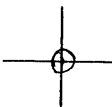


LATITUDE 39° 35' 00"



LONGITUDE 80° 53' 00"

7'5 OGIS topo location

7.5' loc	<u>0.595</u>	15' loc	_____
	<u>1.53 W</u>	(calc.)	_____

Company _____

Farm _____

Quad BIG RUN 7 1/2'

County WETSEL

District GRANT

WELL LOCATION MAP

File No. 103 - 0695

(041)

HOPE NATURAL GAS COMPANY

LOCATION FOR WELL No. 4113

c 2

Instructions *K*

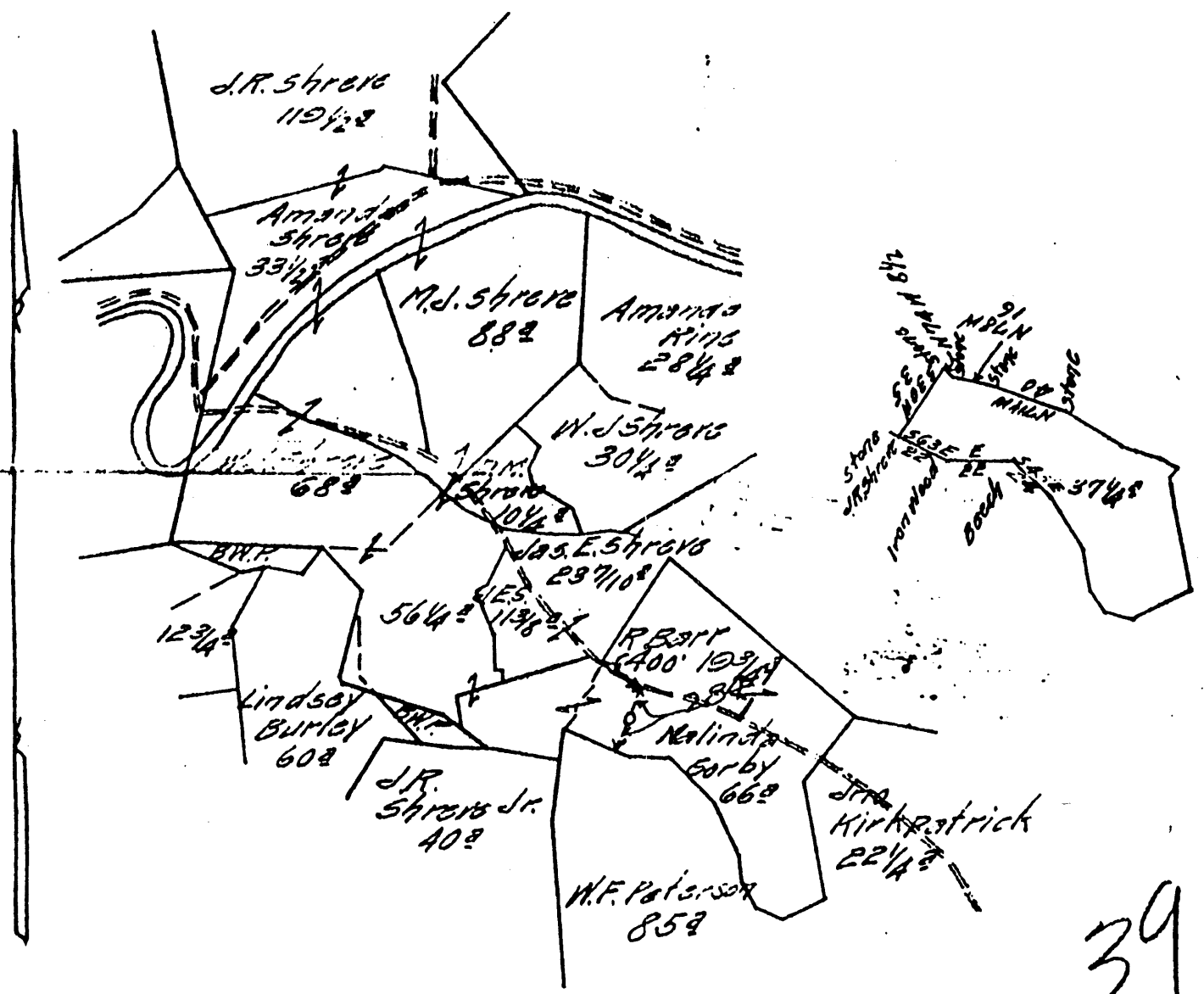
DISTRICT

On *J. H. Shreve* Farm, on waters of *North Branch* District, *9th* County, West Virginia.

Lease No. *4256* Acres *630* N. *9* S. *1* E. *1* W.

Scale one inch equals *800* feet Location made in Pittsburgh *Jan 6 1916* Sent to Clarksburg *Jan 6 1916*

Location to be *In center of lease at a point 400 feet from Gas Co.*



39

TITLE RESERVE *One Hundred and Fifty acre*
of the cultivated part of farm

SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE

Same Lease on which *is* Located Well No. *482*

WET - 695

Location made *1-12-16* by *G. Cunningham* As per plat, except as noted. On field map *1-13-16* Returned to Pittsburgh *1-13-16*

Location changed on account of

Authorized by _____ Date _____ Signed _____

on of R. Shively District Mont County West State W.Va
 Location Made 1916 First Work Done Jan 13 1916
 Rig Commenced 10/16 Rig Completed Jan 17 1916
 Drilling Commenced 10/16 Drilling Completed May 9 1916
 Rig Contractor W. E. P. Smith Drilling Contractor Booth & Waters
 Drillers G. E. Egan If N. H. S. Co. Tools, String No. Booth & Waters
 Tool Dressers W. L. Roberts E. J. Johnson

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Active Coal	238	240	238	No	No		Local - 592-590
Little Dunkard	106	713	559	No	No	1062	Sand - 1412 - 1445
Little Dunkard							Hard Line - 2675 - 2695
Sand	1320	1351	1062				Fifty foot
Sol Salt	1470	1563	1207				
Second Salt	1501	1601	1479				
Maxon Salt	1624	1704	1607			1845	Test Little Dunkard gas - 2 1/2" water the 2"
Little Limestone	1815	1875	1523				
Well Cave	1926	1901	1234				Test Maxon gas - too small for test.
Big Limestone	1901	1974	1907			1952	Test Big Limestone gas - 2 1/2" water the 2"
Big Injun	1974	2198	1931				Test Big Limestone gas - 2 1/2" water the 2"
Quartz			1974				
Shale	2310	2365	2198				
Silt			2310				
Fifty Foot	2522	2563	2522				Water reduced to 5 3/16" at 2758.
Dirty Foot			2675				
Ordon Stray	2750	2763	2756				
Ordon	2764	2811	2763				
Birth			2764				
With							
Hard							
Total Depth		2845	2811				Test 10% mercury the 2" steel line record should be 559' 1395' 1931'

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.	231	6											
10" "	601	2	563	10			563	10	237	6			Outside casing left in well due to casing gas in upper bands
8" "	1765		1606	4			1606	4			37	A	* 12" casing not run in well. Perforations included
5.5-8" "	2052	1	1947	3			1947	3			159	G	
3-16" "											105	A	
2" Tbg.	2172	7	2801	1			2869	1			103	G	

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
			563 10	
			1606 4	
			1947 3	

SHOOTING RECORD (If shot before or upon completion of well)													
DATE	Quartz	Top of Shot	Bottom of Shot	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
May 16	30	2196	2808	A"	Mercury	1010	MWC	2'	1010	MWC	2'	24	Max. G. & L. Ballard

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.....
 Remarks:..... Coal Company on ground when coal was cemented
 Well-Tools GEO. A. KINLEY Signature of persons who cemented well
 Leave Tool.....
 Well Map JUN 10 1916 I.C.L.
 Line Map JUN 26 1916 A.I.D.
 Sheets JUN 24 1916 H.R.S.
 Approved by [Signature] Foreman