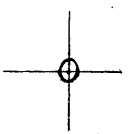


LATITUDE 39° 50' 00"



00' 30" 00" LONGITUDE

7'5 OGIS topo location

7.5' loc 1335 ✓ 15' loc _____
 1.42W (calc.) _____

Company _____

Farm _____

Quad CAMERON 7 1/2'

County MARSHALL

District LIBERTY

WELL LOCATION MAP

File No. 051-1582

The Mfrs Light & Heat Company

Division *2881* 248 Fourth Ave., Pittsburgh, Pa.
 Record of Well No. *2881* on *A. A. McCuskey* Farm *319* Acres
 Location *Liberty* District *Marshall* County *W. Va.* State
 Rig Commenced *Sept 28* 1923. Completed *Oct 5* 1923
 Drilling Commenced *Nov. 13* 1923 19 Completed *Jan. 9* 1924 19
 Cost per Foot \$ *1.00* Contractor *Paul W. Martin* Address *Caroron W. Va.*
 Drillers' Names *Frank Greene, J.O. Howard-Floyd Finch Clarence Hughes.*

BOILER			ENGINE			RIG			
M. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder
						X		82	<i>Richardson</i>

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	1 1/2 inch	2 inch	2 1/2 inch	3 inch	3 1/2 inch	4 inch	4 1/2 inch	5 inch	6 inch
16		255'	1492-3	2132'					

CONDUCTOR AND CASING LEFT IN WELL									
Conductor	1 1/2 inch	2 inch	2 1/2 inch	3 inch	3 1/2 inch	4 inch	4 1/2 inch	5 inch	6 inch
86		255'	1492-3	2145'					

OIL WELL					GAS WELL					
When Shot	Size of Torpedo	1st Day's Production	Tubing	Nodes	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure

FORMATION	Top	Bottom	Thickness	REMARKS
Waynesb'g Coal	610-615		5	black
kap letown "	865	870	5	black
Pgh. "	980	988	8	black
Murphy Sand	1135	1170	35	white hard Gas 1145
Little Dunkard	1390	1420	40	white
Big "	1480	1520	40	white hard
Gas Sand	1665	1720	55	2 1/2 bailors per hr. of water.
1st Salt Sand	1775	1805	30	white hard
2nd " "	1880	1905	25	white hard
taxon " "	2095	2115	20	white hard
Big Lime	2115	2160	45	white hard
Big I'Jun	2160	2410	50	white hard
Fifty Foot	2937	2980	43	Gas 2945- 2948
Gordon Stray_ Gordon	3012	3050	38	" 3022- 3025
Fourth Sand	3082	3087	5	" 3083
Total depth		3256		

Division _____

Record of well No. **2881**
Field _____

on _____

District
Tennessee

Farm _____
County _____

Acres _____
State _____

Rig Commenced 19 _____ Completed 19 _____
Drilling Commenced 19 _____ Completed 19 _____
Contractor _____ Address _____
Driller' Name _____

CASING AND TUBING RECORD

Conductor	12"	10"	8"	7"	6"	5 1/2"	4"	3"		
Used in Drig.										
Left in Well										

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour K. P.	Max. R. P.	Hour	
						1	5	10	30	60				

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS			
Lime white hard	988	1100	112	Slate dark soft	2570	2580	10
Red Rock red soft	1100	1110	10	Shells dark hard	2580	2595	15
Lime white hard	1110	1135	25	Slate dark soft	2595	2605	10
Red Rock red soft	1170	1190	20	Lime white hard	2605	2630	25
Lime white hard	1190	1240	50	Slate white soft	2630	2700	70
Red Rock red soft	1240	1480	240	Shells white hard	2700	2800	100
Sand	1280	1310	30	Slate white soft	2800	2820	20
Shale black	1310	1390	80	Shells dark hard	2820	2870	50
Shale black soft	1430	1480	50	Pink Rock Pink soft	2870	2885	15
Slate dark soft	1520	1560	40	Lime white hard	2885	2900	15
Lime white hard	1560	1625	65	Slate white soft	2900	2937	37
Slate dark soft dark	1520	1560	40	Slate white soft	3087	3120	33
Lime white hard	1560	1625	65	Slate white soft	3130	3200	70
Slate dark soft	1625	1665	40				
Shale black soft	1720	1775	55				
Shale dark soft	1805	1880	75				
Slate black soft	1905	1915	10				
Sand, white hard	1915	1930	15				
Slate black soft	1930	1980	50				
Sand, white hard	1980	1995	15				
Slate black soft	1995	2050	55				
Sand white hard	2050	2060	10				
Slate black soft	2060	2070	10				
Lime white hard	2070	2095	25				
Slate black soft	2410	2415	5				
Shells dark hard	2415	2425	10				
Slate dark soft	2425	2520	95				

MSH-582

Liberty District, Marshall County, W. Va.
 Manufacturers Light & Heat Co., 500 Union Tr. Bldg., Pittsburgh, Pa.
 On 319 acres, surface owned by George and Anna McCuskey, R. D. 2,
 Box 14, Cameron, W. Va., and mineral rights by ML&H Co., Pgh., Pa.
 Drilled prior to June 1, 1929.
 Elevation, 1440'.
 10" casing, 225'; 8 1/2", 1492'; 6-5/8", 2145'.
 Coal was encountered at 610-615, 865-870, and 980-988'.
 Abandonment reported to Dept. of Mines May 7, 1935.

MARS-52-A

	Top.	Bottom.
Waynesburg Coal	610	- 655
Mapletown Coal	865	- 870
Pittsburgh Coal	980	- 988
Murphy Sand	1135	- 1170
Little Dunkard Sand	1390	- 1430
Big Dunkard Sand	1480	- 1520
Gas Sand (2 1/2 bailers water per hour)	1665	- 1720
1st Salt Sand	1775	- 1805
2nd Salt Sand	1880	- 1905
Maxton Sand	2095	- 2115
Big Line	2115	- 2160
Big Injun Sand	2160	- 2410
50-Ft. Sand (gas, 2945-2945')	2937	- 2980
Gordon Stray Sand (gas, 3022-3025')	3012	- 3050
Fourth Sand (gas, 3083')	3082	- 3087
Total depth		3256