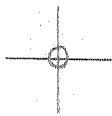


LATITUDE 39°22'30"

LONGITUDE 80°40'08"



T'5 OGIS topo location

7.5' loc 1.70S
2.17W

15' loc 4.58S
(calc.) 2.17W

Company _____

Farm _____

Elev. 1150' - 7.5' topo - KLA 3/5 K3
Centerpoint, WC

Quad SMITHBURG 7 1/2'

County DODDRIDGE

District GRANT

WELL LOCATION MAP

File No. 017-1952

HOPE NATURAL GAS COMPANY

LOCATION FOR WELL No. 4145 c 2

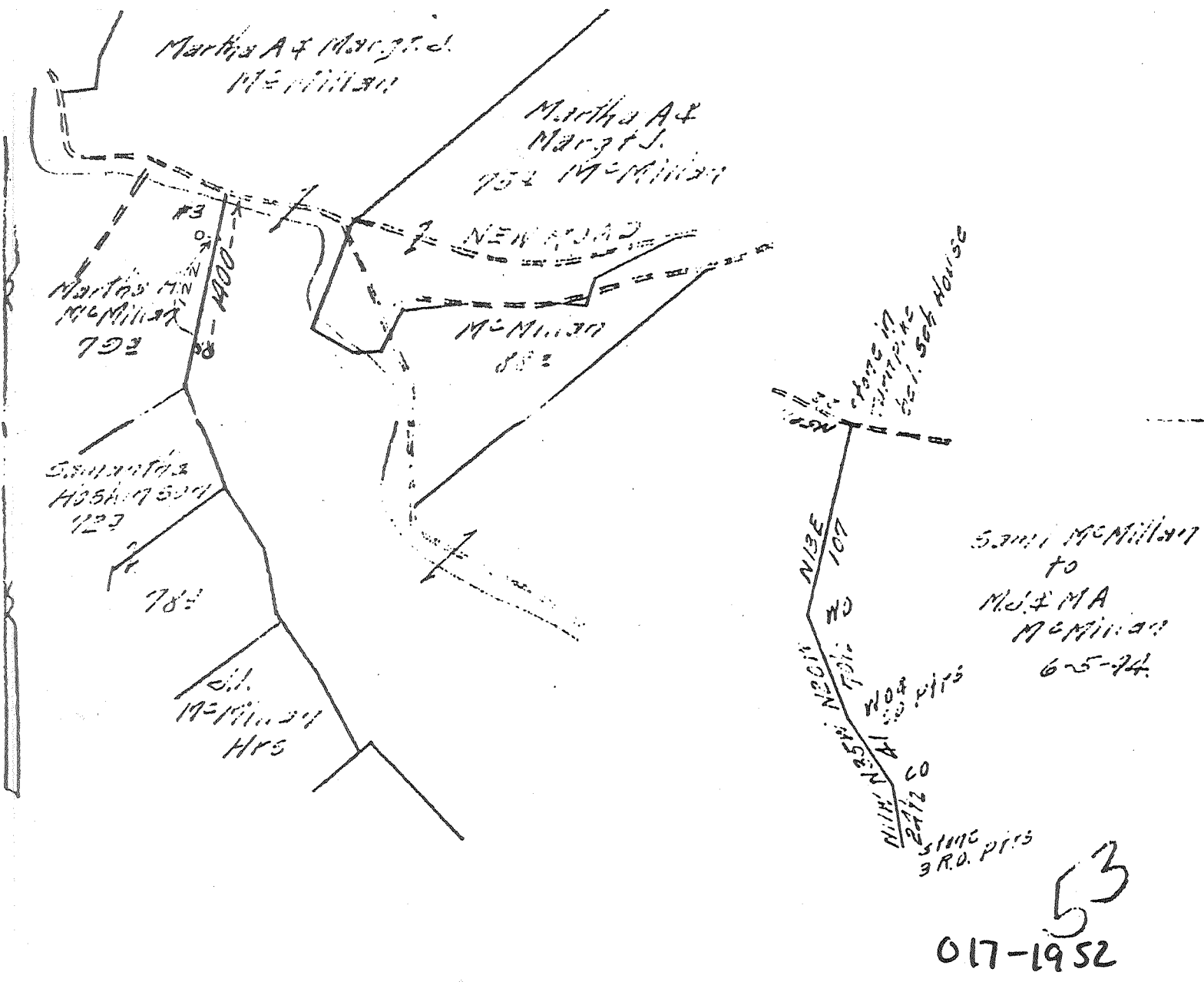
Instructions

DISTRICT

Cherry
Margaret M. Miller Farm, on waters of Cherry River
Grant District, Putnam County, West Virginia.

Case No. 17299 Acres 907 N. 7 E. 6
 Scale one inch equals 500 feet Location made in Pittsburgh July 11, 1916 Sent to Clarksburg Feb 11 1918

Location to be Same distance from lease line as Carter's on W's Miller's



TITLE RESERVE July 14, 1909 also amended for original lease
 Original date of lease July 14, 1909 also amended for original lease
 Original date of lease July 14, 1909 also amended for original lease

SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE _____
 Lease on which Located Well No. 1922-2001-2123-2102-3013

Location made 7 17 16 by H. Cunningham As per plat, except as noted. On field map
7 21 16 Returned to Pittsburgh 1 21 16

Location changed on account of _____
 Authorized by _____ Date _____ Signed _____

Location Made 2-17-1916 First Work Done 2-17-1916
 Rig Commenced 3-30-1916 Rig Completed 4-6-1916
 Drilling Commenced 5-8-1916 Drilling Completed 6-16-1916
 Rig Contractor Hops Nat Gas Co Drilling Contractor Mann - Treph
 Drillers A. T. Lang, Geo. Ford H. N. B. Co. Tools, String No.
 Tool Dressers J. W. King, O. K. Clinger

75
 6W
 53

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Pittsburgh Coal	319	322					9 Barrels per hr.
Donkard Coal	456	459					
Donkard Sand	1160	1182		950			
Donkard Sand	1220	1277					
Donkard Sand	1440	1485					
Donkard Sand	1490	1640					
Donkard Sand	1675	1750			1910	1910	Only a show of oil and showed 8/10 water 1" opening.
Donkard Sand	1890	1950					
Donkard Sand	1990	2040					
Donkard Sand	2040	2050					
Donkard Sand	2050	2060					
Donkard Sand	2060	2230			2227	2069	Only a show of oil and showed 54/10 water 1" of.
Donkard Sand	2240	2276				2145	
Donkard Sand	None						
Donkard Sand	2416	2506					
Donkard Sand	2619	2650					
Donkard Sand	2710	2732					
Donkard Sand	2759	2769					
Donkard Sand	2820	2844					2832 to showed 5/10 mercury through 6 5/8" opening from Injun and Gordon
Donkard Sand							2837
Total Depth		2855					

SIZE	Charged to Well		Put in Well		Polled 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" "	613	4	509	10	509	10					613	4	Spec 1 hinc 503-9
8 1/4" "	1555	4	1274	5			1274	5			780	11	Spec 1 hinc 1266
5-8" "	2351	4	2073	4			2073	4			278	-	Spec 1 hinc 2058
3-16" "													
Tbg.													

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
8 1/4	Steel casing splice			
6 5/8	" "			

DATE	Ga. or Q.	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		

DATE CEMENTED	Top Pittsburgh Coal	Bottom Pittsburgh Coal	Amount Cement Used	Amount Sand Used	Coal Company on ground when coal was cemented	Signature of persons who cemented well
Not cemented						GEO. A. HINLEY

JUL 24 1916 A.J.D. Approved by [Signature]
 JUL 22 1916 H.H.S.
 Foreman [Signature]

017-1952