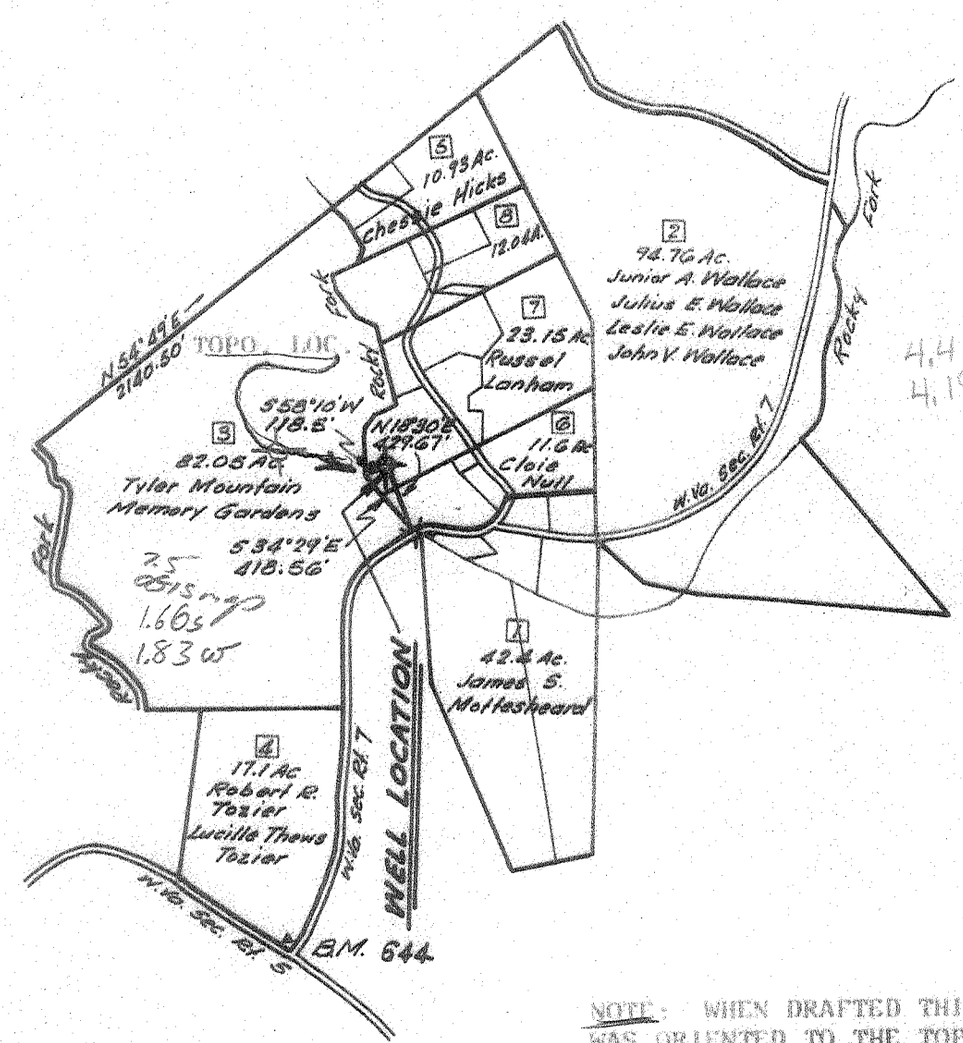
Plot ✓ Log ✓ Card ✓ CSD ___ Mflm ✓

Latitude 38° 30' / 38° 27' 30"

Longitude 81° 40' / 81° 42' 30"




NOTE: WHEN DRAFTED THIS LOCATION WAS ORIENTED TO THE TOPOGRAPHIC LOCATION MAKING BOTH FALL INTO THE SAME POSITION ON THIS PLAT.

New Location . ☒
Drill Deeper . . . . ☐
Redrill . . . . . ☐
Abandonment . . . . . ☒ 10-10-67

"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 Allen Beard
Address Box 57, Point Pleasant, W. Va.
Farm RUSSELL LANHAM, ET AL UNIT
Tract 8 Acres 290.0 Lease No.
Well (Farm) No. 1 Serial No.
Elevation (Spirit Level) 604.27
Quadrangle CHARLESTON NW
County KANAWHA District UNION
Engineer [illegible]
Engineer's Registration No. 1530
File No. S-377 Drawing No. 1
Date Feb. 15, 1967 Scale 1" = 1000'

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

# WELL LOCATION MAP

FILE NO. K[illegible]-2096-P

+ 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 [illegible] original tracing.

ALLEN BLUEPRINT & SUPPLY CO.
OCT 23 1967

(Deep Well Fracturing)

Form OG-10

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary [X]
Spudder [ ]
Cable Tools [ ]
Storage [ ]

Quadrangle Charleston

# WELL RECORD

Permit No. KAN 2096

Oil or Gas Well Gas (Dry) show
(KIND)

Company Allen Beard
Address Box 57, Pt. Pleasant, W.Va.
Farm Russell Lanham 23.15 ac. Acres 290 unitization
Location (waters) Rocky Fork
Well No. #1 Elev. 609.3 K.B. 601 G.L.
District Union County Kanawha
The surface of tract is owned in fee by Russell Lanham
Address Rocky Fork
Mineral rights are owned by Same
Address
Drilling commenced 2/28/67
Drilling completed 3/19/67
Date Shot not shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 805 MCF Natural Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs. No

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|---|---|---|---|
| Size | | | |
| 16 | | | Kind of Packer |
| 13 3/8 | 60 | 60 | |
| 10 | | | Size of |
| XXX 9 5/8 | 1820 | 1820 | |
| 6 5/8 | | | Depth set |
| 5 3/16 | | | |
| x 4-1/2 | 5375 | 5375 | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

65 sacks
CASING CEMENTED 13-3/8 SIZE 60 No. Ft. 3/2/67 Date
9-5/8-1820-60 sacks-3/5/67; 4-1/2-5375-300 sacks-3/21/67

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

WELL ACIDIZED 4/13/67- 1500 gallons mud acid As spearhead for frac.
WELL FRACTURED 4/13/67 (see completion data)

RESULT AFTER TREATMENT 5.000 to 10.000 MCF (estimated open flow) show
ROCK PRESSURE AFTER TREATMENT 2300/12 hours

Fresh Water Feet Salt Water Feet

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|---|---|---|---|---|---|---|---|
| LITHOLOGY BASED ON GAMMA LOG-USE K.B. ELEVATION OF 609.3 | | | | | | | |
| Sand | | | 0 | 23 | | | |
| Shale | | | 23 | 48 | | | |
| Sand | | | 48 | 52 | | | |
| Shale | | | 52 | 83 | | | |
| Sand | | | 83 | 180 | | | |
| Shale | | | 180 | 187 | | | |
| Sand | | | 187 | 203 | | | |
| Shale | | | 203 | 216 | | | |
| Sand | | | 216 | 267 | | | |
| Shale | | | 267 | 296 | | | |
| Siltstone | | | 296 | 323 | | | |
| Sand | | | 323 | 344 | | | |
| Shale | | | 344 | 368 | | | |
| Sand | | | 368 | 560 | | | |
| Shale | | | 560 | 598 | | | |
| Sand | | | 598 | 618 | | | |
| Siltstone and Shale | | | 618 | 701 | | | |
| Sand | | | 701 | 737 | | | |
| Shale | | | 737 | 776 | | | |
| Siltstone | | | 776 | 786 | | | |
| Shale | | | 786 | 831 | | | |
| Siltstone | | | 831 | 851 | | | |
| Shale | | | 851 | 857 | | | |
| Sand | | | 857 | 927 | | | |
| Shale | | | 927 | 946 | | | |
| Sand | | | 946 | 1074 | | | |
| Shale | | | 1074 | 1083 | | | |
| Sand | | | 1083 | 1176 | | | |

RECEIVED
OCT 23 1967
Dept. of Mines

(over)

OCT 23 1967

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|---|---|---|---|---|---|---|---|
| Shale with siltstone stringers | | | 1176 | 1307 | | | |
| Sand - Mayfield | | | 1307 | 1366 | | | |
| Little Lime | | | 1366 | 1432 | | | |
| Big Lime | | | 1432 | 1574 | | | |
| Shale | | | 1574 | 1589 | | | |
| Injun | | | 1589 | 1638 | | | |
| Shale | | | 1638 | 1656 | | | |
| Sand - Weir | | | 1656 | 1665 | | | |
| Siltstone | | | 1665 | 1685 | | | |
| Shale | | | 1685 | 2045 | | | |
| Coffee Shale | | | 2045 | 2063 | | | |
| Berea | | | 2063 | 2074 | | | |
| Shale | | | 2074 | 4466 | | | |
| Marcellus | | | 4466 | 4505 | | | |
| Onondaga | | | 4505 | 4599 | | | |
| Oriskany | | | 4599 | 4616 | | | |
| Citerty Limestone - Corry Helderberg | | | 4616 | 4780 | | | Glauconitic |
| Pure Limestone | | | 4780 | 4820 | | | |
| Top Silurian | | | 4820 | | | | |
| Interbedded Dolomite & Annydrite - Salina | | | 4820 | 5322 | | | |
| Newburg | | | 5322 | 5341 | | | |
| Dolomite - McKenzie | | | 5341 | 5375 | | | |
| T. D. | | | | 5375 Logger<br>5345 Driller | | | |

5322
609
4713

CHRONOLOGICAL SEQUENCE OF EVENTS:

2/28/67 Commenced Drilling
3/2/67 Ran 60' of 13-3/8-cemented with 65 sacks.
3/5/67 Ran 1820' of 9-5/8- cemented with 60 sacks
3/20/67 Ran Gamma Ray, Density, and Caliper (Basin Surveys)
3/21/67 Ran 5374 of 4-1/2" (N-80) 11.6#-cemented with 300 sacks (Dowell)
4/12/67 Ran Cement Bond Log and Perforated (Basin Surveys):

3 holes - 5326
3 holes - 5327
3 holes - 5328
1 hole - 5329

Corrected to original Log run by Basin Surveys on 3/20/67
Note: Well blew out 2,000' of water in hole after perforating.

4/13/67 Fraced Well (Dowell):

1500 gallons mud acid (Spearhead)
13,000# Sand
488 Bbls.
4200# Breakdown Pressure
19.3 Bbls/min=Average adjusted injection rate.

RESULTS:

Before Frac = 805 MCF
After Frac = 5.000 to 10.000 MCF (estimated open flow - Well still cleaning up)
Rock Pressure 2200#/12 hours

Date _____, 19____

APPROVED _____, Owner

By _____
(Title)