

COAL OWNED BY _____
 RECON ACTIVE WELL
 PER. PLUG.
 NEW LOCATION.....
 DRILL DEEPER.....
 ABANDONMENT.....

To Be Drilled Deeper Under Permit

COMPANY THE MANUFACTURERS LIGHT & HEAT
 ADDRESS 800 UNION TRUST BLDG. PGH. PA.
 FARM J. H. MILLER
 TRACT _____ ACRES 90 LEASE No. 2296
 WELL (FARM) No. 1 SERIAL No. 2519
 ELEVATION (SPIRIT LEVEL) 860' SC
 QUADRANGLE CAMERON
 COUNTY MARSHALL DISTRICT LIBERTY
 ENGINEER Thomas E. Unger M.
 ENGINEER'S REGISTRATION No. 1503
 FILE No. _____ DRAWING No. Y-15-648
 DATE 26 SEP. 1957 SCALE 1"=800'

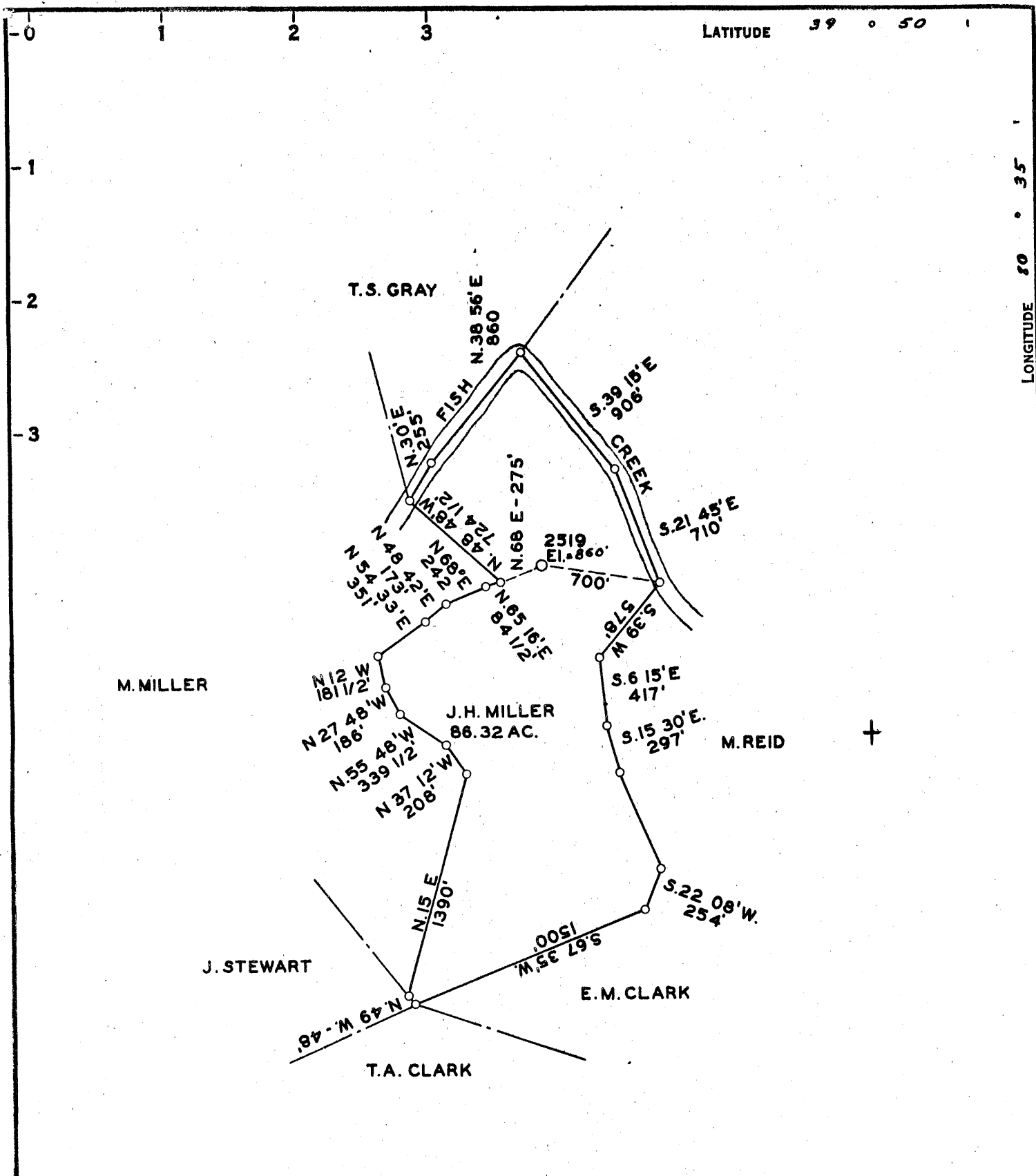
MARS-477-D

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

7-16-62

WELL LOCATION MAP

File No. MARS-383-A 477-D
permitted to plug under 362A then permitted to partial plug under 383A then permitted to D under 477
 + 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.



LATITUDE 39 ° 50 ' 1
 LONGITUDE 80 ° 35 ' 1

COAL OWNED BY _____
 STORAGE
 NEW LOCATION.....
 DRILL DEEPER.....
 ABANDONMENT..... PARTIAL

5.36 S
 1.25 W

COMPANY The Manufacturers Light & Heat Co.
 ADDRESS 800 Union Trust Bldg. Pgh. Pa.
 FARM J. H. Miller
 TRACT _____ ACRES 90 LEASE NO. 2296
 WELL (FARM) NO. 1 SERIAL NO. 2519
 ELEVATION (SPIRIT LEVEL) 860'
 QUADRANGLE Cameron
 COUNTY Marshall DISTRICT Liberty
 ENGINEER Thomas G. Virgin J.M.
 ENGINEER'S REGISTRATION NO. 1503
 FILE NO. _____ DRAWING NO. Y-13-970
 DATE 12 Apr. 54 SCALE 1" = 800'

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

WELL LOCATION MAP
 FILE NO. MARS-362-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.



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STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Quadrangle Cameron Permit No. 362-A-477

WELL RECORD

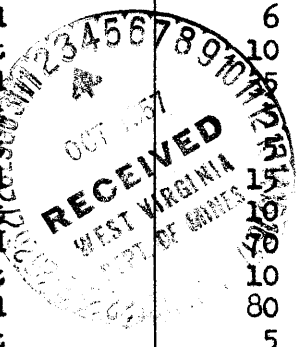
Oil or Gas Well GAS (KIND)

Company THE MANUFACTURERS LIGHT AND HEAT COMPANY Address 800 Union Trust Building, Pgh. 19, Penna. Farm J. M. Miller Acres 90 Location (waters) Well No. 2519 Elev. 860' District Liberty County Marshall The surface of tract is owned in fee by Mineral rights are owned by Drilling commenced April 8, 1920 Drilling completed May 24, 1920 Date Shot From To With Open Flow /10ths Water in Inch /10ths Merc. in Inch Volume Cu. Ft. Rock Pressure 900 lbs. hrs. Oil bbls., 1st 24 hrs. Fresh water feet feet Salt water feet feet

Table with columns: Casing and Tubing, Used in Drilling, Left in Well, Packers. Rows include sizes 16, 18, 10, 8 1/2, 6 5/8, 5 3/16, 3, 2 and packer details like Kind of Packer 4", Size of 6 5/8 x 4 anchor, Depth set 2395.

CASING CEMENTED SIZE No. Ft. Date COAL WAS ENCOUNTERED AT FEET INCHES FEET INCHES FEET INCHES

Main stratigraphic log table with columns: Formation, Color, Thickness, Top, Bottom, Oil, Gas or Water, Depth Found, Remarks. Lists formations like Clay, Native Coal, Mapletown Coal, Pittsburgh Coal, Red Rock, Big Dunkard, Salt Sand, Maxon Sand, Big Lime, Big Injun, Red Rock, Black Rock, Lime, Gordon Stray, and various slate and sand layers down to 1970 feet.



Formation	Color	XXXXX R S X Thickness	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate white soft		13	527	540	Slate & Shells soft	1978	2004 26
Lime white hard		20	540	560	Slate white soft	2004	2040 36
Red Rock red soft		40	560	600	Lime shells white	2040	2044 4
Slate white soft		50	600	650	Slate dark soft	2044	2050 6
Lime white hard		50	650	700	Sand dark hard	2050	2080 30
Slate dark soft		60	700	760	Slate & shells soft	2080	2360 280
					Red Rock red soft	2360	2367 7
					Gritty Lime hard	2367	2375 8
					Slate dark soft	2375	2380 5
					Lime dark hard	2390	2410 20
					Slate dark soft	2410	2438 28

Date September 30, 1957

APPROVED THE MANUFACTURERS LIGHT & HEAT CO., Owner

By Walter A. Pennington
(Title) Land Agent



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

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WELL RECORD

Comerson
No. 36r-A

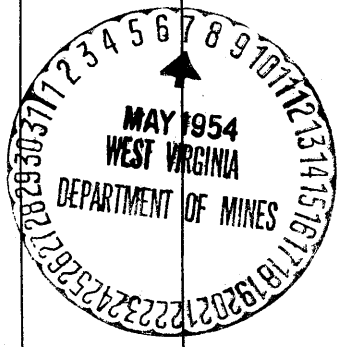
Oil or Gas Well Gas
(KIND)

Company THE MANUFACTURERS LIGHT AND HEAT COMPANY
 Address 800 UNION TRUST BLDG., PGH., PENNA.
 Farm J. M. Miller Acres 90
 Location (waters) _____
 Well No. 2519 Elev. 860'
 District Liberty County Marshall
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced April 8, 1920
 Drilling completed May 24, 1920
 Date Shot _____ From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure 900 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 <u>Anchor</u>
13			<u>6-5/8 x 4</u>
10	<u>231.4</u>	<u>231.4</u>	Size of <u>//</u>
8 1/4	<u>1040.6</u>	<u>1040.6</u>	
6 3/8	<u>1625</u>	<u>1625</u>	Depth set <u>2395</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 70 FEET _____ INCHES
415 FEET 5 1/2 INCHES 815 FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	20			
Native Coal			70	74			
Mapletown Coal			415	421			
Pittsburgh Coal			520	527	Little Gas		
Red Rock			815	845			
Big Dunkard			1015	1065	Little Gas at 1030		
Salt Sand			1525	1565	Gas 1535 - 1560		
Maxon Sand			1568	1592			
Big Line			1600	1647			
Big Injun			1647	1910	Gas 1752 - 1754		
Red Rock			2360	2367			
Pink Rock			2380	2395			
Line			2438	2445			
Gordon Stray			2445	2460	Gas at 2450		
Total Depth			2460				
							May 26, 1920--Well packed in Line at 2395 with 1 6-5/8 x 4 Anchor packer. Anchor 65 ft. - 3 qts. Above Packer 2420 ft. - 119 qts. 2485 ft. - 122 qts. Screwage 25 2460 Cage on first joint; Packer on 3rd joint. 1 Min. 2 Min. 3 Min. 4 Min. 5 Min. 150 250 340 400 450



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

Date May 5, _____, 1954

APPROVED ~~THE MANUFACTURERS LIGHT AND HEAT CO.~~ Owner

By *Carl W. Wood*
ASST. LAND AGENT (Title)

MATHEWS PRINTING AND LITHOGRAPHING CO
CHARLESTON, W. VA.