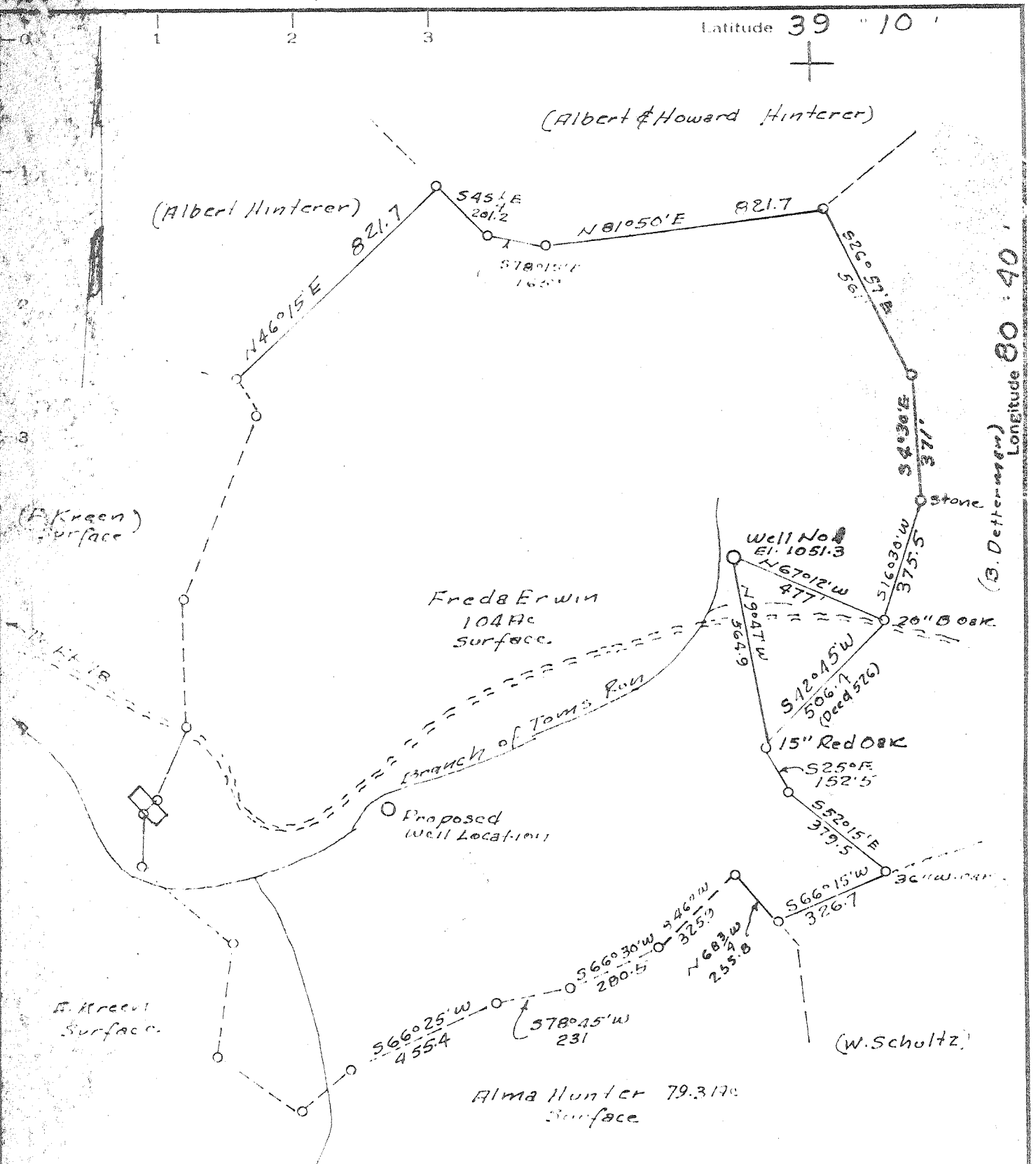


Latitude 39 ° 10 ' +



MINIMUM ERROR OF CLOSURE 1 in 200+

SOURCE OF ELEVATION USGS At Intersection of W. Va. Rt No 18 &

New Location  Brushy Fork Road El. 928.5 Recently Established

Drill Deeper

Abandonment

Date: 8-30-71

"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 Quaker State Oil & Refining Corp.  
 Address P.O. Box 1327, Parkersburg, West Va., 26101  
 State STATE OF WEST VIRGINIA  
 Department DEPARTMENT OF MINES  
 Division OIL AND GAS DIVISION  
 City CHARLESTON

Farm Frank M. Hinterer (Freda Erwin)  
 No. 334 Acres 104 Lease No. \_\_\_\_\_  
 Farm No. 1 Serial No. \_\_\_\_\_  
 Spirit Level 1051.3  
 Sample Vadis WC  
 County Adair District New Milton  
 Engineer H. J. Johnston  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Nov. 29, 1963 Scale 1" = 400'

Quaker State Oil & Refining Corp.  
 P.O. Box 1327, Parkersburg, West Va., 26101  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

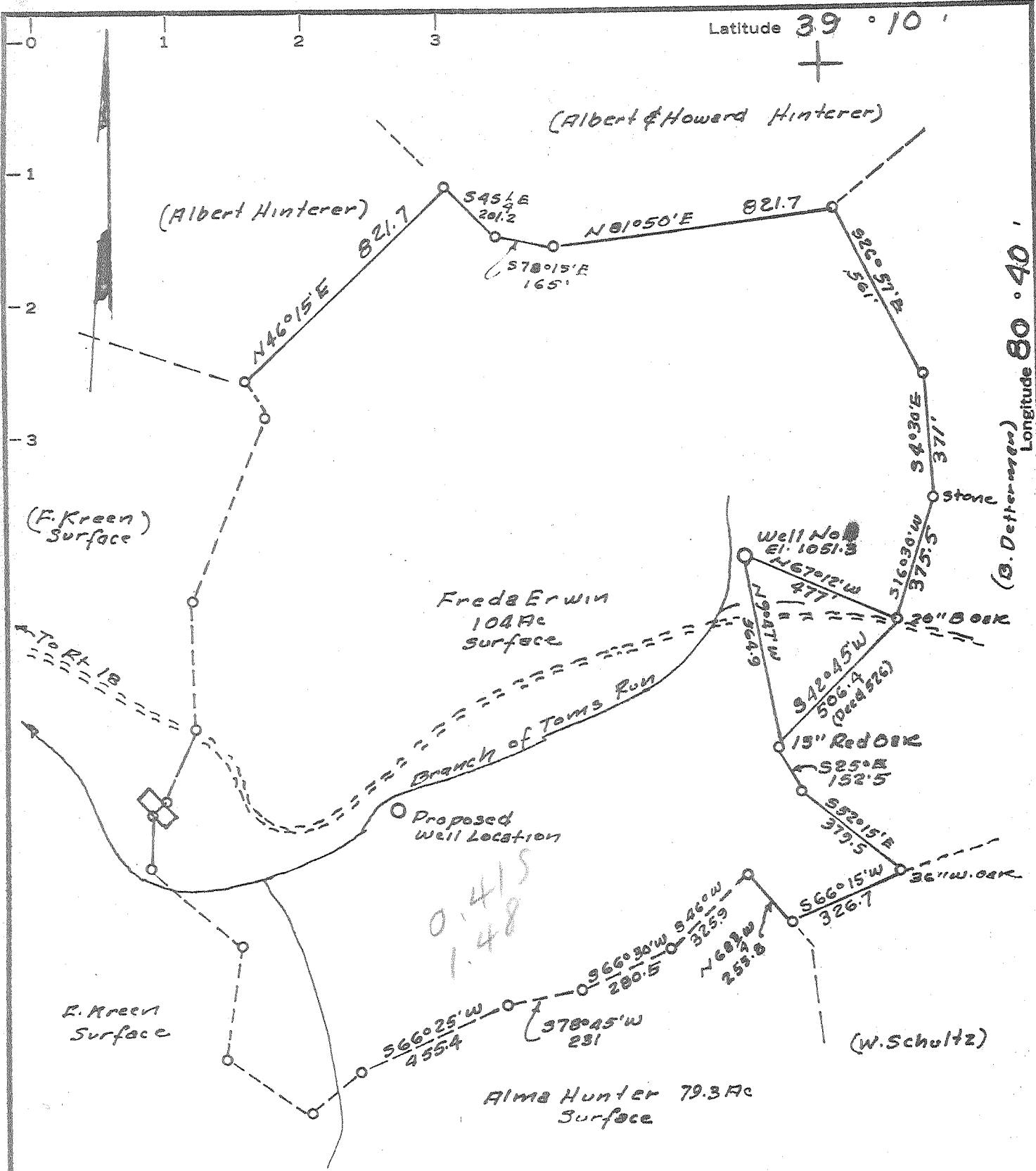
WELL LOCATION MAP

FILE NO. DOD-1076-P

Plugging Cancelled - 7-6-72

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.



MINIMUM ERROR OF CLOSURE 1 in 200+  
 SOURCE OF ELEVATION USGS At Intersection of W. Va. Rt No 18 & Brushy Fork Road El. 928.5 Recently Established

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.

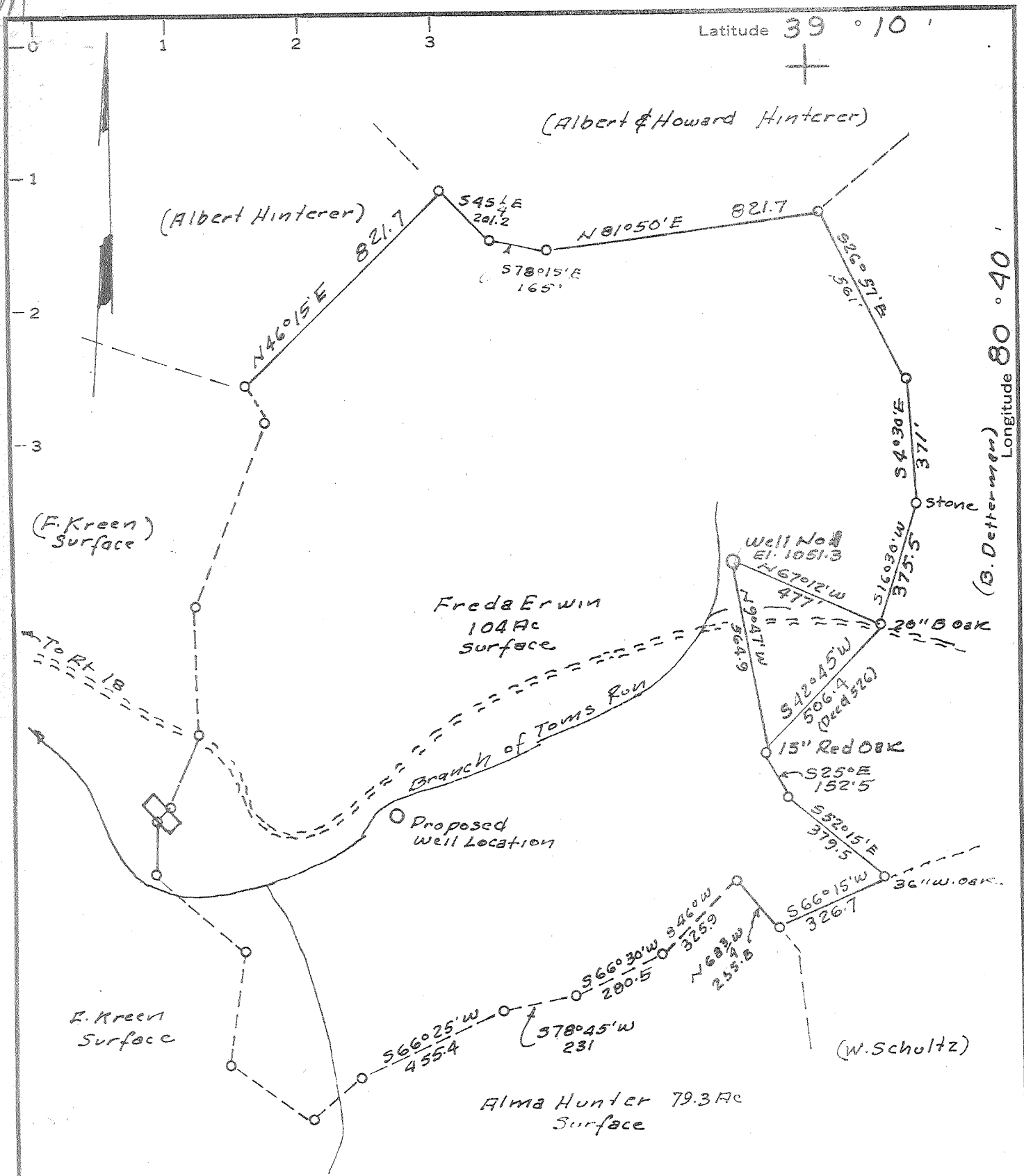
Company Frank M. Hinterer (Freda Erwin)  
 Address 474 Ave Pittsburg 26, W. Va.  
 Farm Frank M. Hinterer (Freda Erwin)  
 Tract 334 Acres 104 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1051.3  
 Quadrangle Vadis  
 County Doddridge District New Milton  
 Engineer H. F. Johnston  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Nov. 29, 1963 Scale 1" = 400'

Quaker State Oil & Refining Corp.  
 (P.O. Box 1527, Parkersburg, West Va. 26101)  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. DOD-1076-P

+ 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.



MINIMUM ERROR OF CLOSURE 1 in 200<sup>+</sup>

SOURCE OF ELEVATION USGS At Intersection of W. Va. Rt No 18 &

Brushy Fork Road El. 928.5 Recently Established

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."

Company Devonian Gas & Oil Co  
 Address 1112-Benedum Trees Building  
4TH Ave Pittsburg 22, PA.  
 Farm Frank M. Hinterer (FREDA ERWIN)  
 Tract 334 Acres 104 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1051.3  
 Quadrangle Vadis - WC  
 County Doddridge District New Milton  
 Engineer H. F. Johnston  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Nov. 29, 1963 Scale 1" = 400'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. DOD-1076

+ 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.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 4

Quadrangle VADIS

WELL RECORD

Permit No. DOD 1076

Oil or Gas Well Oil & Gas  
(KIND)

Company Devonian Gas & Oil Company  
Address 1705 Benedum-Trees Bldg. Pgh. 22, Pa.  
Farm Frank M. Hinter (Freda Erwin) Acres 104  
Location (waters) Brushy Fork Branch & Tom's Run  
Well No. One Elev. 1051 GR  
District New Milton County Doddridge  
The surface of tract is owned in fee by Frank M. Hinter  
(Freda Erwin) Address Leopold, Doddridge Co  
Mineral rights are owned by Frank M. Hinter  
Address Leopold, Doddridge Co

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18	60	60	
10			Size of
8 1/4			
6 1/2			Depth set
8/16		2375	
3			Perf. top <u>2267</u>
2			Perf. bottom <u>2267.5</u>
Liners Used			Perf. top
			Perf. bottom

Drilling commenced 12/12/63  
Drilling completed 1/13/64  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume 300,000 Cu. Ft.  
Rock Pressure 1025 lbs. 24 hrs.  
Oil Spray of oil bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_

CASING CEMENTED 5 1/2 SIZE 2374 No. Ft. 1/14/64 Date  
with 100 SKS - Hellbunter  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

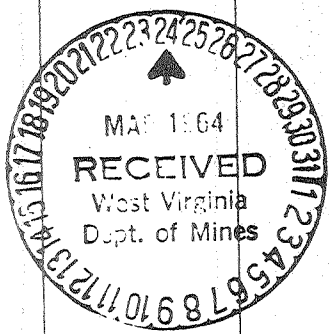
WELL FRACTURED To be fractured later, in early summer, when roads dry up. Will file results of treatment at that time

RESULT AFTER TREATMENT See report attached

ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_

Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
mud shale and sand	red	soft	0	19			
shale	grey	soft	19	120			
shale	grey	soft	120	235			Water at 70 feet, a little water at 110
sand	white	medium	235	290			Water at 275 Feet
shale & silt	grey-red	soft	290	600			
sand	buff	medium	600	665			
shale	red-grey	soft	665	850			
shale and sand	yellow-grey	soft	850	1000			
shale	grey	soft	1000	1140			
shale, sand	grey	soft	1140	1245			
silt	grey	soft	1245	1380			
shale	grey	soft	1245	1380			
sand	white	hard	1380	1500			salt sand
shale	grey	soft	1500	1580			
sand	yellow	medium	1580	1610			
shale	grey-green	soft	1610	1624			
sandy shale	grey	medium	1624	1765			
sand & shale	lt. grey	medium	1765	1837			
sand	white	hard	1837	1865			
sand & shale	grey-green	soft	1865	2058			
lime, shale	buff	hard	2058	2087			little lime
sand	white	hard	2087	2106			Blue Monday
shale	grey	soft	2106	2120			
lime	dk, brown	medium	2120	2148			



no shows

Formation	Color	Hard or Soft	Top If	Bottom	Oil, Gas or Water	Depth Found	Remarks
sand & lime	clear	hard	2148	2190			
lime	brown	hard	2190	2257			
sand	white	medium	2257	2270	gas and oil	2266	Big Lime
lime	tan	hard	2270	2306			Koener
lime	tan	soft	2306	2328			Injun
shale	grey	soft	2328	2375			
Total Depth				2375			

Date MARCH 23, 1964

APPROVED DEVONIAN GAS & OIL COMP., Owner

By A. H. Forbes Jr.  
(Title)

A. H. Forbes Jr.  
Vice President

Fracture Report



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 4A

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Vadis  
Permit No. Dod 1076

WELL RECORD

Oil or Gas Well BOTH  
(KIND)

Company Devonian Gas & Oil Company  
Address 1705 Benedum-Trees Bldg. Pgh. 22, Pa.  
Farm Frank M. Hinter (Freda Erwin) Acres 104  
Location (waters) Brushy Fork Branch of Tom's Run  
Well No. one Elev. 1051 gr.  
District New Milton County Doddridge  
The surface of tract is owned in fee by Frank M. Hinter  
(Freda Erwin) Address Leopold, West Virginia  
Mineral rights are owned by Frank M. Hinter  
Address Leopold, West Virginia  
Drilling commenced 12/12/64  
Drilling completed 1/13/64  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 300,000 CFGPD \_\_\_\_\_ Cu. Ft.  
Rock Pressure 1025 lbs. 24 hrs.  
Oil 5 BOPD \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_  
WELL FRACTURED See Below

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	60	60	
10			Size of
8 3/4			
6 3/4		2375	Depth set
5 5/16			
3			Perf. top <u>2267</u>
2			Perf. bottom <u>2267.5</u>
Liners Used			Perf. top _____
			Perf. bottom _____

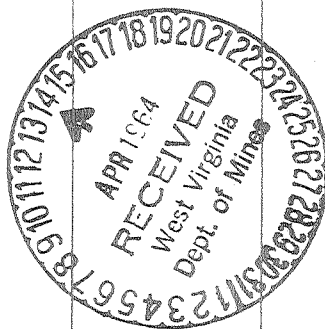
CASING CEMENTED 5 1/2 SIZE 2375 No. Ft. 1/14/64 Date  
with 100 sks.

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT 100 BOPD ± 500,000 CFGPD  
ROCK PRESSURE AFTER TREATMENT 750/24 hrs.

Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Break down formation with 1,000 gallons MCA (2-16-64). Well fractured by Halliburton 4-6-64 using 40,000 pounds of 20-40 mesh sand, 20,000 pounds of 10-20 mesh sand, 900 pounds of walnut hulls and 300 pounds of parachek. 46,360 total gallons of fluid. Average treating pressure 2550 pounds per square inch, average injection rate 33 barrels per minute.							



*A. H. Jarboe*