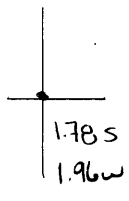


40°25'00"

Latitude

80°35'00"

Longitude



Topo Location

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

Company Weirton ST'L Div - Nat'l Steel Corp

Farm Half Moon, Nat'l Steel Corp

15' Quad _____
(sec.)

7.5' Quad Weirton

District Cross Creek

WELL LOCATION PLAT

County 009 Permit 78

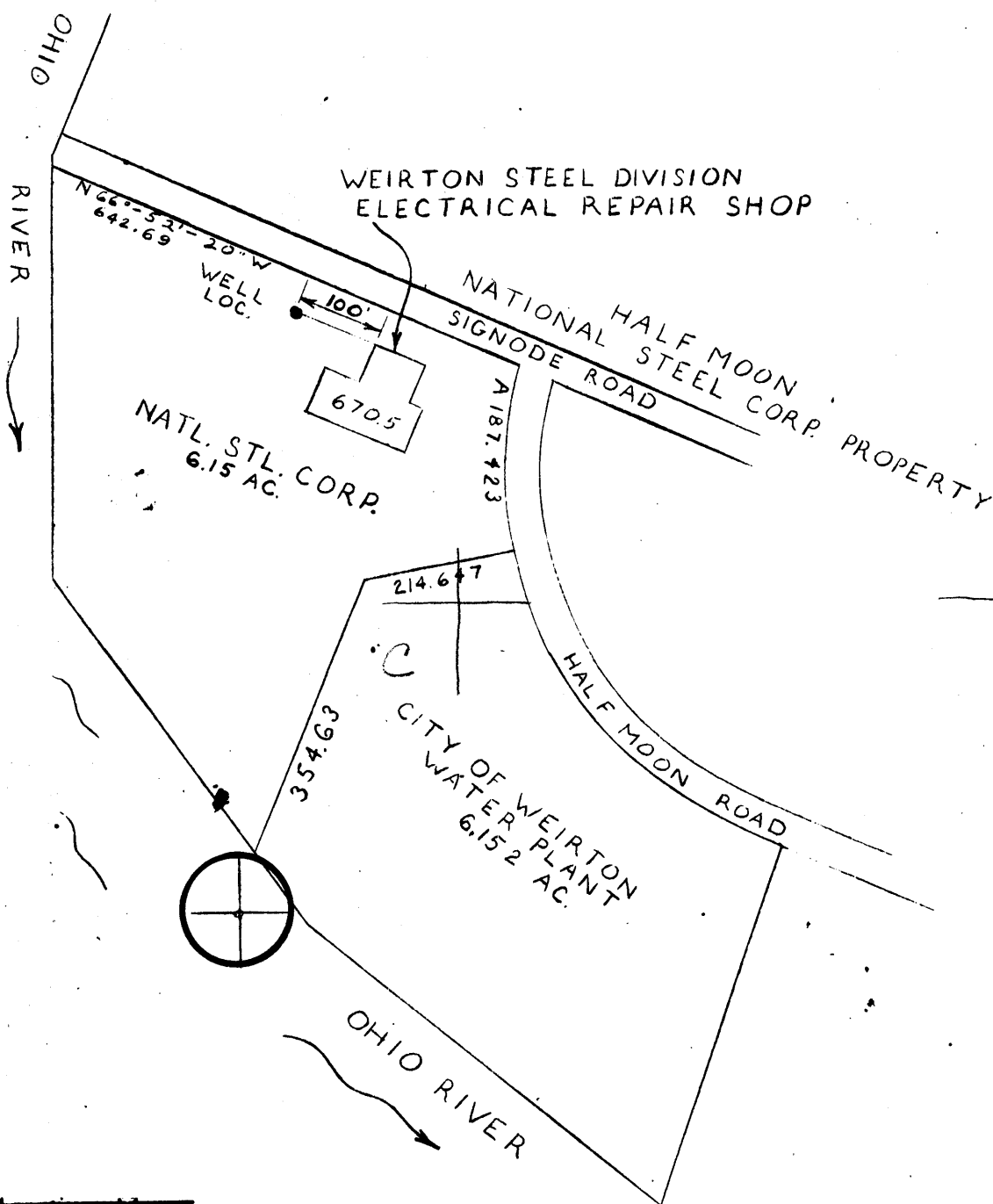
NE

1

2

3

Longitude 80° 30'



New Location X
 Drill Deeper
 Redrill
 Abandonment X

"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 WEIRTON STL. DIV. - NATL. STL. CORP.
 Address WEIRTON, W.VA. 26062
 Farm HALF MOON, NATL. STL. CORP.
 Tract/DINIACO Acres 6.15 Lease No.
 Well (Farm) No. HM-2 Serial No.
 Elevation (Spirit Level) ~~671.0~~ 732.8
 W.VA. - OHIO - PA.
 Quadrangle STEUBENVILLE **CYNE**
 County BROOKE District CROSS CREEK
 Engineer *J. J. Wargach*
 Engineer's Registration No. 2246
 File No. Drawing No.
 Date 10-29-75 Scale 1" = 200'

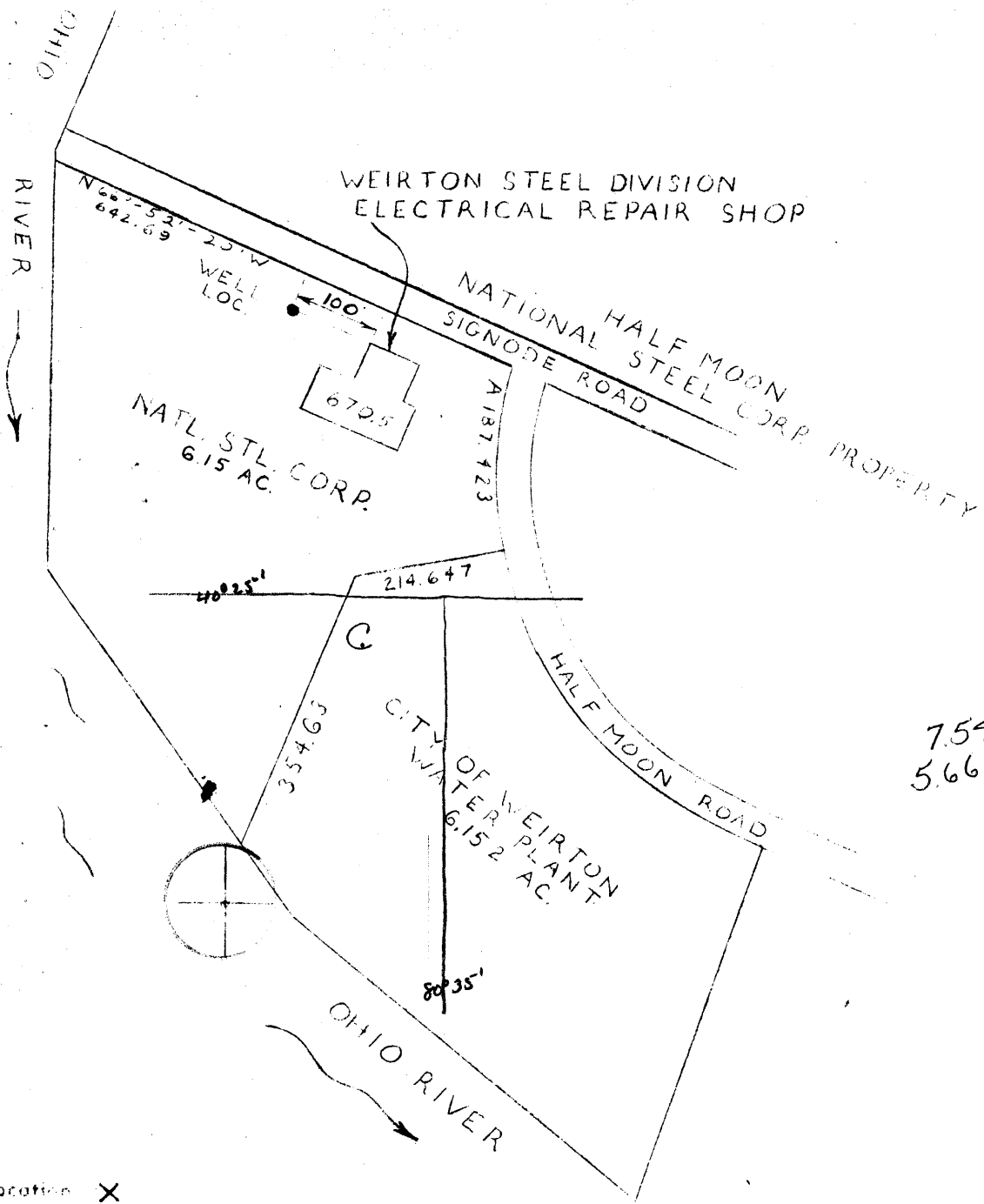
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. **BRO-78-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.

47-009



New Location X
 Drill Depth _____
 Redrill _____
 Abandonment _____

This map was prepared by the U.S. Geological Survey, Water Resources Division, under contract to the U.S. Army Corps of Engineers, Vicksburg District, Vicksburg, Mississippi. It is published as a public domain product of the U.S. Geological Survey, Reston, Virginia.

Company WEIRTON STL DIV - NATL STL CORP
 Address WEIRTON, WVA. 26062
 Form HALF MOON, NATL. STL. CORP
 Tract/DINACO Acres 6.15 Lease No. _____
 Well/Farm No. HM-2 Serial No. _____
 Elevation (Spine Level) ~~671.0~~ 732.8
 Quadrangle WVA - OHIO - PA. STEUBENVILLE **C/NE**
 County BROOKE District CROSS CREEK
 Engineer *W. J. ...*
 Engineer's Registration No. 2246
 File No. _____ Drawing No. _____
 Date 10-29-75 Scale 1" = 200'

STATE OF WEST VIRGINIA
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF WATER RESOURCES
 WATER LOCATION MAP
BRO-78 P

Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by bold lines as shown

Denotes one inch spaces on border line of original tracing

47-009 NOV 17 1975

1710 6-0 Hollidays Cove (10)



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SEP 2 1976

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Steubenville

Permit No. BRO-78

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

Company Weirton Steel - Div. Nat St Corp.
Address Weirton, W. Va. 26062
Farm Nat St Corp. (Half Moon) acres 6.15
Location (waters) Ohio River
Well No. 2 Elev. 732.8
District Cross Creek County Brooke
The surface of tract is owned in fee by _____
Company

Address _____
Mineral rights are owned by Company
Address _____
Drilling Commenced 10-4-75
Drilling Completed 11-10-75
Initial open flow -- cu. ft. -- bbls.
Final production NEG 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"			
9 5/8			
8 5/8			
7	154'	154'	70 sks
5 1/2			
4 1/2	--	735'	85 sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured in Squaw and Big Injun

Coal was encountered at 156-160, 184-188 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & River Gravel			0	110		
Sand			110	156		
Coal			156	160		
Sandy Shale			160	184		
Coal			184	188		
Sandy Shale			188	208		
Sand			208	251		
Shale			251	278		
Sand & shale			278	355		
Sand			355	396		
Sandy shale			396	466		
Sand			466	534		
Limey shale			534	588		
Sand (Injun)			588	700		
Sandy shale			700	828		
Sand (Weir)			828	832		
Sandy Shale			832	--		
Total Depth			--	863		

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 31 1975

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

Weirton Steel Division

Surface Owner National Steel Corporation

Address P.O. Box 431; Weirton, W. Va. 26062

Mineral Owner Weirton Steel Division

Address P.O. Box 431; Weirton, W. Va. 26062

Coal Owner Not Applicable

Address Not Applicable

Coal Operator Not Applicable

Address Not Applicable

DATE October 29, 1975

Weirton Steel Division

Company National Steel Corporation

Address P.O. Box 431; Weirton, W. Va. 26062

Farm National Steel Corp. Acres -

Location (waters) Ohio River

Well No. H.M.-2 Elevation 732.8

District Cross Creek County Brooke

Quadrangle W. Va.-Ohio-Pa.; Steubenville

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 3-3-76

Robert Howard
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Donald Conners
PH: 428-8172 ADDRESS Mineral Wells W.Va.

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 _____ 19____ by _____ made to _____ and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Very truly yours,

(Sign Name) [Signature] Well Operator

P. O. Box 431

Street

Weirton

City or Town

West Virginia

26062

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

Bro-78

PERMIT NUMBER

47-009

[Signature]

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR (If Known) RESPONSIBLE AGENT:
 NAME Paramount Exploration, Inc. NAME _____
 ADDRESS Box 330; Waynesburg, Pa. 15370 ADDRESS _____
 TELEPHONE Area Code 412 - 627-6144 TELEPHONE _____
 ESTIMATED DEPTH OF COMPLETED WELL: 1700' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Corda
 TYPE OF WELL: OIL _____ GAS 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			
7	200'	200'	Circulate
5 1/2			
4 1/2	1700'	1700'	Circulate
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150' FEET _____ SALT WATER _____ FEET _____

APPROXIMATE COAL DEPTHS Not Applicable

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