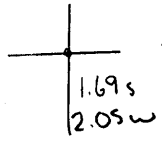


40°25'00"

Latitude

80°35'00"

Longitude



**Topo Location**

7.5' Loc. \_\_\_\_\_ 15' Loc. \_\_\_\_\_  
 \_\_\_\_\_ (calc.) \_\_\_\_\_

**Company** Wenton SP Div - Nat'l SLD Corp

**Farm** Half Moon / Wenton Steed # HM-1

**15' Quad** \_\_\_\_\_  
(sec.)

**7.5' Quad** Wenton

**District** Cross Creek

**WELL LOCATION PLAT**

**County** 009 **Permit** 76

0 1 2 3

Latitude 40 - 30

NE

1



Longitude 80 30

2

NATL. STL. CORP. PROPERTY

3

NATL. STL. CORP. PROPERTY

147'  
WELL LOC  
151.4'  
122.9'

WEIRTON STL. DIVISION  
HALF MOON WAREHOUSES  
FLOOR EL. 734.83

PLANT ROADWAYS  
S 1° 21' 03" E



- New Location  X
- Drill Deeper
- Redrill
- Abandonment  X

9/12/75

Company WEIRTON STL. DIV. - NATL. STL. CORP.

Address WEIRTON, W.VA. 26062

Farm HALF MOON, Weirton, Stl.

Tract Acres Lease No

Well Form No. HM - 1 Serial No

Elevation Spirit Lev. 732.8'

Quadrangle W.VA. - OHIO - PA. STEUBENVILLE 2/NE

County BROOKE District CROSS CRK.

Engineer J.J. Wargach

Engineer's Registration No. 2246

File No Drawing No

Date 8-1-75 Scale 1" = 200'

1700

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

REGULATORY DIVISION

WELL LOCATION MAP

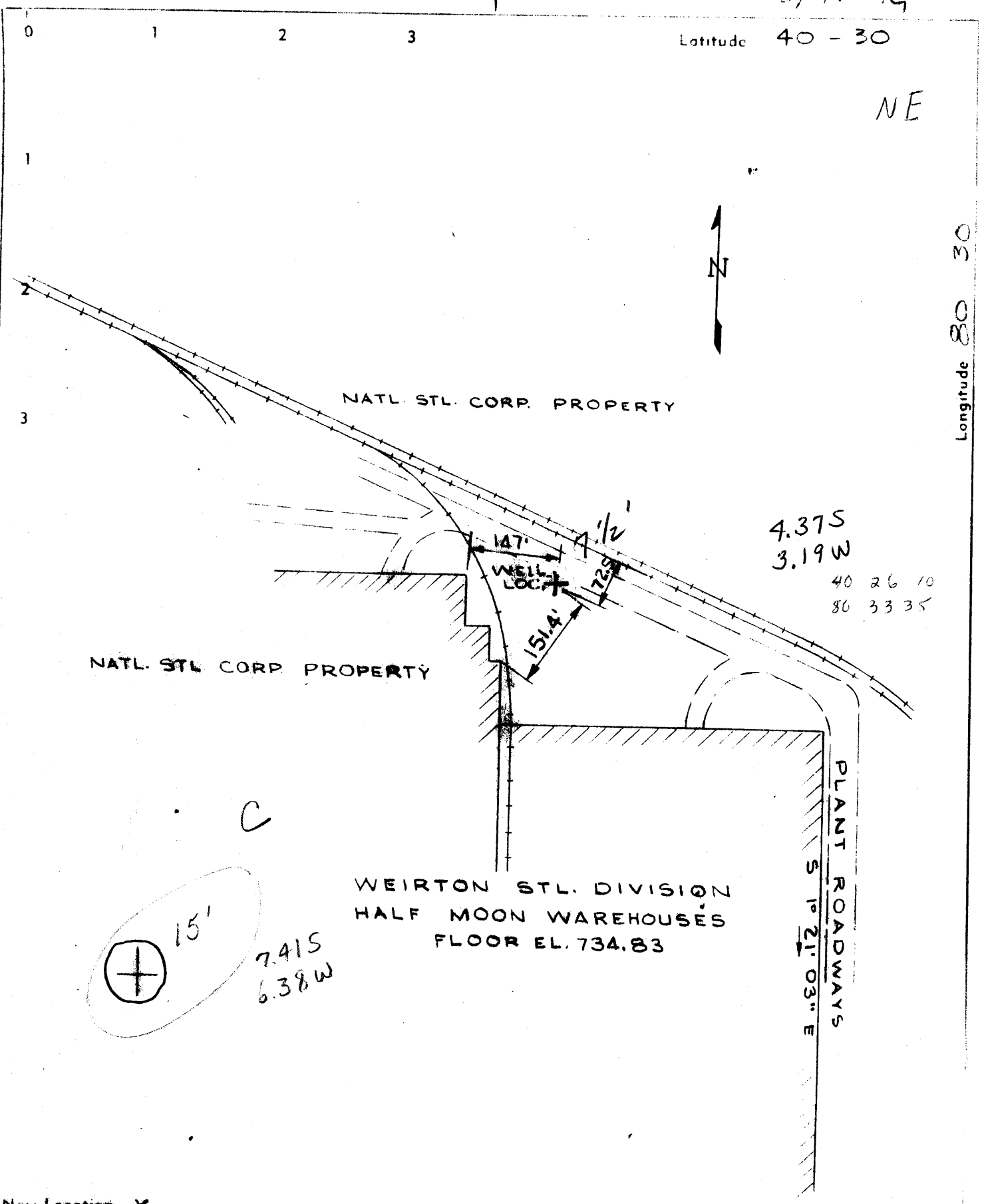
Bro-76-P

Denotes location of well in United States Topographic map scale 1" = 62,500' latitude and longitude lines being represented by border lines as shown

Denotes location of well in original tracing

MAR 29 1978

47-009



4.375  
3.19W  
40 26 10  
86 33 35

7.415  
6.38W

WEIRTON STL. DIVISION  
HALF MOON WAREHOUSES  
FLOOR EL. 734.83

New Location X  
Drill Deeper  
Redrill  
Abandonment

Company WEIRTON STL. DIV. - NATL. STL. CORP.  
Address WEIRTON, W.VA. 26062  
Farm HALF MOON, Weirton Stl.  
Tract Acres Lease No.  
Well (Farm No. HM - 1 Serial No.  
Elevation Spirit Level 732.8'  
Quadrangle W.VA. - OHIO - PA. STEUBENVILLE NE  
County BROOKE District CROSS CRK.  
Engineer J.J. Margach  
Engineer's Registration No 2246

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
HARRINGTON  
WELL LOCATION MAP  
FILED Bro.-76 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.

File No. Drawing No.  
Date 8-1-75 Scale 1" = 200'

47-009

1700 7-2 Turkey Foot (9)



**RECEIVED**

SEP 1 1976

OIL & GAS DIVISION  
DEPT. OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**Oil and Gas Division**

**WELL RECORD**

Quadrangle Stubenville

Permit No. BRO-76

Rotary x Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas x \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ Gas \_\_\_\_\_  
(Kind)

Company <u>Weirton Steel - Div. Nat. St. Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Weirton, W. Va. 26062</u>				
Farm <u>Nat. St. Corp., Half Moon</u> acres				
Location (waters) <u>Ohio River</u>				
Well No. <u>1</u> Elev. <u>740 EKB</u>	Size 20-16			
District <u>Cross Creek</u> County <u>Brooke</u>	Cond. 13-10"			
The surface of tract is owned in fee by _____	9 5/8			
<u>Nat. Steel Corp.</u>	8 5/8			
Address <u>Same</u>	7	198	198	50 sks.
Mineral rights are owned by _____	5 1/2			
Address _____	4 1/2	--	1732	200 sks.
Drilling Commenced <u>8-9-75</u>	3			
Drilling Completed <u>8-21-75</u>	* 1 1/2"	--	601	
Initial open flow <u>--</u> cu. ft. <u>--</u> bbls.	Liners Used			
Final production _____ cu. ft. per day _____ bbls.				
Well open _____ hrs. before test _____ RP.				

Well treatment details:

Attach copy of cementing record.

Frac. in several stringers below Gordon, Gordon, and Salt Sand.  
Production is from Salt Sand.

Tested 7-6-76

86 mcf 220#

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Salt Sand Depth + 584

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Gravel fill			0			
Trace coal						
Sandy Limestone & Shale				418		
Sand			418	474		
Shale & Sand			474	530		
Sand			530	564		
Shale			564	574		
Sand - <i>Salt</i>			574	588		
Shale			588	598		
Sand (Injun)			598	766		
Shale Sandy			766	1090		
Shale (coffee)			1090	1122		
Sand (Berea)			1122	1134		
Shale			1134	1140		
Sand			1140	1150		
Shale and Siltstone			1150	1452		
Shaley Sand ( <u>Gordon</u> )			1452	1461		
Shale silty & sandy			1461	--		
Total Depth			--	1730		

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

AUG 6 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 August 4, 1975  
Company Weirton Steel Division  
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.-1 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 12-7-75.

Robert L. Ford  
Deputy Director - Oil & Gas Division  
GENTLEMEN:

INSPECTOR TO BE NOTIFIED Richard J. Morris  
PH: 354-7259 ADDRESS Shantoville, W. Va. 26047

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.

Very truly yours,  
(Sign Name) [Signature]  
Well Operator

Address of Well Operator  
P. O. Box 431 Street  
Weirton City or Town  
West Virginia 26062 State

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505  
C 304-296-4461

\*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

Dist-76 PERMIT NUMBER  
47-009

