



"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 SURVEY OF THE MINING LAND OF WEST VIRGINIA."

Paul S. Dean

New Location
 Drill Deeper
 Abandonment

B.M. REF. - Jct. of County Road to Route 57 - 1000' ± E. of Location
 Minimum Error of Closure 1/25,000 - Location is 50' ± from Pittsburgh Coal

Company LOCK 3 OIL, COAL & CORK CO.
 Address 415 PARDON BLVD, PITTSBURGH 12, PA.
 Farm ROY STEWART, Et. Al.
 Tract 1 Acres 23.92 Lease No. _____
 Well (Farm) No. ONE Serial No. _____
 Elevation (Spirit Level) 1155
 Quadrangle PHILIPPI - NW
 County BARBOUR District ELK
 Engineer Paul S. Dean
 Engineer's Registration No. 1856
 File No. 124-9-7 Drawing No. 66-74
 Date Nov. 13, 1966 Scale 1" = 20 P = 330'

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

WELL LOCATION MAP

FILE NO. 644-820

Browner 320

+ 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.

Prod
2010



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION /
WELL RECORD

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

Quadrangle Philippi
Permit No. BAR-320

Company Lock 3 Oil Coal & Dock Co.
Address 415 Porter Bld., Pittsburgh, Pa.
Farm Roy Stewart Acres 23.9
Location (waters) Elk
Well No. Stewart #1 Elev. 1155'
District Elk County Barbour
The surface of tract is owned in fee by Roy Stewart
Address Philippi W. Va.
Mineral rights are owned by Roy Stewart
Address Philippi, W. Va.
Drilling commenced 9/6/66
Drilling completed 12/6/66
Date Shot Not Shot From _____ To _____
With _____

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|----------------------|--------------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | 18' | 18' | |
| 10 | 407' | 407' | Size of |
| 8 1/4 | 1510' | None None | |
| 6 3/4 | | | Depth set |
| 5 3/16 | | | |
| 4 1/2 | 4392' | 4392' | |
| 3 | | | Perf. top 4045' |
| 2 | | | Perf. bottom 4050' |
| Liners Used | | | Perf. top 4362' |
| | | | Perf. bottom 4366' |

Open Flow 1/10ths Water in _____ Inch
1/10ths 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 4392' No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. Lawson Cementing Co.
COAL WAS ENCOUNTERED AT None FEET INCHES

WELL ACIDIZED (DETAILS) _____ FEET INCHES FEET INCHES
WELL FRACTURED (DETAILS) Bensen 825 bbs. water 24,000 lbs sand; Riley 1,100 bbs. water 35,000 bbs

RESULT AFTER TREATMENT (Initial open flow or bbls.) 1,000,000 cf
ROCK PRESSURE AFTER TREATMENT 1,000 lbs HOURS 2 1/2 hours
Fresh Water 100', 150', 300' Feet Salt Water None 666' Feet
Producing Sand Bensen & Riley Depth Riley 4045-Bensen 4362

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|-------------|-------|--------------|-----|--------|-------------------|-------|-----------------|
| Clay | | | 0 | 15 | | | |
| Slate | | | 15 | 33 | | | |
| Red Rock | | | 33 | 75 | | | |
| Slate | | | 75 | 133 | Water | 100' | 8 bbs. per hour |
| Red Rock | | | 133 | 149 | " | 150' | Hole Full |
| Slate | | | 149 | 196 | | | |
| Black Slate | | | 196 | 198 | | | |
| Red Rock | | | 198 | 210 | | | |
| Slate | | | 210 | 215 | | | |
| Lime | | | 215 | 230 | | | |
| Red Rock | | | 230 | 250 | | | |
| Slate | | | 250 | 284 | | | |
| Sand | | | 284 | 298 | | | |
| Slate | | | 298 | 312 | | | |
| Lime | | | 312 | 320 | | | |
| Slate | | | 320 | 350 | | | |
| Lime | | | 350 | 374 | | | |
| Slate | | | 374 | 390 | | | |
| Gritty Lime | | | 390 | 435 | | | |
| Slate | | | 435 | 445 | | | |
| Gritty Lime | | | 445 | 529 | | | |
| Sand | | | 529 | 540 | | | |
| Lime | | | 540 | 555 | | | |
| Slate | | | 555 | 565 | | | |
| Lime | | | 565 | 600 | | | |
| Slate | | | 600 | 630 | | | |
| Black Slate | | | 630 | 635 | | | |
| Slate | | | 635 | 640 | | | |
| Sand | | | 640 | 662 | | | |



| Formation | Color | Hard or Soft | Top / | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------|-------|--------------|-------|---------|-------------------|-------------|-------------------------|
| Sand | | | 666 | 702 | Water | 666 | Hole Full |
| Slate | | | 702 | 712 | | | |
| Black Slate | | | 712 | 715 | | | |
| Slate | | | 715 | 722 | | | |
| Lime | | | 722 | 736 | | | |
| Sand | | | 736 | 775 | | | |
| Slate | | | 775 | 832 | | | |
| Lime | | | 832 | 865 | | | |
| Slate | | | 865 | 897 | | | |
| Critty Lime | | | 897 | 913 | | | |
| Sand | | | 913 | 970 | | | |
| Slate | | | 970 | 1050 | | | |
| Lime | | | 1050 | 1076 | | | |
| Sand | | | 1076 | 1103 | | | |
| Slate | | | 1093 | 1108 | | | |
| Lime | | | 1108 | 1150 | | | |
| Red Rock | | | 1150 | 1166 | | | |
| Lime | | | 1186 | 1200 | | | |
| Red Rock | | | 1200 | 1218 | | | |
| Lime | | | 1218 | 1270 | | | |
| Red Rock | | | 1270 | 1304 | | | |
| Lime | | | 1304 | 1337 | | | |
| Red Rock | | | 1337 | 1368 | | | |
| Slate | | | 1368 | 1426 | | | |
| Big Lime | | | 1426 | 1516 | | | |
| Sand | | | 1516 | 1621 | | | |
| Slate | | | 1621 | 1650 | | | |
| Slate | | | 1650 | 1645 | | | |
| Sand | | | 1645 | 1967 | | | |
| Slate | | | 1967 | 2011 | | | |
| Lime | | | 2011 | 2012 | | | |
| Slate | | | 2012 | 2060 | | | |
| Red Rock | | | 2060 | 2264 | | | |
| Lime | | | 2264 | 2292 | | | |
| Sand | | | 2292 | 2323 | | | |
| Slate | | | 2323 | 2348 | | | |
| Sand 5th | | | 2348 | 2438 | | | |
| Slate | | | 2438 | 2742 | | | |
| Lime | | | 2742 | 2791 | | | |
| Slate | | | 2791 | 2956 | | | |
| Lime | | | 2956 | 2970 | | | |
| Slate | | | 2970 | 3007 | | | |
| Lime | | | 3007 | 3070 | | | |
| Slate | | | 3070 | 3372 | | | |
| Lime | | | 3372 | 3490 | | | |
| Slate | | | 3490 | 3523 | | | |
| Lime | | | 3523 | 3615 | | | |
| Slate | | | 3615 | 3665 | | | |
| Critty Lime | | | 3665 | 3813 | | | |
| Slate | | | 3813 | 4020 | Gas | 4028' | Show |
| Lime | | | 3813 | 4050 | Gas | 4025 | " |
| Sand Riley | | | 4020 | 4372 | | | |
| Slate | | | 4050 | 4372 | | | |
| Sand Bensen | | | 4372 | 4392 TD | Gas | 4372-4380 | 2 1/2" 10"-1" 52,000 cf |

Date January 26, 1967

APPROVED LOCK 3 OIL COAL & DOCK COMPANY Owner

By A. C. Muse
A. C. Muse (Title) Vice President