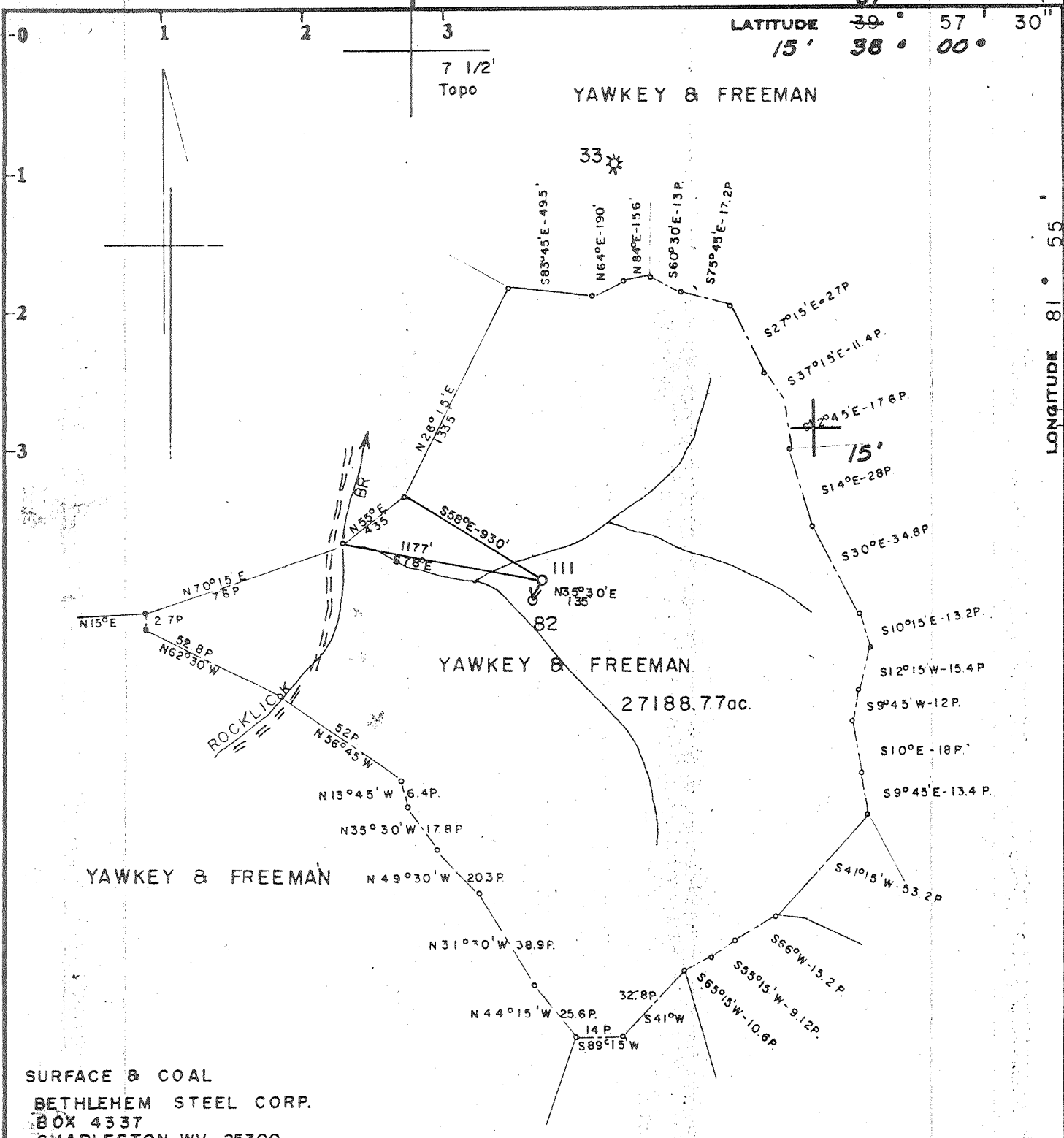


9300 37° 40' 11" N

LATITUDE 39° 57' 30" 15' 38" 00"

600

LONGITUDE 81° 55'



SURFACE & COAL
BETHLEHEM STEEL CORP.
BOX 4337
CHARLESTON WV 25300

Minimum Error of Closure 1 in 200

Source of Elevation YAWKEY & FREEMAN 82 abd El. 932.9ft

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

Signed: *Curtis A. Lucas*

Map No. 165W Squares: N S 101 E W 77

Company	PENNZOIL COMPANY		
Address	P. O. Box 1588, Parkersburg, W. Va. 26101		
Farm	YAWKEY & FREEMAN		
Tract	Acres	Lease No.	
	27188.77	73235-50	
Well (Farm) No.	111	Serial No.	
Elevation (Spirit Level)	938.10		
Quadrangle	HENLAWSON 7 1/2' Logan 15'		
County	LOGAN	District	CHAPMANVILLE
Surveyor	CURTIS A. LUCAS		
Surveyor's Registration No.	275		
File No.	816	Drawing No.	
Date	May 23, 1977 Scale 1" = 800'		

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

WELL LOCATION MAP
FILE NO. 47-045-0958-FRAC
FRAC CANCELLED

+ 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.

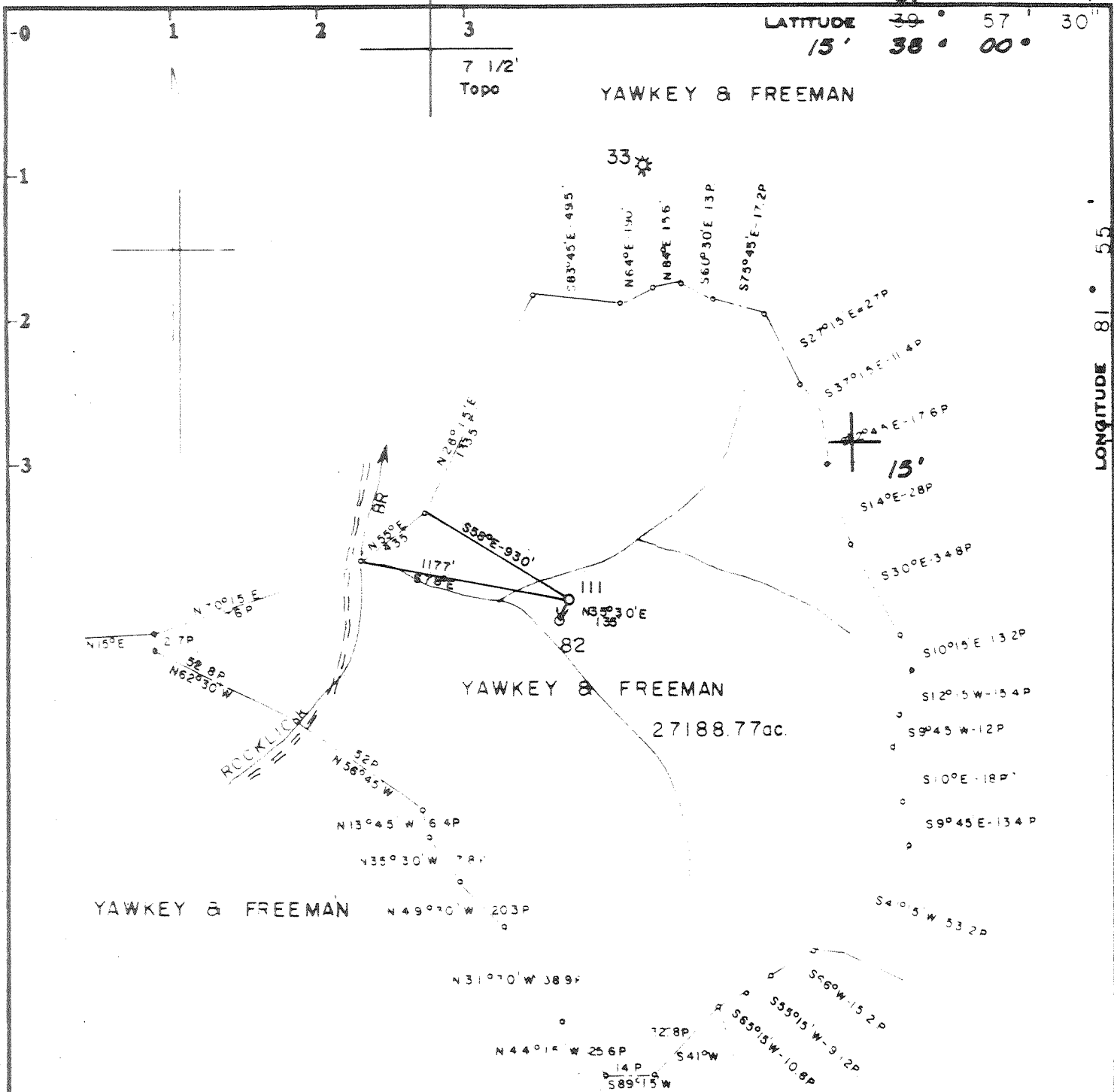
- Denotes one inch spaces on border line of original tracing.

4180' OISHANY DEEP WELL

LOG 0958 & 8560 507

BRUNING 44 131 27198

37° 58' 17" R



SURFACE & COAL
 BETHLEHEM STEEL CORP.
 BOX 4337
 CHARLESTON WV 25300

Minimum Error of Closure 1 in 200

Source of Elevation YAWKEY & FREEMAN 82abd El. 932.94

Fracture
 New Location
 Drill Deeper
 Abandonment

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.

Signed: *Curtis A. Lucas*

Map No. 165W Squares: N S 101 E W 77

Company	PENNZOIL COMPANY
Address	P. O. Box 1500, Parkersburg, W. Va. 26101
Farm	YAWKEY & FREEMAN
Tract	Acres <u>27188.77</u> Lease No. <u>73235-50</u>
Well Farm No.	<u>111</u> Serial No. _____
Elevation	Spirit Level <u>938.10</u>
Quadrangle	<u>HENLAWSON 7 1/2' Logan 15'</u>
County	<u>LOGAN</u> District <u>CHAPMANVILLE</u>
Surveyor	<u>CURTIS A. LUCAS</u>
Surveyor's Registration No.	<u>275</u>
File No.	<u>816</u> Drawing No. _____
Date	<u>May 23, 1977</u> Scale <u>1" = 800'</u>

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

WELL LOCATION MAP

FILE NO. **47-045-0958-FRAC**

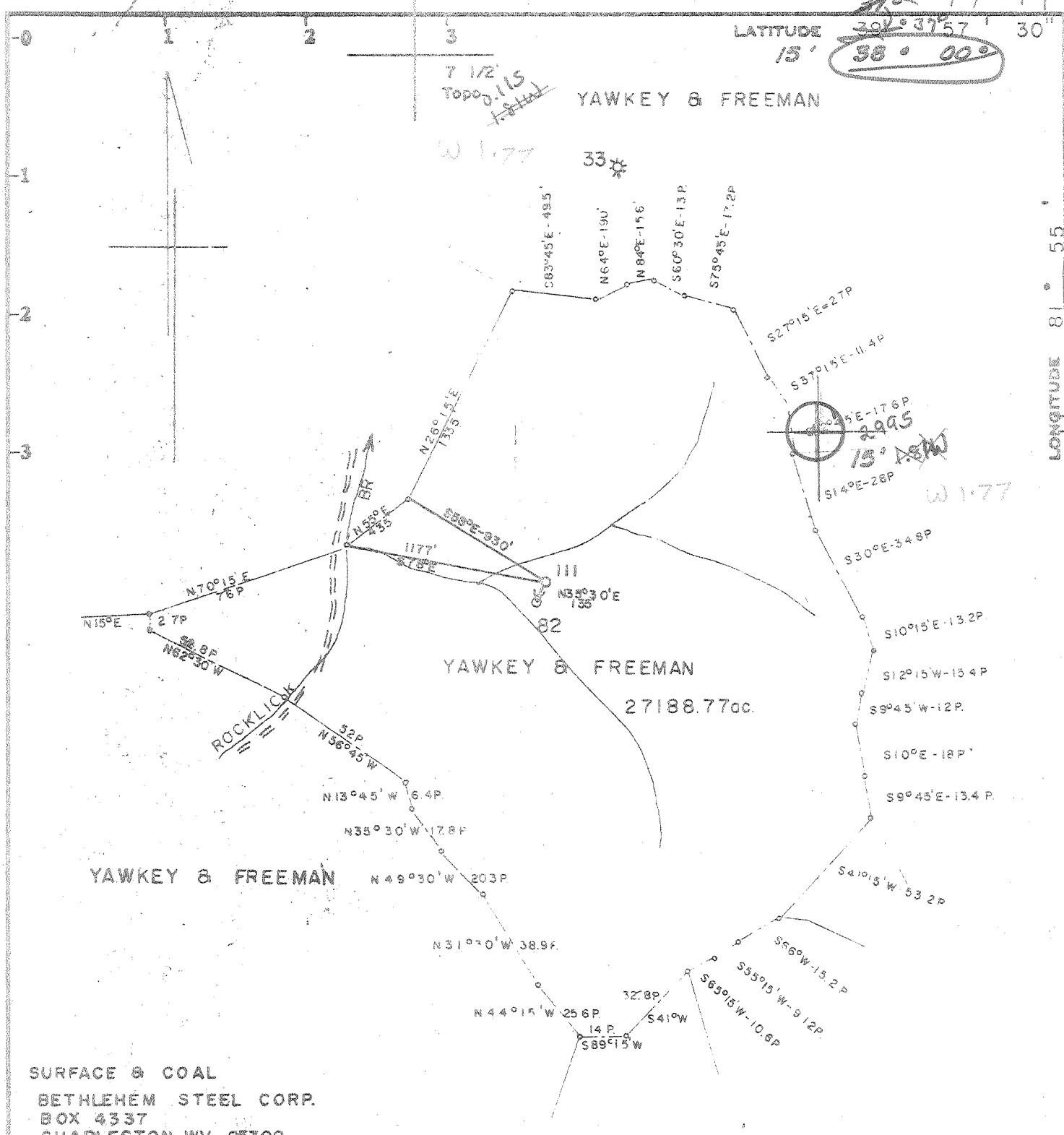
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

MAY 1 1977

4180' Dist 204

6/8/77 R



LATITUDE 39° 37' 57" 30" 15' 38° 00"

LONGITUDE 81° 55'

7 1/2' Topog. 115
W 1.77

W 1.77

YAWKEY & FREEMAN
27188.77ac.

SURFACE & COAL
BETHLEHEM STEEL CORP.
BOX 4337
CHARLESTON WV 25300

Minimum Error of Closure 1 in 200

Source of Elevation YAWKEY & FREEMAN 82 abd El. 932.94

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.

Signed: *Curtis A. Lucas*

Map No. 165W Squares: N S101 E W 77

- Fracture
- New Location
- Drill Deeper
- Abandonment

Company	PENNZOIL COMPANY		
Address	P. O. Box 1588, Parkersburg, W. Va. 26101		
Farm	YAWKEY & FREEMAN		
Tract	Acres	27188.77	Lease No. 73235-50
Well Farm No.	III	Serial No.	
Elevation (Spirit Level)	938.10		NW
Quadrangle	HENLAWSON 7 1/2' Logan 15'		
County	LOGAN	District	CHAPMANVILLE
Surveyor	CURTIS A. LUCAS		
Surveyor's Registration No.	275		
File No.	816	Drawing No.	
Date	May 23, 1977	Scale	1" = 800'

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

WELL LOCATION MAP
FILE NO. 47-045-0958-FRAC

+ 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.

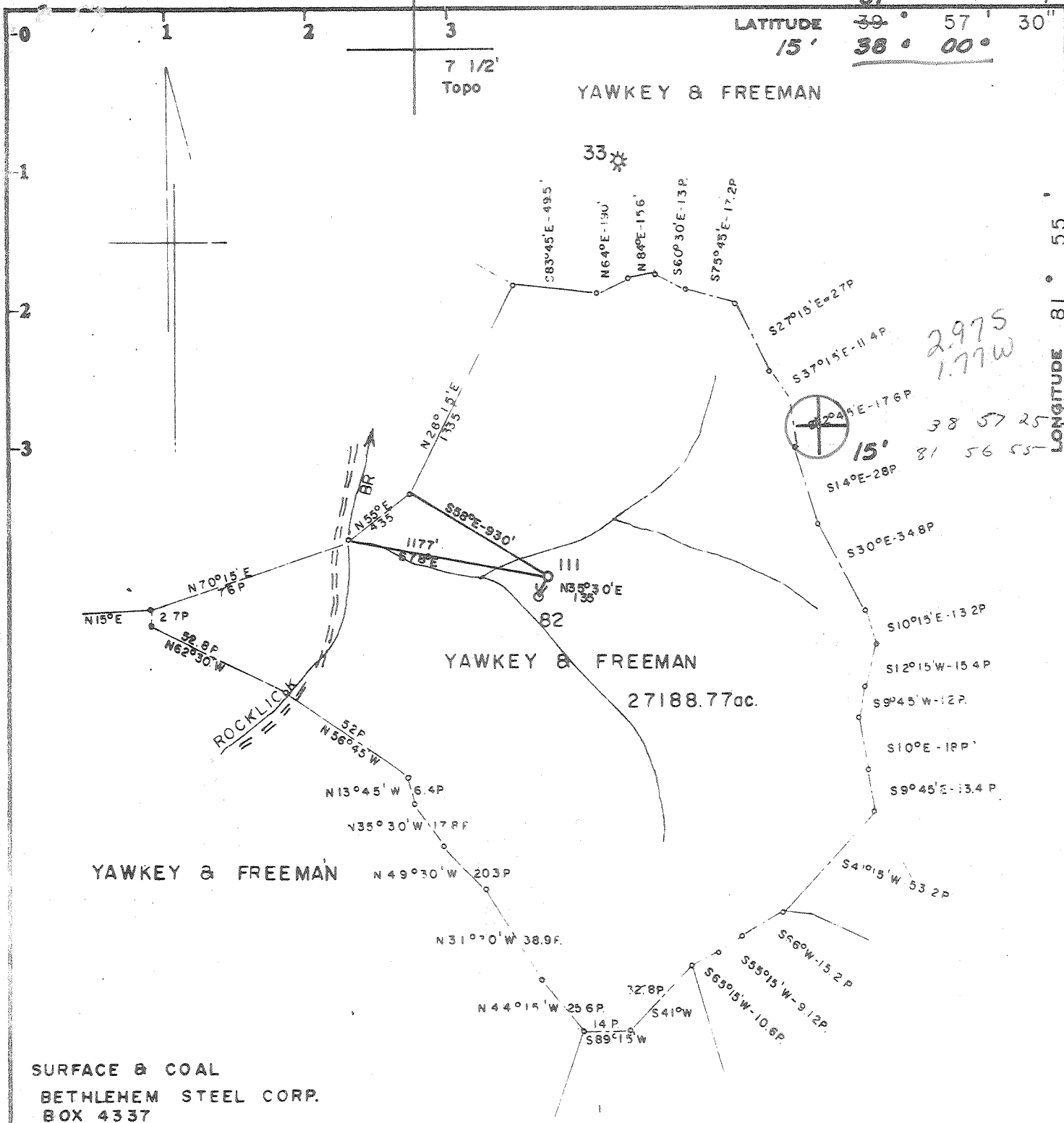
- Denotes one inch spaces on border line of original tracing.

JAN 10 1979

BRUNING 44131 27198

4180' Omskany DEEPWELL 3- Curry, Jeffrey (246)

37° 6/8/77 R



2.975
1.77W
38 57 25
81 56 55

SURFACE & COAL
BETHLEHEM STEEL CORP.
BOX 4337
CHARLESTON WV 25300

Minimum Error of Closure 1 in 200

Source of Elevation YAWKEY & FREEMAN 82 abd El. 932.94

- Fracture
- New Location
- Drill Deeper
- Abandonment

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.

Signed: *Curtis A. Lucas*

Map No. 165W Squares: N S101 E W 77

Company	PENNZOIL COMPANY		
Address	P. O. Box 1588, Parkersburg, W. Va. 26101		
Farm	YAWKEY & FREEMAN		
Tract	Acres	Lease No.	27188.77 73235-50
Well (Farm) No.	III	Serial No.	
Elevation (Spirit Level)	938.10		NW
Quadrangle	HENLAWSON 7 1/2' Logan 15'		
County	LOGAN	District	CHAPMANVILLE
Surveyor	CURTIS A. LUCAS		
Surveyor's Registration No.	275		
File No.	816	Drawing No.	
Date	May 23, 1977 Scale 1" = 800'		

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

WELL LOCATION MAP
FILE NO. LOG-958

+ 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.

47-045

JUN 21 1977

DEEP WELL 4180' CHISHANG 3-0 CURRY JEFFREY

246

BRUNING 44 134 2719B



NOV 22 1977

RECEIVED

DEC - 8 1978

NOV 3 - 1977 OFFICE COPY

STATE OF WEST VIRGINIA GAS DIVISION
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 25

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

Quadrangle Henlawson Qd.
Permit No. Log-958

Company PENNZOIL COMPANY
Address P. O. Box 1588, Parkersburg, W. Va.
Farm Yawkey-Freeman Acres 27,188.77
Location (waters) Lick Br. of Garrett Fork
Well No. 111 Elev. 938.10'
District Guyan County Logan
The surface of tract is owned in fee by _____
Bethlehem Steel Corp.
Address P.O.Box 4337, Charleston, W. Va.
Mineral rights are owned by Wm. A. Gardner
Address Suite 100, 5330 S. Third St
Louisville, KY.
Drilling Commenced 6-23-77
Drilling Completed 7-4-77
Initial open flow 19,000 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"	52	52	60 sks.
9 5/8	412	412	300 sks.
8 5/8			
7	2029	2029	120 sks.
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details: 7-2-77 Shot w/18,050# 80% nitroglycerin gel 2326-4135' w/8000# pea gravel--detonated
Shut in without pipeline connection

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Shale -> Onondaga Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	10		
Sand			10	46		
Shale			46	162		
Sand			162	226		
Shale			226	248		
Sand			248	458		
Shale			458	472		
Sand			472	498		
Shale			498	550		
Sand			550	568		
Shale			568	596		
Salt Sand			596	686		
Shale			686	691		
Salt Sand			691	776		
Shale			776	966		
Sand			966	986		
Shale			986	1112		
Sand			1112	1130		
Shale			1130	1137		
Little Lime			1137	1192		
Pencil Cave			1192	1196		
Big Lime			1196	1383		
McCrary Shale			1383	1435		
Big Injun			1435	1477		

(over)

* Indicates Electric Log tops in the remarks section.

over

5/12/83

Formation	Color	Hard or Soft	Top Feet = 5	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			1477	1555		
Wier			1555	1610		
Shale			1610	1911		
Coffee Shale			1911	1934		
Berea			1934	1955		
Shale			1955	3990		
Marcellus Shale			3990	4018		
<u>Onondaga Lime</u>			4018	4135		
Total Depth				<u>4135</u>		

Date November 2, 1977

APPROVED PENNZOIL COMPANY

By Curtis A. Huser
(Title)



RECEIVED

NOV 3 - 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 25

Quadrangle Henlawson Qd.

Permit No. Log-958

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

Company <u>PENNZOIL COMPANY</u>	Casing and Tubing <u>26101</u>	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 1588, Parkersburg, W. Va.</u>	Size <u>20-16</u>			
Farm <u>Yawkey-Freeman</u> Acres <u>27,188.77</u>	Cond. <u>13-10"</u>	52	52	60 sks.
Location (waters) <u>Lick Br. of Garrett Fork</u>	<u>9 5/8</u>	412	412	300 sks.
Well No. <u>111</u> Elev. <u>938.10'</u>	<u>8 5/8</u>			
District <u>Guyan</u> County <u>Logan</u>	<u>7</u>	2029	2029	120 sks.
The surface of tract is owned in fee by _____	<u>5 1/2</u>			
<u>Bethlehem Steel Corp.</u>	<u>4 1/2</u>			
Address <u>P.O.Box 4337, Charleston, W. Va.</u>	<u>3</u>			
Mineral rights are owned by <u>Wm. A. Gardner</u>	<u>2</u>			
Address <u>Suite 100, 5330 S. Third St</u>	Liners Used			
Drilling Commenced <u>6-23-77</u> <u>Louisville, KY.</u>				
Drilling Completed <u>7-4-77</u>				
Initial open flow <u>19,000</u> cu. ft. _____ bbls.				
Final production _____ cu. ft. per day _____ bbls.				
Well open _____ hrs. before test _____ RP.				

Well treatment details: 7-2-77 Shot w/18,050# 80% nitroglycerin gel 2326-4135' w/8000# pea gravel--detonated
Shut in without pipeline connection

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Shale Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	10		
Sand			10	46		
Shale			46	162		
Sand			162	226		
Shale			226	248		
Sand			248	458		
Shale			458	472		
Sand			472	498		
Shale			498	550		
Sand			550	568		
Shale			568	596		
Salt Sand			596	686		
Shale			686	691		
Salt Sand			691	776		
Shale			776	966		
Sand			966	986		
Shale			986	1112		
Sand			1112	1130		
Shale			1130	1137		
Little Lime			1137	1192		
Pencil Cave			1192	1196		
Big Lime			1196	1383		
McCrary Shale			1383	1435		
Big Injun			1435	1477		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			1477	1555		
Wier			1555	1610		
Shale			1610	1911		
Coffee Shale			1911	1934		
Berea			1934	1955		
Shale			1955	3990		
Marcellus Shale			3990	4018		
<u>Onondaga Lime</u>			4018	4135		
Total Depth				4135		

4018
 - 934

 3084

Date November 2, 1977

APPROVED PENNZOIL COMPANY Officer

By Curtis A. Ruess
 (Title)



1) Date: April 16, 19 84
 2) Operator's Well No. Yawkey-Freeman #111
 3) API Well No. 47 - 045 - 0958-FRAC
 State County Permit

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

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 938.10 Watershed: Lick Branch of Garrett Fork
 District: Chapmanville County: Logan Quadrangle: Henlawson
 6) WELL OPERATOR Pennzoil Company 7) DESIGNATED AGENT James A. Crews
 Address P. O. Box 1588 Address P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Arthur St. Clair Name _____
 Address P. O. Box 157 Address _____
Brenton, W. Va. 24818
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
 12) Estimated depth of completed well, 4135 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

RECEIVED
 APR 19 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

15) 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	13"						52'		60 SKS.	Kinds
Fresh water	9 5/8"						412'		300 SKS.	
Coal										Sizes
Intermediate	7"						2029		120 SKS.	Depths set
Production Tubing										
Liners	4-1/2"	K55	9.5	X		1979	-	3500	Cemented into 7" csg.	Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-045-0958 Date May 4, 1984

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires May 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond	Agent	Plat:	Casing	Fee
<u>Blanket</u>	<u>ls</u>	<u>MH</u>	<u>T-5</u>	<u>17465</u>

[Signature]
 Administrator, Office of Oil and Gas



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
DEC - 8 1978
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 7, 1978

Surface Owner Bethlehem Steel Corp.

Company PENNZOIL COMPANY

Address P. O. Box 4337, Charleston, WV 25304

Address P. O. Box 1588, Parkersburg, WV 26101

Mineral Owner Wm. A. Gardner

Farm Yawkey-Freeman Acres 27,188.77

Address Suite 100, 5330 S. Third St., Louisville

Location (waters) Lick Br. of Garrett Fork

Coal Owner Ky.

Well No. 111 Elevation 938.10'

Address _____

District Guyan County Logan

Coal Operator Bethlehem Steel Corp.

Quadrangle Henlawson 7.5'

Address J. F. Wildey, Mgr.

Address P. O. Box 4337

THIS PERMIT MUST BE POSTED AT THE WELL SITE
Charleston, WV 25304

All provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
for fracturing. This permit shall expire if
operations have not commenced by 4-23-79

INSPECTOR Arthur St. Clair

TO BE NOTIFIED _____

ADDRESS Brenton, W.Va.

PHONE 732-6227

Robert T. Bell
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 December 10, 1919 by Yawkey & Freeman Coal Co. made to South Penn Oil Co. and recorded on the _____ day of _____ 19____, in _____ County, Book 5 Page 427
_____NEW WELL _____DRILL DEEPER _____REDRILL X _____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, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours, PENNZOIL COMPANY
(Sign Name) Curtis A. Lucas
Well Operator Curtis A. Lucas,
Civil Eng. Dept.
P. O. Box 1588
Street
Parkersburg,
City or Town
West Virginia 26101
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

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 _____ NAME Pennzoil Company
 ADDRESS _____ ADDRESS Parkersburg, West Virginia 26101
 TELEPHONE _____ TELEPHONE 422-6565
 ESTIMATED DEPTH OF COMPLETED WELL: 4135 ROTARY _____ CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Shale
 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 - 7/8		52'	
9 - 5/8		412'	
8 - 5/8			
7		2029'	
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? yes 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



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 May 23, 1977

Surface Owner Bethlehem Steel Corporation

Company PENNZOIL COMPANY

Address J. F. Wildey, Mgr., P. O. Box 4337

Address P. O. Box 1588, Parkersburg, W. Va.

Mineral Owner Wm. A. Gardner Charleston, W. Va.

Farm Yawkey - Freeman Acres 27,188.77

Address Suite 100, 5330 S. Third Street,

Location (waters) Rock Lick Branch of Garrett Fork

Coal Owner Louisville, Ky.

Well No. 111 Elevation 938.10'

Address _____

District Chapmanville County Logan

Coal Operator Bethlehem Steel Corporation

Quadrangle Henlawson 7 1/2'

Address J. F. Wildey, Mgr.

Address P. O. Box 4337

Charleston, W. Va.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, INSPECTOR
of the W. Va. Code, the location is hereby approved TO BE NOTIFIED

Arthur St. Clair

for drilling. This permit shall expire if
operations have not commenced by 10-8-77

ADDRESS Brenton, W. Va.

PHONE 732-6227

GENTLEMEN Deputy Director - Oil & Gas Division

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 December 10, 1919 by Yawkey & Freeman Coal Co. made to South Penn Oil Co. and recorded on the _____ day of _____ 19____, in _____ County, Book 5 Page 427

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, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, PENNZOIL COMPANY

(Sign Name) Curtis A. Lucas
Well Operator Curtis A. Lucas,
Civil Eng. Dept.

Address P. O. Box 1588
of _____
Well Operator _____
Parkersburg,
City or Town _____
West Virginia 26101
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

LOG-958

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 Curtis A. Lucas

47-045

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 Ray Bros. _____ NAME Pennzoil Company _____
 ADDRESS _____ ADDRESS Parkersburg, West Virginia 26101 _____
 TELEPHONE _____ TELEPHONE 422-6565 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4180' _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany _____
 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	440'	440'	Cement to surface
8 - 5/8			
7	2026'	2026'	75 sks.
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners 5-1/2" slotted		2005' to 4180'	Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? Yes _____ 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