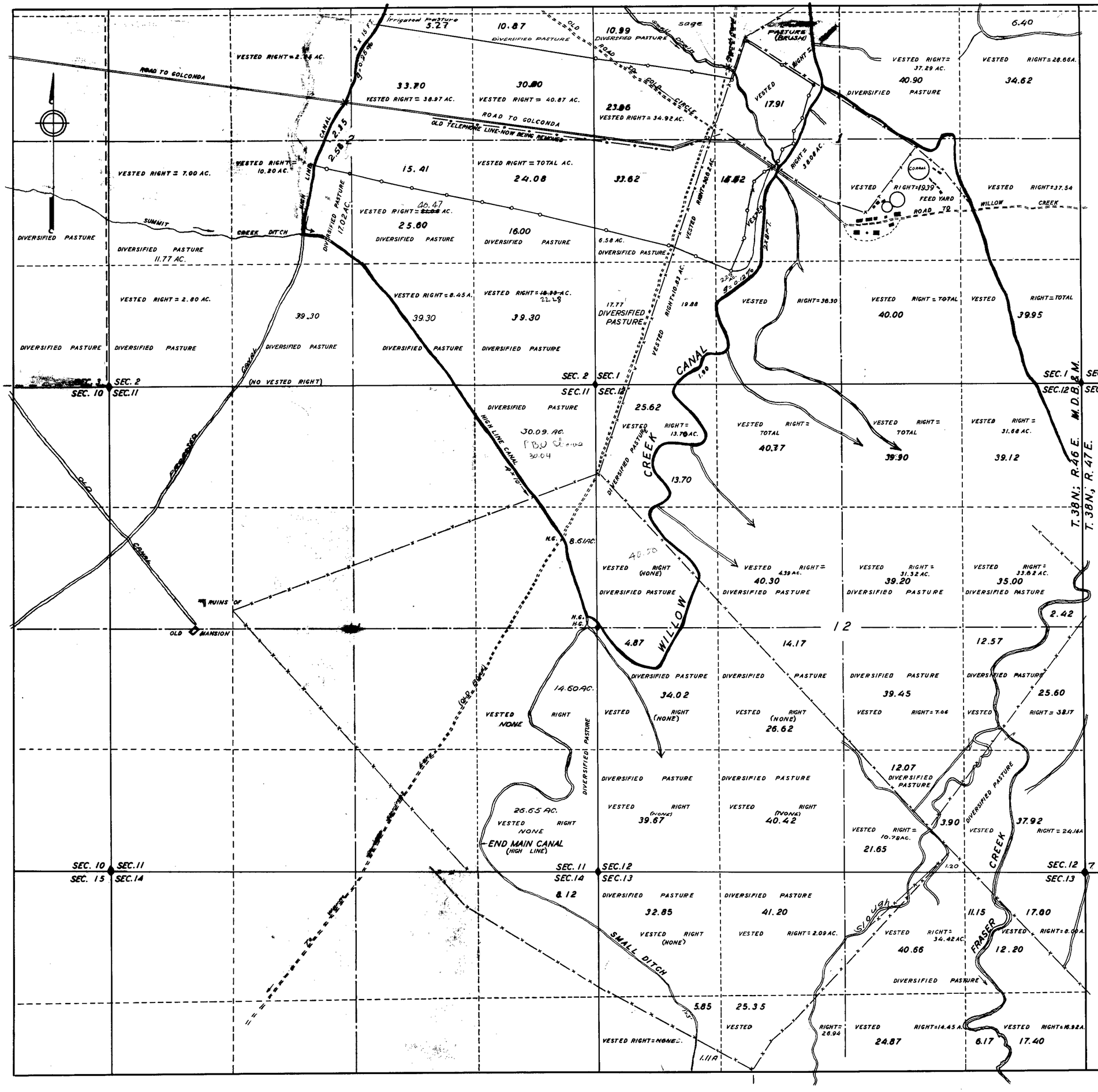


ONLY THOSE SUB-DIVISIONS COVERED BY PERMIT NO. 1760 LISTED

SECTION	SUB-DIVISION	TOWN-SHIP	RANGE	CULTIVATED ACREAGE	KIND OF CULTURE
1	S.W.¼ S.W.¼	38	46 E	17.77	DIVERSIFIED PAST.
"	N.W.¼ S.W.¼			6.58	" "
"	"			33.62	ALFALFA
"	S.W.¼ N.W.¼			23.56	"
"	"			10.99	DIVERS. PAST.
"	S.E.¼ N.W.¼			17.91	ALFALFA
"	"			23.49	DIVERS. PAST.
"	S.W.¼ S.W.¼		TOTAL	17.77	
"	N.W.¼ S.W.¼		"	40.20	
"	S.E.¼ N.W.¼		"	41.40	SEC. 12 NOT
"	S.W.¼ N.W.¼	38	TOTAL	34.55	COVERED BY NO. 1760
2	S.E.¼ S.E.¼	38	46 E	39.30	DIVERS. PAST.
"	S.W.¼ S.E.¼		TOTAL	39.30	DIVERS. PAST.
"	N.E.¼ S.E.¼			24.08	ALFALFA
"	"			16.00	DIVERS. PAST.
"			TOTAL	40.08	
"	N.W.¼ S.E.¼			15.41	ALFALFA
"	"			25.60	DIVERS. PAST.
"			TOTAL	41.01	
"	S.W.¼ S.W.¼		TOTAL	39.30	DIVERS. PAST.
"	N.E.¼ S.W.¼			2.58	ALFALFA
"	"			17.02	DIVERS. PAST.
"			TOTAL	19.60	
"	N.W.¼ S.W.¼		TOTAL	11.77	DIVERS. PAST.
"	S.E.¼ N.W.¼		TOTAL	2.15	ALFALFA
"	S.W.¼ N.E.¼			33.70	ALFALFA
"	"			5.27	DIVERS. PAST.
"			TOTAL	38.97	
"	S.E.¼ N.E.¼			30.00	ALFALFA
"	"			10.87	DIVERS. PAST.
"			TOTAL	40.87	
11	N.E.¼ N.E.¼	"	TOTAL	30.04	DIVERS. PAST.
	S.E.¼ N.E.¼	"	TOTAL	8.61	" "
13	S.W.¼ N.W.¼		"	6.96	" "

GRAND TOTAL ACRES: 1731.88.

VESTED RIGHT AND PERMIT NO. 1760 COVER IN LARGE PART THE SAME AREA, PROBABLY THE RESULT OF DECREES DETERMINING VESTED RIGHTS AFTER APPLICATION WAS MADE UNDER NO. 1760.

STATE OF NEVADA }
COUNTY OF HUMBOLDT } S.S.

I, F. R. O'LEARY, BEING FIRST DULY SWORN, DEPOSE AND SAY THAT THIS MAP, CONSISTING OF SHEETS, HAS BEEN CORRECTLY DRAWN TO THE DESIGNATED SCALE FROM FIELD NOTES OF A SURVEY MADE UNDER MY SUPERVISION AND DIRECTION BETWEEN THE 10 DAY AND 22 DAY OF JUNE 1937; THAT IT TRULY AND CORRECTLY REPRESENTS THE LOCATION AND EXTENT OF THE WORKS USED TO DIVERT WATER FROM WILLOW CREEK, IN ELKO COUNTY, BY ELLISON RANCHING COMPANY FOR IRRIGATION PURPOSES UNDER APPLICATION NO. 1760. THAT THE LOCATION, SIZE AND GRADES OF THE DIVERTING CHANNEL, LOCATION AND DESCRIPTION OF ALL MEASURING DEVICES, THE LOCATION AND EXTENT OF LANDS OWNED OR CONTROLLED BY THE APPLICANT UPON WHICH WATER APPLIED FOR UNDER APPLICATION NO. 1760 IS USED TOGETHER WITH THE AREA AND KIND OF CULTURE IN EACH 40-ACRE SUBDIVISION, AND THE LOCATION AND NAMES OF ALL OTHER WORKS OR STREAMS WHICH ARE CROSSED BY OR CONNECTED WITH SAID WORKS ARE FULLY AND CORRECTLY DESIGNATED THEREON.

F. R. O'Leary
STATE WATER RIGHT SURVEYOR

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30 DAY OF JULY 1937.

Stanley H. Brown
NOTARY PUBLIC IN AND FOR HUMBOLDT COUNTY, NEVADA.

TOTAL LAND IRRIGATED UNDER VESTED AND PERMIT RIGHTS THIS SHEET = 1731.8 ACRES.

August 7, 1937

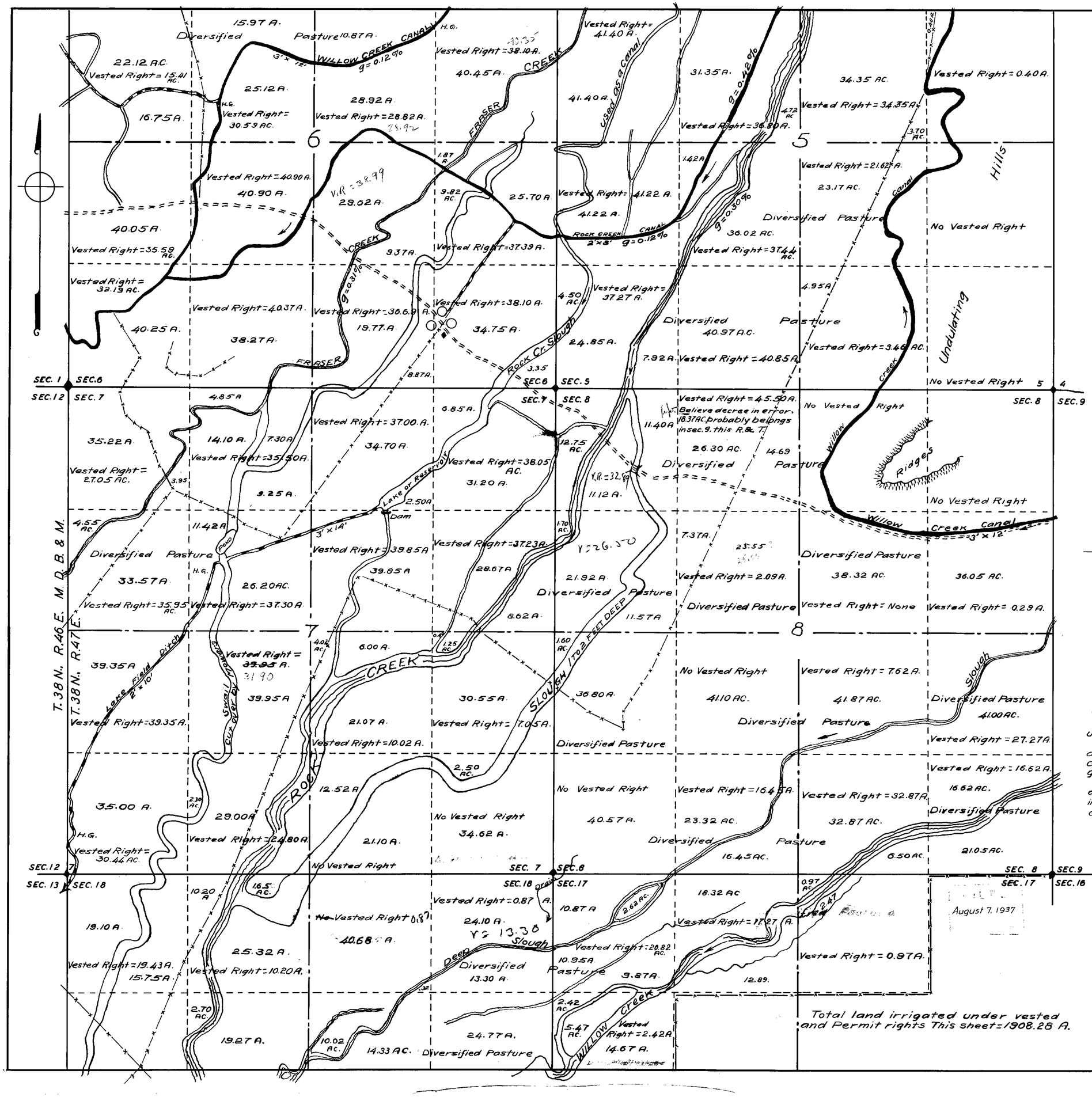
SCALE: 1 IN. = 500 FT.

0 500 1000 1500 2500 FEET

2673 January 21, 1943

MAP TO ACCOMPANY
PROOF OF BENEFICIAL USE
UNDER APPLICATION NO. 1760
FOR
IRRIGATION
BY
ELLISON RANCHING CO.,
FROM
WILLOW CREEK

10208 - Place in → 1760

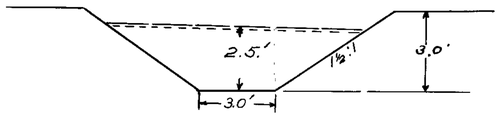


Only those sub-divisions covered by permit No. 1760 listed

SECTION	SUB-DIVISION	TOWNSHIP	RANGE	CULTVATED ACREAGE	KIND OF CULTURE
6		38N	47E	NOT LISTED NO. 1760	
7		"	"	NOT LISTED, NO 1760	
5	S.W.4 N.W.4	38N	47E	41.40	MEAD. PAST.
"	N.W.4 S.W.4	"	"	41.22	MEAD. PAST.
"	S.W.4 S.W.4	"	"	29.35	MEAD. PAST.
"	"			7.92	DIVER. PAST.
"	"		TOTAL	37.27.	
Not in No. 1760	~~S.W.4 N.E.4~~	~~"~~	~~"~~	~~34.35~~	~~MEAD. PAST.~~
" "	~~"~~	~~"~~	~~"~~	~~"~~	~~"~~
5	N.W.4 S.E.4	"	"	23.17	DIVER. PAST.
8	S.E.4 N.E.4	38N.	47E	36.05	GRAIN & ALFAL.
"	S.W.4 N.E.4	"	"	38.32	DIVER. PAST.
"	N.E.4 S.E.4	"	"	41.00	" "
"	N.W.4 S.E.4	"	"	41.87	" "
"	S.W.4 S.E.4	"	"	39.37	" "
	S.E.4 S.E.4	"	"	39.40	" "
18	S.E.4 N.E.4	38N.	47E.	24.77	" "
17	N.E.4 N.W.4	"	"	31.21	" "
"	N.W.4 NE	"	"	0.87	" "
"	S.W.4 N.W.4	"	"	7.89	" "
	GRAND	TOTAL		443.91	ACRES

Lenght of Willow Creek Canal between point of diversion and point of use:
15,610 ft.

Willow Creek Canal Section



Hydraulic Functions
s = .0012 V = 2.1
n = 0.25 Q = 39.0 ft
a = 18.75
p = 13.82
r = 1.36

NOTE:
This is average x-section of canal thru Cultivated portion of ranch.
Between point of diversion and point of use canal has eroded to 9' X 25' av.
Canals have become variable in size and shape. Measurements are best secured at dam gate or at concrete head-gate at point of diversion.
The waters of Rock Creek and Willow Creek are used interdependently over portions of the irrigated area, The area thus covered cannot be clearly defined.

Scale: 1 in = 500 ft.

0 500 1000 1500 2500 FT.

August 7, 1937

10208 - 1760

MAP TO ACCOMPANY
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ELLISON RANCHING CO.
FROM
WILLOW CREEK

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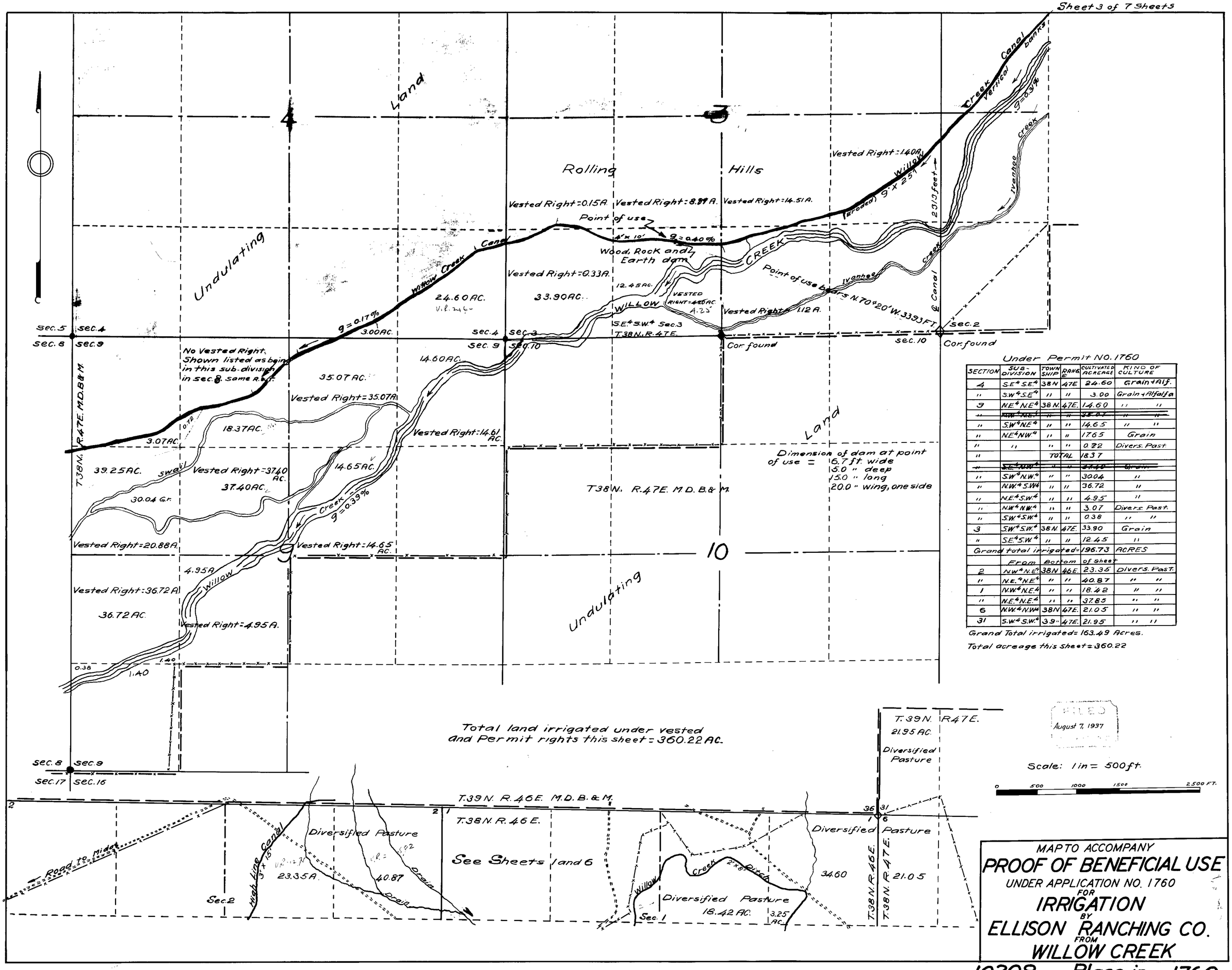

Under Permit NO. 1760

SECTION	SUB-DIVISION	TOWNSHIP	RANGE	CULTIVATED ACREAGE	KIND OF CULTURE
4	S.E.4 S.E.4	38 N	47E	24.60	Grain+Alf.
"	S.W.4 S.E.4	"	"	3.00	Grain+Alfalfa
9	N.E.4 N.E.4	38 N.	47E.	14.60	" "
~~"~~	~~N.W.4 N.E.4~~	~~"~~	~~"~~	~~35.07~~	~~" "~~
"	S.W.4 N.E.4	"	"	14.65	" "
"	N.E.4 N.W.4	"	"	17.65	Grain
"	"	"	"	0.82	Divers. Past.
"		TOTAL		18.37	
~~"~~	~~S.E.4 N.W.4~~	~~"~~	~~"~~	~~37.40~~	~~Grain~~
"	S.W.4 N.W.4	"	"	30.04	"
"	N.W.4 S.W.4	"	"	36.72	"
"	N.E.4 S.W.4	"	"	4.95	"
"	N.W.4 N.W.4	"	"	3.07	Divers. Past.
"	S.W.4 S.W.4	"	"	0.38	" "
3	S.W.4 S.W.4	38 N.	47E.	33.90	Grain
"	S.E.4 S.W.4	"	"	12.45	"
Grand total irrigated=				196.73	ACRES
	From	Bottom	of sheet		
2	N.W.4 N.E.4	38N	46E.	23.35	Divers. Past.
"	N.E.4 N.E.4	"	"	40.87	" "
1	N.W.4 N.E.4	"	"	18.42	" "
"	N.E.4 N.E.4	"	"	37.85	" "
6	N.W.4 N.W.4	38N	47E.	21.05	" "
31	S.W.4 S.W.4	39 "	47E.	21.95	" "

Grand Total irrigated= 163.49 Acres.

Total acreage this sheet = 360.22

FILED August 7, 1937

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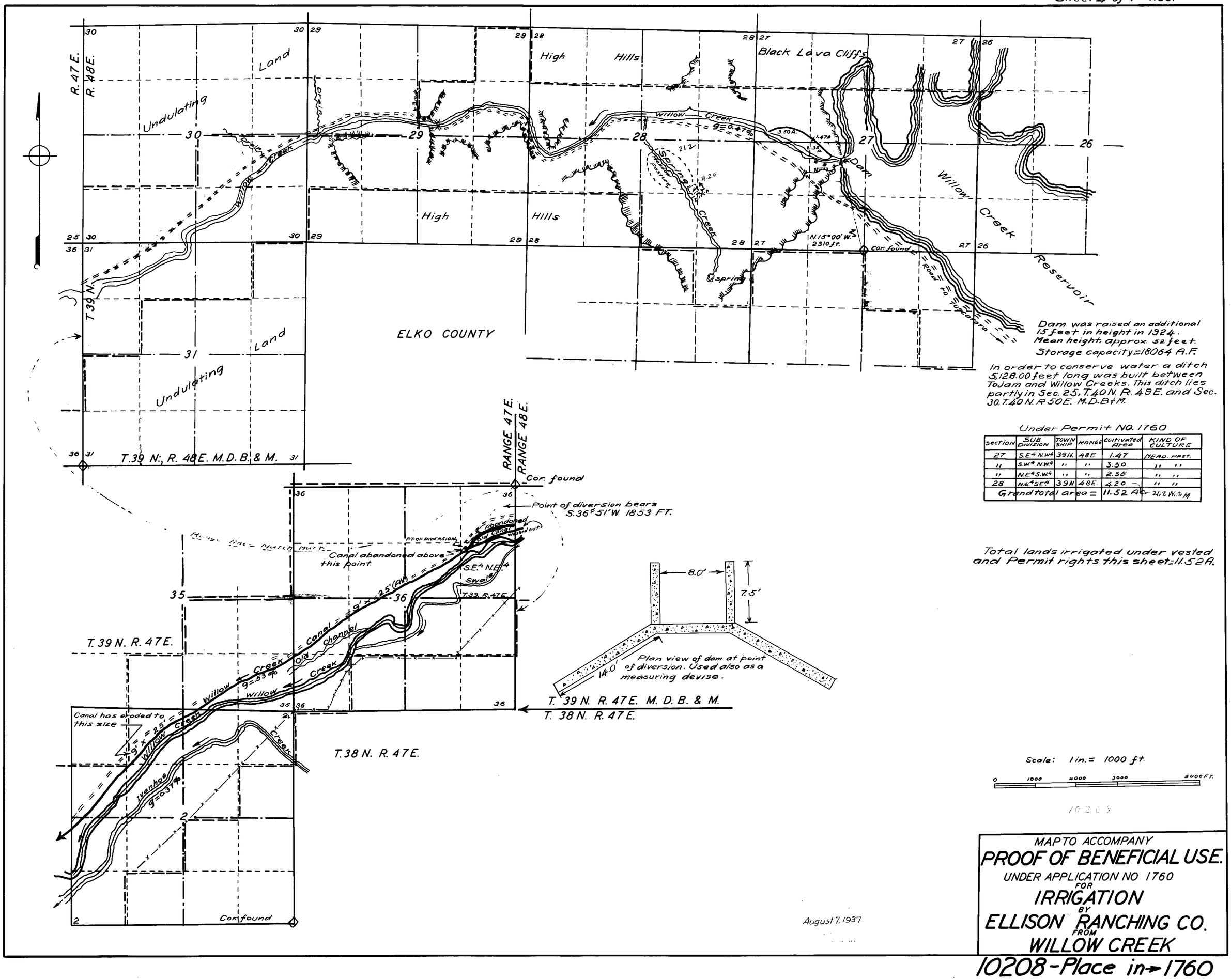

Dam was raised an additional 15 feet in height in 1924.
Mean height approx. 52 feet.
Storage capacity = 18064 A.F.

In order to conserve water a ditch 5,128.00 feet long was built between Tojam and Willow Creeks. This ditch lies partly in Sec. 25, T. 40 N. R. 49 E. and Sec. 30, T. 40 N. R 50 E. M.D.B.&M.

Under Permit NO. 1760

Section	Sub Division	Township	Range	Cultivated Area	Kind of Culture
27	S.E.4 N.W.4	39 N.	48 E	1.47	Mead. Past.
"	S.W.4 N.W.4	"	"	3.50	" "
"	N.E.4 S.W.4	"	"	2.35	" "
28	N.E.4 S.E.4	39 N	48 E	4.20	" "
Grand total area =				11.52 Ac	21.2 W.M.

Total lands irrigated under vested and Permit rights this sheet = 11.52 A.

August 7, 1937

MAP TO ACCOMPANY
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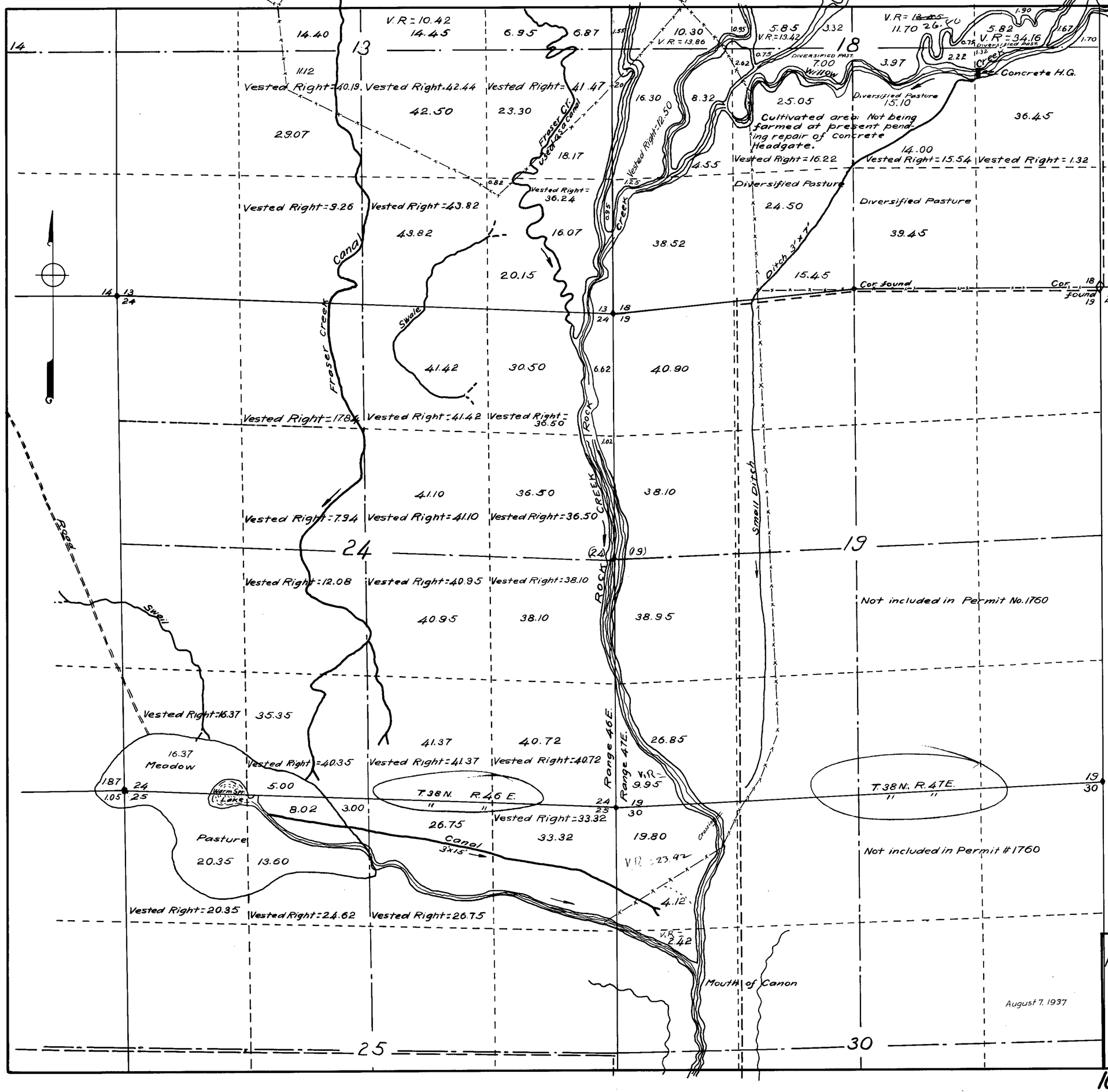

Under Permit NO. 1760

SECTION	SUB-DIVISION	TOWNSHIP	RANGE	CULTIVATED AREA	KIND OF CULTURE
18	S.E.4 N.E.4	38N	47E.	11.09	DIVER. PAST.
"	S.W.4 S.E.4	"	"	39.45	DIVER. PAST.
"	N.W.4 S.E.4	"	"	21.29	" "
"	N.E.4 S.E.4	"	"	1.32	" "
"	N.E.4 S.W.4	"	"	35.42	" "
"	S.E.4 S.W.4	"	"	24.50	" "
Grand	total	irrigated		133.07	

Total land irrigated under Vested and Permit rights this sheet = 1365.23 AC., all this irrigated area is diversified pasture except 42.99 Ac. which is meadow pasture.

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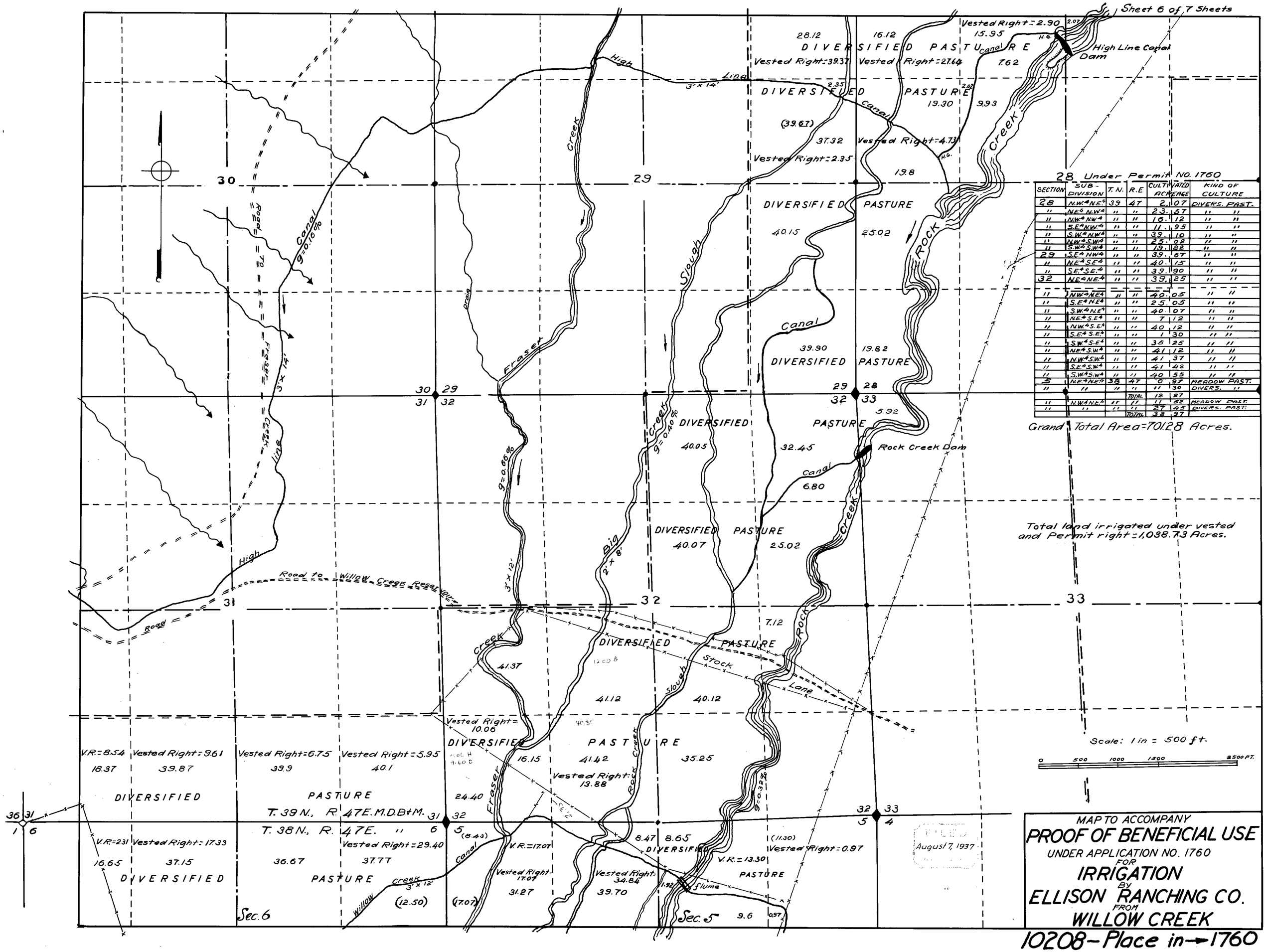
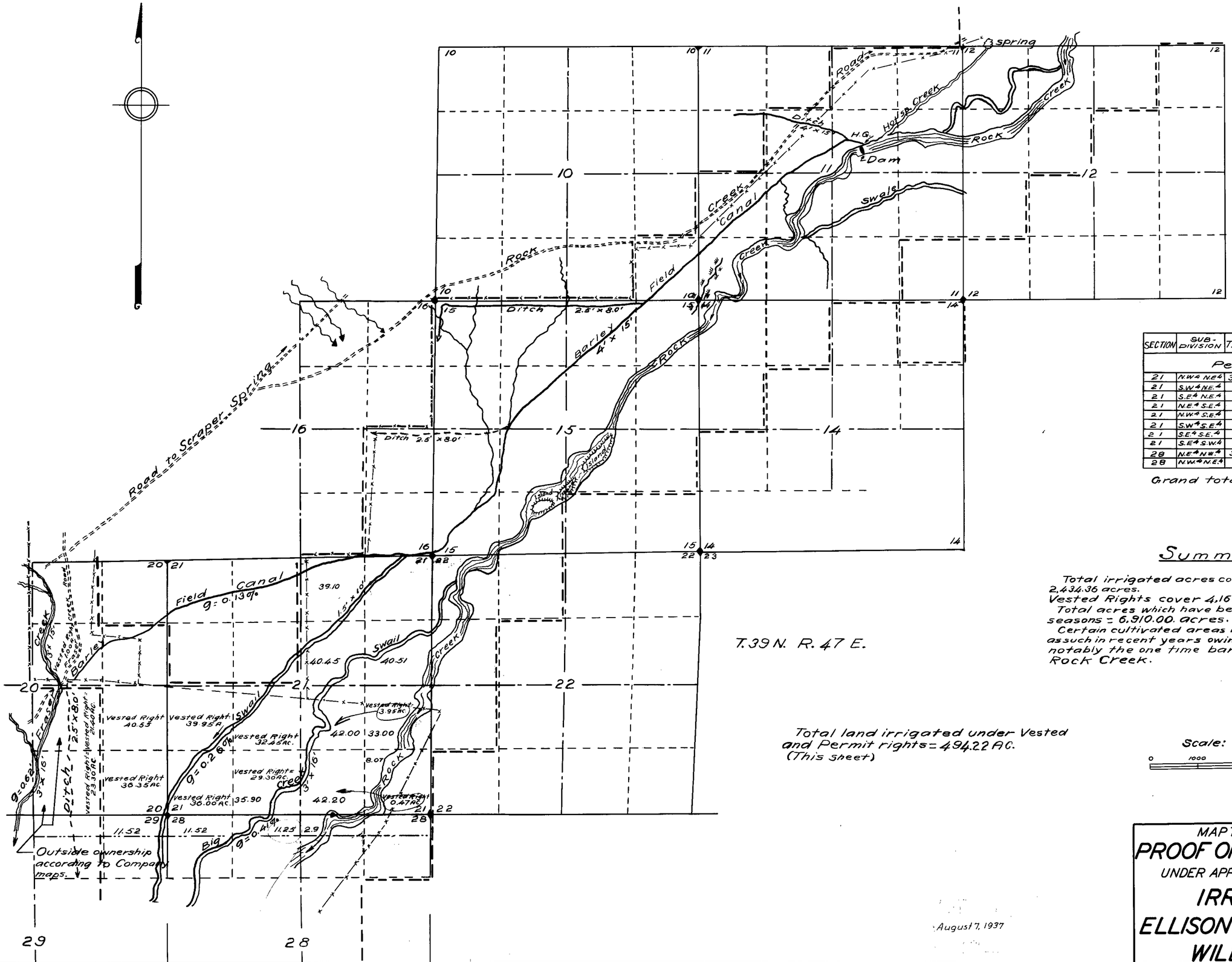


SECTION	SUB-DIVISION	T. N.	R. E	CULTIVATED ACREAGE	KIND OF CULTURE
28	N.W.¼ N.E.¼	39	47	2.07	DIVERS. PAST.
"	N.E.¼ N.W.¼	"	"	23.57	" "
"	N.W.¼ N.W.¼	"	"	16.12	" "
"	S.E.¼ N.W.¼	"	"	11.95	" "
"	S.W.¼ N.W.¼	"	"	39.10	" "
"	N.W.¼ S.W.¼	"	"	25.02	" "
"	S.W.¼ S.W.¼	"	"	19.82	" "
29	S.E.¼ N.W.¼	"	"	39.67	" "
"	N.E.¼ S.E.¼	"	"	40.15	" "
"	S.E.¼ S.E.¼	"	"	39.90	" "
32	N.E.¼ N.E.¼	"	"	39.25	" "
"	N.W.¼ N.E.¼	"	"	40.05	" "
"	S.E.¼ N.E.¼	"	"	25.05	" "
"	S.W.¼ N.E.¼	"	"	40.07	" "
"	N.E.¼ S.E.¼	"	"	7.12	" "
"	N.W.¼ S.E.¼	"	"	40.12	" "
"	S.E.¼ S.E.¼	"	"	1.30	" "
"	S.W.¼ S.E.¼	"	"	35.25	" "
"	N.E.¼ S.W.¼	"	"	41.12	" "
"	N.W.¼ S.W.¼	"	"	41.37	" "
"	S.E.¼ S.W.¼	"	"	41.42	" "
"	S.W.¼ S.W.¼	"	"	40.55	" "
5	N.E.¼ N.E.¼	38	47	0.97	MEADOW PAST.
"	"	"	"	11.30	DIVERS. "
			TOTAL	12.27	
"	N.W.¼ N.E.¼	"	"	11.52	MEADOW PAST.
"	"	"	"	27.45	DIVERS. PAST.
			TOTAL	38.97	

T.39 N. R.47 E. M.D.B&M.



SECTION	SUB-DIVISION	T. N.	R.E	ACREAGE	KIND OF CULTURE	
Permit NO. 1760						
21	N.W.¼ N.E.¼	39	47	39.10	DIVERS.	PAST.
21	S.W.¼ N.E.¼	"	"	40.45	"	"
21	S.E.¼ N.E.¼	"	"	40.51	"	"
21	N.E.¼ S.E.¼	"	"	33.00		
21	N.W.¼ S.E.¼	"	"	42.00	"	"
21	S.W.¼ S.E.¼	"	"	42.20	"	"
21	S.E.¼ S.E.¼	"	"	8.07	"	"
21	S.E.¼ S.W.¼	"	"	35.90	"	"
28	N.E.¼ N.W.¼	39	47	11.25	"	"
28	N.W.¼ N.E.¼	"	"	0.00	"	"

Grand total = 292.48 Acres.

Summary

Total irrigated acres covered by permit NO.1760 = 2,434.36 acres.
Vested Rights cover 4,169.00 acres.
Total acres which have been irrigated in favorable seasons = 6,910.00. acres.
Certain cultivated areas have been abandoned as such in recent years owing to shortage of water, notably the one time barley fields irrigated by Rock Creek.

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