



- New Location
- Drill Deeper
- Redrill
- 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 PATRICK PETROLEUM Co.
 Address 744 W. Michigan Ave. JACKSON MICHIGAN 49201
 Form F.F. & JUANITA OLDER
 Tract Acres 251.7 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 622.72 - OK on 7.5' top
 Quadrangle KANNA SW
 County KANAWHA District UNION
 Engineer [Signature]
 Engineer's Registration No. 1530
 File No. 5432 Drawing No. 1
 Date APRIL 2, 1960 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. KAN-2244

+ 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.
 Deep Well (Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
 Spudder
 Cable Tools
 Storage
 Oil or Gas Well Gas
 (KIND)

KB = 711'
 Elevation may be wrong

Quadrangle Charleston
 Permit No. Kan. 2244

WELL RECORD

Company Patrick Petroleum Company
 Address 744 W. Mich. Ave., Jackson, Mich. 49201
 Farm F.F. & Juanita Older
 Location (waters) Frog Creek
 Well No. 1
 District Union County Kanawha
 The surface of tract is owned in fee by F.F. & Juanita Older
 Address Sissonville, W. Va.
 Mineral rights are owned by Same as above
 Drilling commenced 5/10/68
 Drilling completed 5/24/68
 Date Shot None From None To None
 With None

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------------------|
| Size <u>3/8</u> | <u>80</u> | <u>80</u> | Kind of Packer <u>None</u> |
| <u>10</u> | <u>1800</u> | <u>1800</u> | Size of <u>Float Shoe</u> |
| <u>8 5/8</u> | <u>5429</u> | <u>5429</u> | Depth set |
| <u>5 1/2</u> | | | |
| <u>5 3/16</u> | | | |
| <u>4 1/2</u> | | | |
| <u>3</u> | | <u>5469</u> | Perf. top <u>N</u> |
| <u>2 3/8</u> | | | Perf. bottom <u>O</u> |
| Liners Used | | | Perf. top <u>N</u> |
| | | | Perf. bottom <u>E</u> |

Open Flow None /10ths Water in None Inch
 /10ths Merc. in None Inch
 Volume Estimated 10MMCF/D Cu. Ft.
 Rock Pressure 2125 lbs. 72 hrs.
 Oil None bbls., 1st 24 hrs.
 WELL ACIDIZED (DETAILS) No
 WELL FRACTURED (DETAILS) 1000 Bbls. water, 22,500 lbs. 20/40 sand, 1000 gals. HF acid, 750 lbs. WAC-10, 300 lbs. WG-6, 300 lbs. CW-1, 62sks, KCl. (see back)
 RESULT AFTER TREATMENT (Initial open Flow or bbls.) 28MMCF/D (CAOFP) (28,000 MCF)
 ROCK PRESSURE AFTER TREATMENT 2094.8 DW HOURS 24 28,000,000
 Fresh Water None Feet None Salt Water None Feet
 Producing Sand Newburg Depth 5478-80 (not drilled through)

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|----------------|-------|--------------|------|--------|-------------------|-------|---|
| Sand & Shale | | Soft | 0 | 1540 | | | |
| Big Lime | | Hard | 1540 | 1560 | | | |
| Lime | 340 | Hard | 1560 | 1600 | | | |
| Keener | | Soft | 1600 | 1660 | | | |
| Shale | | Soft | 1660 | 1690 | | | |
| Big Injun | | Soft | 1690 | 1710 | | | |
| Shly ss: | | Soft | 1710 | 2140 | | | |
| Berea | | Hard | 2140 | | | | No Berea found in samples, but by drilling time, this is where it was picked. |
| Sand & Shale | | Soft | 2140 | 4600 | | | |
| Shale | | Soft | 4600 | 4640 | | | |
| Is. - Onondaga | | Hard | 4640 | 4660 | | | Top of Onondaga 4640 |



| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--|---|--------------|------|--------------|-------------------|-------------|-----------------------------------|
| Ls | tan | | 4660 | 4690 | | | |
| Ls. | tan | | 4690 | 4700 | | | |
| Sample missing | | | 4700 | 4720 | | | |
| Shlybl.l.s | tan | | 4700 | 4730 | Oriskany | 4730-48 | |
| Ls. & Shale | | | 4730 | 5122 | gas ? | | 5080 possible sulfur gas |
| Dolomite & Shale stringers | | | 5122 | 5440 | | | |
| Dolomite | | | 5440 | 5475 | | | |
| Newburg | | | 5478 | 5480 | | | No samples after gas encountered. |
| T.B. | | | | 5480 | | | |
| Casing Record: | | | | | | | |
| 13 3/8 | ran 80' cemented to surface with 80 sks., service by Halliburton | | | | | | |
| 8 5/8 | ran 1800' cemented with 575 sks., cement returns to surface, service by Halliburton | | | | | | |
| 5 1/2 | 5429' cemented with 150 sks. cement, service by Halliburton | | | | | | |
| Fracture record: Continued from front side. | | | | | | | |
| Max. Psi. 5400 | | | | | | | |
| Min. Psi. 5100 | | | | | | | |
| Ave. Injection rate, 21 Bbls. per/minute., service by Halliburton, Instant | | | | | | | |
| S.I. Psi. 4000 lbs., 5 minute S.I. 3900 lbs., Hyd. HP. 2683 used for Prac. | | | | | | | |
| Log: Ran gamma-Ray for correlation. | | | | | | | |
| Log Tops: | | Onondaga | 4640 | Sample Tops: | | Big Lime | 1540 |
| | | Oriskany | 4730 | | | Keener | 1600 |
| | | Newburg | 5478 | | | Big Injun | 1690 |
| Berea, none in samples, but from drilling time appears to be at 2140. | | | | | | | |

$$\begin{array}{r} 5478 \\ 667 \\ \hline 4816 \end{array}$$

$$\begin{array}{r} 5478 \\ 4730 \\ \hline 748 \end{array}$$

Check elev
 log elev = 711'

Date July 5, 19 68

APPROVED Patrick Petroleum Company, Owner
 Donald C. Supcoe Cons.
 By *Donald C. Supcoe*
 (Title)

8691 67 JUL