

MINIMUM ERROR OF CLOSURE $\frac{1}{200}$

SOURCE OF ELEVATION WELL #1 ON E. G. SPENCER 50 ACRES
TRACT ADJOINING AMOS T. SPENCER 50 ACRE TRACT

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 HARVEY L. STARR
 Address 1204-16TH ST., PARKERSBURG, W. VA.
 Farm AMOS T. SPENCER
 Tract _____ Acres 50± Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 981.0'
 Quadrangle WEST UNION - EC
 County DODDRIDGE District GRANT
 Engineer Warren S. Frank
 Engineer's Registration No. 3688
 File No. _____ Drawing No. _____
 Date 4-3-65 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. DOD-1243

+ 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 DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle West Union W. Va.

Permit No. DODD - 1243

WELL RECORD

Oil or Gas Well Oil ~~Gas~~
(KIND)

Company Harvey L Starr
 Address 920 Market Street, Parkersburg, W. Va
 Farm Amos E Spencer Acres 50 Plus
 Location (waters) Knights Fork
 Well No. #1 Elev. 981.0
 District Grant County Doddridge
 The surface of tract is owned in fee by A E Spencer
 Address _____
 Mineral rights are owned by A E Spencer
 Address _____
 Drilling commenced 4-8-65
 Drilling completed 5-14-65 12-10-65
 Date Shot _____ From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil 5 bbls Big Injun bbls., 1st 24 hrs.
 WELL ACIDIZED _____

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | Kind of Packer |
| 16 | 18" - 6" | 13" - 6" | |
| 13 | 56" | | |
| 10 | 360" | | Size of |
| 8 1/4 | 1080" | | |
| 6 3/4 | | | Depth set |
| 5 3/16 | 2190" | | |
| 3 | | | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED _____

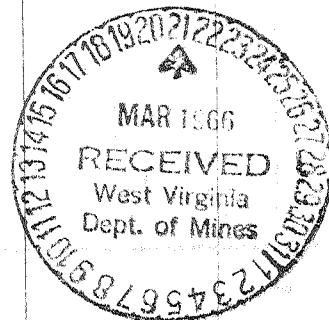
RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|-------------|-------|--------------|-----|--------|-------------------|-------|---------|
| Soil | | | 0 | 20 | | | |
| Blue Shale | | | 20 | 50 | | | |
| Gray Shale | | | 50 | 58 | | | |
| Sand | | | 58 | 83 | | | |
| Red Rock | | | 83 | 90 | | | |
| Sh & Shells | | | 90 | 220 | | | |
| R Rock | | | 220 | 230 | | | |
| Sh & Shells | | | 230 | 280 | | | |
| R Rock | | | 280 | 290 | | | |
| Sh & Shells | | | 290 | 315 | | | |
| Sand | | | 315 | 335 | | | |
| R Rock | | | 335 | 355 | | | |
| Sl & Shell | | | 355 | 400 | | | |
| Pink Pock | | | 400 | 405 | | | |
| Sl & Shells | | | 405 | 440 | | | |
| Red Rock | | | 440 | 450 | | | |
| Sl & Shells | | | 450 | 510 | | | |
| Red Rock | | | 510 | 515 | | | |
| Sl & Shells | | | 515 | 570 | | | |
| Sand | | | 570 | 580 | | | |
| Sh & Shells | | | 580 | 650 | | | |
| Lime | | | 650 | 680 | | | |
| Sl & Shells | | | 680 | 715 | | | |
| Sand | | | 715 | 730 | | | |
| Sl & Shells | | | 730 | 770 | | | |
| Red Rock | | | 770 | 896 | | | |
| Sl & Shells | | | 896 | 910 | | | |
| Sand | | | 910 | 925 | | | |
| Sh & Shells | | | 925 | 948 | | | |
| Sand | | | 948 | 972 | | | |

Water 730



| Formation | Color | Hard or Soft | Top ² | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|----------------|-------|--------------|------------------|--------|-------------------|-------------|---------|
| Sl & Shells | | | 972 | 1070 | | | |
| Sand | | | 1070 | 1120 | | | |
| Sl & Shells | | | 1120 | 1160 | | | |
| Sand | | | 1160 | 1225 | | | |
| Sl & Shells | | | 1225 | 1445 | | | |
| Sand | | | 1445 | 1530 | | | |
| B Slate | | | 1530 | 1535 | 1912 | | |
| Sand | | | 1535 | 1575 | 881 | | |
| Sl & Shells | | | 1575 | 1634 | 931 | | |
| Sand | | | 1634 | 1708 | | | |
| Slate | | | 1705 | 1715 | | | |
| Lime | | | 1715 | 1735 | | | |
| Sl & Shells | | | 1735 | 1765 | | | |
| Sand | | | 1765 | 1785 | | | |
| B Slate | | | 1785 | 1835 | | | |
| Sand | | | 1835 | 1840 | | | |
| Red Rock SH | | | 1840 | 1876 | | | |
| Lime | | | 1876 | 1904 | | | |
| Shale | | | 1904 | 1912 | | | |
| B Lime | | | 1912 | 2009 | | | |
| Sand Big Injun | | | 2009 | 2128 | Oil & Gas | | |
| Shale | | | 2128 | 2200 | TD | | |

MAR 17 1966

Date _____, 19

APPROVED Harry L. Haer, Owner

By _____ (Title)