

New Location
 Drill Deeper
 Abandonment

| | | |
|-----------------------------|--|---------------------|
| Company | WEST UNION DRILLING CO. % CLARENCE POWELL | |
| Address | WEST UNION, W.VA. | |
| Farm | HARRY E. CLINE | |
| Tract | Acres 6 | Lease No. |
| Well (Farm) No. | 1 | Serial No. |
| Elevation (Spirit Level) | 786' | |
| Quadrangle | WEST UNION - SE | |
| County | DODDRIDGE | District WEST UNION |
| Engineer | JOHN W. HAMILTON | |
| Engineer's Registration No. | 2274 | |
| File No. | Drawing No. | |
| Date | JAN. 30, 1960 | Scale 1" = 100' |

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

WELL LOCATION MAP
 FILE NO. DOD-298

+ 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.

6-6 97



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 2

Quadrangle West Union

Permit No. DOD-298

WELL RECORD

Oil & Gas
Oil or Gas Well (KIND)

Company West Union Drilling Co., Inc.
Address West Union, W. Va.
Farm Harry B. Cline Acres 6
Location (waters) Middle Island Creek
Well No. I Elev. 767'
District West Union County Doddridge
The surface of tract is owned in fee by Harry E. Cline Address West Union, WVa.
Mineral rights are owned by Harry E. Cline Address West Union, WVa.
Drilling commenced Feb. 9, 1960
Drilling completed Mar. 15, 1960
Date Shot From To
With
Open Flow /10ths Water in 70 Inch
/10ths Merc. in 3 inch
Volume 2,544,000 Cu. Ft.
Rock Pressure 630 lbs. 24 hrs.
Oil 50 bbls., 1st 24 hrs.
WELL ACIDIZED Yes 542460

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | | | |
| 10 | 240' | 240' | Size of |
| 8 1/4 | | | |
| 6 3/4 | 935' | 935' | Depth set |
| 5 3/16 | 1693' | 1693' | |
| 3 | | | Perf. top |
| 2 Tubing | 1750' | 1750' | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED 53/16 SIZE 350' No. Ft. 3/8/60 Date

COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

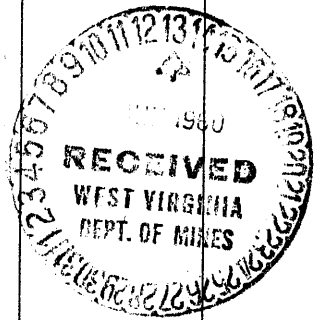
WELL FRACTURED

RESULT AFTER TREATMENT Increased very little after acidizing.

ROCK PRESSURE AFTER TREATMENT

Fresh Water Feet Salt Water Feet

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|-----------------------|-------|--------------|------|--------|-------------------|-------|---------|
| Clay | Red | S | 0 | 50 | | | |
| Sand Stone | Grey | H | 50 | 62 | Water | | |
| Shale Shells | Grey | H | 62 | 108 | | | |
| Slate | Grey | S | 108 | 125 | | | |
| Red Clay | Red | S | 125 | 130 | | | |
| Lime | Grey | H | 130 | 185 | | | |
| Red Rock | Red | H | 185 | 230 | Water | | |
| Blue Shale | Red | H | 230 | 360 | | | |
| Slate Shells | Brown | H | 360 | 380 | | | |
| Lime | White | H | 380 | 400 | | | |
| Slate | | | 400 | 470 | | | |
| Sand | Grey | H | 470 | 495 | | | |
| Red Rock | Red | H | 495 | 680 | | | |
| Lime | White | H | 680 | 700 | | | |
| Red Rock | Red | H | 700 | 725 | | | |
| Lime Shells | White | H | 725 | 850 | | | |
| Slate | Brown | H | 850 | 900 | | | |
| Sand (Little Dunkard) | | H | 900 | 920 | | | |
| Shale | Red | S | 920 | 925 | | | |
| Sand | Grey | H | 925 | 955 | | | |
| (Big Dunkard) | | | | | | | |
| Slate Shells | Grey | H | 955 | 990 | | | |
| Sand | White | H | 990 | 1030 | | | |
| Slate | Grey | H | 1030 | 1055 | | | |
| Sand | Grey | H | 1055 | 1165 | | | |
| Shale sand | Brown | H | 1165 | 1190 | | | |
| Sand | White | H | 1190 | 1255 | | | |
| Slate Shells | Black | S | 1255 | 1415 | | | |
| Sand | Grey | H | 1415 | 1475 | | | |



| Formation | Color | Hard or Soft | Top ² | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|------------------|-------|--------------|------------------|--------|----------------------|-------------|---------|
| Slate Shells | Brown | H | 1475 | 1552 | Gas (1550'-1552') | | |
| Maxton Sand | Grey | H | 1552 | 1562 | | | |
| Shale Shells | Grey | S | 1562 | 1590 | | | |
| Red Rock | Red | S | 1590 | 1635 | | | |
| Lime | Dark | | 1635 | 1648 | | | |
| Slate | Grey | H | 1648 | 1653 | | | |
| Lime | | | 1653 | 1655 | | | |
| Sand | Grey | H | 1655 | 1666 | | | |
| Big Lime | | | 1666 | 1737 | | | |
| Sand (Big Injun) | | H | 1737 | 1745 | Gas & Oil (at 1745') | | |