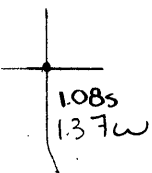


40°32'30"

Latitude

80°30'00"

Longitude



Topo Location

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

Company Globe Refractories Inc

Farm Faed B Hemphorn #1

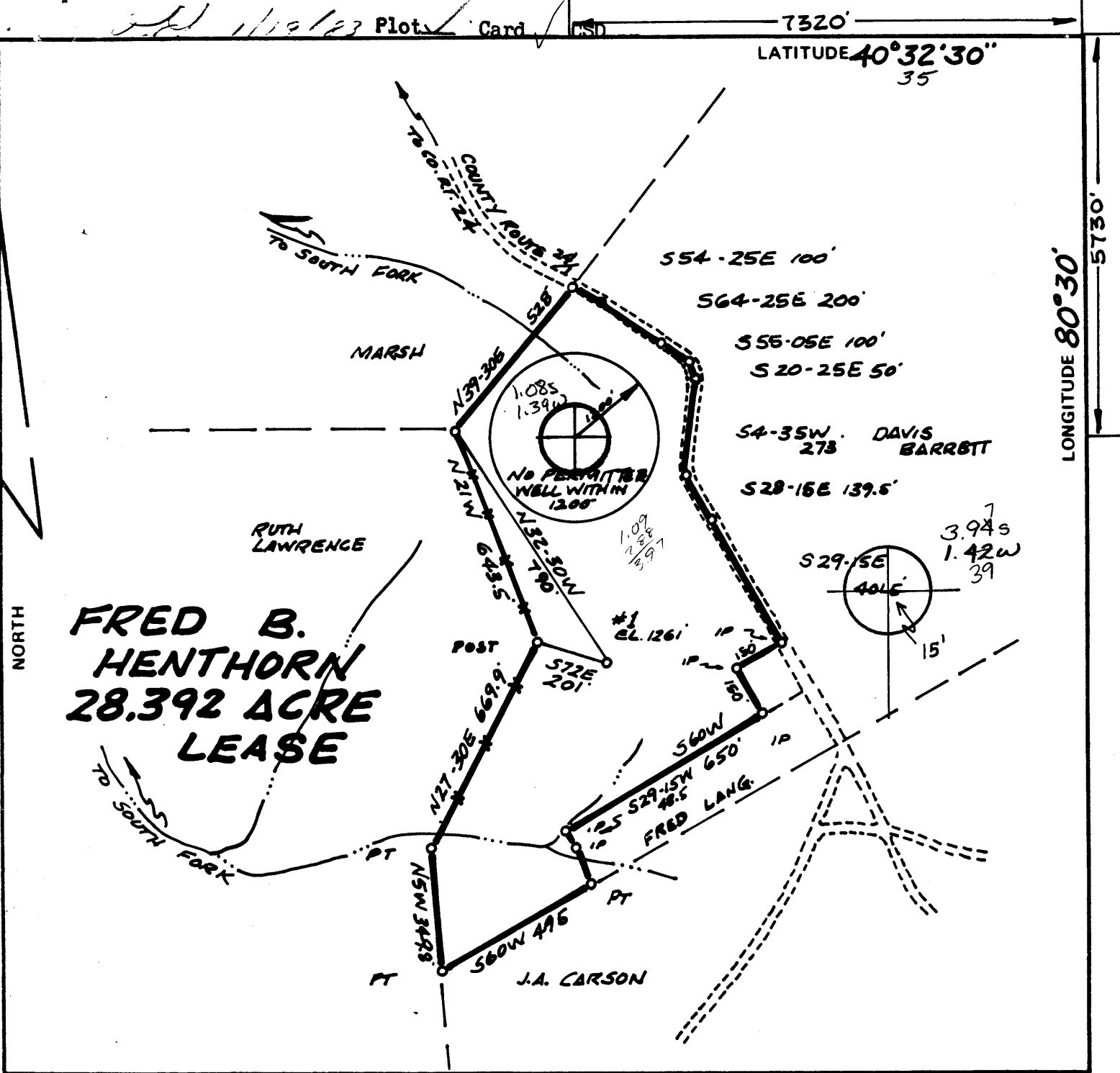
15' Quad _____
(sec.)

7.5' Quad East Liverpool South

District Clay

WELL LOCATION PLAT

County 029 **Permit** 107



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION RD. INT. EL. 1291

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) William J. Flosser
 R.P.E. _____ L.L.S. 551

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 18 JANUARY 19 83
 OPERATOR'S WELL NO. HENTHORN - 1
 API WELL NO. _____
47 - 029 - 0107
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1261' WATER SHED SOUTH FORK
 DISTRICT CLAY COUNTY HANCOCK
 QUADRANGLE ~~EAST LIVERPOOL SOUTH~~ Wellsville 15' SE
 SURFACE OWNER FRED B. HENTHORN ACREAGE 28.392
 OIL & GAS ROYALTY OWNER FRED B. HENTHORN LEASE ACREAGE 28.392
 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 BEREA ESTIMATED DEPTH 1800'
 WELL OPERATOR GLOBE REFRACTORIES, INC DESIGNATED AGENT PAULA LEE WILLIAMS JAN 24 1983
 ADDRESS P.O. BOX D ADDRESS ROUTE 1, BOX 269
NEWELL, W.VA. 26050 CHESTER, W.VA. 26034



1) Date: January 18, 19 83
2) Operator's Well No. Heathorn #1
3) API Well No. 47 029 0107
State County Permit

DRILLING CONTRACTOR:
S.O.N.A. Drilling
Fairmont, W. Va.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1201' Watershed: South Fork
District: Clay County: Hancock Quadrangle: East Liverpool
- 6) WELL OPERATOR Globe Refractories, Inc. 11) DESIGNATED AGENT Paula Lee Williams
Address P. O. Box 212 Address Route 21, Box 212
Newell, W. Va. 26050 Charter, W. Va. 26034
- 7) OIL & GAS ROYALTY OWNER F. B. Heathorn 12) COAL OPERATOR N/A
Address P. O. Box 212 Address
Newell, W. Va. 26050
- 8) SURFACE OWNER F. B. Heathorn 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Address P. O. Box 212 Name N/A
Newell, W. Va. 26050 Address
Acreage 29 Name
Address
- 9) FIELD SALE (IF MADE) TO:
Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Louther 14) COAL LESSEE WITH DECLARATION ON RECORD:
Address Middlebourne, W. Va. 26149 Name N/A
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, Gordon Sandstone
- 17) Estimated depth of completed well, 1600 feet
- 18) Approximate water strata depths: Fresh, 400 feet; salt, feet.
- 19) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No

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	<u>11-3/4</u>		<u>42#</u>	<u>X</u>		<u>30'</u>	<u>Pulled</u>		Kinds
Fresh water	<u>8-5/8</u>		<u>20#</u>	<u>X</u>		<u>1000'</u>	<u>1000'</u>	<u>To surface</u>	Sizes
Coal	<u>N/A</u>								Depths set
Intermediate	<u>N/A</u>								Perforations:
Production	<u>N/A</u>								Top Bottom
Tubing	<u>N/A</u>								
Liners	<u>N/A</u>								

- 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: _____ Signed: _____
My Commission Expires _____ Its: _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-029-0107 Date January 18, 1983

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 September 10, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.