

Minimum Error of Closure 1 in 200'

Source of Elevation Elevation Blair No. 1 = 667

Fracture

New Location

Drill Deeper

Abandonment 10-7-74 Map No.

Signed: W. H. H. J.
Squares: N S E W

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.

Company Bethune A. Dale, dba / A.P. Oil Co. Inc. NATURAL ENERGIES, INC.

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

Address State 7th Street, Parkersburg, W. Va.

Farm C. B. Cooper

Tract _____ Acres 80 Lease No. _____

Well (Farm) No. One Serial No. _____

Elevation (Spirit Level) 687

Quadrangle Elizabeth NW

County Wood District Clay

Engineer W. H. H. J.

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date May 8, 1971 Scale 1" = 400' = 660'

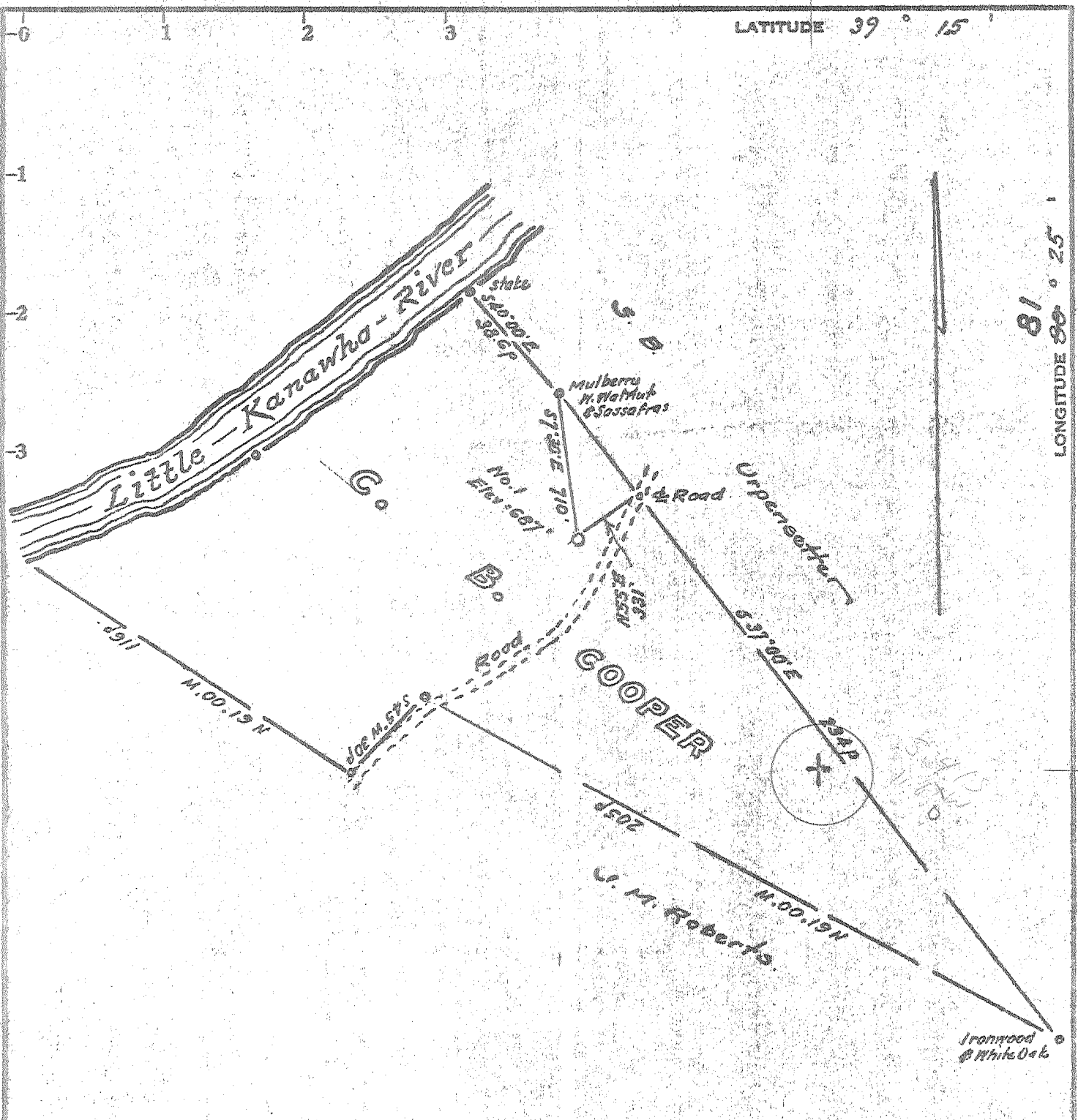
WELL LOCATION MAP

FILE NO. WOOD-596-P
Longitude Corrected

+ 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.

47 107



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- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: [Signature]
Squares: N S E W

Map No. _____

Company A. & P. Oil Co., Inc.

Address Suite 720, Union Trust Bldg., Parkersburg, W. Va.

Farm C. B. Cooper

Tract _____ Acres 80 Lease No. _____

Well (Farm) No. One Serial No. _____

Elevation (Spirit Level) 687

Quadrangle Elizabeth NW

County West District Clay

Engineer [Signature]

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date May 8, 1971 Scale 1" = 400' = 660'

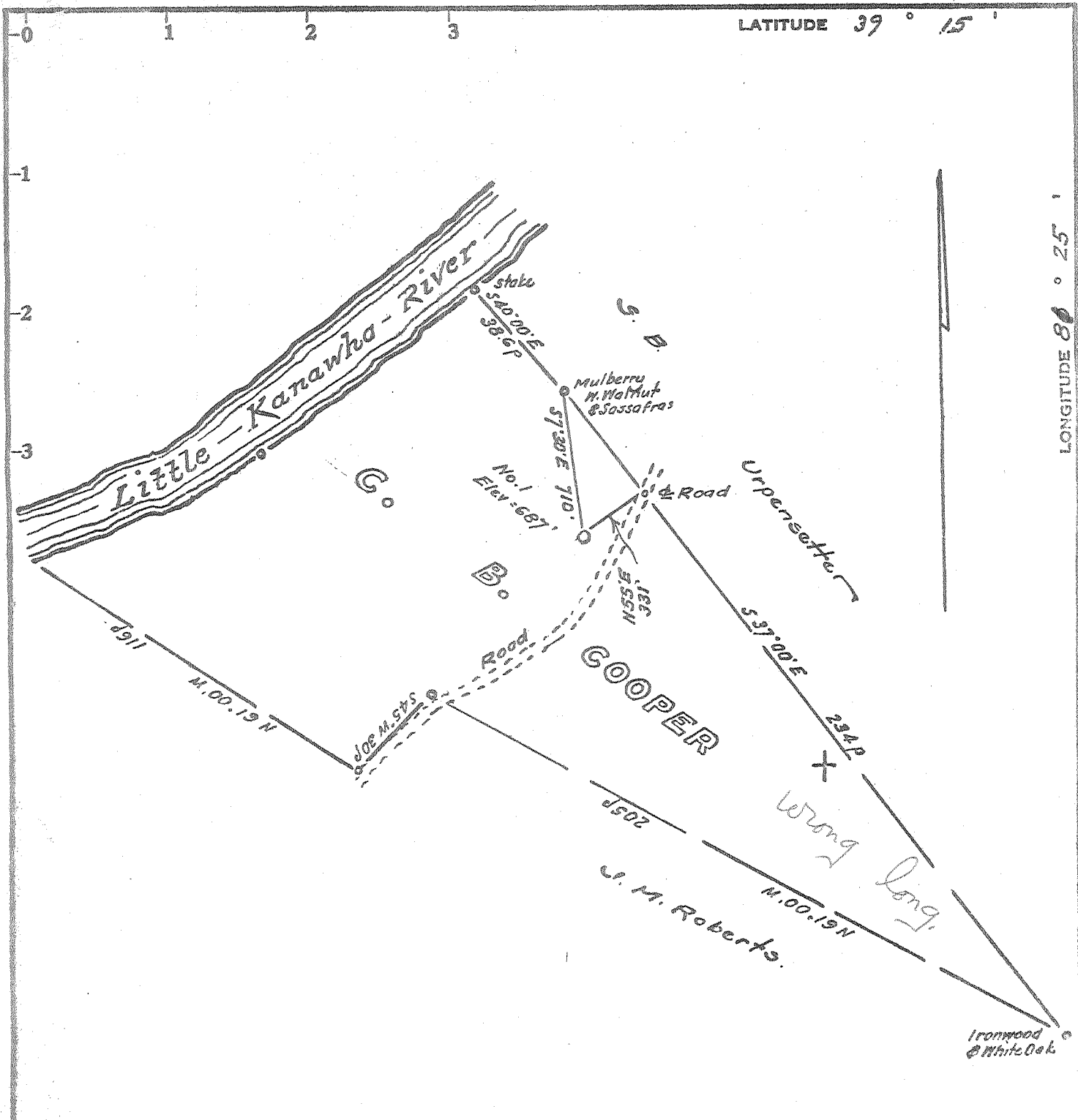
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. WOOD - 596
Longitude Corrected

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LATITUDE 39 ° 15'

LONGITUDE 80 ° 25'

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Signed: [Signature]
Squares: N S E W

Map No. _____

Company A. & P. Oil Co. Inc.
 Address Suite 720, Union Trust Bldg, Parkersburg, W. Va.
 Farm C. B. Cooper
 Tract _____ Acres 80 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 687
 Quadrangle Elizabeth NW
 County Wood District Clay
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date May 8, 1971 Scale 1" = 400' = 660'

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

WELL LOCATION MAP

FILE NO. WOOD - 596

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

RECEIVED

SEP 23 1974

OIL & GAS DIVISION
DEPT. OF MINES

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

Quadrangle Elizabeth

Permit No. Wood-596

Company <u>Natural Energies, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>167 North Hills Dr. Parkersburg, W. Va.</u>	Size			
Farm <u>C.B. & Dolly Cooper</u> Acres _____	20-16			
Location (waters) <u>Little Kanawha River</u>	Cond.			
Well No. <u>Cooper #1</u> Elev. <u>687'</u>	13-10"	32'	-	
District <u>Clay</u> County <u>Wood</u>	9 5/8			
The surface of tract is owned in fee by <u>C.B. & Dolly Cooper</u>	8 5/8	1813'	1813'	200 sk.
Address <u>Rt. 1, Walker, W. Va.</u>	7			
Mineral rights are owned by <u>Same as above</u>	5 1/2	5990'	5990'	250 sk.
Address _____	4 1/2			Calculated top of Cement 4440'
Drilling Commenced <u>5/18/71</u>	3			
Drilling Completed <u>6/3/71</u>	2 Upset	5840'	5840'	
Initial open flow <u>Slight Show</u> cu. ft. <u>nil</u> bbls.	Liners Used			
Final production <u>30 M</u> cu. ft. per day <u>nil</u> bbls.				
Well open <u>72</u> hrs. before test <u>1400#</u> RP.				

Well treatment details:

Attach copy of cementing record.

Newberg was treated with 1000 Gal. 15% HCl and 50,000 Gal. Treated water, then 25,000# of 10-20 mesh sand was injected at a rate of 3/4#/Gal.

The Oriskany was treated with 500 Gal. 15% HCl and 50,000 Gal. Treated water, then 30,000# of 8-12 mesh and 10-20 mesh sand were injected at a rate of 3/4#/Gal. up to 1 1/4#/Gal. After each treatment each zone was flushed with untreated water.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Oriskany and Newberg Depth 5036-5050 and 5862-5878
Oriskany Newberg

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	25		
Shale			22	90		
Sand			90	100		
Shale			100	500		
Sand			500	570		
Shale			570	640		
Sand			640	675		
Shale			675	1500		
Sand			1500	1538		
Shale			1538	1585		
Sand			1585	1710		
Shale			1710	1775		
Shaley Sand			1775	2120		
Shale			2120	4864		Top of Lime 4864'
Hard Lime			4864	5036		
Sand			5036	5048		Oriskany Sand--Show of Gas
Lime			5048	5862		
Sand			5862	5878		Newberg--Show of Gas
Lime			5878	6000		
T.D.			6000			

(over)

* Indicates Electric Log tops in the remarks section.