

MINIMUM ERROR OF CLOSURE 1/500
 SOURCE OF ELEVATION Road Junction near location ~ Elev 760

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 Charles Hickman et al.
 Address Box 207, Middlebourne, W. Va.
 Farm Joe Shepherd, Surf. - Arlington Dotson Hrs. O.G. & M.
 Tract 1 Acres 68 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 780
 Quadrangle West Union - SC
 County Doddridge District Central
 Engineer Parker E. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date Dec. 14, 1963 Scale 1" = 30 P

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

WELL LOCATION MAP
 FILE NO. DOD-1092

+ 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 8

Rotary
Spudder
Cable Tools
Storage

Quadrangle West Union

Permit No. DOD 1092

WELL RECORD

Oil or Gas Well Dry
(KIND)

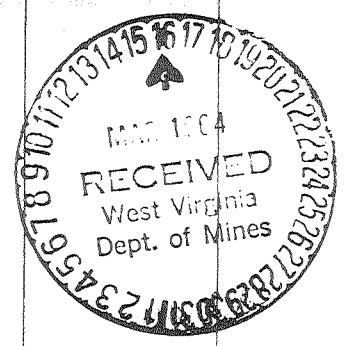
Company Charles L Hickman et al
Address Box 207, Middlebourne, W.Va.
Farm Arlington Dotson Heirs 3 Acres - 68
Location (waters) _____
Well No. 3 Elev. 780'
District Central County Doddridge
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced January 16, 1964
Drilling completed February 12, 1964
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED Water free - 300 bbls

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------------|
| Size | | | Kind of Packer _____ |
| 16 | | | |
| 10 Wood Conductor | | | |
| 10 | 368 | Pulled | Size of _____ |
| 8 1/4 | 860 | " | |
| 6 5/8 4 1/2" | 1865 | 1865' | Depth set _____ |
| 5 3/16 | | | |
| 3 | | | Perf. top _____ |
| 2 | | | Perf. bottom _____ |
| Liners Used | | | Perf. top _____ |
| | | | Perf. bottom _____ |

CASING CEMENTED 4 1/2 SIZE Halliburton No. Ft. _____ Date _____
50 lbs. Cement; 6 lbs. 9lb; 300#
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT no results (20,000 cu. ft.)
ROCK PRESSURE AFTER TREATMENT 50#
Fresh Water _____ Feet _____ Salt Water _____ Feet _____

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|------------------|-------|--------------|-----|--------|-----------------------|-------|---------|
| Top Soil | | | 0 | 5 | | | |
| Red Rock | | | 5 | 45 | | | |
| Sand | | | 45 | 55 | Water 2 bbls. hour | | |
| Red Rock | | | 55 | 75 | | | |
| Sand | | | 75 | 85 | | | |
| Slate | | | 85 | 100 | | | |
| Red Rock | | | 100 | 105 | | | |
| Sand | | | 105 | 110 | | | |
| Slate & Red Rock | | | 115 | 140 | | | |
| Sand | | | 140 | 165 | Water 1 bbl. hour | | |
| Slate & Red Rock | | | 165 | 238 | | | |
| Sand | | | 238 | 330 | Water 275 3 bbl. hour | | |
| Slate | | | 330 | 355 | | | |
| Sand | | | 355 | 365 | | | |
| Slate | | | 365 | 392 | | | |
| Lime | | | 392 | 408 | | | |
| Slate & Red Rock | | | 408 | 412 | | | |
| Slate & Shells | | | 412 | 510 | | | |
| Red Rock & Slate | | | 510 | 528 | | | |
| Slate & Shells | | | 528 | 555 | | | |
| Red Rock & Slate | | | 555 | 625 | | | |
| Lime | | | 625 | 635 | | | |
| Slate & Shells | | | 635 | 705 | | | |
| Red Rock | | | 705 | 755 | | | |
| Slate & Shells | | | 755 | 825 | | | |
| Sand | | | 825 | 862 | | | |
| Slate | | | 862 | 895 | | | |
| Sand | | | 895 | 920 | | | |
| Slate | | | 920 | 1005 | | | |



continued on other side

| Formation | Color | Hard or Soft | Top δ | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------|-------|--------------|--------------|--------|-------------------|-------------|--|
| Sand | | | 1005 | 1025 | | | |
| Slate | | | 1025 | 1135 | | | |
| Sand | | | 1135 | 1155 | | | |
| Slate | | | 1155 | 1175 | | | |
| Sand | | | 1175 | 1265 | | | |
| Slate | | | 1265 | 1350 | | | |
| Sand | | | 1350 | 1395 | | | |
| Slate | | | 1395 | 1405 | | | |
| Sand | | | 1405 | 1441 | | | |
| Slate | | | 1441 | 1470 | | | |
| Sand | | | 1470 | 1480 | | | |
| Slate | | | 1480 | 1550 | | | |
| Pink Rock | | | 1550 | 1580 | | | |
| Slate | | | 1580 | 1575 | | | |
| Lime | | | 1575 | 1582 | | | |
| Slate | | | 1582 | 1592 | | | |
| Lime | | | 1592 | 1610 | | | Gas @ 1592 1710-11 |
| Slate | | | 1610 | 1620 | | | |
| Pencil Cave | | | 1620 | 1628 | | | |
| Big Lime | | | 1628 | 1705 | | | |
| Sand | | | 1705 | 1820 | | | Oil Scum 1718-23 |
| Slate | | | 1820 | 1865 | | | Total Depth Oil Scum-Gas 1737-49 Gas 1749-56 Oil & Gas 1801-06 Oil 1806-13 |

1628
780
848

Gas @ 1592 1710-11

Oil Scum 1718-23
Total Depth
Oil Scum-Gas 1737-49
Gas 1749-56
Oil & Gas 1801-06
Oil 1806-13

Date **March 14, 1964.** 19

APPROVED **Charles L. Hickman et al**, Owner

By *Charles L. Hickman et al*
(Title)