

LATITUDE

3950

80 32 30

LONGITUDE

LONGITUDE

→ OGIS 7.5' loc

7.5 OGIS topo location

| | | | |
|----------|--------------|---------|--------------|
| 7.5' loc | <u>2.50S</u> | 15' loc | <u>2.50S</u> |
| | <u>1.15W</u> | (calc.) | <u>3.35W</u> |

Company _____

Farm _____

LOCATION MAP

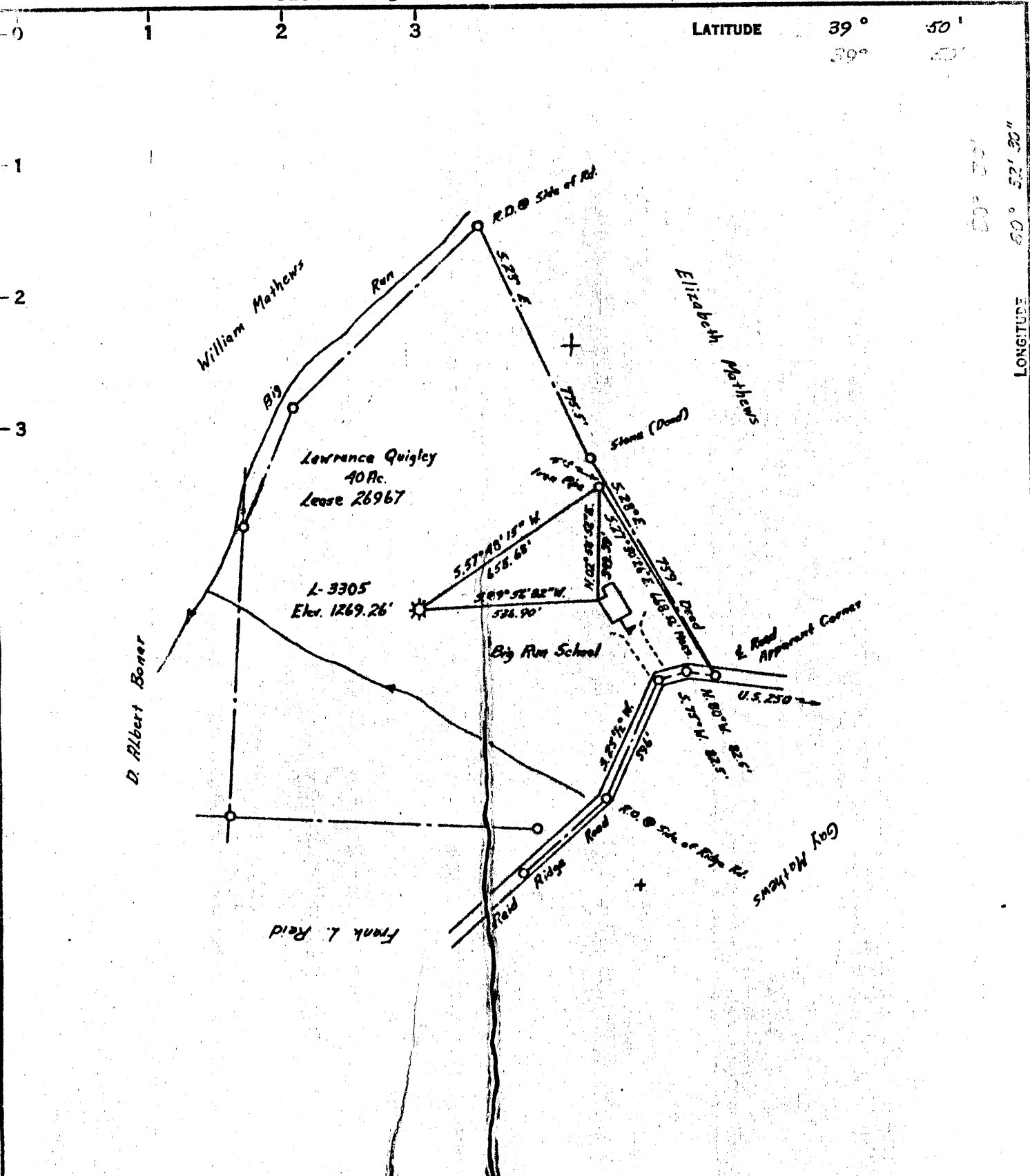
Quad Cameron ↘ 15' SE

County _____

District Liberty

WELL LOCATION MAP

File No. Marshall 66

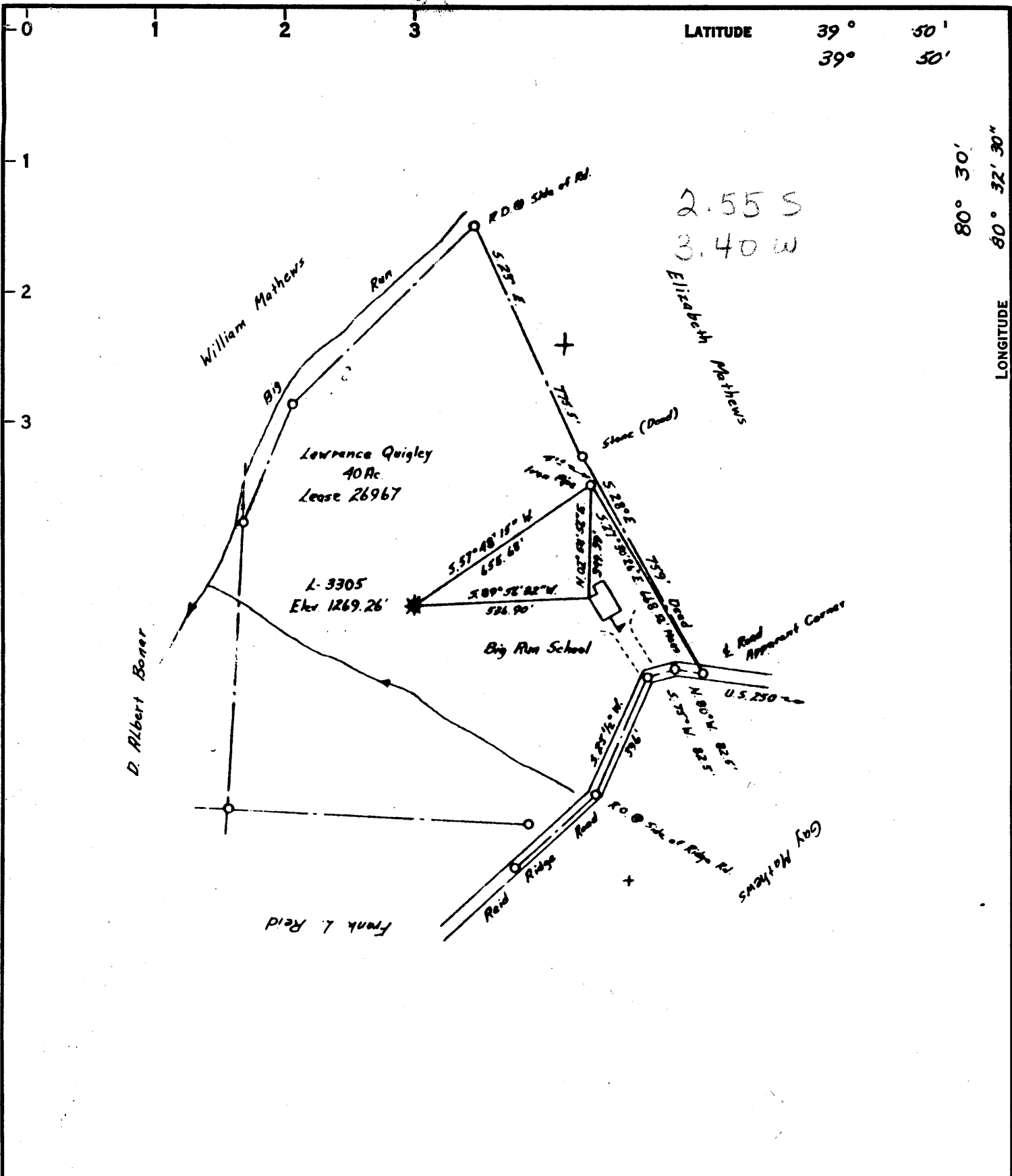


COAL OWNED BY M.A. Hanna Coal Co.'s, Tosa Coal Co.'s
~~Redrilled for Storage~~
 NEW LOCATION.....
 DRILL DEEPER.....
 ABANDONMENT.....
Issued 8-7-69

Degree of accuracy 1/6127
 "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."
Robert McNeill (SE)

COMPANY The Manufacturers Light & Heat Company
 ADDRESS 800 Union Trust Bldg. Pittsburgh Pa.
 FARM Lawrence H. Quigley
 MAP 0-25/24 ACRES 40 LEASE No. L-26967
 WELL (FARM) No. 1 SERIAL No. L-3305
 ELEVATION (SPIRIT LEVEL) 1269.26'
 QUADRANGLE Cameron W. Va. - Pa. T11 (162,500) SE
 COUNTY Marshall DISTRICT Liberty
 POINT OF PROVEN ELEVATION Intersection of Reid Ridge Road & U.S. 250
 FILE No. _____ DRAWING No. Y-25-708
 DATE March 18, 1963 SCALE 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE No. MARS-66-REDRILL-F
 + 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



COAL OWNED BY M. A. Hanna Coal Co. 2/3, Tosa Coal Co. 1/3

Deed No. 16127

Redrilled for Storage
 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 the laws of this State in connection with the oil and gas operations of the field in which it is located. Robert McNeill (Jr)

COMPANY The Manufacturers Light & Heat Company
 ADDRESS 800 Union Trust Bldg. Pittsburgh, Pa.
 FARM Lawrence H. Quigley
 DATE 0-25/24 ACRES 40 LEASE NO. L-26967
 WELL (FARM) NO. 1 SERIAL NO. L-3305
 ELEVATION (SPIRIT LEVEL) 1269.26'
 QUADRANGLE Cameron W. Va. - Pa. 7 1/2' (1/62,500) SE
 COUNTY Marshall DISTRICT Liberty
 POINT OF INTEREST Intersection of Reid Ridge Road & U.S. 250

FILE NO. _____ DRAWING NO. Y-25-708
 DATE March 18, 1963 SCALE 1" = 400'

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

WELL LOCATION MAP
 FILE NO. MARS-66-REDRILL

+ 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

Quadrangle CAMERON

Permit No. MARS-66-R

WELL RECORD

Oil or Gas Well Storage GAS
(KIND)

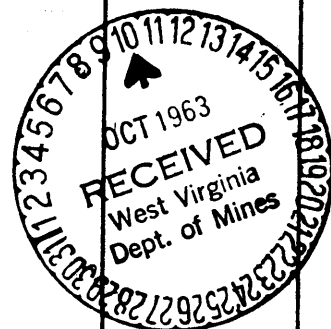
Company The Mfrs. Lt. and Ht. Co.
Address 800 Union Trust Building, Pittsburgh 19, Pa.
Farm L. H. Quigley Acres 40
Location (waters) _____
Well No. 3305 Elev. 1269.26'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced May 9, 1963
Drilling completed July 22, 1963
Date Shot 7/22/63 From Big Injun To _____
With Orifice Gas Well Tester
Open Flow .0/10ths Water in 1/4 Inch
None /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure 30 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | |
| 16 | | | Kind of Packer |
| 18 3/8" | 98' | 98' | |
| 10 3/4" | 218' | 218' | Size of |
| 8 5/8" | 1408' | 1408' | |
| 7" | 1984' | 1984' | Depth set |
| 5 8/16 | | | |
| 4" | 2090' | 2090' | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 904 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

| Formation | Color | THICKNESS | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------------------------|-------|-----------|------|--------|-------------------|-------------|---------|
| ✓Pittsburgh Coal | | 9 | 904 | 913 | | | |
| ✓Murphy Sand | | 60 | 1030 | 1090 | | | |
| ✓1st Salt Sand | | 59 | 1545 | 1604 | | | |
| ✓3rd Salt Sand | | 28 | 1792 | 1820 | | | |
| ✓Maxton Sand | | 66 | 1900 | 1966 | | | |
| ✓Lower Maxton | | 7 | 2010 | 2017 | | | |
| ✓Big Lime | | 37 | 2022 | 2059 | | | |
| ✓Big Injun Sand | | | 2064 | | | | |
| Total Depth | | | | 2288' | | | |
| 4 1/2 Formation Packer Shoe @ | | | | 2091' | | | |
| Old 7" Left in | | | 1988 | 2046 | | | |





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle CAMERON

Permit No. MARS-66-R

WELL RECORD

Oil or Gas Well GAS
(KIND)

Company The Mfrs. Lt. and Ht. Co.
 Address 800 Union Trust Building, Pittsburgh 19, Pa.
 Farm L. H. Quigley Acres 40
 Location (waters) _____
 Well No. 3305 Elev. 1269.26'
 District Liberty County Marshall
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced May 9, 1963
 Drilling completed July 22, 1963
 Date Shot 7/22/63 From Big Injun To _____
 With Orifice Gas Well Tester
 Open Flow .0/10ths Water in 1/4 Inch
 _____/10ths Merc. in _____ Inch
 Volume None Cu. Ft.
 Rock Pressure 30 lbs. 48 hrs.
 Oil _____ bbla., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | |
| 16 | | | Kind of Packer |
| 13 3/8" | 98' | 98' | |
| 10 3/4" | 218' | 218' | Size of |
| 8 5/8" | 1408' | 1408' | |
| 8 1/2" | 1984' | 1984' | Depth set |
| 5 3/16 | | | |
| 3x 4" | 2090' | 2090' | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

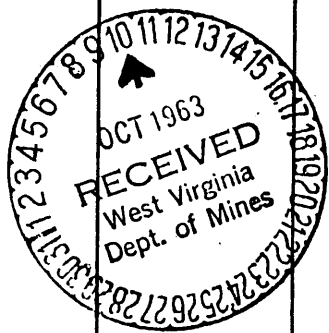
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 904 FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | THICKNESS | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|------------------------|-------|-----------|------|--------|-------------------|-------------|---------|
| Pittsburgh Coal | | 9 | 904 | 913 | | | |
| Murphy Sand | | 60 | 1030 | 1090 | | | |
| 1st Salt Sand | | 59 | 1545 | 1604 | | | |
| 3rd Salt Sand | | 28 | 1792 | 1820 | | | |
| Maxton Sand | | 66 | 1900 | 1966 | | | |
| Lower Maxton | | 7 | 2010 | 2017 | | | |
| Big Lime | | 37 | 2022 | 2059 | | | |
| Big Injun Sand | | | 2064 | | | | |
| Total Depth | | | | 2288' | | | |
| 4 1/2 Formation Packer | | Shoe @ | | 2091' | | | |
| Old 7" Left in | | | 1988 | 2046 | | | |



THE MANUFACTURERS LIGHT & HEAT Company

COMPLETION DATA SHEET

800 Union Trust Bldg., Pittsburgh, Pa. Address

No. 2

WELL No. 1 - 3305

FARM D. A. Mathews

FORMATION RECORD

| Name | Color | Character | Oil, Gas or Water | Top | Bottom | Thickness | Total Depth | Remarks |
|--|-------|-----------|-------------------|------|--------|-----------|-------------|---------|
| DRILLING DEEPER - Permit Mars 66 - Sept. 16, 1936. | | | | | | | | |
| Big Lime | | | | 2024 | 2065 | 41 | | |
| Big Injun Sand | | | | 2065 | 2305 | 240 | | |
| Slate & Shells | | | | 2305 | 2885 | 580 | | |
| Fifty Foot Sand | | | | 2885 | 2910 | 25 | | |
| Gordon Stray Sand | | | | 2910 | 2953 | 35 | | |
| Gordon Sand | | | | 2985 | 3000 | 15 | | |
| Slate & Shells | | | | 3000 | 3164 | 164 | | |
| Total depth | | | | | 3164 | | | |

shot
Well was not shot at feet; well was shot at feet.

Salt
Fresh water at feet; fresh water at feet.

producing
Well was hole.

THE MANUFACTURERS LIGHT & HEAT COMPANY,

January 2nd, 1937

Approved

[Signature]

Owner Land Department.

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

