

1974

**Map of the  
 M-B DITCH**  
 H. L. Hall and Kenneth A. Heron  
 Applicants.  
 Rio Arriba County - New Mexico  
 TRUE COURSES - Variation 14°30' East  
 Scale 1" = 1000'

The undersigned, H. L. Hall and Kenneth A. Heron, whose postoffice address is Chama, Rio Arriba County, New Mexico, have caused to be located by a competent Engineer, the M-B DITCH as herein described and indicated hereon and make these statements relative thereto and offer this map and statements for acceptance and due filing in compliance with the laws of the State of New Mexico.

The principal diversion is located on the West bank of the Chama River at a point from which the N.E. Cor. Sec. 36, T. 1 N., R. 2 E. of Martin and Borders Subdivision, Tierra Amarilla Grant, bears S49°33'W 978.5' from this diversion, which is also the diversion of the Chama Town Ditch, water is to be diverted through the said Chama Town Ditch, which is to be enlarged. A second diversion is located on the Little Chama River at a point where the proposed M-B Ditch crosses the Little Chama River, and which point is S 82°15' E, 1005 feet from N.E. Cor. Sec. 36 as above.

The depth of the ditch is 2.5 feet.  
 The width of the ditch is 14.9 feet, on top.  
 The slope of the ditch are 2 to 1.  
 The width of the ditch is 4.0 feet on bottom.  
 The average grade of the ditch is 1.0 foot per 1,000'.  
 The hydraulic radius is 1.4. Based on ball bars formula, coefficient of roughness is .020, the maximum capacity is 631.53 per sec. cubic feet.  
 The estimated cost of the works is \$10,000.  
 The efficient but not excessive duty of water for this land is 1.6 acre feet per acre for which claim is hereby made for irrigation purposes. Work was commenced on this ditch by survey June 10, 1931.  
 The land to be irrigated is stated as 1539 acres.

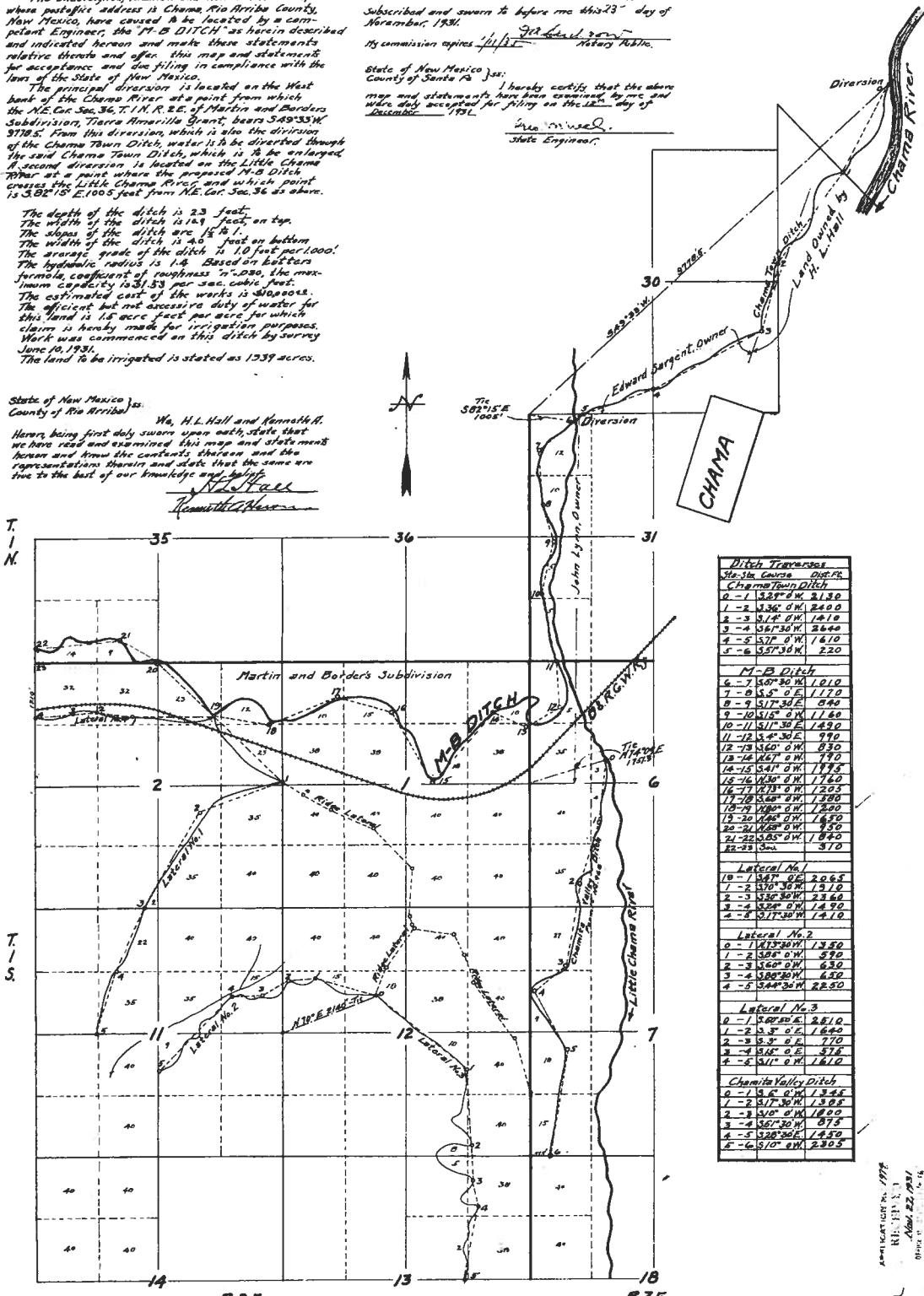
State of New Mexico ) ss.  
 County of Rio Arriba )  
 We, H. L. Hall and Kenneth A. Heron, being first duly sworn upon oath, state that we have read and examined this map and statements hereon and know the contents thereof and the representations therein and state that the same are true to the best of our knowledge and belief.  
 H. L. Hall  
 Kenneth A. Heron

Subscribed and sworn to before me this 23<sup>rd</sup> day of November, 1931.  
 J. A. ...  
 My commission expires ...

State of New Mexico ) ss.  
 County of Rio Arriba )  
 I, Kenneth A. Heron, being first duly sworn upon my oath, state that I am the Engineer who made the map of the M-B DITCH; that such map was made from field notes taken from actual bench mark surveys made under my direction in the field; that the same are true to the best of my knowledge and belief.  
 Kenneth A. Heron

Subscribed and sworn to before me this 23<sup>rd</sup> day of November, 1931.  
 J. A. ...  
 My commission expires ...

State of New Mexico ) ss.  
 County of Santa Fe )  
 I, hereby certify that the above map and statements have been examined by me and were duly accepted for filing on the 12<sup>th</sup> day of December, 1931.  
 State Engineer.



Ditch Transverse		
Sta-1m Course	Dist. Ft.	Dist. Ft.
<b>Chama Town Ditch</b>		
0 - 1	S 82°15' E	31.80
1 - 2	S 36°0' W	24.00
2 - 3	S 4°4' W	14.10
3 - 4	S 57°30' W	26.60
4 - 5	S 71°0' W	16.10
5 - 6	S 57°30' W	22.00
<b>M-B Ditch</b>		
6 - 7	S 80°30' W	10.10
7 - 8	S 8°0' E	11.70
8 - 9	S 17°30' E	9.90
9 - 10	S 16°0' W	11.60
10 - 11	S 11°30' E	14.90
11 - 12	S 4°30' E	9.90
12 - 13	S 60°0' W	8.90
13 - 14	S 67°0' W	7.10
14 - 15	S 41°0' W	19.90
15 - 16	S 30°0' W	17.60
16 - 17	S 17°0' W	20.50
17 - 18	S 6°0' W	13.00
18 - 19	S 0°0' W	12.00
19 - 20	S 10°0' W	16.90
20 - 21	S 30°0' W	13.00
21 - 22	S 65°0' W	10.40
22 - 23	S 0°0' W	3.10
<b>Lateral No. 1</b>		
10 - 1	S 80°0' W	20.65
1 - 2	S 70°30' W	15.10
2 - 3	S 50°30' W	23.60
3 - 4	S 30°0' W	14.90
4 - 5	S 17°30' W	14.10
<b>Lateral No. 2</b>		
0 - 1	S 17°30' W	13.50
1 - 2	S 30°0' W	5.90
2 - 3	S 40°0' W	6.20
3 - 4	S 50°30' W	6.20
4 - 5	S 64°30' W	22.90
<b>Lateral No. 3</b>		
0 - 1	S 60°0' W	26.10
1 - 2	S 3°0' E	16.60
2 - 3	S 3°0' E	7.70
3 - 4	S 16°0' E	5.76
4 - 5	S 11°0' W	16.10
<b>Chamita Valley Ditch</b>		
0 - 1	S 0°0' W	13.44
1 - 2	S 17°30' W	13.05
2 - 3	S 0°0' W	10.00
3 - 4	S 60°0' W	9.78
4 - 5	S 30°0' W	14.90
5 - 6	S 10°0' W	23.05

Lands to be irrigated are in Martin and Borders' Subdivision, Tierra Amarilla Grant, Rio Arriba County, New Mexico.

APPROVED FOR FILING  
 RECORDED  
 NOV 23 1931  
 COUNTY OF RIO ARriba, NEW MEXICO

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