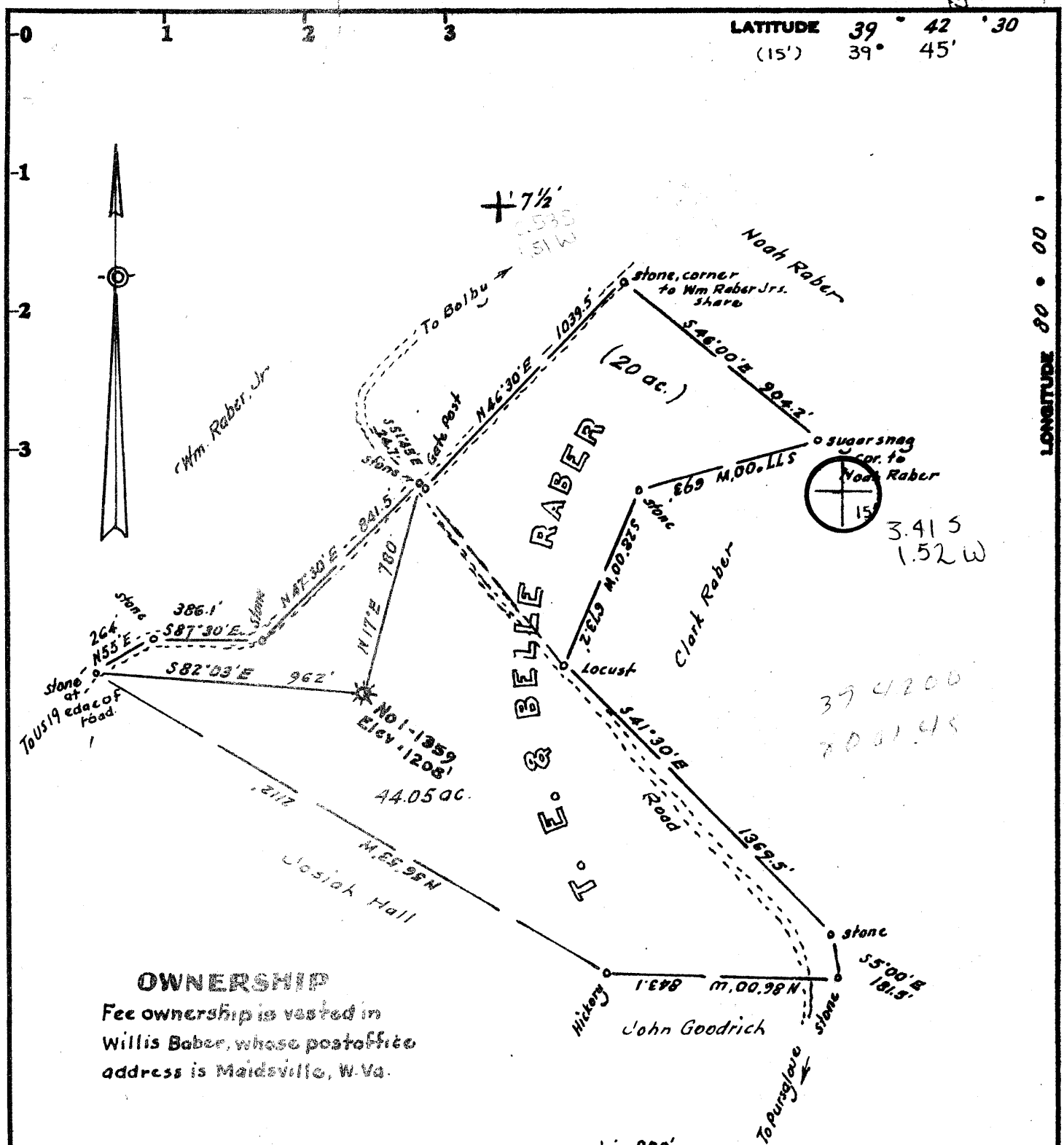


112 3138

LATITUDE 39° 42' 30"
(15') 39° 45'

LONGITUDE 80° 00'



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

- 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: W. Stettin

Map No.

Squares: N S E W

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

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

WELL LOCATION MAP

FILE NO. 061-0409-00

+ 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.

3-3 3000' BAYARD SAND
 CASSVILLE BOWLBY

68
 MAR 31 1980

FORM IV-35
(Obverse)

Raber

Operator's Well No. 1-1359

WELL OPERATOR'S REPORT OF

API Well No. - 061 - 0409
State County Permit

108-78,

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 / Re-drill ___ / Fracture or stimulate X
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

PERMIT ISSUED ON March 6, 1980 OIL & GAS INSPECTOR FOR THIS WORK:
Name William Blosser
IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____
Address Colfax, WV 26566
_____, 19____

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, 1980, and completed Apr. 28, 1980

CEMENTING AND TUBING PROGRAM

CEMENTING 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									Kinds
Casing water									
Production									Sizes
Intermediate									Depth set
Log	4.5	K55	10.50	X		2960	2960	60 sacks	
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, ___ Mcf/d
Final open flow, 25.8 Mcf/d Final open flow, ___ Mcf/d
Time of open flow between initial and final tests, ___ hours
Static rock pressure, 700 psig (surface measurement) after 66 hours shut in

[If applicable due to multiple completion--]

Second production formation _____ Pay zone depth _____ feet
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Mcf/d
Final open flow, ___ Mcf/d Final open flow, ___ Mcf/d

OIL & GAS DIVISION Time of open flow between initial and final tests, ___ hours
E.P.T. DEPT. OF MINES Static rock pressure, ___ psig (surface measurement) after ___ hours shut in
JUL 25 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 <i>BAYARD</i>	White		2890	2933	
Shale	Black		2933		
Total Depth				2981	2981 2370 <hr/> 611 DD 27.

(Attach separate sheets to complete as necessary.)

Carnegie Natural Gas Company

Well Operator

By *Robert S. Ludwig*

Its Sr. Geologist

NOTE: Regulation 1.01(f) 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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 1-1359

API Well No. 47-061-040
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.
Mumhall, 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

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

ACREAGE 64.05
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 _____
MAR - 6 1980

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

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.

PLEASE SUBMIT COPIES OF ALL
PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1016 WASHINGTON STREET EAST
CHARLESTON, WV 25311

TELEPHONE: (304) 344-3092

Carnegie Natural Gas Company
Well Operator

BLANKET BOND

By James C. Stephenson
Div. Supt.

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 /

Approximate water strata depths: Fresh, _____ feet; salt, 1361 feet.

Approximate coal seam depths: 447-462 Is coal being mined in the area? Yes / No /

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	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. No permit is 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 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.

Robert T. Hill

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.

Date: _____, 19____

By _____
Its _____