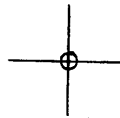


LATITUDE 39° 27' 30"



LONGITUDE 80° 32' 30"

7'5 OGIS topo location

7.5' loc 0.28 S 15' loc _____
' 1.06 W (calc.) _____

Company _____

Farm _____

Quad Folsom 7 1/2'

County WETZEL

District GRANT

WELL LOCATION MAP

File No. 103 - 0716

(101)

HOPE NATURAL GAS COMPANY

LOCATION FOR WELL No. *5459*

DISTRICT

Farm, on waters of *Carlin*

District, *...*

County, West Virginia.

N. *1*

S. *6*

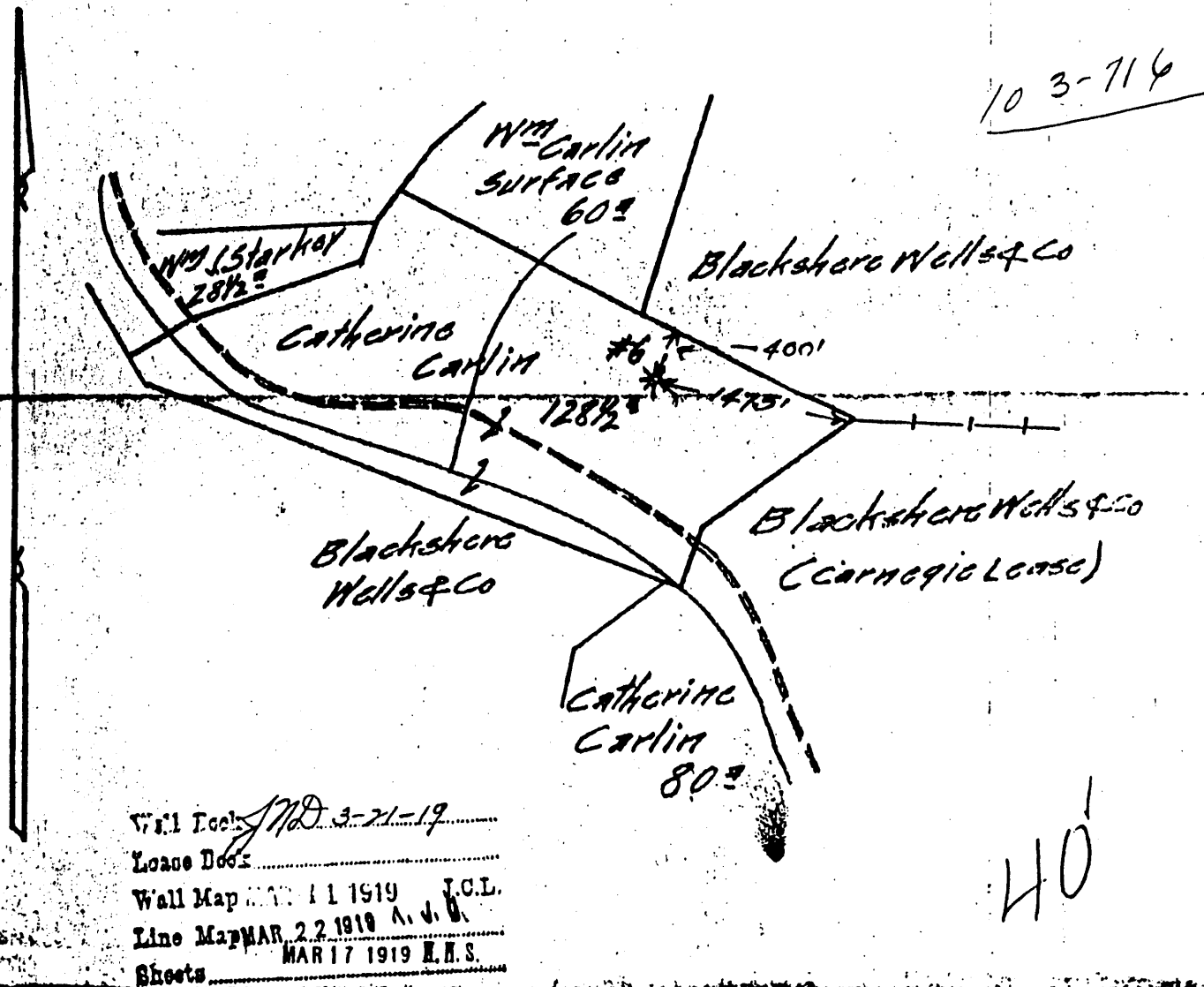
E. *1*

W. *1*

Location made in Pittsburgh

Sent to Clarksburg

LOCATION FOR WELL No. *18-65*
 one inch equals *80*
 ation to be



Well Log No. *3-21-19*
 Lease Docs
 Well Map MAR 11 1919 J.C.L.
 Line Map MAR 22 1919 A.J.V.
 Sheets MAR 17 1919 H.S.

THE RESERVE *...* *...*
 May 1, 1919, *...*

SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE
 the Lease on which are Located Well No. *1567-5232-5218*

Location made by *D.P.O. Co* As per plat, except as noted. On field map
2-21-19 Returned to Pittsburgh *2-21-19*
 Location changed on account of
 Authorized by Date Signed *M. Bradley*

Record of **HOPE NATURAL GAS** Company
 Well No. **5459** (PURCHASED WELL) **Wetzel** District
 Located on **Catherine Carlin** Farm
 Precinct **Grant** County **Wetzel** State **West Va.**

Work Commenced **10-17-18** First Work Done.....
 Drilling Commenced **11-20-18** Rig Completed **11-17-18**
 Drilling Contractor **South Penn Rig Builders** { Drilling Contractor } **South Penn Drg. Tools Acct.**
 { H. H. Co. Tools, Spring No. }

FORMATION	Open or Close Hard or Soft	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Drift			16					
Pittsburgh Coal		1078	1083	1078				
Dunkard		1400	1500					
Shinarump								
Sand								
Salt		1780	1800		2035			
Red Salt		1975	2060					
Shinarump		2250	2275					
Shinarump		2310	2320					
Oil Cave								
Lime		2325	2403	2403				
Injun		2403	2528					
Law								
Shinarump								
Shinarump		2930	2960	2930				
Shinarump		3060	3107	3060				
Shinarump		3130	3155	3130			3142	
Shinarump		3162	3173	3162				
Gas test - 15/10 Mercury thru 2" Opening.								
Total Depth			3178					

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings.
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
13" Csg.													
10" "	276	10	276	10	276	10			0				
8 1/2" "			1610	6	1610	6			0				
5-8" "			2339	0					2339	0			
3-10" "			2827	1					2827	1			
Tbg.													

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS

SHOOTING RECORD (If shot before or upon completion of well)

DATE	Quartz	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		

CEMENTING RECORD

Date Cemented..... Size Hole Cemented..... Size Casing Cemented.....
 Top Pittsburgh Coal..... Top Cementing..... Amount Cement Used.....
 Bottom Pittsburgh Coal..... Bottom Cementing..... Amount Sand Used.....
 Mr. of Coal Company on ground when coal was cemented
 Remarks:..... Signature of persons who cemented well

103-716

Approved by (Signed) **A. L. Chambers** Sup