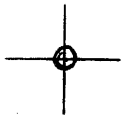


LATITUDE 39° 30' 00"

80° 32' 30"

LONGITUDE



7'5 OGIS topo location

7.5' 10C 1.875
' 1.55 W

15' 10C _____
(calc.) _____

Company _____

Farm _____

Quad FOLSOM 7 1/2'

County WETZEL

District GRANT

WELL LOCATION MAP

File No. 103-0703

(101)

HOPE NATURAL GAS COMPANY

LOCATION FOR WELL No. 4721 c 7-SP

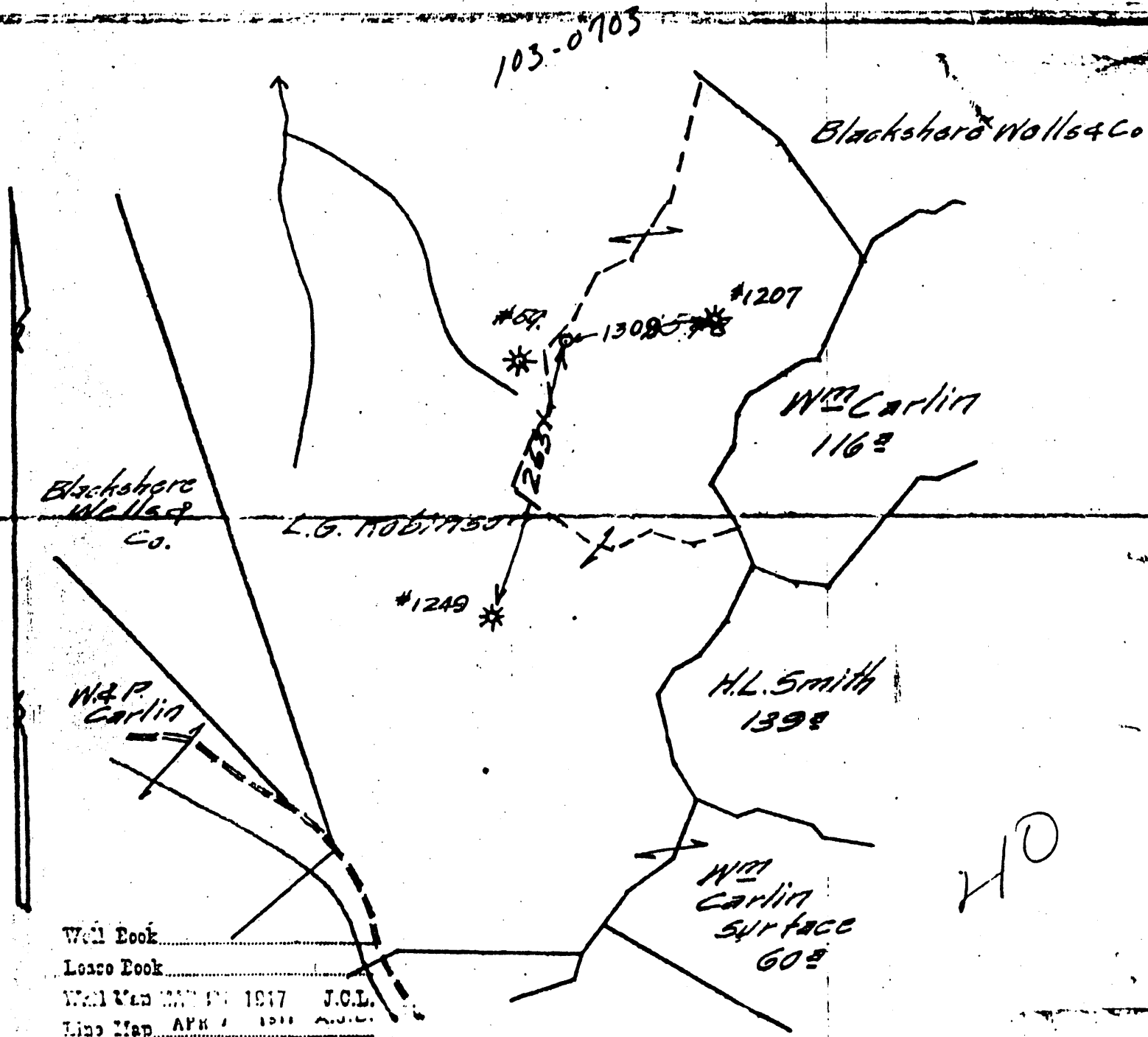
DISTRICT Metz

On Grant Farm, on waters of Clarksburg District, Metz County, West Virginia

Lease No. 732 Acres 1314 N. 2 S. E. 3 W.

Scale one inch equals 8000 feet. Location made in Pittsburgh Jan. 22, 1917 Sent to Clarksburg Jan. 22, 1917

Location to be



TITLE RESERVE

SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE

Same Lease on which is Located Well No. 24-1249-2352-47-987

Location made 3-21-17 by A. P. Reynolds As per plat, except as noted On field map.

3-22-17 Returned to Pittsburgh 3-22-17

Location changed on account of

Authorized by _____ Date _____ Signed _____

103-0703

W.V. F.H.D.

Well 4721

WELL RECORD.

Lease No. 10192 C.L. Robinson Farm Acres.
 Grant District Wetzel County W. Virginia State.

Well No. 59

Rig Commenced Oct. 18th 1916 }
 Rig Completed Nov. 3rd 1916 } South Penn Oil Co. Contractor.
 Drilling Commenced Nov. 15th 1916 }
 Drilling Completed Jan. 8th 1917 } So. P. Drg. Tools Acct. Contractor.

ROCK FORMATION	TOP	BOTTOM	Steel Line MARKS Measurement
Conductor		10	
First Bluff Sand	630	655	
Second " "	710	730	
Third " "	855	870	
Fourth " "	855	900	
Pittsburgh Coal	1190	1203	1190
Murphy Sand	1320	1332	
Little Dunkard Sand	1585	1600	
Big " 2"	1665	1690	
Red Rock	1705	1715	
First Gas Sand	1790	1810	
Second Gas Sand	1825	1885	
First Salt Sand	1980	2035	
Second Salt Sand	2065	2100	
Little Lime	2430	2450	
Pencil Cave	2450	2455	
Big Lime	2455	2500	
Big Injun Sand	2500	2670	2500
Gas	2585	2595	2585
Total Depth		2777	2777

CASING RECORD.

Size	Charged to Well		Put in Well		Pulled Out		Left in Well	Transferred Before Completion		Left at Well, Not in Use	
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
10"			440	7	300	7	140				
8 1/2"			1668	11			1668	11			
6-5/8"			2503				2503				
No shots											

Gas Test 2/10 water thru
 Production 6-5/8" casing.
 First 24 hours

Approved by

A. L. Chambers Sup't.

PROOF.—Sum of Three right hand columns equals First or "Charged to Well."
 Use as many sheets as necessary to make a complete record.

103-0703

Location Made *July 12 - 1916* First Work Done *July 20 - 1916*
 Rig Commenced *July 18 - 1916* Rig Completed *July 3 - 1916*
 Drilling Commenced *July 15 - 1916* Drilling Completed *July 5 - 1917*
 Drilling Contractor *S. P. Oil Co.*
 Drilling Contractor *S. P. Oil Co.*
 Drilling Contractor *S. P. Oil Co.*

FORMATION	TOP	BOTTOM	Shot Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Subv. Coal	-	-					Record furnished by S. P. Oil Co.
Pittsburg Coal	1190	1713	S.L.				
Dunkard	1585	1600					
Dunkard	1665	1690					
Band	1780	1810					(S. P. Oil Co # 59)
Salt	1980	2035					
and Salt	2065	2100					
on							
lime	2136	2150					
oil Cave	2450	2455					
Lime	2455	2500					
Injun	2500	2690				2585	4 1/2 Water thrd 5 1/2'
aw							
12							
Foot							
ty Foot							
ion Stray							
ion							
rth							
h							
ard							
al Depth		2777	S.L.				

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
	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	
13" Casg.													Part of 10" casing.
10" "			1140	7	300	7	140						
8 1/2" "			1668	11	-	-	1668	11					
5-8" "			2503		-	-	2503						
16" "													
Tbg.													

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
				None 1-6 78 Steel casing shoes.

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

DATE	Gauge	Top of Shell	Bottom of Shell	Diameter	Lead	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 Pittsburg Coal..... Top Cementing..... Amount Cement Used.....
 Bottom Pittsburg Coal..... Bottom Cementing..... Amount Sand Used.....
 Mr. *Well Book Mar 7 1917 E. E. R.* of..... Coal Company on ground when coal was cemented
 Remarks: *2330 Book*..... Signature of persons who cemented well
 Wall Map FEB 26 1917 J.O.L.
 Line Map MAR 5 1917 A.J.D.
 Sheets MAR 5 1917 R.R.S.

Approved by *R. B. P. ...* Foreman
 103-0703