

OCT 05 2005

DEPARTMENT OF
WATER RESOURCES

Laura E. Burri
Jeffrey R. Christenson
D. Blair Clark
Michael J. Doolittle
S. Bryce Farris
Patrick D. Furey
David Hammerquist
Charles L. Honsinger
Joseph B. Jones
James P. Kaufman
Jennifer Reid Mahoney
James G. Reid
William F. Ringert
Daniel V. Steenson
Alynn L. Sweeney
Samuel Kaufman (1921-1986)

October 5, 2005

BY HAND DELIVERY

Carter Fritschle
Idaho Department of Water Resources
Adjudication Bureau
322 East Front Street
Boise, Idaho 83720-0098

Re: King Hill Irrigation District's Notice of Claim

37-21595

Dear Carter:

Enclosed is a Notice of Claim that we are filing on behalf of King Hill Irrigation District. Also enclosed are: documents referencing the original, 72-inch wood stave pipe and the replacement 72-inch steel pipe for King Hill's head end siphon that carried water across the Snake River into King Hill's main canal; a computation prepared by Dave Shaw of the capacity of the original wood stave pipe, and a \$50 filing fee. Please date stamp the enclosed conformed copy for our records.

Please advise me if you require any further information regarding this claim and thanks again for all your help.

Yours very truly,



Daniel Steenson

cc: King Hill Irrigation District
Enclosures

RECEIVED

OCT 05 2005

DEPARTMENT OF
WATER RESOURCES

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

**IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM**

CIVIL CASE NUMBER: 39576

Ident. Number

Date Received

Receipt Number

37-21595
10-5-05
C079293

d.p. m 10-12-05

**NOTICE OF CLAIM
TO A
WATER RIGHT
ACQUIRED UNDER STATE LAW**

Please type or print clearly

1. Name of Claimant (s) King Hill Irrigation District Phone (208) 366-2243

Mailing Address P.O. Box 428 Zip 83633

2. Date of Priority (Only one (1) per claim) March 1, 1909

3. Source of water supply (a) Malad River
which is tributary to (b) Snake River

4. a. Location of existing point of diversion is: Township 6S Range 13E Section 35.
1/4 of NW 1/4 of NW 1/4, Govt. Lot, B.M., County of Gooding

Additional points of diversion if any: See Attachment 1

b. If instream flow, beginning point of claimed instream flow is:

Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____ 1/4,

Govt. Lot _____ B.M., County of _____

ending point is: Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of

_____ 1/4, Govt. Lot _____ B.M., County of _____

5. Description of existing diversion works (Dams, Reservoirs, Ditches, Wells, Pumps, Pipelines, Headgates, Etc),
including the dates of any changes or enlargements in use, the dimensions of the diversion works as constructed
and as enlarged and the depth of each well. See Attachment 1.

6. Water is claimed for the following purposes:

(both dates are inclusive)

(cfs)

(acre feet)

For Irrigation purposes from 3-1 to 10-31 amount 70 or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

7. Total quantity claimed (a) 70 (cfs) and/or (b) _____ (acre feet)

8. Total consumptive use claimed is 9,611 acre feet per annum.

9. Non-irrigation uses; describe fully (eg. Domestic: Give number of households served; Stockwater: Type and number of livestock Etc.) _____

10. Description of place of use:

(a) If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

(b) If water is used for other purposes, place a symbol of use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RNG	SEC	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total number of acres irrigated 11,573

11. In which county (ies) are lands listed above as place of use located? Elmore and Twin Falls

12. Do you own the property listed above as place of use? Yes _____ No X

If your answer is No, describe in Remarks below the authority you have to claim this water right.

13. Describe any other water rights used at the same place and for the same purposes as described above.

37-04112 or None ()

14. Remarks:

Last Name King Hill Irr. Co.

Ident No. 37-21595

15. Basis of Claim (check one) Beneficial Use X Posed Notice _____ License _____ Permit _____
Decree _____
If applicable provide IDWR Water Right Number _____
Court _____ Case Number _____ Decree Date _____
Plaintiff v. Defendant _____

16. Signature (s)
(a) By signing below, I/We acknowledge that I/We have received, read, and understand the form entitled
"How you will receive notice in the Snake River Basin Adjudication." (b) I/We do _____ do not _____
wish to receive and pay a small annual fee for monthly copies of the docket sheet.
Number of attachments _____

For individuals: I do solemnly swear or affirm that the statements contained in the foregoing document are true
and correct.

Signature of Claimant (s) _____ Date _____
_____ Date _____

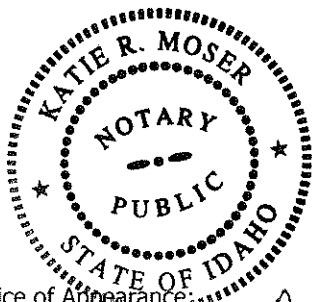
For Organizations: I do solemnly swear or affirm that I am _____

_____ Title _____
of King Hill Irrigation District _____, that I have signed the foregoing
Organization
document in the space below as _____ of King Hill Irrigation District
Title Organization
and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent Garthel L Brown
Title and Organization _____ Date _____

State of Idaho/or _____)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 13th day of September 15 2005



Notary Public Katie R. Moser
Residing at Boise, ID
My Commission Expires 2/20/08

17. Notice of Appearance: _____ Please Print Name
Notice is hereby given that I, Daniel V. Skenson will be acting as attorney at law on behalf
of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above
should be mailed to me at the address listed below.

Signature Daniel Skenson
Address P.O. Box 2773, Boise, ID 83701
Date 10/5/05

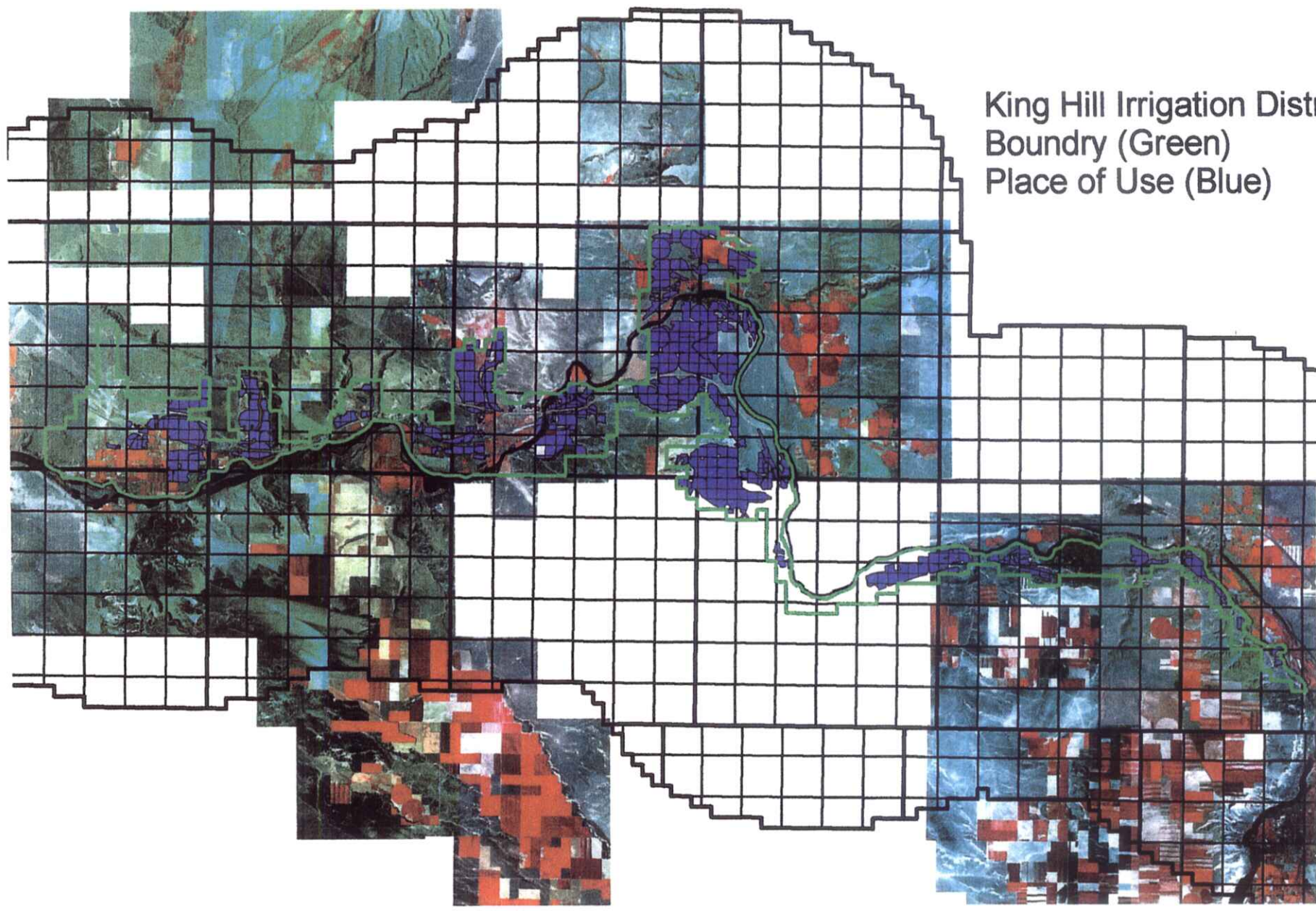
Last Name King Hill Irr. Co. Ident. Number 37-21595

Irreparable damage to the inverted siphon extending from the diversion flume, across Snake River, to the main canal of the District, which occurred in 1978, has necessitated construction of four pumping stations to pump water from Snake River. The original point of diversion is retained, and by agreement with Idaho Power Company the water is diverted at the original point of diversion and used to generate electrical power at the Lower Malad power plant of Idaho Power Company. After passing through the generating facilities of Idaho Power Company, the water is discharged into the Snake River and thence carried in the natural channel of Snake River to the pumping stations located at the points described in the original claim and Transfer No. 2315. By reason of the provisions in Idaho Code § 42-105, King Hill regards this procedure as turning its water into the channel of another stream, mingling the water, and then reclaiming the water at the pump stations, so long as the water is diverted through the Lower Malad power plant of Idaho Power Company.

At such times, if any, as water is not being diverted through the Lower Malad power plant, the pumping stations are regarded as primary points of diversion.

King Hill Irrigation District Point(s) of Diversion

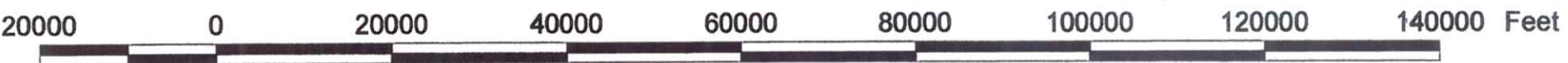
T05S	R10E	S12	NESE	Lot 7	Rediversion Within ELMORE County
T05S	R10E	S28	SWNW	Lot 7	Rediversion Within EMLMORE County
T06S	R11E	S9	NWSW	Lot 6	Rediversion Within ELMORE County
T06S	R12E	S12	NWSW	Lot 7	Rediversion Within TWIN FALLS County
T06S	R13E	S27	SWSW	Lot 2	Injection Within GOODING County
T06S	R13E	S35	NWNW		Within GOODING County



King Hill Irrigation District
Boundry (Green)
Place of Use (Blue)



Attachment 2, page 1



Place of use Legal C Irrigation																	1141		
			NE				NW				SW				SE				
TWP	RNG	SEC	NENE Lt Ac	NWNE Lt Ac	SWNE Lt Ac	SENE Lt Ac	NENW Lt Ac	NWNW Lt Ac	SWNW Lt Ac	SENW Lt Ac	NESW Lt Ac	NWSW Lt Ac	SWSW Lt Ac	SESW Lt Ac	NESE Lt Ac	NWSE Lt Ac	SWSE Lt Ac	SESE Lt Ac	SUM
05S	08E	24																39	39
05S	08E	25	39		38	40			33	40	26	24	38	39			35	18	371
05S	08E	26				0							10	7	6	4	29	36	92
05S	08E	32									3- 3								3
05S	08E	34			14	4									36			36	90
05S	08E	35					25	17	33	34									110
05S	08E	36		40	28	19	39	37	1	9	38	35	36	31	15	36	37		402
06S	08E	1	1- 15				3- 44	4- 39											99
06S	08E	4					3- 4												4
05S	09E	19													9			26	35
05S	09E	20										4	30						34
05S	09E	22																18	18
05S	09E	25											13	18			17		48
05S	09E	26						7	5										12
05S	09E	27	4	3		2				0	31	12	12	8	19	19			111
05S	09E	29					2	33	34	23	24	39	27	34			4		219
05S	09E	30	21			0									31			29	82
05S	09E	31	26			16							4- 4		1- 19	2- 9			73
05S	09E	32		9	6		36	35	23	30	3- 20	4- 24					2- 2		185
05S	09E	36	12	14	17	13	11	11			3					1			82
05S	10E	1	1- 36	2- 26	30	39	3- 34	4- 18	41	17	0	33	39	38	29	2	26	9	417
05S	10E	2	1- 9			31									31			19	90
05S	10E	11	33			32									18		2	27	111
05S	10E	12	7	7			17	38	36	16	3- 14		4- 5				6- 28	7- 17	186
05S	10E	13	33	28	40	36			2- 18	32	36	39	32	39	37	40	38	35	483
05S	10E	14	1- 4	2- 10		8- 11									39			37	101
05S	10E	17										35	29						64
05S	10E	18												13			15	13	42
05S	10E	19	7	26	8	23	39	1- 42	2- 42	40	41	3- 23	4- 16	41	29		33	25	433
05S	10E	20						33	6										39
05S	10E	21												5				5- 40	45
05S	10E	22										8- 10	9- 13						23

TWP	RNG	SEC	NE				NW				SW				SE				SUM
			NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	
			Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	
05S	10E	23	28			31								13	11		36	26	146
05S	10E	24	37	35	25	37	34	40	38	26	26	23	38	37	25	18	40	36	514
05S	10E	25	13	32	2		38	37	23	19									164
05S	10E	26	39	31	1	13	3												86
05S	10E	27			4		9	29	21	25	3	10				23			122
05S	10E	28	27	1- 30	24	19	2	8- 2	7- 4	2- 14	3- 25	6- 14	5- 16	4- 18	39	32	28	26	320
05S	10E	29			4	11			12	9									36
05S	10E	30	29	39	20	25	36	1- 14		11				13		13	8		207
05S	10E	31		14	29		26	7- 23	6- 32	27					4	15			170
05S	10E	32								3- 3		5- 12							15
05S	10E	33	23	36	16		38	1- 27		38	7	11							195
05S	10E	34						2	34										36
05S	10E	36			9	15					2				33	21		12	92
06S	10E	1	1- 31	2- 25		9													64
05S	11E	5									27	27	40	28					123
05S	11E	6					3- 34	4- 29						10	35			32	139
05S	11E	7	5											28		7- 6	26	6- 18	83
05S	11E	8					4	4- 39											43
05S	11E	17					2- 15	24	20	3- 22	6- 14			7- 3					98
05S	11E	18	31	20	31	16	32	1- 32	2- 28	36	36	3- 27	4- 32	35					355
05S	11E	19	37	32	34	36	37	1- 30	2- 32	36	8	3- 18	6- 12	35	4- 20	23	5		394
05S	11E	29												0			7		8
05S	11E	30	3	30	22	27	21								27			25	155
05S	11E	31	5	6	36	39	11	1- 3	2- 36	40	40	3- 33	4- 35	39	39	38	38	38	477
05S	11E	32		13	27	3- 5			18	0			2	14	19	33	23	27	205
05S	11E	33							2- 5			5- 25		6- 24					54
06S	11E	4						3- 22											22
06S	11E	5	1- 18	2- 34	27	5	3- 18	4- 20	40	31	12	38	18			8			266
06S	11E	6	1- 43	2- 42	40	40	3- 44	4- 38	5- 26	40	16	6- 0			31	32		9	401
06S	11E	8													8			5	12
06S	11E	9									6- 12	7- 24							36
06S	11E	12													8- 1		7- 24	39	65
06S	11E	13	32	38	6		39	35	33	19									201

TWP	RNG	SEC	NE				NW				SW				SE				SUM
			NENE Lt Ac	NWNE Lt Ac	SWNE Lt Ac	SENE Lt Ac	NENW Lt Ac	NWNW Lt Ac	SWNW Lt Ac	SENW Lt Ac	NESW Lt Ac	NWSW Lt Ac	SWSW Lt Ac	SESW Lt Ac	NESE Lt Ac	NWSE Lt Ac	SWSE Lt Ac	SESE Lt Ac	
06S	11E	14	25	11	40	40	1-	1	3-	4	38	9			4	18			189
06S	11E	16						2-	21										21
06S	12E	7									7-	16	8-	7	9-	36		34	143
06S	12E	8											8-	3	7-	26	6-	12	87
06S	12E	9										3-	23		34	8-	9		66
06S	12E	11																32	61
06S	12E	12										8		25	8-	15			56
06S	12E	13							0										0
06S	12E	16	9	23	8	8	34		2		0								85
06S	12E	17	4																4
06S	12E	18					19	1-	31										49
06S	13E	7									5-	35	3-	7	4-	23			65
06S	13E	17										5-	5	4-	11				16
06S	13E	18		6-	12	5-	19	30	1-	3					15			1	80
06S	13E	20		8-	1	9-	10				16	2				6-	4		32
06S	13E	21												4-	8				8
06S	13E	28		7-	13	6-	15		3										30

Sub-Total (QQ) Acres 10432

Township Acres:
 Blakes Addn to Glenss Ferry 8
 Elmpre Addn to Glenss Ferry 116
 Fruitland Subdiv to Hammett 572
 Glenss Ferry Townsite 3
 Hammers Addn to Glenss Ferry 16
 Hartman Addn to Glenss Ferry 71

King Hill Townsite 85
 Leonard Thompson Addn. 0.3
 Medbury Subdiv to Hammett 43
 N. Addn to Glenss Ferry 10
 NW Addn to Glenss Ferry 32
 South Glenss Ferry 9
 South Hammett 113
 Woodhouse Cove 63

Sub-total (Township) Acres 1141

Total Acres 11573

OCT 05 2005

DEPARTMENT OF
WATER RESOURCES

OPENING AT KING HILL, IDAHO,
MONDAY, OCTOBER 12th, 1908.

PERSONAL VIEWS OF AN EMPIRE BUILDER

C. C. Hutchinson of Portland Visits the King's
Hill Fruit Lands—Is Delighted with
Appearance of Tract.

C. C. Hutchinson of Portland, founder of a flourishing city in Kansas which bears his name, and for many years an active promoter of big projects in the northwest, recently visited the King Hill Carey act project near Glenns Ferry, Idaho, and was greatly pleased with what he saw. Mr. Hutchinson takes almost a paternal interest in anything meritorious that will build up the country. President Hammett of the Kings Hill Company requested Mr. Hutchinson to write him what he thought of the King valley project upon his return home, and in due course of mail the following letter was received from Mr. Hutchinson:

"In accordance with your request I give a summary of results of my examination of your lands and water system, which was made at the request of parties proposing to take land, provided my report was favorable.

LAND GROWING SCARCE.

"It is well known that there are now remaining in the United States few, if any, large undeveloped irrigation projects, the water for which can be taken from a continuously running stream. Therefore, nearly all the new projects—and many of the old ones—are reservoir systems. But your wonderful Malad river flows directly from many strong springs. Gushing from a lava deposit, it rushes down a rocky canyon to Snake river, with a perpetual foaming drop of 150 feet. It is a wonderful trout stream; and for irrigation and power, nowhere equalled in its concentrated energy and direct application.

"I saw the first class dressed and grooved Oregon fir unloading at Bliss for the huge flume which is to convey this entire sparkling river to the brink of the perpendicular cliff, overlooking Snake river. I noted the care with which this lumber was again inspected. Great planks were laid one side for trifling defects which would have escaped unskilled eyes, and ordinarily would have been used in the flume, but perfection seemed to be required in all these works.

DAM CONSTRUCTION.

"August 25th I arrived at the dam which is to divert the entire flow of the Malad river into this

DRAWING TAKES PLACE AT
KING HILL, IDA., OCT. 12th, 1908.

flume, which is 16 feet wide and seven feet deep, with a strong current. One-half of the dam was completed in the most substantial manner and the river was pouring over its cement and timber-capped crest. The finished portion extends far into the high, rocky bank. Fortunately, I could see the method of completing the dam, as a powerful engine was pumping water from the crib coffer-dam which was being sunk through the coarse gravel and huge boulders forming the bed of this river, beneath which is a tough clay strata of great but unknown depth. This will permit the completion of the dam across the river and far into the solid banks on either side and extending 32 feet up and down the river. The dam is sunk four feet into the clay strata. The length across the stream is 260 feet and it carries five large gates. The crest is only seven feet above the natural flow of the river.

"This is simply a diverting dam, as the flow is never below the present amount, being 1100 cubic feet per second, according to annual measurements of United States engineers. This gives you 10,000 horsepower aside from the liberal quantity to be carried across Snake river in a wooden stave pipe, six feet inside diameter, banded by steel rods, which is to rest on a steel bridge already constructed. The bridge, 300 feet long in two spans, rests on cement concrete abutments and one pier. All are above the highest water, the total length being 300 feet.

"The pipe above described is 1500 feet long, the discharge being seven feet below the inlet. The steel inlet and outlet are imbedded in concrete. It carries 320 second feet of water. The State of Idaho controls and directs these entire works under the Carey law, and it requires that one cubic foot of water per second of time shall be furnished for irrigation and domestic purposes for each 80 acres of arid land reclaimed. This pure soft water will flow to every home every day of every year.

THOROUGH CONSTRUCTION.

"The thoroughness and extreme care exhibited in all the works under construction is really remarkable. This work will stand as a monument to the business capacity of C. H. Hammett, the president, and to the skill of his engineering corps and the contractors.

"It is not supposable that such a water supply would lie unappropriated all these years during which Idaho has reclaimed nearly two million acres from its desert condition. Efforts were early made to use Malad river for irrigation and power. A local company erected abutments and a pier on the rock bottom of Snake river and placed a wooden bridge on the same.

"The abutments and pier have stood secure for several years, but Mr. Hammett, after purchase of the old water rights, which include the entire flow of the river, caused the wooden structure to be removed and erected a steel bridge in its place to carry the six-foot water pipe to the south side of the river.

**DRAWING AT KING HILL, IDAHO,
MONDAY, OCTOBER 12th, 1908.**

Aside from the established rights of the Company to the entire river, it is a physical impossibility to carry these waters to any other lands, all other tracts being above the water supply.

A. T. KING FEATURE.

"A taking feature of this project is the slope to the north of most of the segregation, which all drains into the Snake river. A careful examination of the land satisfies me that there is no more desirable soil or climate for fruit growing on this coast. Its sunny altitude is only 2500 to 2700 feet above the ocean, giving health to the grower and unsurpassed texture, flavor, aroma and color to all fruits. It is equally valuable for the most delicate vegetables. This little valley lies several hundred feet below the surrounding sheltering bluffs and ranchers just across Snake river, and on the north side, have for 15 to 20 years, irrigated from springs. They say that the spring frosts prevailing on the surrounding plain have never injured their gardens or orchards of peaches, apricots, plums, apples, etc. They also told me that snow never lies on the ground 24 hours. The conditions are unsurpassed for alfalfa, producing in three cuttings six to eight tons per acre. There is absolutely no alkali.

SUPERIOR MARKET FACILITIES.

"The convenience to the best markets places it ahead of any part of California or southern Oregon or the Yakima country. Cars loaded with fresh fruit at King Hill will immediately reach a higher and cooler country and when they pull out they are already four days ahead of the fruits of Hood river, or of the Yakima valley in Washington, and will reach any mining or eastern market six or seven days before fruit from Medford or Grants Pass, Oregon.

"Your guarantee of a large, modern cannery at King Hill next spring, which will contract for all surplus fruits and vegetables in advance, enables working farmers to meet all payments from their own products after the first or one-tenth payment.

UNAPPROACHABLE.

"Nowhere else can such soil, climate, water supply and railroad facilities be found combined as in the few thousand acres under your management in the King valley project. Happy will be the family or business man owning a few acres of these lands."

For Further Information Write

**Kings Hill Irrigation & Power
Company**

BOISE :: IDAHO

**OPENING AT KING HILL, IDAHO,
MONDAY, OCTOBER 12th, 1908.**

Snake River Valley

Snake River Valley

has been established as a public domain and
OFFICIAL LAND SURVEY and is now being
T. W. H. K. O. O. R. W. O. T.

SETTLE

**CAREY
:: ACT ::
LANDS**



**Drawing & Opening
at King Hill, Idaho
October 12th, 1908**

**Kings Hill Irrigation & Power
Company**

BOISE :: IDAHO

**OPENING SALE, OCT. 12th, 1908,
KING HILL, IDAHO.**

CAREY ACT LAND.

Approximately 15,000 acres of the choicest land in the entire West, lying along and on the south side of the great Snake River, in Owyhee and Twin Falls Counties, Idaho, are being reclaimed and put under irrigation by the KINGS HILL IRRIGATION & POWER COMPANY.

WATER.

The entire flow of the Malad River has been secured for the purposes of this project, and comprises about 1100 second feet, which more than amply provides the legal requirements per acre for this tract of land, and leaves a sufficient surplus to generate 10,000 H. P. electric current, which will rapidly be developed by the Company for the primary benefit of this community, and the use of the surrounding industries.

The water question being the all-important one for the success of any irrigation project, the sufficiency of supply must not be undervalued. The source of supply of water, which is the Malad River, is fed by innumerable warm springs, which are never failing and come out of the rocks over a very short course of not exceeding three miles.

The temperature of the water is such that in the coldest winter freezing is unknown, and chemical analysis shows no element unfavorable to its use for irrigation and domestic purposes. There is no visible change in the flow of this stream throughout the whole year; its absolute purity makes it very desirable for domestic use, and the abundance of flow is one of the strong endorsements of this project.

The water will be ready for delivery for irrigation by April 1st, 1909.

CONSTRUCTION.

Under the "Carey Act," and laws authorizing same, the State Land Board entered into a contract with the Kings Hill Irrigation & Power Company to construct this irrigation system, and to provide ample water for irrigation. The contracting Company has given bond in a large amount for the faithful performance of its contract with the State. All construction and delivery of water must be examined and passed on by the State Engineer, and approved by the State Land Board, before acceptance of the completion of the same, and before the irrigation system is turned over to the farmers.

The construction is being executed in the most durable manner that the best of engineers and material can accomplish, and same will be completed and water turned onto each subdivision of land before the next irrigation season of 1909.

The system will have a constant and regular flow of water throughout the entire year, and to the great benefit of the life of the flumes and woodwork, as it is a well known fact that a constant flow of this nature (never leaving the flumes, etc., in a dry state) means an almost unlimited life to the woodwork, which is continually under water.

**DRAWING, OCT. 12th, 1908,
AT KING HILL, IDAHO.**

Under the law, each purchaser of water rights is entitled to stock in the operating irrigation company, and when the water rights are all sold to the farmers they become the sole owners of the entire irrigation project, electing their own directors who will operate the irrigation company without interference from outsiders.

DRAINAGE.

Too much care cannot be exercised in the selection of land with regard to drainage. The land in this tract has a gentle slope to the north from the canal toward the river, which has sufficient depth below the surface of the land to make drainage most perfect, and the character of the soil is such that it will practically be impossible to sour or ferment the soil by excessive use of water.

LAND AND SOIL.

The land set aside or segregated to this project is generally level to sloping toward the Snake River, and gently undulating, and is situated along the course of the river, being comprised almost entirely of bottom lands with heavy deposits of nitrogenous soil which have washed down through countless ages from the surrounding upland hills. The top layer of soil consists of highly nitrogenous sandy loam, with a sand and fine gravel subsoil extending to a great depth, and free from hardpan or any form of alkali deposits. From its character it can be readily seen that it is ideal for the growth of any vegetation, vegetables thriving most prolifically, while added to this are the excellent climatic conditions prevailing in this district particularly, and in Southern Idaho generally, where frosts and ice are almost unknown, and high mean annual temperature prevails, with uniform and long-continued growing seasons.

PROTECTED CONDITION.

The cove land comprising this project varies in width from half a mile to three miles, and lies along and under a high lava bluff which rises abruptly to a height of three to four hundred feet; this same condition prevails on the opposite side of the river, which creates perfect protection from the north winds during the winter and freezing months, causing a difference of from 15 to 20 degrees in temperature in this cove or protected valley, while the plains or desert lying above and back from the crest of the lava bluff get the full force of the winds and colder weather conditions, also the late frosts that destroy the fruit bud, blossom and early vegetables do not occur in the cove below.

ALTITUDE.

The altitude of this land varies from 2550 to 2700 feet above sea level, which is from 1200 to 1700 feet lower than the nearest territory now being reclaimed under the "Carey Act." The protected condition gives it exceptional health advantages, especially for pulmonary or nervous diseases, owing to the fact

**SALE OF FRUIT LANDS AND TOWN LOTS,
KING HILL, IDAHO, OCT. 12th, 1908.**

that there are no sudden changes of temperature to shock the system. The mean temperature for the year 1907 was 52 degrees, and there were three hundred and thirty days of sunshine.

RAILROAD AND SHIPPING FACILITIES.

The main line of the Oregon Short Line Railroad, running east and west on the north side of the Snake River, parallels this tract of land its entire length. This feature will naturally appeal to the entryman or homebuilder, where he will be in touch with a trunk line railroad, for shipping his surplus products to the markets, both east and west, also north to Butte, Montana, which is an ever ready market with an urgent demand and top market prices. An appreciable advantage of being on the main line of a railroad is in obtaining lower freight rates than those having to ship their marketable produce over a branch line.

At present there are three ferries in course of construction, and contemplated construction, across the Snake River, which will put the settler in close communication with the nearest railroad station opposite his residence, of which there are three, the most easterly being Bliss, the most westerly, Glenna Ferry (which is a division point on the railroad) and the central one—King Hill, where this Company will build up a new and prosperous town. The railroad company is assisting in every way possible within their power; side tracks are now in and extensions will be made, with a commodious new passenger depot and freight warehouse authorized to be built, giving all the accommodations possible for the settler or homebuilder nearby, where two trunk line passenger trains daily, east and west, will stop, as well as freight trains in keeping with the traffic resulting from the development of the fertile land reclaimed by this Company.

ROADS.

Roads will be built by the Company along the section lines the full length of the lands, as well as cross roads leading to the ferries, which will later be replaced by bridge across the Snake River, and it is intended to have a boat ply up and down the river, giving additional accommodation and means of transportation.

A SUGGESTION TO SETTLERS.

It is the belief of the irrigation company, and those interested in the settlement of this wonderfully fertile land (based on the productivity of the soil, and especially the possibilities of horticulture or fruit culture), that 80 acres, or even 40 acres planted half to fruit (of choice varieties) and the balance to diversified products, will keep the average family busy in taking care of it, if properly done, and in ten years will make every acre worth from \$1,000 to \$2,000 per acre, which is not excessive, for we have the existing example in the Yakima Valley, Sunnyside and Wenatchee, Washington, fruit districts,

**OPENING DATE, OCT. 12th, AT THE NEW
TOWNSITE, KING HILL, IDAHO.**

where orchards are in full bearing which sell for more than that. In Grand Junction, Colorado, orchard lands with good improvements thereon, have sold as high as \$3,000 per acre, all of which is possible and very probable on the King Hill project, for it is in Idaho, the great fruit producing State, which is in the ascendancy as a fruit producer, and will maintain that reputation for all time to come. Climatic and natural conditions make it so; it cannot be otherwise.

The KINGS HILL IRRIGATION AND POWER COMPANY have entered into a contract with the State Board of Land Commissioners of Idaho, wherein the irrigation company is permitted to sell water rights for and at the price of \$65.00 per acre water right on the following terms: One-tenth at the time of filing on the land, the balance in nine equal annual payments bearing 6 per cent interest until paid.

The Land Board sells the land at 50 cents per acre; 25 cents is paid at the time of entry, and 25 cents (or the balance of total) when final proof is made.

An opening will be held at KING HILL, Idaho, on October 12th, 1908, for the purpose of selection and filing upon the land, which will be ready at that time.

Prospective entrymen are requested to make an inspection of the land several days before the opening takes place, and make memorandum record of a number of selections, which will assist greatly on the day of opening.

To file on 40 acres it will be necessary to deposit with the Company, upon the day of opening, one tenth the cost per acre for the total acres you wish to enter:

For the water right this will amount to....	\$260.00
For the land	10.00
For filing fee	1.00
Notarial fee	.50

Total	\$271.50
To file on 80 acres the deposit would be....	\$541.50
To file on 120 acres the deposit would be....	811.50
To file on 160 acres the deposit would be....	1,081.50

Should you deposit the required amount for the acres desired and fail to secure a desirable selection you can withdraw your deposit.

REQUIREMENTS TO PERFECT TITLE.

After the irrigation company has completed the system of canals and laterals for the delivery of water, the entryman will be notified to establish residence, and from that date he will have six months to move on the land selected and filed upon, when he will be required to clear and seed, to any crop he may desire, one-eighth of the land, and live upon it at least 30 days, and have water delivered to each 40-acre subdivision, and having accomplished all this he can make final proof and secure title, by paying the State the additional 25 cents per acre.

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OCT 05 2005

DEPARTMENT OF
WATER RESOURCES

DEPARTMENT OF THE INTERIOR
UNITED STATES RECLAMATION SERVICE

ANNUAL PROJECT HISTORY

LING HILL PROJECT

IDAWO

CALENDAR YEAR 1980.

PROBABILITY AND EXTENT OF WORK

The Main Canal of the Kink Hill project is carried across the Snake River in a 72 inch wood stave pipe which, about half way up the south side of the river valley, enlarged to a 100 inch wood stave pipe.

The replacement of the 100 inch pipe by the Head End Flume necessitated the relocation of a portion of the 72 inch pipe on the south side of the river, and the use of a temporary connection to the Head End Flume until such time as the present Siphon No. 1 is replaced with a permanent structure.

AUTHORITY FOR CONSTRUCTION

For authority for construction see Estimate and Authority No. 4, Revision No. 3, dated October 23, 1920, and approved November 1, 1920.

DESCRIPTION OF WORK

The work performed by Government force during the year consisted of the excavation for the new pipe location, and the erection of a temporary timber connection between the siphon and the Head End Flume. This connection was moved from Sta. 93+00 to its present location.

The Kink Hill Irrigation District forces relaid the part of the siphon that was affected by this work.

DESIGNS

The only plan used in this work was B-3022 - Temporary connection Siphon No. 1 and Head End Flume.

KING HILL IRRIGATION DISTRICT

KING HILL, IDAHO

CONTRACT DOCUMENTS

for the reconstruction of the

SNAKE RIVER SIPHON NO. 1

McCarter & Tuller
Consulting Engineers
Boise, Idaho

1965

SECTION 1.2

INFORMATION FOR BIDDERS

1.201 PROPOSALS: Proposals are requested for the reconstruction of the Snake River Siphon No. 1 near King Hill, Idaho. The project includes the furnishing and installation of approximately 701 feet of 78 inch concrete pressure pipe and 453 feet of 72 inch steel pipe, together with necessary appurtenant structures and the installation thereof.

1.202 CONTRACT DOCUMENTS: The Contract Documents under which it is proposed to execute this work consist of the material bound herewith. These Contract Documents are intended to be mutually cooperative and to provide all details reasonably required for the execution of the proposed work. Any person contemplating the submission of a proposal and being in doubt as to the meaning or intent of said Contract Documents should request of the Engineer, in writing, for an interpretation thereof. Any interpretation or change in said Contract Documents will be made only in writing, and a copy of such interpretation or change will be mailed or delivered to each person receiving a set of the Documents. The King Hill Irrigation District will not be responsible for any other explanations or interpretations of said Documents.

The plans bound herewith are half-size photographic reductions of the original tracings. These smaller size plans are furnished for bidding purposes only.

1.203 ITEMS OF CONSTRUCTION AND ESTIMATE OF QUANTITIES: The estimate of quantity of work to be done is tabulated in the Proposal and, although stated with as much accuracy as possible, is approximate only and assumed solely for the basis of calculation upon which the award of Contract shall be made. The numbering system used in this tabulation is retained throughout the Contract Documents and will be found in the Specifications. Payment to the Contractor will be made on the measurement of the work actually performed by the Contractor, as specified in the Contract Documents.

1.204 PREPARATION OF PROPOSALS: All blank spaces in the Proposal Form must be filled in, in ink, in both words and figures where required. No changes shall be made in the phraseology of the forms or in the items mentioned herein.

Any proposal shall be deemed informal which contains omissions, erasures, alterations, or additions of any kind, or items uncalled for, or in which any of the items are obviously unbalanced, or which in any manner shall fail to conform to the conditions of the published Advertisement for Bids.

The bidder shall sign his Proposal in the blank space therefor. Proposals made by the corporations or partnerships shall contain names and addresses of the principal officers or partners. If the Proposal is made by a corporation, it must be acknowledged by one of the principal officers thereof; if made by a partnership, by one of the partners.

Pipes Flowing Full Using Mannings Formula

$$Q = 0.463 d^{8/3} s^{1/2} / n$$

Where: Q = discharge in cfs
0.463 = dimensional constant
s = slope of pipe in foot per foot = 7/1500
n = channel roughness coefficient
d = pipe diameter in feet

$$\begin{aligned} d &= 6 \text{ feet} \\ s &= 0.004667 \text{ foot per foot} \\ n &= 0.01^* \\ Q &= 376 \text{ cfs} \end{aligned}$$

* Brater & King, Handbook of Hydraulics, Sixth Edition recommends "n" values for wood stave pipe from 0.010 to 0.014.