVERPOOL SOUTH 7 1/2 MIN.
 County HANCOCK District GRANT/CLAY
 Engineer J.R. GALES
 Engineer's Registration No. 5566
 File No. _____ Drawing No. _____
 Date 3-14-80 Scale 1" = 1000'

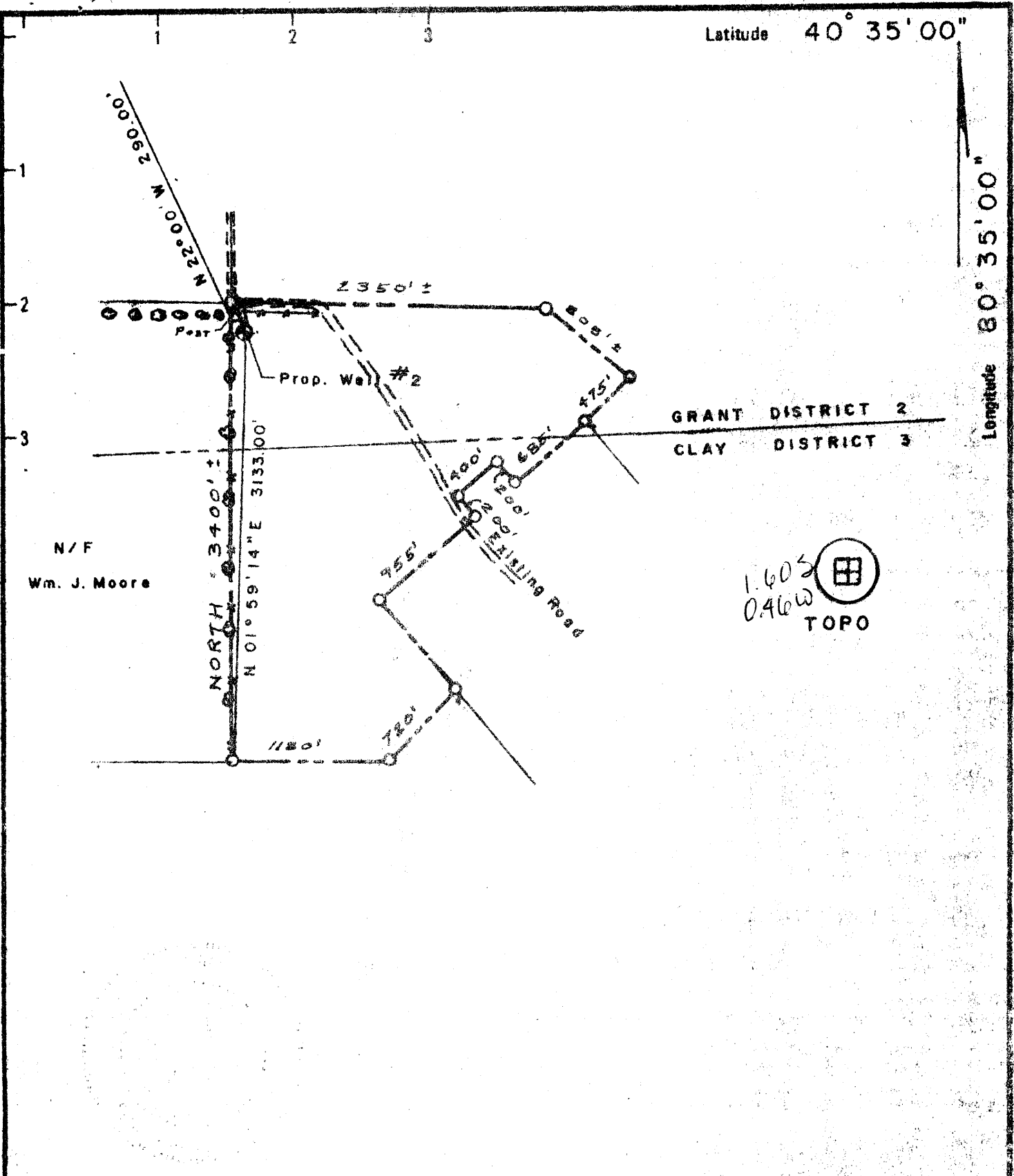
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. 029-0091-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

Latitude 40° 35' 00"

Longitude 80° 35' 00"



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 PART IN 2500
 Source of Elevation U.S.G.S. MAP 7 1/2 MIN. SERIES
John Robert Gales
 "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."

Company Globe Refractories, Inc.
 Address P.O. Box D, Newell, WV 26050
 Farm CARYL MURRAY
 Tract _____ Acres 148.00 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 1170
 Quadrangle EAST LIVERPOOL SOUTH 7 1/2 MIN. 50
 County HANCOCK District GRANT/CLAY
 Engineer J.R. GALES
 Engineer's Registration No. 5566
 File No. _____ Drawing No. _____
 Date 3-14-80 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 029-0091

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

RECEIVED
SEP 03 1981
W. VA. OIL & GAS
CONSERVATION COMMISSION

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

Quadrangle East Liverpool, South

Permit No. 47-029-0091

Company CE Globe Refractories
Address P.O. Box D, Newell, WV 26050
Farm Caryl E. Murray Acres 148
Location (waters) _____
Well No. 2 Elev. 1182.5 KB
District Clay County Hancock
The surface of tract is owned in fee by _____
Caryl E. Murray
Address R.D. #2, New Cumberland, WV 26047
Mineral rights are owned by Same
Address _____
Drilling Commenced 5/2/80 6/7/80
Drilling Completed 5/7/80 6/10/80
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	22'	22'	20 SKS Cement
9 5/8			
8 5/8	1120	1120	250 SKS
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

None

Temp. Abandoned 6/11/80

Coal was encountered at 135 Feet _____ Inches
Fresh water 60* Feet (*1" Stream or Less) Salt Water NA Feet
Producing Sand Onondaga - Oriskany Depth 5000 Ft.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand-Shale	Grey	Hard	0	1028		
Berea		Hard	1028	1080	Gas	
Shales	Grey & Black		1080	4751	Gas, Oil (Light condensate)	
Onondaga		Hard	4751	--		
			<u>TD 5000 ? Oriskany</u>			
			<u>log-Onon 4685</u>			

PTD on log 5101
LTD on log 5101
Kla 11/6/2006

RECEIVED
SEP 27 1980
5000 ft exploratory
AP 86
3/9/20 exploratory

OCT 10 1980



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 21 1980

Oil and Gas Division
OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Caryl E. Murray
Address R.D. #2, New Cumberland, WV 26047
Mineral Owner same
Address same
Coal Owner same
Address same
Coal Operator same
Address same

DATE February 27, 1980
Company Globe Refractories Inc.
Address P.O. Box D, Newell, WV 26050
Farm Caryl E. Murray Acres 148
Location (waters) _____
Well No. #2 Elevation 1170
District Clay County Hancock
Quadrangle East Liverpool South

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 11-24-80.

INSPECTOR
TO BE NOTIFIED Phillip Tracy
ADDRESS Middleburn, West Virginia
PHONE 304-758-4573

Robert L. [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 Sept. 27, 1979 by Caryl E. Murray made to Globe Refractories Inc. and recorded on the 30th day of Oct. 1979 in Hancock County, Book 18 Page 402

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 March 13, 1980 day _____ or 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,
(Sign Name) Globe Refractories Inc.
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 D
Street
Newell
City or Town
West Virginia 26050
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

47-029-0091

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 Richard W. [Signature]

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 _____ # 3101-State of WV
 ADDRESS _____ NAME Richard W. Lee Mine Supt. P.E.E.M.
 TELEPHONE _____ ADDRESS 434 Florida Ave., Chester WV
 ESTIMATED DEPTH OF COMPLETED WELL: 5,000' TELEPHONE 304-387-1160
 PROPOSED GEOLOGICAL FORMATION: Oriskany ROTARY X CABLE TOOLS _____
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT PUT UP OR SACKS - CUBIC FT.
20 - 16	30' then pulled		
11 3/4 250' *		250'	
9 - 5/8			
8 - 5/8 1,000' **		1,000'	
7			
5 1/2			
4 1/2 5,000'		5,000'	
3			
2 5,000'		5,000'	Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 300 FEET _____ SALT WATER 800 FEET _____
 APPROXIMATE COAL DEPTHS 200'
 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.

* or to protect nearby domestic water
 ** or thru berea sand

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

RECEIVED
OCT 27 1980

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE October 20, 1980

Surface Owner Caryl E. Murray Company Globe Refractories Inc.
 Address R.D. #2, New Cumberland, WV 26047 Address P.O. Box D, Newell, WV 26050
 Mineral Owner Same Farm Caryl E. Murray Acres 148
 Address Same Location (waters) _____
 Coal Owner Same Well No. #2 Redrill Elevation 1170
 Address Same District Clay County Hancock
 Coal Operator Same Quadrangle East Liverpool South
 Address Same

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 Redrilling. This permit shall expire if operations have not commenced by 6-28-81.

INSPECTOR
TO BE NOTIFIED Phillip Tracy

ADDRESS Middleburn, West Virginia

PHONE 304-758-4573

[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 Sept. 27, 1979 by Caryl E. Murray made to Globe Refractories, Inc. and recorded on the 30th day of Oct. 1979 in Hancock County, Book 18 Page 402

NEW WELL DRILL DEEPER X 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 March 13, 1980 day or 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:

Very truly yours,
(Sign Name) Globe Refractories Inc.
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 D
Street
Newell
City or Town
West Virginia 26050
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

47-029-0091-RED. 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 [Signature]

[Signature]

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. 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.

Caryl E. Murray
COAL OPERATOR OR OWNER
R.D. #2, Box 353, New Cumberland,
ADDRESS W. Va.
Same
COAL OPERATOR OR OWNER
Same
ADDRESS
Same
LEASE OR PROPERTY OWNER
Same
ADDRESS

Globe Refractories, Inc.
NAME OF WELL OPERATOR
P.O. Box D, Newell, W. Va. 26050
COMPLETE ADDRESS
#2, Murray Farm 1980
WELL AND LOCATION
Clay District
Hancock County
Well No. Han 91 P
Caryl E. Murray Farm

STATE INSPECTOR SUPERVISING PLUGGING Phillip Tracey

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Hancock } ss:

William A. Kennedy and Halliburton
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 Globe Refractories Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 11th day of June, 1980, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			CSG PULLED	CSG LEFT IN
FORMATION		SIZE & KIND		
<u>onondaga</u>	<u>cement on top of fish. Top of fish at 4609'. Cement</u>		<u>None</u>	
<u>marcellus</u>	<u>4615 to 4485' Halliburton 6/10/80</u>			
<u>Ohio shales</u>	<u>cement 3900-3800' Halliburton 6/10/80</u>			
	<u>cement 3490-3390' Halliburton 6/10/80</u>			
<u>Gordon Sand</u>	<u>cement 1609-1509' Halliburton 6/10/80</u>			
<u>Berea</u>	<u>Cement across casing shoe at 1122' from 1200' to 1100'</u>			<u>1122' of 8-5/8</u>
COAL SEAMS		DESCRIPTION OF MONUMENT		
(NAME)	<u>148-150 (2')</u>	<u>Metal cap screwed on</u>		
(NAME)	<u>352-354 (2')</u>	<u>8-5/8" Name tacked</u>		
(NAME) <u>#6</u>	<u>455-465 (1')</u>	<u>to cap</u>		
(NAME)	<u>538-540 (2')</u>			

and that the work of plugging and filling said well was completed on the 11th day of June, 1980.

And further deponents saith not.

Sworn to and subscribed before me this 2nd day of October, 1980.

My commission expires:
STEPHEN A. EYE
Notary Public - W. Virginia
My Commission Expires Feb. 5, 1990

William A. Kennedy
Stephen J. Eye
Notary Public.

Permit No. Han. 91-P
029