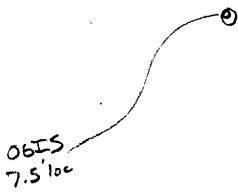


LATITUDE 39°50'

80°30'

LONGITUDE



7.5 OGIS topo location

7.5' loc	<u>0.27 S</u>	15' loc	<u>0.97 S</u>
	<u>2.06 W</u>	(calc.)	<u>7.26 W</u>

Company Manuf. Light + Heat

Farm Della Huffner

Quad Cameron 7.5 Cameron SE

County Marshall

District Cameron

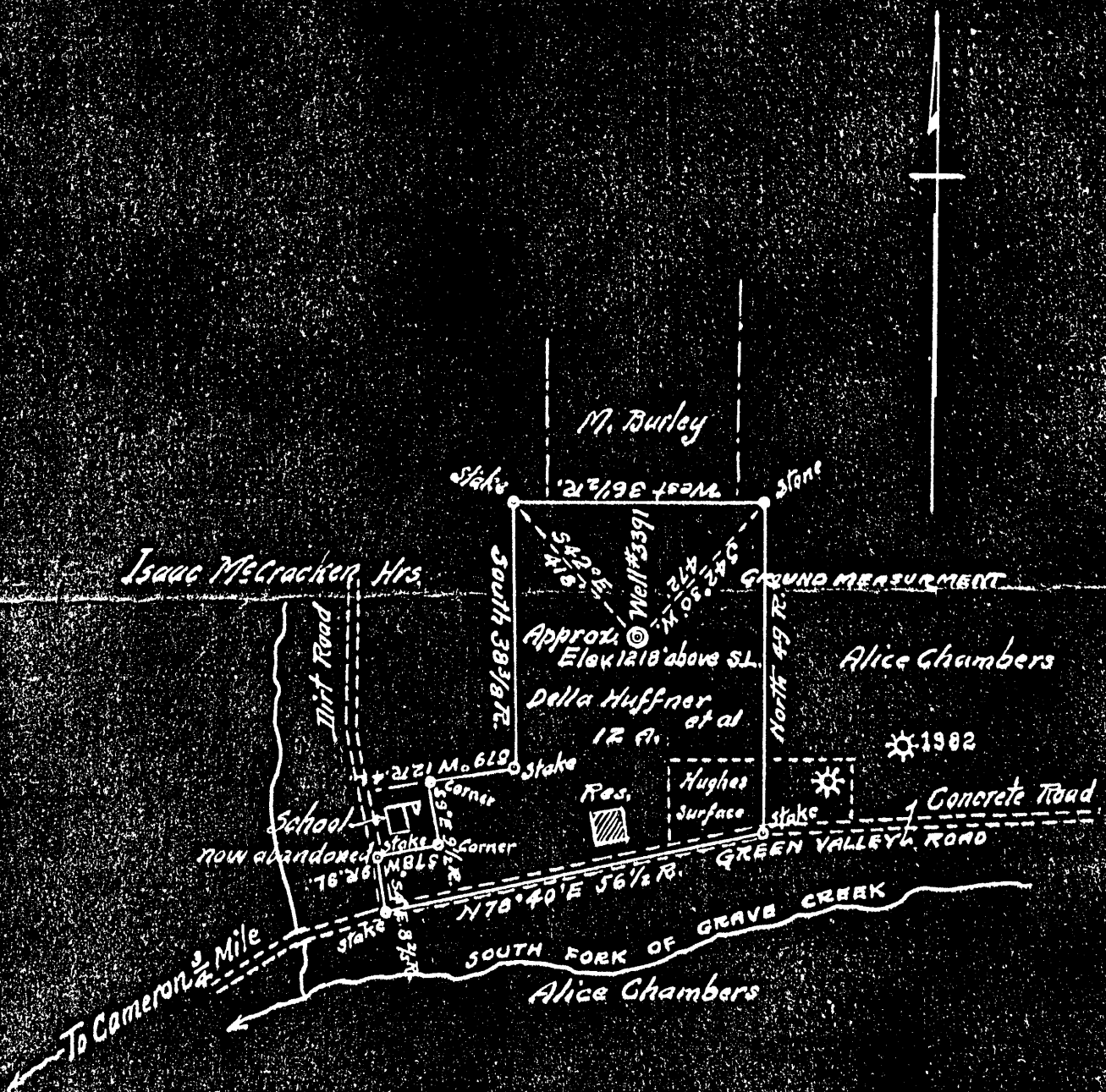
WELL LOCATION MAP

File No. OSI - 3

was 578

ok per notification
from DEP 8/95
ack

Plat of the Proposed Location of Well No 3391 of the Manufacturers Light & Heat Co. of Pittsburgh, Penn'a. on the Della Huffner et al farm consisting of 12 Acres located in Cameron District, Marshall County, West Virginia.



ENGINEERS CERTIFICATE

I the undersigned hereby certify that this map is correct and shows all the information to the best of my knowledge and belief required by the Oil & Gas Section of the Mining Laws of West Virginia.

H. E. Jarrett
Engineer

Acknowledged before me a Notary Public in and for Allegheny County, Pennsylvania this 19 day of September 1939

W. L. Tomlin



WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS SECTION

PRELIMINARY DATA SHEET NO. 1

File No. _____

Well No. 3391

The Manufacturers Light & Heat Company, of Pittsburgh, Pa.,

800 Union Trust Building, on the Della Huffner et al Farm

containing 12 acres. Location _____

Cameron District, in Marshall County, W. Va.

The surface of the above tract is owned in fee by _____

Della Huffner et al of Cameron, W. Va., address, and the

mineral rights are owned by The Manufacturers Light & Heat Co., Pittsburgh, Pa.

The oil and gas privileges are held under lease by the above named company, and this well is drilled under permit No. _____ issued by the West Virginia Department of Mines, Oil and Gas Section, dated October 19th, _____ 1929.

Elevation of surface at top of well, 1218' Spirit Barometric.

The number of feet of the different sized casings used in the well.

_____ 16 feet _____ 1.3" size. Wood conductor.

_____ 250 feet _____ 10" size, csg. All Pulled feet _____ sized csg.

_____ 1327 1/2 feet _____ 8 1/4" size, csg. _____ feet _____ sized csg.

_____ 1980 1/2 feet _____ 6 5/8" size, csg. _____ 3013 5/2 feet _____ 4 sized Tubing

_____ Anchor packer of 4" x 6 5/8" size, set at 3839

_____ packer of _____ size, set at _____

_____ 4 in. Tubing casing perforated at 2759 8/2 feet to 2959 3/2 feet. Page

_____ 4 in. casing perforated at 2831 1/2 feet to 2831 1/2 feet. "

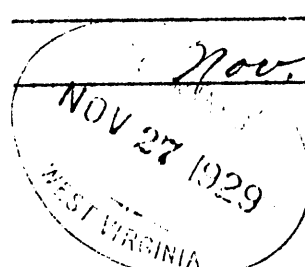
Coal was encountered at 543 feet; thickness 24 inches, and at

_____ 740 feet; thickness 60 inches; and at 838 feet;

thickness 84 inches. and at 1410 ft. thickness 60 inches.

Liners were used as follows: (Give details) none

File
O.K.
27773



Nov. 23, 1929 Date.

THE MANUFACTURERS LIGHT & HEAT CO.

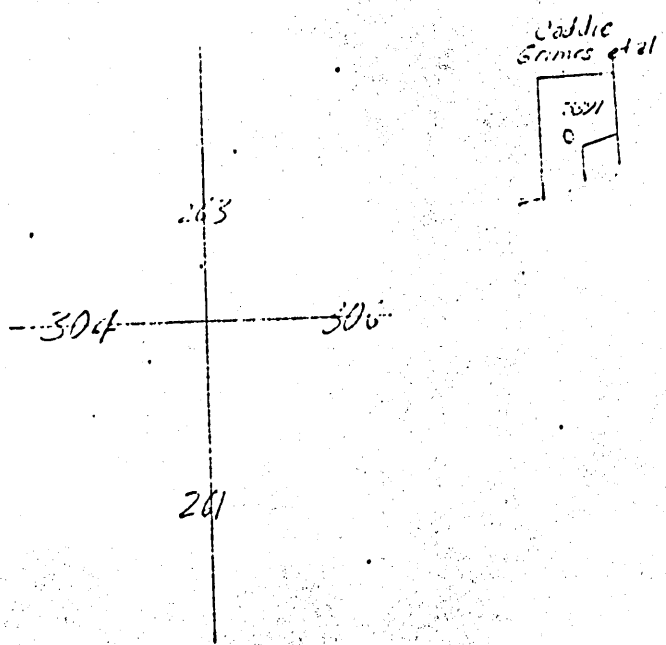
Approved Harry H. Fowle Owner.

By _____ LAND AGENT (Title)

FORMATION DATA SHEET NO 2

NAME	COLOR	CHARACTOR	OIL, GAS or WATER	TOP	BOTTOM	THICKNESS	T.D.	REMARKS.
d Rock	Red	Soft		1080	1100	20		
ate	White	"		1100	1125	25		
me	"	Hard		1125	1140	15		
ate	"	Soft		1140	1160	20		
nd	"	Hard		1160	1185	25		
ate	"	Soft		1185	1195	10		
d Rock	Red	"		1195	1225	30		
ttle Dunkard	White	Hard		1225	1250	25		
ate	Dark	Soft		1250	1305	55		
g Dunkard	White	Hard	Little gas	1305	1360	55		
ate	Dark	Soft	at 1345'	1360	1370	10		
me	"	Hard		1370	1410	80		
al	Black	Soft		1410	1415	5		
ate	"	"		1415	1430	15		
me	Gray	"		1430	1450	30		
ate	Black	"		1450	1470	30		
nd	White	Hard		1470	1510	40		
ate	Dark	Soft		1510	1580	70		
nd	White	Hard		1580	1620	40		
ate	Black	Soft		1620	1645	25		
t Salt sand	White	Hard		1645	1670	30		
ate	Black	Soft		1675	1650	25		
d Salt sand	White	Hard		1750	1765	10		
ate	Black	Soft		1765	1830	65		
d Salt sand	White	Hard		1830	1850	20		
ate	Dark	Soft		1850	1865	15		
nd	White	Hard		1865	1885	20		
me	Dark	"		1885	1900	15		
ate	White	Soft		1900	1915	15		
ttle Lime	"	Hard		1915	1920	5		
ncil Cave	Dark	Soft		1920	1925	5		
g Lime	White	Hard		1925	1965	40		
g Injun	"	"		1965	2230	65		
ate	Dark	Soft		2230	2250	20		
me	White	Hard		2250	2270	20		
ate	"	Soft		2270	2300	30		
me	"	Hard		2300	2310	10		
ate	Dark	Soft		2310	2365	55		
nd	White	Hard		2365	2375	10		
ate	"	Soft		2375	2385	10		
me	"	Hard		2385	2395	10		
ate	Gray	Soft		2395	2430	35		
ells & Slate	Light	"		2430	2460	30		
ate	Gray	"		2460	2500	40		
me	White	Hard		2500	2515	15		
ate & Shells	"	Hard		2515	2545	30		
itty Lime	White	"		2545	2555	10		
ate	Dark	Soft		2555	2590	45		
ate & Shells	"	Hard		2590	2650	60		
ate	Dark	Soft		2650	2700	50		
nk Rock	Pink	"		2700	2702	2		
fty Foot Sand	White	Hard		2702	2713	11		
ate & Shells	"	"		2713	2839	126		
rdon Sand			Gas at 2842'	2839	2874	25		
ate				2874	2984	10		
5th Sand				2984	2987	3		
ate				2987	2992	5		
						Total Depth	2992	

COMPANY COLUMBIA GAS TRANSMISSION CORPORATION MAP NO. C-13-1-7
FARM Caddie Grimes et al. WELL NO. 6033-1
DISTRICT Central COUNTY Marshall STATE WV
SCALE: 1" = 1320' LONG. 80° 32' 22" LAT. 39° 49' 44"



MSH-570 now 3

Company

Division _____

Record of well No. 3391 on Della Huffner Farm Acres _____

Field _____ District Township _____ County _____ State _____

Rig Commenced 19 _____ Completed 19 _____

Drilling Commenced 19 _____ Completed 19 _____

Contractor _____ Address _____

Driller Name _____

CASING AND TUBING RECORD

	Conductor	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"
Used in Drig.										
Left in Well										

PACKER RECORD

SHOOTING RECORD

Date	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 E. P.	Max. E. P.	Hour	
						1	5	10	20	60				

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS			
Soil black soft	0	2	2	Slate black soft	600	615	1
Clay yellow soft	2	10	8	Lime white hard	615	740	12
Slate black soft	10	20	10	Lime white hard	745	775	3
Lime dark hard	20	25	5	Slate black soft	775	795	2
Sand yellow soft	25	35	10	Lime white hard	795	815	2
Slate black soft	35	55	20	Slate white soft	815	820	5
Lime white hard	55	75	20	Sand white hard	820	830	1
Slate white soft	75	95	20	Slate black soft	830	838	8
Slate black soft	95	115	20	Lime white hard	845	870	2
Lime white hard	115	135	20	Slate white soft	870	900	3
Slate white soft	135	165	30	Lime white hard	900	925	2
Lime dark hard	165	195	30	Red Rock red soft	925	940	1
Sand yellow soft	195	215	20	Slate dark soft	940	970	3
Slate white soft	215	235	20	Sand light hard	970	1005	3
Lime white medium	235	275	40	Slate light soft	1005	1040	3
Sand white hard	275	300	25	Lime white hard	1040	1060	2
Slate dark soft	300	325	25	Slate light soft	1060	1080	2
Lime white hard	325	350	25	Red Rock red soft	1080	1100	2
Slate dark soft	350	385	35	Slate white soft	1100	1125	2
Lime dark hard	385	400	15	Lime white hard	1125	1140	1
Slate black soft	400	425	25	Slate white soft	1140	1160	2
Sand white hard	425	460	35	Sand white hard	1160	1185	2
Slate black soft	460	485	25	Slate white soft	1185	1195	1
Lime white hard	485	510	25	Red Rock	1195	1225	3
Slate white soft	510	515	5	Slate dark soft	1250	1305	5
Lime white hard	515	565	50	Slate dark soft	1360	1370	1
Slate white soft	565	585	20	Lime gritty hard	1370	1410	4
Lime white hard	585	600	15	Slate black soft	1415	1430	1

Examined above information and measurements and found to be correct by _____ Contractor _____ Field Superintendent

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 to the driller. All formations and known sands must be given by their proper names, with their true measurements, and under the head of "Remarks" must be recorded in what sand or what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.

MSH 520

THE OIL FIELD RECORD

Company

Division.....

Record of well No. 3371 on Della Huffner Farm Acres

Field District Township County State

Rig Commenced 19 Completed 19

Drilling Commenced 19 Completed 19

Contractor Address

Driller Name

CASING AND TUBING RECORD

Conductor	12"	10"	8 1/2"	7"	6 1/2"	5 1/2"	4"	3"
Used in Dril.								
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 Hours R. P.	Max. R. P.	Mean	
						1	5	10	30	60				

TOTAL INITIAL OPEN FLOW CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS			
Lime gray soft	1430	1450	20	Gritty Lime white hard	2545	2585	4.
Slate black soft	1450	1470	20	Slate dark soft	2585	2590	5
Sand white hard	1470	1510	40	Slate & shells hard	2590	2650	6
Slate dark soft	1510	1580	70	Slate dark soft	2650	2700	5
Sand white hard	1580	1620	40	Pink Rock soft	2700	2702	2
Slate black soft	1620	1645	25	Slate & shells hard	2713	2839	12
Salt Sand white hard	1645	1675	30	Slate	2874	2984	11
Slate black soft	1675	1750	75				
Sand white hard	1750	1765	15				
Slate black soft	1765	1830	65				
Sand white hard	1820	1850	30				
Slate dark soft	1850	1865	15				
Sand white hard	1865	1885	20				
Lime dark hard	1885	1900	15				
Slate white soft	1900	1915	15				
Slate dark soft	2230	2250	20				
Lime white hard	2250	2270	20				
Slate white soft	2270	2300	30				
Lime white hard	2300	2310	10				
Slate dark soft	2310	2365	55				
Sand white hard	2365	2375	10				
Slate white soft	2375	2385	10				
Lime gritty white hard	2385	2395	10				
Slate gray soft	2395	2430	35				
Shells & slate	2430	2460	30				
Slate gray soft	2460	2500	40				
Lime white hard	2500	2515	15				
Slate shells hard	2515	2545	30				

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Examined above information and measurements and found to be correct by _____ Contractor _____ Field Superintendent

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 to the driller. All formations and known sands must be given by their proper name, with their measurements, and under the head of "Remarks" must be recorded in what sand is at what depth. Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of same.

Division #6
 Record of Well No. 3391 on *Dallas Heffner* Farm 12 Acres
Cameron Field *Cameron* District *Marshall* County W. Va. State
 Rig Commenced *September 24* 1929. Completed *September 25* 1929
 Drilling Commenced *October 12* 1929. Completed *Nov. 20* 1929
 Cost per Foot *1.70* Contractor *D. Campbell Pugh* Address *New Cumberland, W. Va.*
 Drillers' Names *W. H. Sales, Sanford Morgan, J. L. Howard, Harry ...*

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

CONDUCTOR AND CASING USED IN DRILLING										
Conductor	12 inch	10 inch	8 1/2 inch	6 inch	4 1/2 inch	3 1/2 inch	3 inch	2 inch	1 1/2 inch	1 inch
<i>26 ft</i>		<i>265 ft</i>	<i>1320 ft</i>	<i>1965 ft</i>						<i>3013 3/4 ft</i>

CONDUCTOR AND CASING LEFT IN WELL										
Conductor	12 inch	10 inch	8 1/2 inch	6 inch	4 1/2 inch	3 1/2 inch	3 inch	2 inch	1 1/2 inch	1 inch
<i>16 ft</i>			<i>1330 ft</i>	<i>1965 ft</i>						<i>3013 3/4 ft</i>

OIL WELL											X GAS WELL	
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Block Pressure		
						<i>6 1/2 x 4 1/2 in.</i>	<i>2839</i>	<i>4" Tubing</i>	<i>8"</i>	<i>90"</i>		

FORMATION	Top	Bottom	Thickness	REMARKS
<i>Bluff sand</i> ^{white} <i>hard</i>	<i>075 ft</i>	<i>074 ft</i>	<i>28 ft</i>	<i>Little water 525 ft</i>
<i>Waynesburg Coal</i> ^{black} <i>soft</i>	<i>073</i>	<i>040</i>	<i>33 ft</i>	<i>black soft</i>
<i>Mapletown Coal</i> ^{black} <i>soft</i>	<i>043</i>	<i>045</i>	<i>2 ft</i>	<i>showery of gas</i>
<i>Pittsburg Coal</i> ^{black} <i>soft</i>	<i>045</i>	<i>070</i>	<i>25 ft</i>	<i>2 barrels of water per ton</i>
<i>Little Dunkard</i> ^{white} <i>hard</i>	<i>070</i>	<i>070</i>	<i>0 ft</i>	<i>white hard</i>
<i>Big Dunkard</i> ^{white} <i>hard</i>	<i>1355</i>	<i>1305</i>	<i>50 ft</i>	<i>little gas at 1340 ft</i>
<i>Coal</i> ^{black} <i>soft</i>	<i>1415</i>	<i>1415</i>	<i>0 ft</i>	
<i>Little Limestone</i>	<i>1415</i>	<i>1420</i>	<i>5 ft</i>	<i>white hard</i>
<i>Penns. Camb.</i>	<i>1420</i>	<i>1420</i>	<i>0 ft</i>	<i>dark soft</i>
<i>Big Limestone</i>	<i>1420</i>	<i>1805</i>	<i>385 ft</i>	<i>white hard</i>
<i>Big Engine</i>	<i>1868</i>	<i>2230</i>	<i>362 ft</i>	<i>white hard</i>
<i>50 ft.</i>	<i>2702</i>	<i>2713</i>	<i>11 ft</i>	<i>white hard</i>
<i>Hard sand</i>	<i>2834</i>	<i>2874</i>	<i>40 ft</i>	<i>Gas at 2842 to 2848</i>
<i>Gas 5th Sand</i>	<i>2484</i>	<i>2787</i>	<i>303 ft</i>	<i>1 1/2" Water in 2" Cpu.</i>
<i>Slate</i>	<i>2487</i>	<i>2482</i>	<i>5 ft</i>	

Total Depth 2442 ft

400 000 cu ft

No. 6
 APPROVED BY
 I. G. BURSON
I. G. Burson

MSH-570 nm