



Minimum Error of Closure 1 in 200

Source of Elevation Elev. Elsie Malcomb Well - 1665

- 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: [Signature]  
 Squares: N S E W

Map No.

Company Ray Brothers, Inc.  
 Address P.O. Box 51, Spencer, W. Va.  
 Farm Pearle Malcomb  
 Tract Acres 45.45 Lease No. 420  
 Well (Farm) No. 250 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1787  
 Quadrangle Philippi E.L.  
 County Barbour District Philippi  
 Engineer [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Sept 21, 1969 Scale 1" = 300' = 495'

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

WELL LOCATION MAP

FILE NO. BAR-511

+ 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.



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

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

Quadrangle Philippi  
Permit No. Bar 511

WELL RECORD

Company Ray Brothers Corporation  
Address 630 Commerce Sq., Charleston, W. Va.  
Farm Pearle Malcolm Acres 45.45  
Location (waters) Elk Creek  
Well No. BAR 250 Elev. 1787  
District Philippi County Barbour  
The surface of tract is owned in fee by Pearl M. Malcolm  
3576 Edson Dr. Address Columbus, Ohio  
Mineral rights are owned by Pearl M. Malcolm  
3576 Edson Dr. Address Columbus, Ohio  
Drilling commenced 10-18-69  
Drilling completed 10-29-69  
Date Shot From To

| Casing and Tubing Size | Used in Drilling | Left in Well | Packers               |
|------------------------|------------------|--------------|-----------------------|
| 16                     | 20               | 20           | Kind of Packer        |
| 13                     |                  |              | Size of               |
| 10                     | 130 sks          | 857          | Depth set             |
| 8 1/2 5/8              |                  |              |                       |
| 6 5/8                  |                  |              |                       |
| 5 3/16                 | 200sks           | 4165'        | Perf. top 3722-25'    |
| 4 1/2                  |                  | 5 holes      | Perf. bottom 3752-55' |
| 3                      |                  | 4 holes      | Perf. top 3804-07'    |
| 2                      |                  | 4 holes      | Perf. bottom 4045-50' |
|                        |                  | 12 holes     |                       |

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

Attach copy of cementing record.  
CASING CEMENTED 4 1/2" SIZE 4165' No. Ft. Date  
Amount of cement used (bags) 200  
Name of Service Co. Halliburton Cementing Co.  
COAL WAS ENCOUNTERED AT FEET INCHES  
FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS)  
WELL FRACTURED (DETAILS) Benson-300 Gals. acid, 56,000 # 20.40 sand, 1000 Bbls. water  
Riley-500 Gals. acid, 56,000 # 20/40 sand, 1000 Bbls. water  
RESULT AFTER TREATMENT (Initial open Flow or bbls.) (300,000 cu. ft. 300MCFGPD)  
ROCK PRESSURE AFTER TREATMENT HOURS  
Fresh Water Salt Water  
Producing Sand Riley & Benson Feet  
3722-3807, 4045-50 Depth 3708-3830 and 4046-4100'

| Formation    | Color | Hard or Soft | Top  | Bottom  | Oil, Gas or Water  | Depth | Remarks |
|--------------|-------|--------------|------|---------|--|-------|---------|
| Soil         |       |              | 0    | 12      | Logged by Basin<br>8 5/8 cemented by Halliburton<br>4 1/2 cemented by Halliburton<br>7 7/8" hole |       |         |
| Shale        |       |              | 12   | 25      |  |       |         |
| Sand         |       | Hard         | 25   | 140     |  |       |         |
| Sand & shale |       |              | 140  | 310     |  |       |         |
| Sand         |       |              | 310  | 740     |  |       |         |
| Sand & shale |       |              | 740  | 1225    |  |       |         |
| Big lime     |       |              | 1225 | 1342    |  |       |         |
| Injun        |       |              | 1342 | 1450    |  |       |         |
| Sand & shale |       |              | 1450 | 3708    |  |       |         |
| Riley        |       |              | 3708 | 3830    |  |       |         |
| Shale & sand |       |              | 3830 | 4046    |  |       |         |
| Benson       |       |              | 4046 | 4100    |  |       |         |
| Shale        |       |              | 4100 | 4175 TD |  |       |         |

RECEIVED  
MAR 6 - 1970  
OIL AND GAS DIVISION  
DEPT. OF MINES