

CERTIFICATE

"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."
 Minimum degree of accuracy is one part in 200

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

Drawn 9/11/69

Signed W. L. Sefton #1852

COMPANY FRANCIS M. FRIESTAD Pursley's Pulling & WIND SERVICE, 25232 BOX 51, LEXINGTON, KY 40502

ADDRESS 1016 LEXINGTON HWY, LEXINGTON, KY

FARM WM. H. TOMPKINS

MAP _____ ACRES 356 LEASE NO. _____

WELL (FARM) NO. 1 SERIAL NO. _____

ELEVATION (SPIRIT LEVEL) 645.15

QUADRANGLE ST. ALBANS

COUNTY KANAWHA DISTRICT JEFFERSON

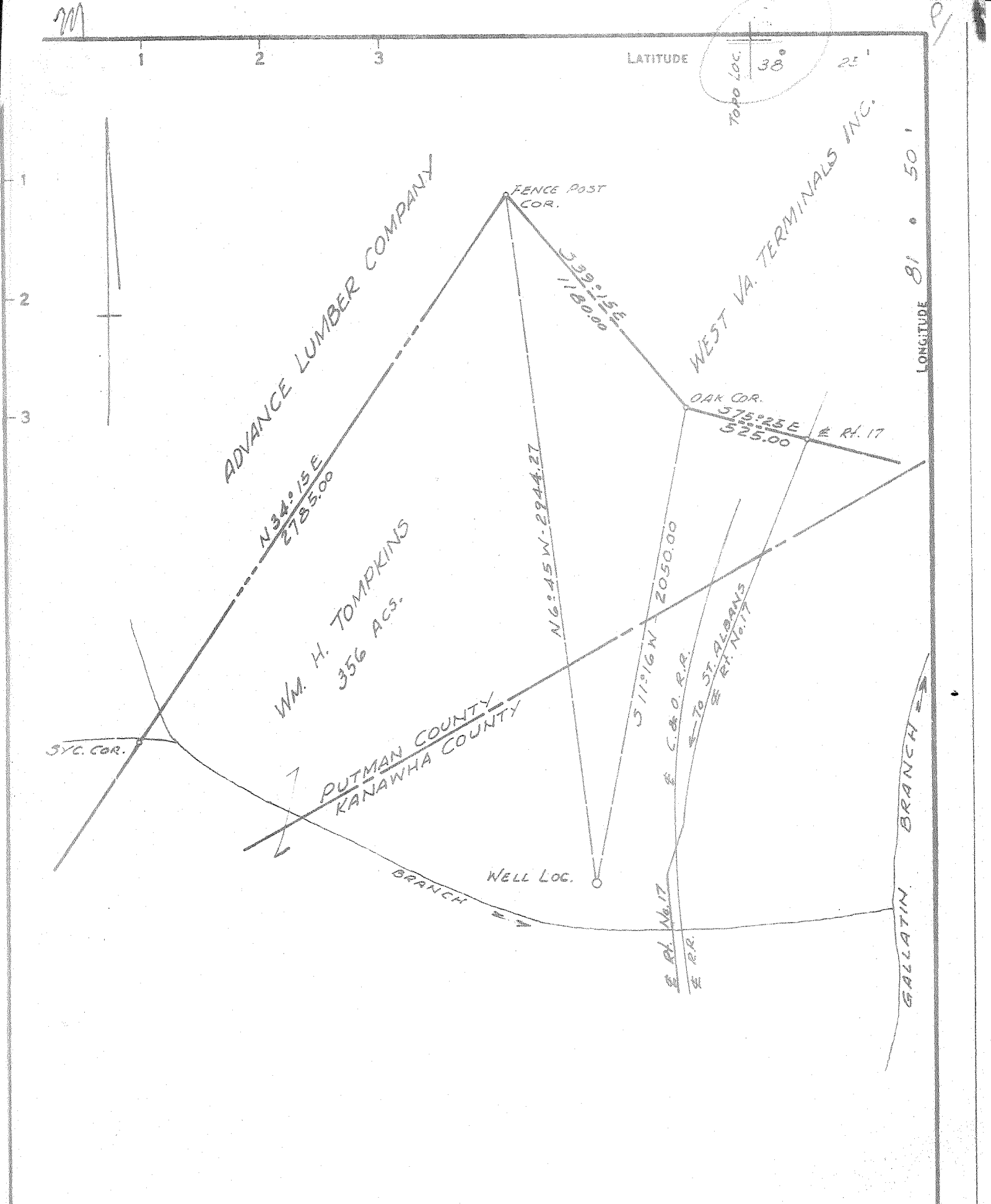
POINT OF PROVEN ELEVATION B.M. Elev. 599' R.R. BRIDGE OVER GALLATIN BR.

FILE NO. _____ DRAWING NO. _____

DATE 3-10-67 SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. KAN-3000 2100-F
Corrected Permit No.
 + 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.

1 DEEP WELL



CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200

Signed N. L. Sefton #1852

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY FRANCIS M. FRIESTAD
 ADDRESS 1016 LEXINGTON WAY, ROCKFORD, ILL.
 FARM WM. H. TOMPKINS
 MAP _____ ACRES 356 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 645.15
 QUADRANGLE ST. ALBANS
 COUNTY KANAWHA DISTRICT JEFFERSON
 POINT OF PROVEN ELEVATION B.M. Elev. 599' R.R. BRIDGE OVER GALLATIN BR.
 FILE NO. _____ DRAWING NO. _____
 DATE 3-10-67 SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. KAN-3000 2100
Corrected Permit No.
 + 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.

MAR 31 1967

3-6 (212)

Deep well (Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle St. Albans
Permit No. Kan-2100 PP

WELL RECORD

Oil or Gas Well OIL
(KIND)

Company FRANCIS M. FRIESTAD
Address 1016 LEXINGTON WAY-ROCKFORD, ILL.
61108
Farm W.H. Thompkins Acres 356
Location (waters) Gallatin Branch
Well No. 1 Elev. 645'
District Jefferson County Kanawha
The surface of tract is owned in fee by Mrs. W.H. Thompkins
St. Albans, W. Va. Address
Mineral rights are owned by Mrs. W.H. Thompkins
Address St. Albans, W. Va.

Drilling commenced 3/29/67
Drilling completed 4/11/67
Date Shot none From To
With

Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil show bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) 500 gals. Reg. Mud Acid
WELL FRACTURED (DETAILS) 10000# CaCl₂, 20000 # 20-40 sand, 500 Bbls. Water, 1000 gals. acid, -23.0 B/m at 2850 psig.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 12 BOPD - 65 Mcf/day

ROCK PRESSURE AFTER TREATMENT 475 psi HOURS 36

Fresh Water 37 60' Feet Salt Water 1485 Feet

Producing Sand Berea Sand Depth 2092'-2112'

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	37 .3'	37.3'	
10.9 5/8"	1646.0'	1646.0'	Size of
8 1/4			
6 3/4			Depth set
5 3/16			
4 1/2	2187.0'	2187.0'	
3			Perf. top <u>2098</u>
2			Perf. bottom <u>2107</u>
Liners Used			Perf. top <u> </u>
			Perf. bottom <u> </u>

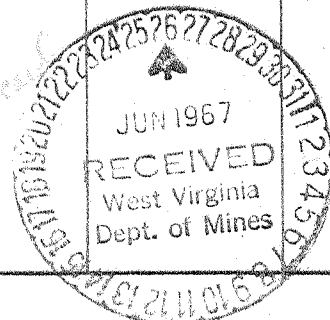
Attach copy of cementing record.
CASING CEMENTED 4 1/2 SIZE 2187 No. Ft. 6/12/67 Date
100 sks. Common

Amount of cement used (bags)
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT None FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	20			Rotary Mesmts
sand			20	90	water	60'	
sandy shale			90	120			
red rock			120	140			
sand			140	200			
red rock			200	225			
sand			225	345			
sandy shale			345	405			
sand			405	435			
sandy shale			435	1000			
sand salt			1000	1110	s. Water	1015'	
shale			1110	1120	s. Water	1180'	
sand salt			1120	1330			
lime			1330	1570	s. Water	185'	
sand			1570	1600			Injun
shale			1600	2090			
sand Berea			2090	2110	Oil	2106'	BEREA
TOTAL PLUG BACK DEPTH				2190'			

Well drilled as a Newburg test to total depth of 5100'.

Top of Corniferous at 4308' Log. (RT)
Oriskany at 4410' Log.
Newburg at 5054' to 5028'
Well TD 5100'



Deep Well (Newburg)