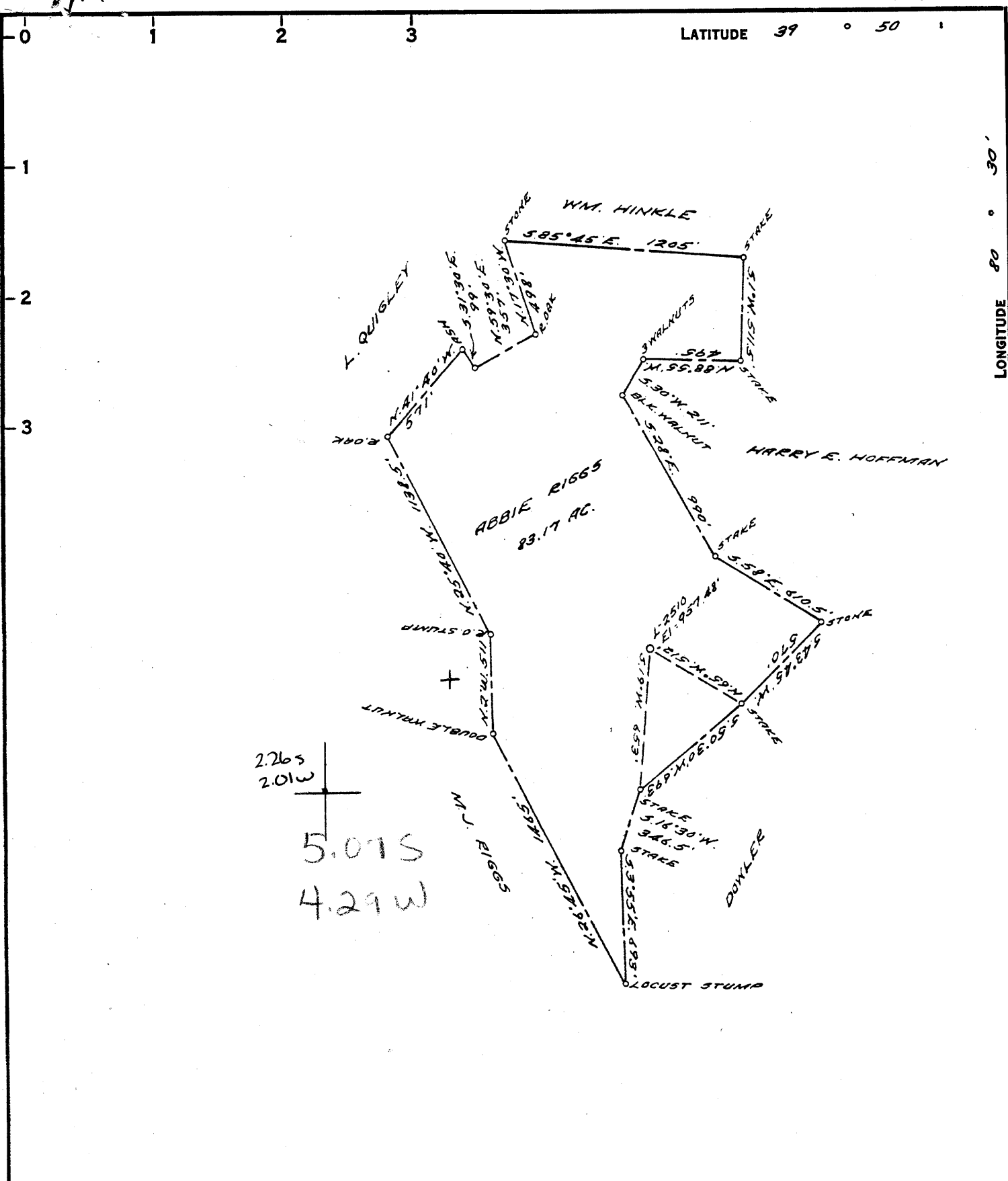


39°47'30"

80°32'30"

LATITUDE 39 ° 50 ' 1

LONGITUDE 80 ° 30 ' 1



COAL OWNED BY _____
 RECONDITION _____
 NEW LOCATION.....
 DRILL DEEPER.....
 ABANDONMENT.....

0-25-29

COMPANY THE MANUFACTURERS LIGHT & HEAT
 ADDRESS 800 UNION TRUST BLDG. PSH. PA.
 FARM ABBIE RIGGS
 TRACT _____ ACRES 84 LEASE No. 26649
 WELL (FARM) No. 1 SERIAL No. 2510
 ELEVATION (SPIRIT LEVEL) 957.48'
 QUADRANGLE CAMERON - SE
 COUNTY MARSHALL DISTRICT LIBERTY
 ENGINEER Thomas E. Virgin Jr.
 ENGINEER'S REGISTRATION No. 1503
 FILE No. _____ DRAWING No. V-15-987
 DATE 2 JULY 59 SCALE 1" = 660'

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

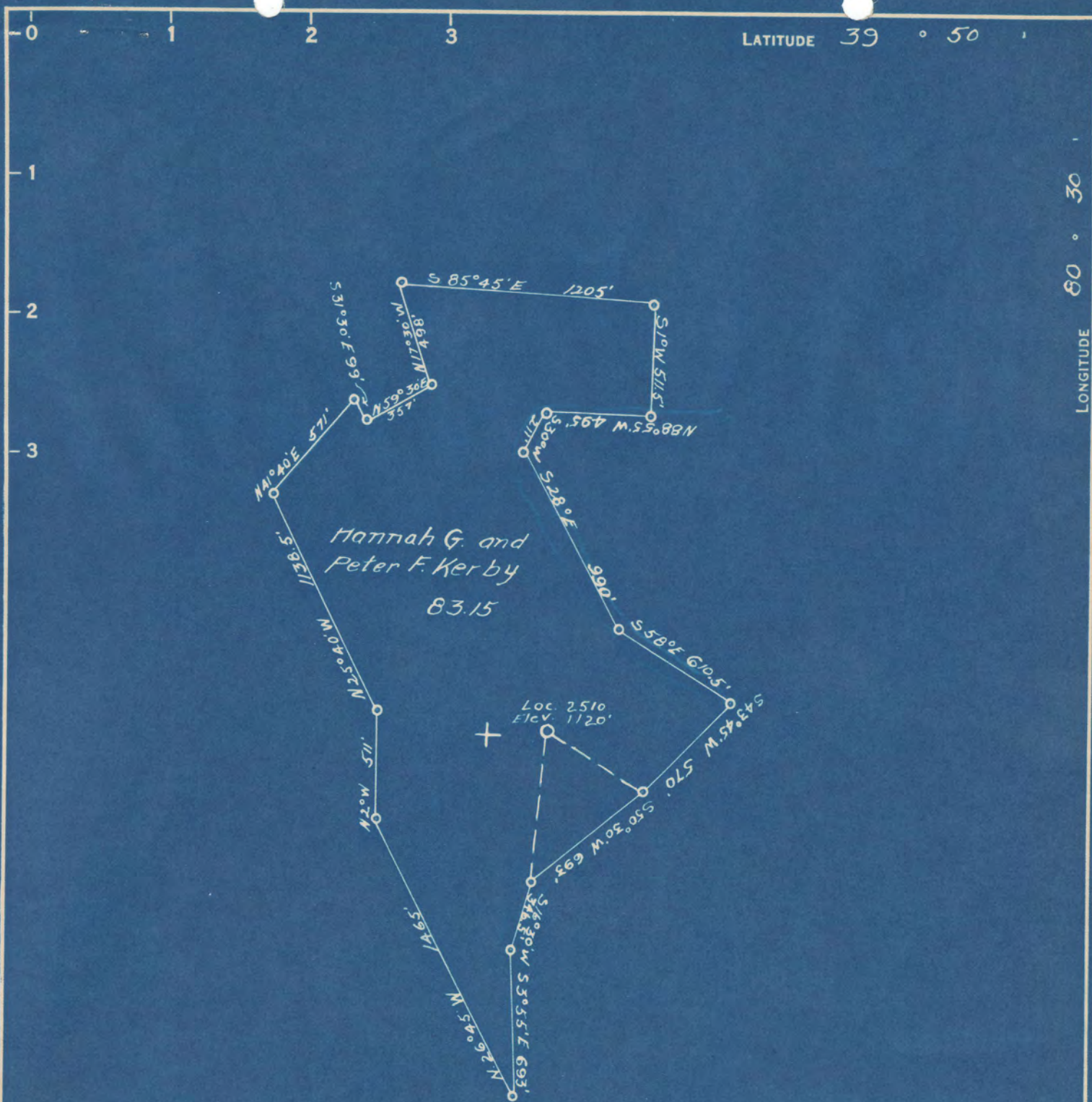
WELL LOCATION MAP

FILE No. MARS-356-Redrill
 (Storage)

+ 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.

9-0 25

540



COAL OWNED BY Denver Fuel Co.
 % A. D. Williams, Atty.
 Uniontown, Pa

NEW LOCATION

DRILL DEEPER

ABANDONMENT

5.10S
 4.26W

5.18 S
 4.34 W

COMPANY The Manufacturers Light & Heat Co.

ADDRESS 800 Union Trust Bldg Pittsburgh Pa

FARM Hannah G & Peter F. Kerby

TRACT _____ ACRES 83.15 LEASE No. 2266

WELL (FARM) No. 1 SERIAL No. 2510

ELEVATION (SPIRIT LEVEL) 1120'

QUADRANGLE Cameron

COUNTY Marshall DISTRICT Liberty

ENGINEER Thomas J. Virgin

ENGINEER'S REGISTRATION No. _____

FILE No. _____ DRAWING No. Y-13-183

DATE May 3 1949 SCALE 1" = 660'

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

WELL LOCATION MAP

FILE No. MARS-300-A

+ 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-356-R

WELL RECORD

Oil or Gas Well Gas
(KIND)

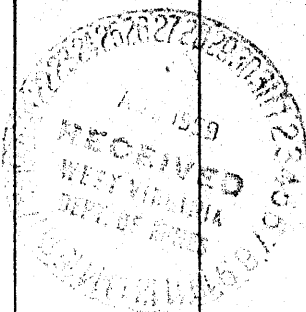
Company The Manufacturers Light and Heat Company
Address 800 Union Trust Building, Pgh. 19, Penna.
Farm Abbie RIGGS Acres 84
Location (waters) _____
Well No. 2510 Elev. 957.48'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced June 9, 1959
Drilling completed August 1, 1959
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ 387' _____ Cu. Ft.
Rock Pressure 100 lbs. 168 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
10"	182	182	Size of
8 1/4"	1136	1136	
6 3/8"			Depth set
5 3/16"			
7"	1838	1838	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

Formation	Color	Hard or Soft THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Schlumberger Well Survey							
✓ Pittsburgh Coal		7	673	680	All pipe measured over threads Run 182' of 10 3/4" Casing, Sm.H.32.75# on a steel shoe. Cemented with 200 bags of cement, 15.2 lbs. per gallon. Good return at the surface. Run 1136' of 8 5/8" Casing, Sm.J.24# on a steel shoe. Cemented with 300 bags of cement 14.2 lbs. per gallon. No cement return at the surface. Run 1838' of 7" Casing, Sm.J.20# on a steel shoe set at 1824'. Run 25lbs. of Hydrotan and cemented with 300 bags of cement, 14.2 lbs per gallon. Good return of cement at the surface. Left old 7" casing in hole from 1850' to 1870'. Plugged hole back from 2416' to 1990' with 95 bags of cement, 15 lbs. per gallon, through 2" tubing. Total depth 1990'. Perforated old 7" - 80 shots - 1850-1870 4 shots per foot.		
✓ Big Dunkard		29	1190	1219			
✓ Big Lime			1816				
✓ Big Injun Sand				2110			
Total Depth				1990			
7" Shoe set at				1824			
			1816 957 859				





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

343

WELL RECORD

Permit No. Ab 300-A Oil or Gas Well (X)
(KIND)

Company The Manufacturers Light & Heat Company
 Address 800 Union Trust Building, Pgh., Pa.
 Farm P. F. Kirbey Acres 85
 Location (waters) _____
 Well No. 2510 Elev. 1120
 District Liberty County Marshall
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by The Mfrs. Light & Heat Co.
800 Union Trust Bldg. Address Pittsburgh, Pa.
 Drilling commenced November 19, 1919
 Drilling completed February 4, 1920
 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.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	185		Size of <u>6-5/8x4</u>
8 1/4	1133		
6 1/2	1882	1882	Depth set <u>267 1/2' 08"</u>
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

COAL WAS ENCOUNTERED AT 150 FEET 36 INCHES
230 FEET 60 INCHES 580 FEET 72 INCHES
676 FEET 72 INCHES 1600 FEET 48 INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Native Coal			150	153			
Coal			230	235			
Coal			580	586			
Pittsburgh Coal			676	682			
Murphy Sand			854	874	2 bailers water 1 hour.		
Little Dunkard			1070	1108			
Big Dunkard			1180	1230			
Gas Sand			1390	1425	little show of gas 1420.		
1st. Salt Sand			1440	1475			
2nd. Salt Sand			1555	1588			
Lower Freeport Coal			1600	1604			
Pencil Cave			1796	1810			
Big Lime			1810	1850			
Big Injun			1850	2136	Show oil and gas at 1860.		
Gordon			2664	2678			
Fourth Sand			2719	2749	Show of oil at 2723.		
Fifth Sand			2771	2785	Pay gas at 2772 - 2775.		
TOTAL DEPTH				2806			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks

Date MAY 5, 1949

APPROVED THE MANUFACTURERS LIGHT & HEAT COMPANY, Owner

By *[Signature]* LAND AGENT.

P. F. KIRBY NO. 2510 WELL.

Liberty District, Marshall County, W. Va.

By The Manufacturers Light & Heat Co., 800 Union Trust Bldg., Pittsburgh, Pa.

Abandoned under permit Mars-.....-A?

On 85 acres.

Elevation, 1120' L.

Minerals owned by The Manufacturers Light & Heat Co., 800 Union Trust Bldg., Pittsburgh, Pa.

Drilling commenced Nov. 19, 1919; completed Feb. 4, 1920.

10" casing, 185' (pulled); 8 1/2", 1133' (pulled); 6 3/8", 1882'.

Packer, 6 3/8" x 8 x 4, set at 2676' 8".

Coal was encountered at 150-153, 230-235, 580-586, 676-682, and 1600-1604'.

Gas well. Record to Dept. of Mines dated May 5, 1949.

Record to RCT from Mrs. Griffith September 14, 1949. Old File No. 343.

	Top.	Bottom.
Native coal	150	- 153
Coal	230	- 235
Mapletown Coal, Mapletown (Sewickley)	580	- 586
Pittsburgh Coal	676	- 682
Murphy Sand (2 bailers water 1 hour)	854	- 874
Little Dunkard Sand	1070	- 1108
Big Dunkard Sand	1180	- 1230
Gas Sand (little show of gas, 1420')	1390	- 1425
1st Salt Sand	1440	- 1475
2nd Salt Sand	1555	- 1588
Lower Freeport Coal	1600	- 1604
Pencil Cave	1796	- 1810
Big Lime	1810	- 1850
Big Injun Sand (show oil and gas, 1860')	1850	- 2136
Gordon Sand	2664	- 2678
Fourth Sand (show of oil, 2723')	2719	- 2749
Fifth Sand (pay gas, 2772-2775')	2771	- 2885
Total depth		2806