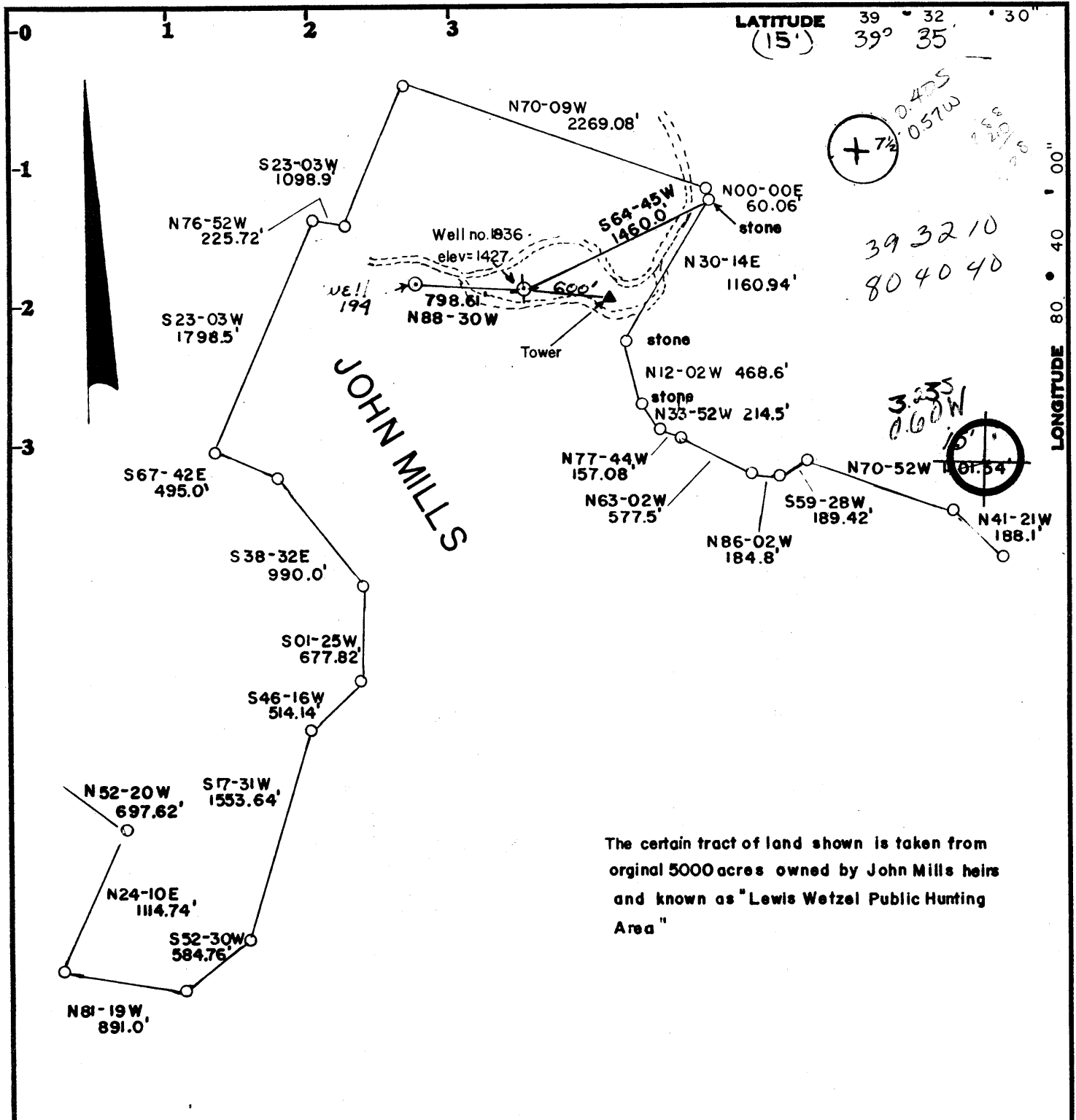


Plot Card CSD 7-35

77



0.475
0.057W
39 32 10
80 40 40
3.235
0.00W

The certain tract of land shown is taken from original 5000 acres owned by John Mills heirs and known as "Lewis Wetzel Public Hunting Area"

Minimum Error of Closure 1 in 200'
Source of Elevation TAKEN FROM TOWER, ELEVATION = 1462'

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: Walter G. Gilbertson
Squares: N S E W

Map No.

Company CARNEGIE NATURAL GAS
Address MUNHALL, PENNSYLVANIA
Farm LEWIS WETZEL PUBLIC HUNTING AREA (JOHN MILLS)
Tract _____ Acres 5,000 Lease No. 3476
Well (Farm) No. 2-1836 Serial No. 1836
Elevation (Spirit Level) 1427' LITTLETON SW
Quadrangle PINE GROVE 7 1/2'
County WETZEL District GREEN
Engineer Walter G. Gilbertson
Engineer's Registration No. C.E. 5112
File No. _____ Drawing No. _____
Date August 9, 1980 Scale 1" = 1000'

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

WELL LOCATION MAP
103-1194
FILE NO. _____

+ 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.

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

Date: Nov. 4, 19 80

FORM IV-35
(Obverse)

Operator's
Well No. 2-1836

[08-78]

WELL OPERATOR'S REPORT *is*
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 103 - 1194
State County Permit

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

LOCATION: Elevation: 1427' Watershed: Fishing Creek
District: Green County: Wetzel Quadrangle: Pine Grove 7.5

WELL OPERATOR Carnegie Natural Gas Company DESIGNATED AGENT J. C. Stephenson, Div. Supt
Address 3904 Main St. Address Mannington, WV 26582
Munhall, Pa. 15120

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

PERMIT ISSUED ON Sept. 4, 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 Phillip L. Tracy
Address PO Box 173, Middlebourne, WV 26149

GEOLOGICAL TARGET FORMATION: Alexander Depth 5950 feet

Depth of completed well, 5997 feet Rotary / Cable Tools

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

Coal seam depths: 700-705 Is coal being mined in the area? No

Work was commenced Sept. 27, 19 80, and completed October 4, 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	Left in well		
Conductor	11-3/4	E40	42#	X		31	pulled		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8	K55	24#	X		2322	2322	630 sacks	
Production	4-1/2	J55	10.50	X		4292	4292	540 sacks	Depth set
Tubing									
Liners									Perforations:
									Top Bottom

OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA Weir Sand Fifty Foot Sand Speechley Sand Pay zone depth 3905-4198 feet

Gas: Initial open flow, 223 Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 440 Mcf/d Final open flow, _____ Bbl/d

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

Static rock pressure, 385 psig (surface measurement) after 13 hours shut in

[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

APR 22 1981

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Plugged back to: 4292

Perforations: 2793 - 3018 17 holes
3208 - 3280 22 holes
3905 - 4198 24 holes

Fractured 10/23/80 1st Stage: 500 Gals. 15% HCL Acid
20,000# 80/100 Sand
40,000# 20/40 Sand
530 Bbls. Water

2nd Stage: 500 Gals. 15% HCL Acid
20,000# 80/100 Sand
40,000# 20/40 Sand
543 Bbls. Water

3rd Stage: 500 Gals. 15% HCL Acid
20,000# 80/100 Sand
40,000# 20/40 Sand

WELL LOG

FORMATION	Color	Hard or Soft	538 Bbls. water		Remarks Including indication of all fresh and salt water, coal, oil and gas
			Top Feet	Bottom Feet	
Clay			0	7	
Shale			7	25	
Sand			25	80	
Shale			80	340	
Red Rock			340	385	
Sandy Shale			385	425	
Red Rock			425	435	
Shale			435	590	
Sandy Shale			590	700	
Coal			700	705	
Gray Shale			705	1130	
White Sand			1130	1200	
Shale			1200	2040	
Lime and Sand			2040	2080	
White Sand			2080	2370	
Lime and Sand			2370	2425	
Sand and Shale			2425	2555	
Sand			2555	2685	
Shale			2685	2760	
Sandy Shale			2760	2940	
Shale			2940	3955	
Sand (white)			3955	4070	
Shale (gray)			4070	5100	
Sand (gray)			5100	5170	
Sandy Shale (gray)			5170	5997	
Total Depth			5997		

~~DELETED DATA~~

5997
3280
2717 expl. ft.

(Attach separate sheets to complete as necessary)

CARNEGIE NATURAL GAS

Well Operator

By

Its

NOTE: Regulation 2.02(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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Mills 2-1836

API Well No. 47-103-1194
State County Permit

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

LOCATION: Elevation: 1427 Watershed: Fishing Creek
District: Green County: Wetzel Quadrangle: Pine Grove 7.5

WELL OPERATOR Carnegie Natural Gas Company
Address 3904 Main Street
Munhall, Pa. 15120

DESIGNATED AGENT J.C. Stephenson, Div. Supt.
Address P.O. Drawer 387
Mannington, WV 26582

OIL & GAS ROYALTY OWNER Mills Wetzel Lands, Inc.
Address c/o Elston Bank & Trust Company
Crawfordsville, Indiana 47933

COAL OPERATOR None in Area
Address _____

Acreage 5,000

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Lewis Wetzel Public Hunting Area
Address State of West Virginia
Charleston, WV
Acreage _____

Name Not Known
Address _____
Name _____
Address _____

RECEIVED

SEP - 4 1980

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

Address _____
OIL & GAS DIVISION
DEPT. OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip L. Tracy
Address P.O. Box 173
Middlebourne, WV 26149
Phone: 304-758-4573

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease 3476 / other contract / dated April 12, 1895, to the undersigned well operator from John Mills

[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 19____, in the office of the Clerk of the County Commission of Wetzel County, West Virginia, in Deed Book 47 at page 611. 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) _____

--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 GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Carnegie Natural Gas Company

Well Operator

By James C. Stephenson
Its _____
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) S.W. Jack

Address Buckhannon, WV

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5950' feet Rotary x / Cable tools /

Approximate water strata depths: Fresh not known feet; salt, feet.

Approximate coal seam depths: 950' 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	Left in well		
Conductor	11-3/4	H40	42#	x		30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8	J35	24#	x		1550'	1550'	To Surface	
Production	4-1/2	J55	10.50	x		5950'	5950'	1000	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. Form IV-2 shall not 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 . This permit shall expire if operations have not commenced by 5-10-81.

Thomas E. Huzzey
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

Survey