

H D 3/3/80

FORM IV-2
(Obverse)

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

Date: March 3, 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 1-1359

API Well No. 47-061-0409
State County Perm

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /)

LOCATION: Elevation: 1208 Watershed: Wades Run
District: Cass County: Monongalia Quadrangle: Blacksville NE

WELL OPERATOR Carnegie Natural Gas Co.
Address 3904 Main St.
Munhall, Pa. 15120

DESIGNATED AGENT J. C. Stephenson
Address PO Drawer No. 387
Mannington, WV 26582

OIL & GAS ROYALTY OWNER Willis Raber
Address Maidsville, W. Va. 26541
Acreage 64.05

COAL OPERATOR Christopher Coal Co.
Address: Pursglove, W. Va. 26546
Consolidation Coal Co.
Northern Div., Morgantown, WV
26505

SURFACE OWNER Willis Raber
Address Maidsville, W. Va. 26541
Acreage 64.05

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name William Blosser
Address Colfax, W. Va. 26566

RECEIVED
MAR - 6 1980
OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated July 3, 1925, to the undersigned well operator from T. R. & Belle Raber

[If said deed, lease, or other contract has been recorded:]
Recorded on July 3, 1925, in the office of the Clerk of the County Commission of Monongalia County, West Virginia, in Deed Book 205 at page 130. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) Assigned to Carnegie Natural Gas Co.
by J. A. Phillips, Assignment No. 1482, Deed Book 205, Page 154, July 20
1925.
--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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.

11/24/2023

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Carnegie Natural Gas Company
Well Operator

By James C. Stephenson
Div. Supt.

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Carnegie Natural Gas Company
Address PO Drawer No. 387
Mannington, W. Va. 26582

GEOLOGICAL TARGET FORMATION, Bayard Sand

Estimated depth of completed well, 3000 feet Rotary / Cable tools X /
Approximate water strata depths: Fresh, feet; salt, 1361 feet.
Approximate coal seam depths: 447-462 **Is coal being mined in the area?** Yes / No X

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		
Conductor	10"						495'	Kinds
Fresh water								
Coal								Sizes
Intermediate	6-5/8						1702'	Squeezed with 200 bags' cement
Production	4-1/2	K-55	10.50	X		3000'	3000'	Depths set
Tubing								
Liners								Perforations:
								Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

THIS PERMIT MUST BE POSTED AT THE WELL SITE
A separate Form IV-2 will be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling deeper. This permit shall expire if operations have not commenced by 11-14-80.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

11/24/2023

Date: , 19

By
Its

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

RECLAMATION PLAN

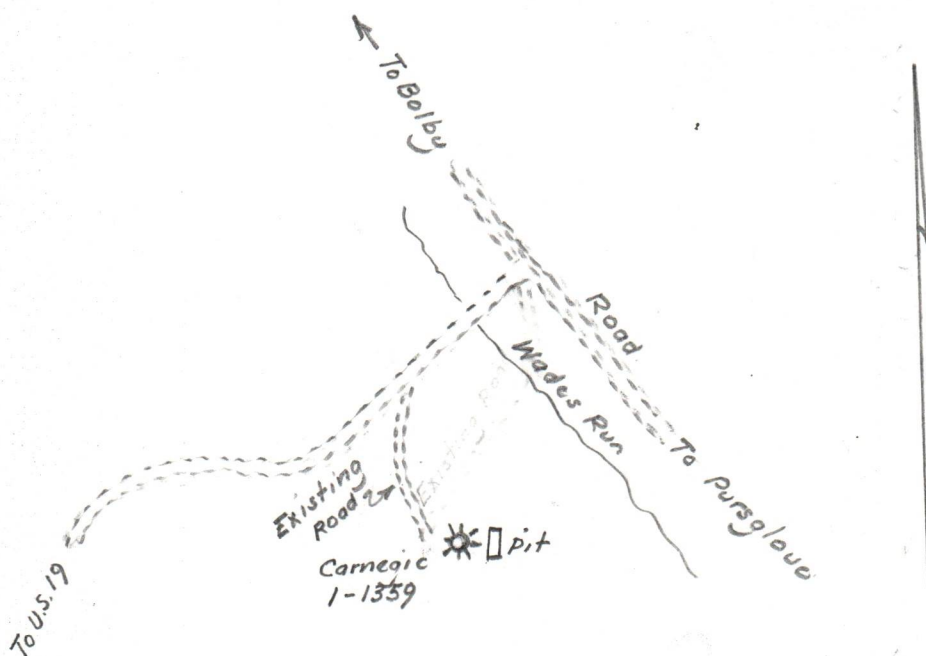
WELL OPERATOR Carnegie Natural Gas Co.
Address 3904 Main St.
Munhall, Pa. 15120

DESIGNATED AGENT J. C. Stephenson, Div. Supt.
Address PO Drawer No. 387
Mannington, WV 26582

The well operator hereby agrees to carry out the reclamation requirements of Code § 22-4-12b in the manner set out below.

This plan has / has not X / been reviewed with the district oil and gas inspector.

SKETCH: (Locate and show the (1) well location, (2) existing access road, (3) access road to be constructed, (4) well site, (5) drilling pit(s), and (6) necessary drainage features, including drains (natural and manmade), silt traps, etc.)



STATEMENT OF RECLAMATION PLAN (Complete on reverse side if necessary)

After completion of drilling deeper and fracturing well, location will be graded and sowed down with grass seed and mulched where necessary. Top soil will be removed and stored at beginning of construction, then put back on location after rough grading is completed with mulch and grass seed.

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MAR - 6 1980

OIL & GAS DIVISION
DEPT. OF MINES

Carnegie Natural Gas Company
Well Operator James C. Stephenson 11/24/2023

By James C. Stephenson
Its Div. Supt.

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

Date May 27, 19 80

FORM IV-35
(Obverse)

Raber

Operator's Well No. 1-1359

[08-78]

WELL OPERATOR'S REPORT OF

API Well No. 47 - 061 - 0409
State County Permit

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1208' Watershed: Wades Run
District: Cass County: Monongalia Quadrangle: Blacksville NE

WELL OPERATOR Carnegie Natural Gas Company DESIGNATED AGENT J. C. Stephenson
Address 3904 Main St. Address PO Drawer No. 387
Munhall, Pa. 15120 Mannington, WV 26582

PERMITTED WORK: Drill ___ / Convert ___ / Drill deeper X / Redrill ___ / Fracture or stimulate X
Plug off old formation ___ / Perforate new formation ___
Other physical change in well (specify) _____

PERMIT ISSUED ON March 6, 19 80

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name William Blosser
Address Colfax, WV 26566

GEOLOGICAL TARGET FORMATION: Bayard Sand Depth 3000 feet

Depth of completed well, 2981 feet Rotary ___ / Cable Tools X

Water strata depth: Fresh, ___ feet; salt, ___ feet.

Coal seam depths: ___ Is coal being mined in the area? No

Work was commenced Feb. 20, 19 80, and completed Apr. 28, 19 80

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		
Conductor								Kinds
Fresh water								
Coal								Sizes
Intermediate								
Production Tubing	4.5	K55	10.50	X		2960	2960	60 sacks
Liners								Perforations:
								Top Bottom
								2905 2935

OPEN FLOW DATA

Producing formation Bayard Sand Pay zone depth 2906-2944 feet

Gas: Initial open flow, 3 Mcf/d Oil: Initial open flow, ___ Bbl/d

Final open flow, 25.8 Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, ___ hours

Static rock pressure, 700 psig (surface measurement) after 66 hours shut in

11/24/2023

[If applicable due to multiple completion--]

Second producing formation ___ Pay zone depth ___ feet

Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d

Final open flow, ___ Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, ___ hours

Static rock pressure, ___ psig (surface measurement) after ___ hours shut in

OIL & GAS DIVISION
DEPT. OF MINES

JUN 19 1980

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforations: 2905-2935' - 16 shots - 3-1/2" Glass Strip

Fractured: 10,000# 80/100 Sand
 30,000# 20/40 Sand
 559 Bbls. of water
 1,000 Gals. of 15% Acid to breakdown.

WELL LOG

FORMATION	Color	Hard or Soft	¹⁸ Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Total Depth				2370	
50' Sand	White		2370	2397	
Shale	L. Gray		2397	2412	
30' Sand	White		2412	2456	
Shale	L. Gray		2456	2508	
Red Rock	Red		2408	2513	
Gritty Lime & Sand	D. Gray		2513	2566	
Red Rock	Red		2566	2691	
Gritty Lime	D. Gray		2691	2700	
Sand	D. Gray		2700	2727	
Gritty Lime	D. Gray		2727	2785	
Red Rock	Red		2785	2792	
Sand	White		2792	2816	
Shale	L. Gray		2816	2843	
Sand	White		2843	2866	
Red Rock	Red		2866	2879	
Gritty Lime & Sand	D. Gray		2879	2890	
Sand	White		2890	2933	
Shale	Black		2933		
Total Depth				2981	

(Attach separate sheets to complete as necessary)

Carnegie Natural Gas Company
 Well Operator
 By Robert J. Ludwig
 Its Sr. Geologist

11/24/2023

NOTE: Regulation 2.01(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

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

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APR - 9 1980

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. MON-409-DD

Oil or Gas Well _____
(KIND)

Company Carnegie Natural Gas Company

Address Munhall, Pennsylvania

Farm T.E. and Belle Raber

Well No. 1-1359

District Cass County Monongalia

Drilling commenced _____

Drilling completed _____ Total depth 2763'
Caved back to 2653'

Date shot _____ Depth of shot _____
Drilling at 2700'

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

Drillers' Names Rex Mason Eugene Myers

CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Remarks:
Contractor, Carnegie Natural Gas Co.

April 7 1980
DATE

William J. Blosser 11/24/2023
DISTRICT WELL INSPECTOR
William Blosser

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

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MAY - 8 1980

OIL & GAS DIVISION
INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. MON-409-DD

Oil or Gas Well _____
(KIND)

Company <u>Carnegie Natural Gas Company</u> Address <u>Munhall, Pennsylvania</u> Farm <u>T. E. And Belle Baber</u> Well No. <u>1-1359</u> District <u>Cass</u> County <u>Monongalia</u> Drilling commenced _____ Drilling completed _____ Total depth <u>2981'</u> <u>Completed, Preparing to Frac.</u> Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
	Size			
	16			Kind of Packer _____
	13			
	10			Size of _____
	8 1/4			
	6 3/8			Depth set _____
	5 3/16			
	3 4 1/2	2960'	60 sacks	Perf. top _____
	2			Perf. bottom _____
Liners Used			Perf. top _____	
			Perf. bottom _____	
CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____ NAME OF SERVICE COMPANY _____ COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES _____ FEET _____ INCHES				

Drillers' Names _____

Remarks: _____

Contractor Carnegie Natural Gas Co.

May 6 1980
DATE

William J. Bloss 11/24/2023
DISTRICT WELL INSPECTOR

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

INSPECTOR'S WELL REPORT

Permit No. 061-409-DD

Reclamation Inspection

Oil or Gas Well _____
KIND:

Company <u>Carnegie Natural Gas Company</u>	CASING AND TUBING	USED IN DRILLING	Left in well	PACKERS
	Address <u>Munhall, Pennsylvania</u>	Size		
Farm <u>T.E. & Belle Raber</u>	16 _____			Kind of Packer _____
Well No. <u>1-1359</u>	13 _____			
District <u>Cass</u> County <u>Monongalia</u>	10 _____			Size of _____
Drilling commenced _____	8 1/4 _____			
Drilling completed _____ Total depth _____	6 3/4 _____			Depth set _____
Date shot _____ Depth of shot _____	5 3/16 _____			
Initial open flow _____ /10ths Water in _____ Inch	3 _____			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2 _____			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

Partially reclaimed, More dozer work and seeding needed,
no I.D. on well

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FEB 24 1981

OIL & GAS DIVISION
DEPT. OF MINES

February 23, 1981
DATE

William J. Blosser #502
William J. Blosser
DISTRICT INSPECTOR



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AUG 28 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
July 27, 1984

COMPANY Carnegie Natural Gas Co.

PERMIT NO 061-0409-DD (3/14/80)

800 Regis Avenue

FARM & WELL NO Willis Raber #1-1359

Pittsburgh, Pennsylvania 15236

DIST. & COUNTY Cass/Monongalia

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED *Donald R. Ellis*

DATE 8-21-84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. ...

Administrator-Oil & Gas Division

September 13, 1984

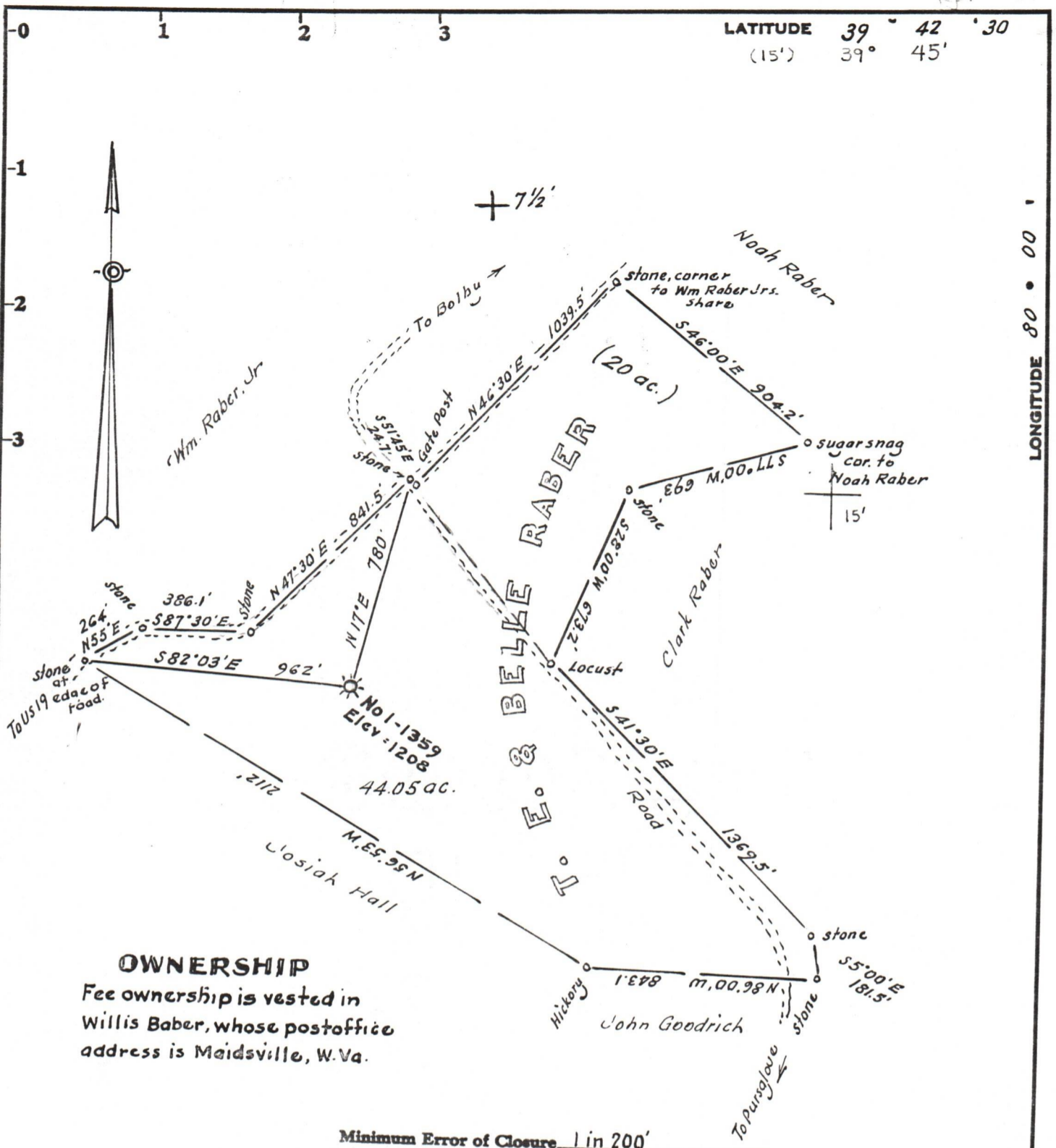
TMS/chm

DATE

11/24/2023

3.34

44 31380



OWNERSHIP
 Fee ownership is vested in
 Willis Baber, whose postoffice
 address is Maidsville, W. Va.

Minimum Error of Closure 1 in 200'
 Source of Elevation Elev. Well No. 1 - Susan Belle Waters -
3/4 mile south = 1205

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: W. Steel J.
 Squares: N S E W

Map No. _____

Company	CARNEGIE NATURAL GAS CO.
Address	<u>Munhall, Penna.</u>
Farm	<u>T. E. & Belle Raber</u>
Tract	Acres <u>64.05</u> Lease No. <u>12014</u>
Well (Farm) No.	<u>One</u> Serial No. <u>1359</u>
Elevation (Spirit Level)	<u>1208</u>
Quadrangle	<u>Osgoe 7 1/2</u> <u>Blacksville 15</u>
County	<u>Monongalia</u> District <u>Cass</u>
Engineer	<u>W. Steel J.</u>
Engineer's Registration No.	<u>1227</u>
File No.	_____ Drawing No. _____
Date	<u>February 29, 1980</u> Scale <u>1" = 500'</u>

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

WELL LOCATION MAP
 FILE NO. 061-0409 DD

11/24/2023

+ 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.

3000' BAYARD SAND