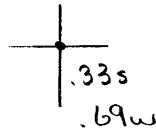


40°35'00"

Latitude



80°35'00"

Longitude

Topo Location

7.5' Loc. _____ 15' Loc. _____
 _____ (cale.) _____

Company Globe Refractories Inc

Farm William M Jenkins #10

15' Quad _____
(sec.)

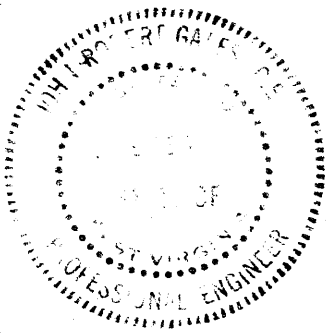
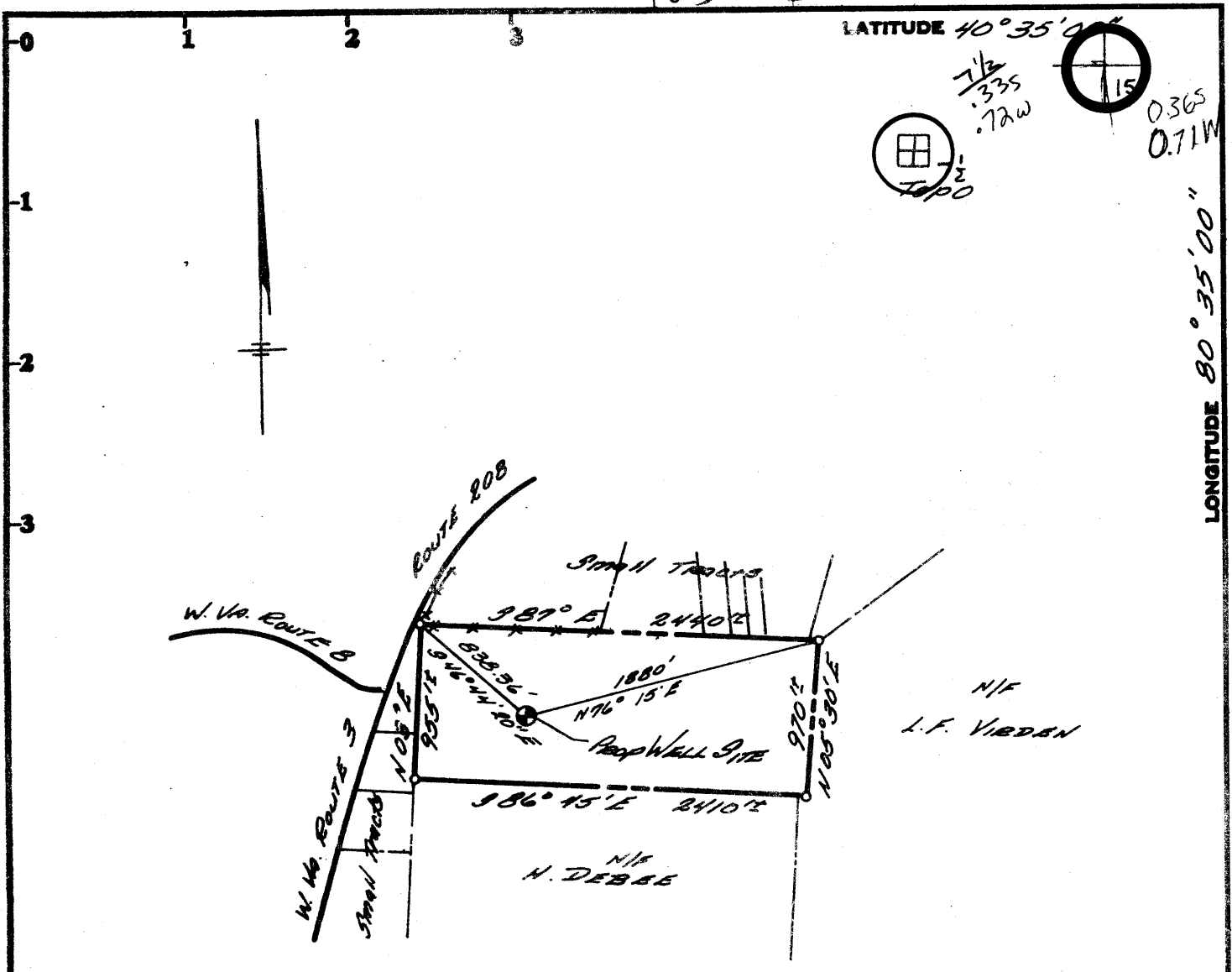
7.5' Quad East Liverpool South

District Grant

WELL LOCATION PLAT

County 029 Permit 98

100 8-6-80



Minimum Error of Closure 1 PART IN 2500

Source of Elevation U.S.G.S. MAP 7 1/2 MIN SERIES

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.

- Fracture
- New Location
- Drill Deeper
- Abandonment

Map No. _____ Signed: _____
Squares: N S E W

Company QUONZ REFRACTORIES INC.
 Address P.O. BOX D NEWELL W.VA. 26080
 Farm JENKINS
 Tract _____ Acres 52.5 Lease No. H-66
 Well (Farm) No. 10 Serial No. _____
 Elevation (Spirit Level) 1200 WELLSVILLE 15'
 Quadrangle EAST LIVERPOOL SOUTH (7th Ed) 5C
 County HANCOCK District GRANT
 Engineer J.B. GALES
 Engineer's Registration No. 5586
 File No. _____ Drawing No. _____
 Date 6/4/80 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. 029-0098

+ Denotes location of well on United States Topographic Maps, scale 1 to _____, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing. 5000 ORIGINAL



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE June 4, 1980
Company Globe Refractories, Inc.
Address P.O. Box D, Newell, WV 26050
Farm William M. Jenkins Acres 52.5
Location (waters) _____
Well No. #10 GRID-RR Elevation 1200
District Grant County Hancock
Quadrangle East Liverpool South

Surface Owner William M. Jenkins
Address R.D. #2, Box 319, New Cumberland WV 26047
Mineral Owner Same
Address Same
Coal Owner Virginia Marshall
Address Ridge Ave, New Cumberland, WV 26047
Coal Operator Same
Address Same

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 6-27-81

INSPECTOR TO BE NOTIFIED Phillip Tracy
ADDRESS Middleburn, West Virginia
PHONE 304-387-4573

J. H. Muzley
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 August 10, 1979 by William M. Jenkins made to Globe Refractories, Inc. and recorded on the 30th day of Oct. 1979 in Hancock County, Book 18 Page 226
 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 4th day June 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,
(Sign Name) Globe Refractories, Inc.
Well Operator
P.O. Box D
Street
Newell
City or Town
West Virginia 26050
State

RECEIVED JUN 10 1980

OIL & GAS DIVISION
DEPT. OF MINES

47-029-0098

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. Lee

**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: #3101-State of WV
 NAME _____ NAME Richard W. Lee Mine Supt. P.E.E.M.
 ADDRESS _____ ADDRESS 434 Florida Ave., Chester, WV
 TELEPHONE _____ TELEPHONE 304-387-1160
 ESTIMATED DEPTH OF COMPLETED WELL: 5,000'
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 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	30' then pulled		
11 3/4 250' *		250'	To Surface
9 - 5/8			
8 - 5/8 1,000 **		1,000'	To Surface
7			
5 1/2			
4 1/2 5,000'		5,000'	
3			
2 5,000'		5,000'	700 Sks. at as reqd. Perf. Top by sale 45.01
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