

THE MANUFACTURING LIGHT & HEAT CO.
COMPANY

Location for Well No. 3518 To be drilled for GAS

Lease No. 15350 for 70 Acres. HUNDRED District

DESCRIPTION

Well No. 1 on farm of F. W. SCHRADER

District PROCTOR County WETZEL State W. VA.

300 feet from SOUTH line of S. O. ADAMS Farm

150 feet from N. EAST line of S. O. ADAMS Farm

feet from _____ line of _____ Farm

feet _____ of well _____ Farm

As shown on Sketch below: Scale of sketch: 1" equals 1320 feet

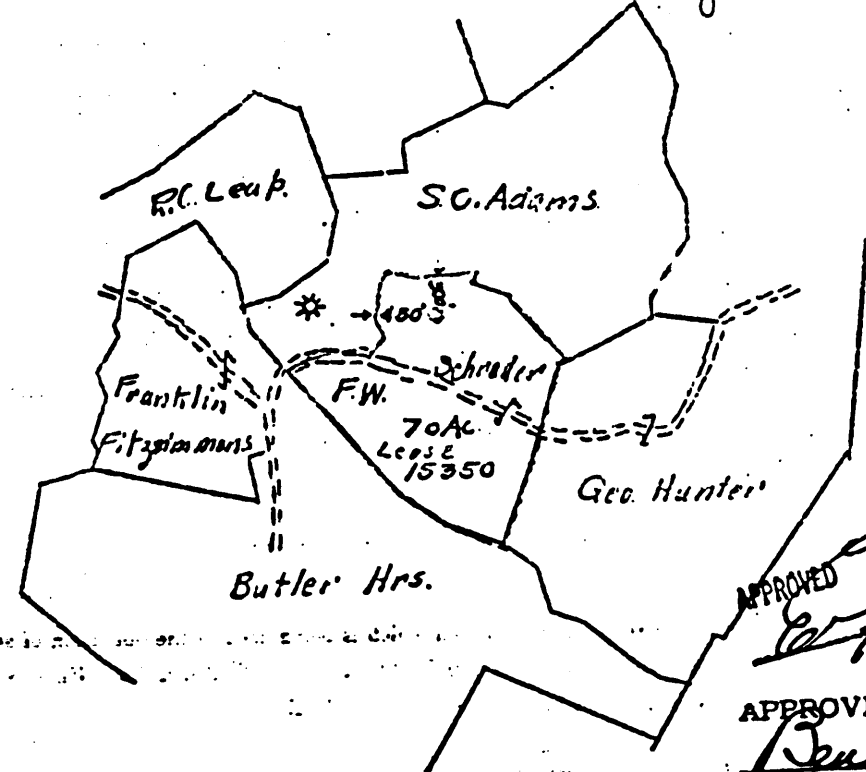
Location made AUGUST 16 1935 Signed HARRY MOORE

Reservation around Buildings 200 Feet. E. O. SCHILLHANN

SPECIAL AGREEMENT _____: R. E. GRANT

SPECIAL CONDITIONS: _____: A. J. RUSSELL

Lat. 39° 39' 5"
Long. 80° 44' 40"



APPROVED [Signature]
Vice President
APPROVED [Signature]
ASST. LAND AGENT

HARRY MOORE, FIELD SUPT. ~~XXXXX~~ Pittsburgh, Pa. AUG. 22 1935
HUNDRED, WEST VA.

You are hereby authorized to commence work on above well at once, as well must be commenced
by AT ONCE 1935, and must be completed
by AS SOON AS POSSIBLE 1935

All charges for labor and material incident to above well must be charged to this Well No. 3518
and when work is completed report must be filled out on reverse side of this sheet and forwarded to Pittsburgh

WET-1149
See 99

LATITUDE

39 40

80 42 30

LONGITUDE

OGIS
75' loc

7'5 OGIS topo location

7.5' loc 1.12S
1.92W

15' loc 1.12S
(calc.) 4.14W

Company Manuf. Light + Heat
Columbia Gas
Farm Thelma Allen

Quad Wilcyville Littleton Wc
County _____
District Proctor

WELL LOCATION MAP

File No. Wct. 99

Proctor District, Wetzel County, W. Va.
By The Manufacturers Light & Heat Co., 800 Union Trust Bldg.,
Pittsburgh, Pa.
On 70 acres, surface owned by Thelma B. Allen, Silver Hill, W. Va.,
and mineral rights by ML&H Co., Pittsburgh, Pa.
Drilled under permit Wet-99, issued Sept. 4, 1935.
Elevation, 1260'.
16" wood conductor, 13'; 10" casing, 299' 3"; 8 1/2", 1465' 11";
6-5/8", 2116' 2"; 4" tubing, 3047' 7".
One packer, 4 x 6-5/8, set at 2860'.
Coal was encountered at 312-313, 520-521, 588-589, 872-873, 976-977,
1315-1316, and 1572-1573'.
Completion reported to Dept. of Mines Jan. 20, 1936.

	Top.	Bottom.
Clay	0	28
Shale and slate	28	68
Red rock	68	73
Slate and lime	73	167
Red rock	167	185
Sand and slate	185	220
Red rock	220	260
Slate	260	312
Coal	312	313
Lime, sand, slate	313	408
Red rock	408	423
Slate and lime	423	520
Coal	520	521
Slate, sand, lime	521	588
Coal	588	589
Slate and lime	589	700
Red rock	700	740
Lime	740	765
Red rock	765	775
Lime and slate	775	872
Coal	872	873
Slate and lime	873	976
Pittsburgh Coal	976	977
Lime, slate	977	1315
Coal	1315	1316
Slate, sand, lime	1316	1510
Gas Sand	1510	1572
Coal	1572	1573
Slate and sand	1573	1903
3rd Salt Sand (water, 1715-1730')	1903	1950
Slate, sand, lime	1950	2038
Pencil Cave	2038	2057
Sand and lime <i>Big Lime</i>	2057	2168
Big Injun Sand	2168	2388
Slate	2388	2516
Barren Sand <i>Squint</i>	2516	2565
Slate, sand, lime	2565	2822
Red rock	2822	2854
Lime, slate	2854	2932
Gordon Sand (gas at 2945-2950')	2932	2952
Slate, sand, shells, to bottom	2952	3014

The Manufacturers Light & Heat Company

Division Four
 Record of Well No. 3518 on F.W. Schröder Farm 70 Acres
 Reader Field Proutor District Wetzels County W.Va. State
 Rig Commenced Aug. 29th 19 35, Completed Sept. 19th 19 35
 Drilling Commenced October 10th 19 35, Completed December 20th 1935 19
 Cost per Foot \$ 1.60 Contractor Rawe Brothers Address New Martinsville, W.Va.
 Drillers' Names Harry Swiger, T.C. Rawe,

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder
							Old	84	Company men

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	18 inch	16 inch	14 inch	12 inch	10 inch	8 inch	6 inch	4 inch	3 inch
13"x16"		299'-3"	1165'-11"	2116'-2"					3047'-7"

CONDUCTOR AND CASING LEFT IN WELL									
Conductor	18 inch	16 inch	14 inch	12 inch	10 inch	8 inch	6 inch	4 inch	3 inch
16"		299'-3"	1165'-11"	2116'-2"					3047'-7"

OIL WELL					GAS WELL					
When Shot	Size of Torpedo	1st Day's Production	Tubing	Node	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure
						6 5/8"x 4"	2860'	4	24	550#
Initial Open Flow Production		130,000	Cable Foot For 24 Hours		Shot In Pressure		Cable Foot For 24 Hours			

FORMATION	Thickness			REMARKS
	Top	Bottom	Thickness	
Clay	0	28	28	
Shale	28	38	10	
Slate	38	68	30	
Red rock	68	73	5	
Slate	73	99	17	
Lime	90	108	18	
Slate	108	167	59	
Red rock	167	185	18	
Sand	185	200	15	
Slate	200	220	20	
Red rock	220	260	40	
Slate	260	283	23	
Red rock	283	288	5	
Slate	288	312	24	
Coal	312	313	1	
Lime	313	340	27	
Sand	340	350	10	
Slate	350	408	58	
Red rock	408	423	15	
Slate	423	450	27	
Red rock	450	465	15	
Lime	465	479	14	
Slate	479	520	41	
Coal	520	521	1	
Slate	521	555	34	
Sand	555	570	15	
Lime	570	582	12	
Slate	582	588	6	

WET-1149

Examined and approved by _____ Contractor _____ Superintendent of Co.
 All measurements and known facts must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand and character of it.
 Make no memorandum of water and engine turned by _____

8882 0755

The Manufacturers Light & Heat Company

Division Four
 Record of Well No. 3518 on F. W. Schrader Farm 70 Acres
 Reader Field Proctor District Wetzol County W. Va. State
 Rig Commenced 19 Completed 19
 Drilling Commenced 19 Completed 19
 Cost per Foot Contractor Address
 Drillers' Names

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Moulder

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	2 1/2 inch	3 1/2 inch	4 1/2 inch	5 1/2 inch	6 1/2 inch	7 1/2 inch	8 1/2 inch	9 inch	10 inch

CONDUCTOR AND CASING LEFT IN WELL									
Conductor	2 1/2 inch	3 1/2 inch	4 1/2 inch	5 1/2 inch	6 1/2 inch	7 1/2 inch	8 1/2 inch	9 inch	10 inch

OIL WELL					GAS WELL					
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pen
Initial Open Flow Production			Cubic Feet Per 24 Hours			Shot in Pressure			Cubic Feet Per 24 Hours	

FORMATION	FORMATION		REMARKS
	Top	Bottom	
Coal	568	589	1
Slate	589	597	8
Lime	597	605	8
Slate	605	640	35
Red rock	640	657	17
Slate	657	662	5
Lime	662	672	10
Slate	672	680	8
Lime	680	700	20
Red rock	700	740	40
Lime	740	765	25
Red Rock	765	775	10
Lime	775	798	23
Red rock	798	812	14
Slate	812	820	8
Lime	820	868	48
Slate	868	872	4
Coal	872	873	1
Slate	873	880	7
Lime	880	904	24
Slate	904	910	6
Lime	910	920	10
Slate	920	935	15
Lime	935	960	25
Slate	960	976	16
Pittsburgh Coal	976	977	1
Lime	977	994	17
Slate	994	1030	36

WET-1149

Examined above information and measurements and found to be correct by _____ Contractor _____ Superintendent of Co.
 NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the Well, and accompany, when presented for payment of the bill for drilling.
 All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.
 Make no memoranda of boiler and engine if owned by contractor.

The Manufacturers Light & Heat Company

Division Four
 Record of Well No. 3518 on F. W. Schrader Farm 70 Acres
 Reader Field Proctor District Township Wetzel County W. Va. State
 Rig Commenced 19 Completed 19
 Drilling Commenced 19 Completed 19
 Cost per Foot Contractor Address
 Drillers' Names

BOILER			ENGINE				RIG		
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	12 inch	10 inch	8 1/2 inch	6 inch	6 1/2 inch	5 1/2 inch	5 1/4 inch	4 inch	4 inch

CONDUCTOR AND CASING LEFT IN WELL									
Conductor	12 inch	10 inch	8 1/2 inch	6 1/2 inch	6 1/2 inch	5 1/2 inch	5 1/4 inch	4 inch	4 inch

OIL WELL						GAS WELL				
When Shot	Size of Torpedo	1st Day's Production	Tubing	Reds	Teaks	Size of Fucker	Depth Set	Packed with	1st Minute Pressure	Peak Press.

FORMATION	Initial Open Flow Production		Top	Bottom	Thickness	REMARKS
	Cubic Feet Per 24 Hours	Shot in Pressure				
Red rock			1030	1037	7	
Line			1037	1042	5	
Slate			1042	1115	73	
Red rock			1115	1135	20	
Slate			1135	1163	28	
Red rock			1163	1173	10	
Slate			1173	1250	77	
Red rock			1250	1278	26	
Slate			1278	1315	37	
Coal	✓		1315	1316	1	
Slate			1316	1332	16	
Sand			1332	1340	8	
Slate			1340	1345	5	
Red rock			1345	1390	45	
Line			1390	1398	8	
Slate			1398	1435	37	
Red rock			1435	1445	10	
Sand			1445	1455	10	
Slate			1455	1510	55	
Gas sand	✓		1510	1572	62	
Coal	✓		1572	1573	1	
Slate			1573	1605	32	
Sand			1605	1670	65	
Slate			1670	1710	40	
Salt sand	✓		1710	1745	35	Water @ 1715-1730 ✓
Slate			1745	1765	20	
Sand			1765	1835	70	
Slate			1835	1840	5	

WET-1149

Examined above information and measurements and found to be correct by _____ Contractor _____ Superintendent of Co.
 NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the Well, and accompany, when presented for payment of the bill for drilling.
 All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.
 Make no measurements of boiler and engine if owned by contractor.

0002 0757

Division Four
 Record of Well No. 3518 on F. W. Schrader Farm 70 Acres
 Reader Field Proctor District Township Wetzsel County W. Va. State
 Rig Commenced 19 Completed 19
 Drilling Commenced 19 Completed 19
 Cost per Foot Contractor Address
 Drillers' Names

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder
CONDUCTOR AND CASING USED IN DRILLING									
Conductor	12 inch	10 inch	8 1/2 inch	6 1/2 inch	6 1/2 inch	5 1/2 inch	5 1/2 inch	4 inch	4 inch
CONDUCTOR AND CASING LEFT IN WELL									
Conductor	12 inch	10 inch	8 1/2 inch	6 1/2 inch	6 1/2 inch	5 1/2 inch	5 1/2 inch	4 inch	4 inch

OIL WELL										
When Shot	Size of Turbine	1st Day's Production	Tubing	Bole	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Back Pressure
Initial Open Flow Production			Cubic Feet Per 24 Hours			Heat in Pressure				Cubic Feet Per 24 Hours

FORMATION	Top	Bottom	Thickness	REMARKS
Lime	1840	1845	5	
Sand	1845	1868	23	
Slate	1868	1903	35	
Thin salt sand ✓	1903	1950	47	
Slate	1950	1958	8	
Sand	1958	1970	12	
Slate	1970	1998	28	
Lime	1998	2009	11	
Slate	2009	2015	6	
Lime	2015	2030	15	
Little Lime ✓	2030	2038	8	
Pencil Cave ✓	2038	2057	19	
Sand	2057	2064	7	
Pencil Cave ✓	2064	2078	14	
Big Lime ✓	2078	2135	57	
Lime	2135	2168	33	
Big Injun sand ✓	2168	2388	220	
Slate	2388	2516	128	
Herea sand ✓	2516	2565	49	
Slate	2565	2740	175	
Sand	2740	2754	14	Show of gas @ 2745' ✓
Slate	2754	2768	14	
Lime	2768	2773	5	
Slate	2773	2822	49	
Red rock ✓	2822	2854	32	
Lime	2854	2873	19	
Red rock ✓	2873	2888	15	
Slate	2888	2932	44	

WET-1149

Examined above information and measurements and found to be correct by _____ Contractor
 _____ Superintendent of Co.
 NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the Well, and accompany when presented for payment of the bill for drilling.
 All formations and known sands must be given by their proper name, with exact line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.
 Make no memoranda of boiler and engine if owned by contractor.

The Manufacturing and Drilling Company

Division Four
 Record of Well No. 3518 on F. N. Schrader Farm 70 Acres
 Reader Field Proctor District Wetzol County W. Va. State
 Rig Commenced 19 Completed 19
 Drilling Commenced 19 Completed 19
 Cost per Foot
 Drillers' Names *H.C. Swartz* Contractor *W.C. Pauer* Address

BOILER			ENGINE			RIG		Name of Builder
M. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	12 inch	10 inch	8 1/2 inch	6 inch	6 1/2 inch	6 1/2 inch	5 1/2 inch	4 inch	4 inch

CONDUCTOR AND CASING LEFT IN WELL									
Conductor	12 inch	10 inch	8 1/2 inch	6 inch	6 1/2 inch	6 1/2 inch	5 1/2 inch	4 inch	4 inch

OIL WELL										
When Shot	Size of Turbide	1st Day's Production	Tubing	Moist	Tanks	Size of Packer	Depth of Packer	Packer with	1st Minute Pressure	1st Hour Pressure

FORMATION	Initial Open Flow Production	Cubic Feet Per 24 Hours		Thickness	REMARKS
		Top	Bottom		
Gordon sand ✓		2932	2952	20	Gas @ 2945-2950. • Test 54.10 water in 1 1/2" opening. All casing left in well. 1 - 4" x 6 5/8" Anchor packer set @ 2860' 7' of perforated pipe @ 3011' - 5' - 5" of perforated pipe @ 2965'.
Slate		2952	2966	14	
Slate & sand		2966	2993	27	
Slate & shells ✓		2993	3011	21	
Total depth ✓		3014			

WET-1149

Examined and approved by _____ Superintendent of Co.
 Contractor _____
 All measurements and heavy work must be given by their proper men - with steel tape measured out, and under the brand of "Stewart" must be recorded in what road and at what depth Oil, Gas or Water was found, the quantity of each, the quality of the sand, and thickness of part.
 Make no amendments of boiler and engine if owned by contractor.

0002 2759