

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: A72-00163
Date Received: 12/07/1989
Receipt No: M005336
Received By: SCC

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: MORGAN CREEK CATTLE ASSOCIATION 208-879-2365
Address: C/O DELBERT HUGHES
HC 61 BOX 3054
CHALLIS, ID 83226

2. Date of Priority: MAY 01, 1912

3. Source: VAN HORN CREEK Trib. to: MORGAN CREEK

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
17N	19E	31	NW	NW	SE		CUSTER
			SE	NW	SE		CUSTER

5. Description of diverting works:
VIA CAMERON DITCH

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	0.800		

7. Total Quantity Appropriated is:
0.800 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 100.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4 of	Lot	Use	Acres
16N	19E	6	NE	NE		IRR	3.0
			NW	NE		IRR	9.0

A72-00163

Page 1

Date: 12/07/89

MICROFILMED
MAR 1 8 1993

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
16N	19E	6	SW	NE		IRR	2.0
					Section Acres		14.0
17N	19E	31	NW	SE		IRR	3.0
			SW	SE		IRR	15.0
			SE	SE		IRR	8.0
					Section Acres		26.0
					Total Acres		40.0

11. Place of use in counties: CUSTER

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
A72-00164, A72-04184, A72-10243

14. Remarks:
P. U. IS H. E. S. #614, 53.15 AC., WITHIN ABOVE LANDS.
SOURCE GIVEN INCORRECTLY IN DECREE AS ALDER CREEK.
P/D GIVEN INCORRECTLY IN DECREE AS NENW S18 T17N R19E.

15. Basis of Claim: DECREED
Case Number:
Court :
Decree date: 5/02/1935

IVAN HUGHES ET AL
Decree Plaintiff

VAL JONES ET AL
Decree Defendant

vs

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 Organizations:

I do solemnly swear or affirm that I am member of _____ Title

Morgan Creek Cattle Assn., that I have signed the foregoing Organization

document in the space below as member of Title

Morgan Creek Cattle Assn. and that the statements contained in the Organization
foregoing document are true and correct.

Robert M. Hughes
Signature of Authorized Agent

member of Morgan Creek Cattle Assn.
Title and Organization

Dec 7, 1989
Date

State of Idaho)
County of Custer) SS.

Subscribed and sworn (or affirmed) before me this 7th day

of December 19 89

Stuart C. [Signature]
Notary Public

Seal

Residing at Iwin Falls, Idaho

My Commission Expires December 7, 1994

NAME: MORGAN C. CATTLE ASS.

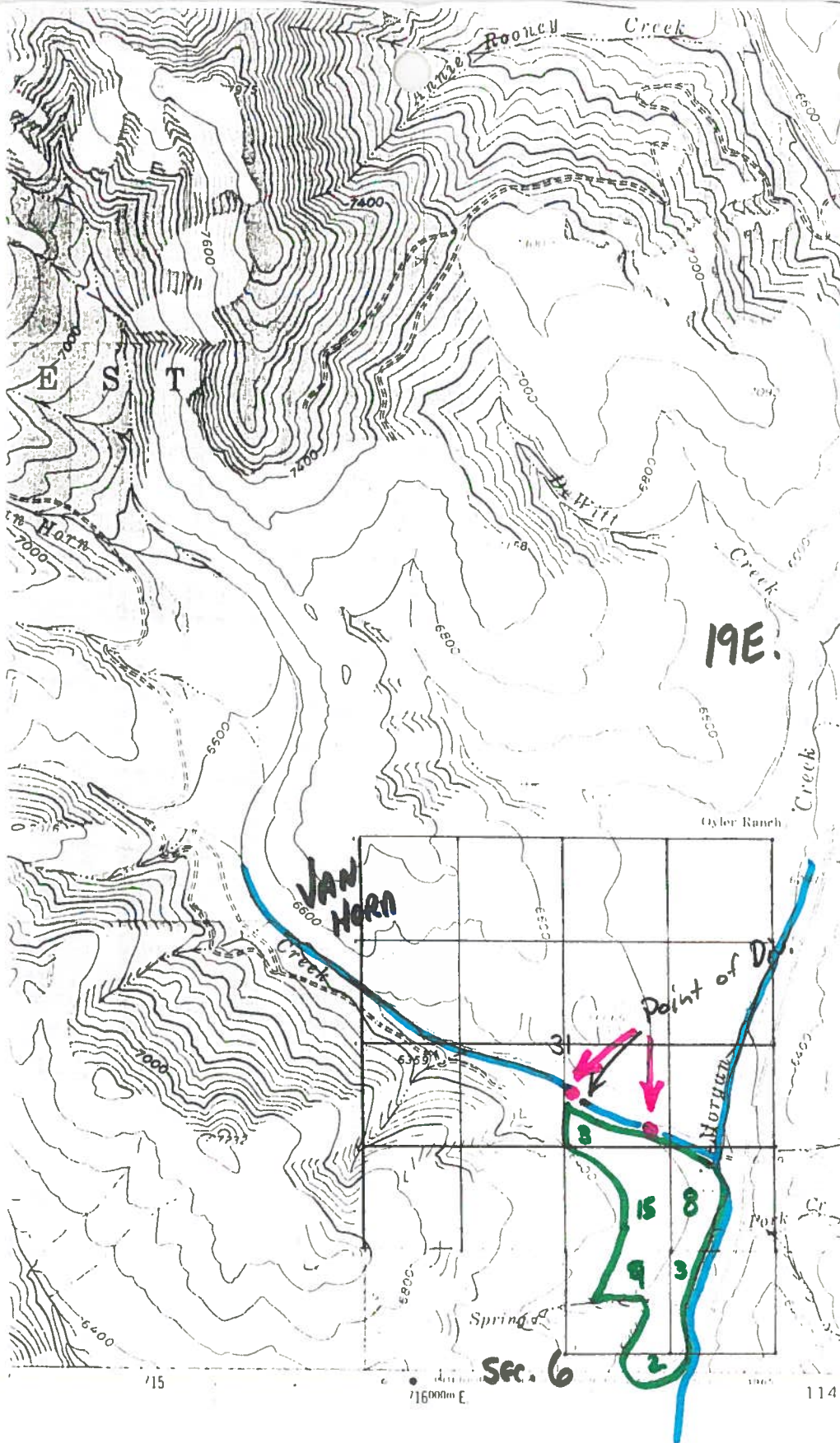
CLAIM: 72-00163

CORRESPONDENCE



EVIDENCE OF

PRIORITY



47°30"

4963

4962

4961

4960

17N.

16N.

4959000m N

44°45'

114°15'

CHALLIS 162-500

ROAD CLASSIFICATION

Light duty

Unimproved dirt

A72-00163

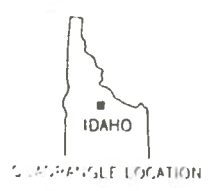
MICROFILMED

MAR 18 1993

15-74

BLACK MTN., IDAHO
N4445—W11415/7.5

1963



November 20, 1998

**NOTICE OF ERROR
REPLY**

Please type or print clearly, fill out this form completely and mail.

Return this reply form to IDWR by the deadline date printed below if you want IDWR to change your recommendation or you want to let IDWR know that you agree with its recommendation.
YOUR DEADLINE FOR RETURNING A NOTICE OF ERROR REPLY IS: December 18, 1998

Water right number: 72-00163

MORGAN CREEK CATTLE ASSOCIATION
DELBERT HUGHES
HC 61 BOX 3054
CHALLIS ID 83226

Daytime Telephone Number:

Evening Telephone Number:

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):

2. Describe the changes you wish to make in the proposed recommendation:

3. Give a brief explanation as to why you disagree with these portions:

☒ I AGREE with this proposed recommendation; no changes need to be made.

DATE: 12/9/98 SIGNATURE: Delbert Hughes
Please print your name: Delbert Hughes

IDWR Southern Regional Office, 1341 Fillmore Street, Suite 200, Twin Falls, ID 83301-3380, (208) 736-3033

AJ5808NP
(OD-26)

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIMS PROOF READING REPORT

11/03/98 14:01:30
Page 1

Water Right Number - R72-00163

Prefix Translation: RESEARCH

Old (D) Number -

+ - - - - Last Name - - - - + + - First Name - - + + - - - - - Address - - - - - +

*** C - CURRENT OWNER ***
MORGAN CREEK CATTLE ASSOCIATION

1 - DELBERT HUGHES
2 - HC 61 BOX 3054
3 -
City- CHALLIS
Phone - 208-879-2365

VERIFIED BY KKC
11-6-98

State- ID Zip- 83226

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
05/01/1912 17 SOUTHERN D - DECREED

+ - - - - Source - - - - + + - - - - - Tributary - - - - - +
VAN HORN CREEK MORGAN CREEK

+ - - - - Point of Diversion - - - - - +
TwN Rng Sec Tract Lot RFlg County Diversion Name
17N 19E 31 SW NW SE 65, 10 (37) CUSTER
SE NW SE 71 (37) CUSTER

+ - - - - Water Use - - - - - +
Code Description Period From Period To Diversion Rate Diversion Volume
01 - IRRIGATION 04/15 10/15 0.800

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Div. Capacity - + + - Total Consumptive Use - + + - KW Usage - +
0.800 0.0

+ - - - - Place of Use - - - - - +
TwN Rng Sec Tract Lot Acres Code Description County
16N 19E 6 NE NE 8.4 01 IRRIGATION (37) CUSTER
16N 19E 6 NW NE 4.3 01 IRRIGATION (37) CUSTER
16N 19E 6 SW NE 3.0 01 IRRIGATION (37) CUSTER
16N 19E 6 NE SE 0.7 01 IRRIGATION (37) CUSTER
17N 19E 31 NW SE 0.7 01 IRRIGATION (37) CUSTER
17N 19E 31 SW SE 1.5 01 IRRIGATION (37) CUSTER
17N 19E 31 SE SE 10.0 01 IRRIGATION (37) CUSTER
Total Acres: 65 156 28.6

+ - - Diversion Means - PLASTIC DAM TO EARTH DITCH TO P/U FOR FLOOD IRRIGATION

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - 72-00164, & 72-10243

+ - - - - Remarks - - - - - +

QNT USE OF THE RIGHTS LISTED BELOW IS LIMITED TO A TOTAL COMBINED
DIVERSION RATE OF 2.67 CFS. COMBINED RIGHT NOS. 72-00163,
72-00164, & 72-10234.

Water right number - R72-00163

Prefix Translation: RESEARCH

----- Remarks -----
POU1 USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION
OF A COMBINED TOTAL OF 28.6 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS. 72-00163, 72-00164, & 72-10234.

GEN PROPERTY IS ALSO KNOWN AS HOMESTEAD ENTRY NO. 614.

EXP THE FOLLOWING RIGHTS ARE DIVERTED THROUGH THE POINTS OF
DIVERSION DESCRIBED ABOVE: 72-00163, 72-00164 & 72-10234.

----- Old Water Right Numbers -----
No Old Water Right Numbers found.

----- Conditions of Approval -----
C02 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN SOURCE PURSUANT TO
- SECTION 42-1425, IDAHO CODE.
C03 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN POINT OF DIVERSION
- PURSUANT TO SECTION 42-1425, IDAHO CODE.

----- Decree Plaintiff -----
IVAN HUGHES ET AL

----- Decree Defendant -----
VAL JONES ET AL

----- Decree Date -----
05/02/1935

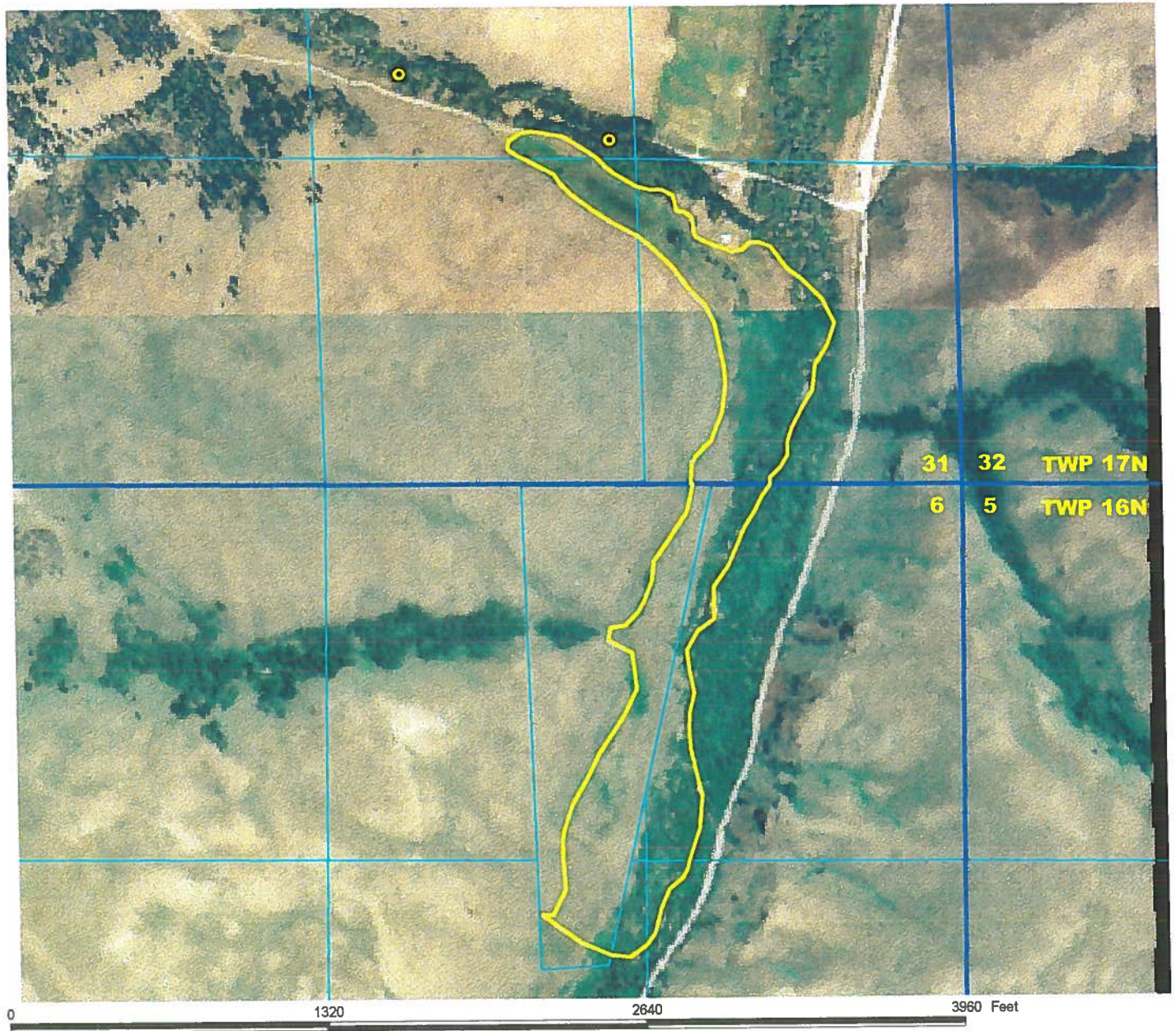
----- Audit Fields ----- 11/13/92 CLELLAND 12/15/93 CHRISTEN 12/16/93 CHRISTEN 03/30/95 POST-STD 10/08/98 KCHRISTE

----- Comments -----
Date: 12/15/1993 User Id: CHRISTEN Subject: COPIED FROM REMARKS
P. U. IS H. E. S. #614, 53.15 AC., WITHIN ABOVE LANDS. SOURCE GIVEN INCORRECTLY IN DECREE AS ALDER CREEK.
P/D GIVEN INCORRECTLY IN DECREE AS NENW S18 T17N R19E.

----- Adjudication Rights Dates and Flags Area -----

Court Report Filing	- 00/00/0000	Field Inspection Made	- 08/18/1993	Civil Case Number	- 39576
Objection Filed Date	- 00/00/0000	Field Inspection Flag	-	Old Case Number	-
Response Filed Date	- 00/00/0000	Verified Date	- 00/00/0000	Old Judicial District	-
Claim Received Date	- 12/07/1989	Last Amended Date	- 00/00/0000	Temporary Right	- P
Proof Due Date	- 00/00/0000	Proof Made Date	- 00/00/0000	Water District	- 72F
Licensed Date	- 00/00/0000	Receipt Number	- M005336	Federal/State Indicator	- S
		POU Ownership Flag	- Y	Presumption Flag	- C
		Name Connector	-	Notice of Error Flag	-

**72-00163, 72-00164, & 72-10243
VAN HORN CREEK
MORGAN CREEK CATTLE ASSOC.**



**RECOMMENDED PLACE OF USE
TWP 16N RNG 19E, SEC 6
TWP 17N RNG 18E, SEC 31
data entry on October 8, 1998**



- RECOMMENDED POINT OF DIVERSION**
- RECOMMENDED PLACE OF USE**
- SECTION LINES**
- QUARTER/QUARTER LINES**

**GIS PLACE OF USE PRESENTATION
1992 USDA-F AERIAL PHOTOGRAPHY
DATA ENTRY BY KELLY K CHRISTENSEN**

IM NUMBER72-0016372-014DATE10-8-98TRANSFER NUMBER
72-10243AGENTKKCCLAIMED ACRE TOTAL40
GIS ACRE TOTAL28.6

	TWP	RNG	SEC	NE				NW				SW				SE				
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
AIM	16N	19E	6	3	9	2													14	
IS				8.4	4.3	3	.7													
COM				8.4	4.3	3	.7												16.	
AIM	17N	19E	31														3	15	8	26
IS																	.7	1.5	10.3	
COM																	.7	1.5	10	12.2
AIM																				
IS																				
COM																				
AIM																				
IS																				
COM																				

2-DBPOU.SHP
LAPE NOS.
156
2-DBPOD.SHP
DS. DESCRIPTION
70 Sec 31
SWNWSE
71 Sec 31
SENWSE
3F TABLES UPDATED
72-DBPOU.DBF
72-DBPOD.DBF

Claimed
72-00163 - .80 cfs
72-00164 - .20 cfs
72-10243 - 1.75 cfs
2.75 cfs

Soil
2.67 cfs
2.67
- 1.00
1.67 cfs for
A72-10243

Meas.
3.19 cfs

LIMIT

REEVALUATION OF IRRIGATION RATES BASED UPON 1997 REVISED HUBBLE ANALYSIS PROCEDURES

CLAIM NUMBERS

72-00163 72-00164
72-10243

DATE: 10-8, 1998

REVIEWED BY KKC

CHALLIS AREA SOIL REVIEW

SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION		SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION	
	PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA		PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA
ATC	.15	.13			6.49	7.62	PD2	.11	.12			5.15	4.74
BB1	.09	.09			6.09	6.17	Q	.26	.21			13.2	10.4
BC1	.16	.17			5.82	5.46	RE2	.29	.21			3.15	4.74
BK1	.07	.06			10.62	11.86	RP1	.19	.21			4.89	4.57
BT1	.18	.16			3.99	4.19	SH1	.06	.05			9.37	12.10
BT2	.41	.32			2.34	2.87	SOC	.08	.07			7.38	8.08
CB1	.06	.06			11.55	13.47	SSA	.15	.14			4.79	5.01
CHA	.21	.21			4.52	4.76	SXF	.12	.11			6.14	6.80
CP1	.36	.36			2.61	2.78	TC1	.06	.06			9.82	9.55
DB1	.13	.11			5.66	6.65	TD1	.04	.03			12.46	16.50
DBB	.13	.11			5.71	6.69	WB2	.13	.13			5.37	5.43
DBC	.13	.11			5.71	6.69	WAA	.19	.16			3.81	4.23
DMF	.18	.21			5.12	4.72	WBB	.17	.14			3.36	3.84
DRF	.18	.19			9.08	9.68	WC1	.07	.06			11.24	13.45
DT2	.05	.04			12.46	16.50	WPT	.19	.15			3.16	3.69
DWA	.14	.14			4.79	5.01	WV1	.07	.06			11.24	13.45
G01	.10	.12			12.47	10.51	XHS						
KEG	.08	.07			8.73	10.06	YN1	.18	.14			5.38	6.92
MBF	.15	.12			7.65	5.81							
MUG	.15	.14			4.54	4.98							
NDL	.13	.12			5.30	6.06							

The rate per acre calculations are based upon a 300 foot run at a 2% slope. An 8 hour set time was also used. Individual graded border evaluations, soil characteristics work sheets, and peak irrigation diversion requirement work sheets have been created and archived separately for each soil type.

Where actual rotation is shorter than the optimal rotation, optimal rotation is the criteria to be used for the recommendation analysis and, therefore, the rotation percentage adjustment is not necessary. The rate becomes the acres per soil type times the rate per acre from the above chart.

SOIL TYPE	OPTIMAL ROTATION / (chart)	ACTUAL ROTATION / (field)	ACRES PER SOIL TYPE (field)	RATE PER ACRE (chart)	TOTAL DIVERSION RATE
BC1	5.82	10	28.6	.16	2.67 CFS
					CFS
					CFS
					CFS

TOTAL ACRES _____

DECREED RATE = _____

CLAIMED DIVERSION RATE = _____

MEASURED DIVERSION RATE = _____

R PROOF



CVR



MAPS



PHOTOS



MISC



Water Right Number - R72-00163

Prefix Translation: RESEARCH

Old (D) Number -

*** C - CURRENT OWNER ***
MORGAN CREEK CATTLE ASSOCIATION1 - DELBERT HUGHES
2 - HC 61 BOX 3054
3 -
City- CHALLIS
Phone - 208-879-2365

State- ID Zip- 83226

VERIFIED BY KRC
PROFESSIONAL RECORDS & RESEARCH, INC.+ - - Priority Date - - - +
05/01/1912 17 SOUTHERN+ - - Stage - - - +
D - DECREED

+ - - Status - - - +

+ - - Source - - - +
VAN HORN CREEK+ - - Tributary - - - +
MORGAN CREEK+ - - Point of Diversion - - - +
Twn Rng Sec Tract Lot Rflg County17N 19E 31 SW NW SE (37) CUSTER
SE NW SE (37) CUSTER

+ - - Code Description Period From Period To Water Use Diversion Rate Diversion Volume

01 - IRRIGATION

06/15 10/15

0.800

+ - Total Div. Rate - + - Total Div. Volume - +
0.800+ - Total Consumptive Use - + - KW Usage - +
0.0

Twn	Rng	Sec	Tract	Lot	Acres	Place of Use Code	Description	County
16N	19E	6				01	IRRIGATION	(37) CUSTER
16N	19E	6			13.5	01	IRRIGATION	(37) CUSTER
16N	19E	6			1.0	01	IRRIGATION	(37) CUSTER
16N	19E	6			3.0	01	IRRIGATION	(37) CUSTER
17N	19E	31			2.0	01	IRRIGATION	(37) CUSTER
17N	19E	31			9.5	01	IRRIGATION	(37) CUSTER

Total Acres: 29.0

+ - - Diversion Means - PLASTIC DAM TO EARTH DITCH TO P/U FOR FLOOD IRRIGATION

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - 72-00164, & 72-10243

+ - - Remarks

USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO A
TOTAL COMBINED DIVERSION RATE OF 2.75 CFS, A TOTAL COMBINED
ANNUAL CONSUMPTIVE USE VOLUME OF 72.5 AF, AND TO THE IRRIGATIONMICROFILMED
NOV 01 1994

Water right number - R72-00163

Prefix Translation: RESEARCH

Remarks - - - - -

OF A COMBINED TOTAL OF 29 ACRES IN A SINGLE IRRIGATION SEASON.

COMBINED RIGHT NOS. 72-00164, & 72-10243.

PROPERTY IS ALSO KNOWN AS HOMESTEAD ENTRY NO. 614.

F06 added 12-16-98 KKC

- - - - - Old Water Right Numbers - - - - -

No Old Water Right Numbers Found

- - - - - Conditions of Approval - - - - -

C02 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN SOURCE PURSUANT TO IDAHO
- CODE 42-1416A.

C03 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN POINT OF DIVERSION
- PURSUANT TO IDAHO CODE 42-1416A.

+ - - - - Decree Plaintiff - - - +

IVAN HUGHES ET AL

+ - - - - Decree Defendant - - - +

VAL JONES ET AL

+ - - Decree Date - +

05/02/1935

+ - - - - Comments - - - - -

Date: 12/15/1993 User Id: CHRISTEN Subject: COPIED FROM REMARKS
P. U. IS H. E. S. #614, 53.15 AC., WITHIN ABOVE LANDS. SOURCE GIVEN INCORRECTLY IN DECREE AS ALDER CREEK.
P/D GIVEN INCORRECTLY IN DECREE AS NEW S18 T17N R19E.

+ - - Audit Fields - - - +

12/15/93 CHRISTEN

+ - - - - Adjudication Rights Dates and Flags Area - - - - -

Court Report Filing	Field Inspection Made	Civil Case Number	39576
Objection Filed Date - 00/00/0000	Field Inspection Flag	Old Case Number	-
Response Filed Date - 00/00/0000	Verified Date	Old Judicial District	-
Claim Received Date - 12/07/1989	Last Amended Date	Temporary Right	- P
	Receipt Number	Water District	- 72F
	POU Ownership Flag	Federal/State Indicator	- S
	Name Connector	Presumption Flag	- C
		Notice of Error Flag	-

MICROFILMED

NOV 01 1994

WAR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE								
POINT OF DIV	Y		8-16-93 9-1 KKC 8-16-93 9-22-93 9-1-93 KKC	N	1,2,5,6 1,2,5,6	12-15-93 KKC		
SOURCE			"		"	"		
PLACE OF USE	Y		"	Y	"	"		
DIV. AMOUNT CFS/VOLUME	Y		"	N	"	"		
CONSUMPTIVE USE			"	Y	"	"		
PURPOSES			"	N	"	"		
PERIOD OF USE	Y		"	Y	6	"		
BASIS OF CLAIM			"	N	"	"		
REMARKS	Y		"	Y	"	"		

VERIFIED BY CODES

TOPO MAP/OKTHD-PQ = 1
 ASCS MAP = 2
 WATERMASTER RECORDS = 3
 NAPP PHOTOS = 4
 FIELD EXAM = 5
 OTHER (SEE REMARKS) = 6

12-10-92
SW

THESE CODES ARE USED TO INDICATE HOW THE FIELD EXAMINER VERIFIED THE INFORMATION
USED FOR THIS FIELD EXAMINATION. INDICATED ARE ALL CODES WHICH APPLY.

MICROFILMED
NOV 01 1994

DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

05/30/92

PAGE: 1
GENERAL INFORMATION

CLAIM NUMBER: A72-00163

LAST: MORGAN CREEK CATTLE ASSOCIATION
ADDRESS: C/O DELBERT HUGHES
HC 61 BOX 3054

FIRST:

CITY: CHALLIS
PHONE NUMBER: 208-879-2365

STATE: ID ZIP: 83226

OWNER CODE: C

FIELD EXAM REQUIRED?

DATABASE
Y

FIELD
EXAMINER

VERIFICATION REQUIRED DUE TO REMARKS?

CLAIM REMARKS:

P. U. IS H. E. S. #614, 53.15 AC. WITHIN ABOVE LANDS.
SOURCE GIVEN INCORRECTLY IN DECREE AS ALDER CREEK.
P/D GIVEN INCORRECTLY IN DECREE AS NENW 518 117N R19E.

FIELD EXAMINATION INFORMATION

CONTACT PERSON:

Delbert Hughes

PHONE NUMBER: () - - - -

DATE OF FIELD EXAM: 8/18/93

APPOINTMENT MADE: Y () N ()

TIME: : A () P ()

ACCOMPANIED BY: 9-1-93

PHONE NUMBER: () - - - -

RELATIONSHIP TO CLAIMANT:

member of M.C. Cattle Assoc

DIRECTIONS TO PROPERTY / REMARKS:

MICROFILMED

NOV 01 1994

A. AJ CLAIM: # A72-00163 PRIORITY DATE: 05-01-1912

STAGE: D

B. WR RECORD: # 72-00163 PRIORITY DATE: 05-01-1912

STAGE: D

C. FIELD EXAM REQUIRED?

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

DATABASE N

FIELD EXAMINER *N*

ARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? () (X)

IF YES EXPLAIN.

REMARKS:

Claimed priority date matches deved date and "u" file also Deved Pz therefore Accept Priority date as claimed

RECOMMENDED PRIORITY DATE:

05-01-1912

OK as claimed KHC

REVIEWED BY

DATE

12-15-93

MICROFILMED
NOV 01 1994

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A72-00163	17N	19E	31	~~SW~~	NW	SE		CUSTER
A72-00163	17N	19E	31	SW	NW	SE	OK	CUSTER

OTHER AJ CLAIMS WITH SAME AJ POD
 A PREFIX R PREFIX
 A72-00164
 A72-04184
 A72-10243

WR RECORDS IN SAME 40 ACRE TRACT
 72-04184

SOURCE: VAN HORN CREEK

TRIB: MORGAN CREEK

WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
72-00163	17N	19E	31		SW	SE		CUSTER

OTHER WR RECORDS WITH SAME WR POD
 AJ CLAIMS IN SAME 40 ACRE TRACT
 A PREFIX R PREFIX
 72-00164
 NONE NONE

SOURCE: VAN HORN CREEK

TRIB: MORGAN CREEK

C. FIELD EXAM REQUIRED?

DOE TO POD DISCREPANCY?	(Y/N)	DATABASE	FIELD EXAMINER
DOE TO SOURCE DISCREPANCY?	(Y/N)	N	4

MARKS:

found one P/O as claimed. Found the second P/O in the same Q but in the SW 10 Acre tract rather than the NW tract.

Deer incorrectly showed the Source as Alder Cr. Recommend the actual Source as Van Horn Creek. The deed needs cond code C#2 legal dec. also needs cond code C#3

RECORDED

NOV 11 1994

C#3

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:
TWP. RGE. SEC.

1/4 1/4

COUNTY

Change as indicated by DT

SOURCE: VAN HORN CREEK

TRIB: MORGAN CREEK

REVIEWED BY:

KRC

DATE: 12-15-93

MICROFILMED

NOV 01 1994

A. ROOT WATER RIGHT NUMBERS: A72-00163

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES
16N	19E	6	NE	NE	1	MORGAN CREEK CATTLE ASSOCIATION A72-00163	3.0	3.0	72-04184	3.0	13.5
			NE	NE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	3.0	-	-	-	13.5
			NE	NE		MORGAN CREEK CATTLE ASSOCIATION A72-10243	3.0	-	-	-	
16N	19E	6	NW	NE	2	MORGAN CREEK CATTLE ASSOCIATION A72-00163	9.0	72-00163	7	4.0	0
			NW	NE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	9.0	72-04184	7	-	0
			NW	NE		MORGAN CREEK CATTLE ASSOCIATION A72-10243	9.0	-	-	-	0
17N	19E	6	SW	NE		MORGAN CREEK CATTLE ASSOCIATION A72-00163	2.0	72-00163	7	-	1
			SW	NE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	2.0	72-00164	7	2.0	-
			SW	NE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	2.0	72-04184	7	-	1
17N	19E	31	NW	SE		MORGAN CREEK CATTLE ASSOCIATION A72-00163	3.0	-	-	-	10.0
			NW	SE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	3.0	72-04184	7	4.0	0
			NW	SE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	3.0	-	-	-	0
17N	19E	31	SW	SE		MORGAN CREEK CATTLE ASSOCIATION A72-00163	15.0	72-00163	7	2.0	2
			SW	SE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	15.0	72-00164	7	-	2
			SW	SE		MORGAN CREEK CATTLE ASSOCIATION A72-10243	15.0	-	-	-	
17N	19E	31	SE	SE		MORGAN CREEK CATTLE ASSOCIATION A72-00163	8.0	-	-	-	5.0
			SE	SE		MORGAN CREEK CATTLE ASSOCIATION A72-04184	8.0	72-04184	7	8.0	9.5
			SE	SE		MORGAN CREEK CATTLE ASSOCIATION A72-00164	8.0	-	-	-	9.5
			SE	SE		MORGAN CREEK CATTLE ASSOCIATION A72-10243	8.0	-	-	-	
			SE	SE		TURNER, EST. OF GEORGE M.	-	72-00171	7	-	
			SE	SE		TURNER, EST. OF GEORGE M.	-	72-00172	7	-	
			SE	SE		TURNER, EST. OF GEORGE M.	-	72-00173	7	-	
			SE	SE		TURNER, EST. OF GEORGE M.	-	72-00174	7	-	

TOTAL ACRES A72-00163

40.00

17.00

ARE IRRIGATED ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, Y () N ()

IF YES SEE ATTACHED SHEET:

C. FIELD EXAM REQUIRED?

DUE TO POU DISCREPANCY? (Y/N)

DATABASE

FIELD EXAMINER

POU COUNTY: CUSTER

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PRESUMPTION FLAG: D

REMARKS:

I recommend abutting the P/U based upon current aerial photography. I also found fewer acres being irrigated than claimed. The south tip of was irrigated at one time but has been abandoned. The ground is now saguaro domination. South of an unnamed draw that enters the P/U from the west in the N 1/2 NE 1/4 of Sec 6. I also received minimal irrigation and is standing so sage brush but is included in the recommended area. See the attached narrative

RECOMMENDATIONS:

TOTAL ACRES:

29

REVIEWED BY:

KKC

DATE:

12-15-93

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NOV 01 1994

A. AS CLAIMED USES:

PURPOSES
A72-00163 IRRIGATIONMONTH/DAY
FROM 04-01 TO 10-01
TOTAL DIVERSION RATE/VOLUME CLAIMEDRecom: standard
Sept 15-16-17DIVERSION QUANTITY
800 CFS
800 CFS

B. WR RECORDED USES:

PURPOSES
72-00163 IRRIGATIONMONTH/DAY
FROM TO
TOTAL DIVERSION RATE/VOLUME CLAIMEDDIVERSION QUANTITY
800 CFS
800 CFS

C. ASSUMPTION FLAG:

C. FIELD EXAM REQUIRED?

DUE TO WATER-USE DISCREPANCY? (Y/N)
DUE TO DIVERSION RATE DISCREPANCY? (Y/N)
DUE TO PERIOD FROM/TO DISCREPANCY? (Y/N)DATE BASE EXAMINER
N
N
Ynot an expansion of the original
use C to flag changes of 1/2 legal.

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?
RECOMMEND TO WR STANDARDS OR OTHER?Y() N()
Y() N()

Explain in remarks, below.

REMARKS:

claimed rate matches desired rate
system requires exception rate (see Attachment)
therefore I recommend rate as claimed.

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NOV 01 1984

Y(☒) N(☐)

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

AJ TOTAL CLAIMED DIVERSION RATE: 0.800 CES
WR ROOT TOTAL DIVERSION RATE: 0.800 CES

*** IF NO OR IF STATUTORY CLAIM OR BENEFICIAL USE THEN FLOW MEASUREMENT REQUIRED. ***
** If an amount smaller than the original diversion rate is **
** claimed and an exam is NOT required, explain in remarks. **

FLOW MEASUREMENT REQUIRED?

DUE TO STAGE OR DIVERSION RATE DISCREPANCY? (Y/N)

FIELD EXAMINER
Y ☒ ~~N~~

MEASUREMENT METHOD

See Attached

SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED? Y(☒) N(☐) IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: A72-00164, A72-04184, A72-10243

LIST ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE:

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
A72-00163	VAN HORN CREEK	MORGAN CREEK CATTLE ASSOCIATIO	0.800	0.020		
A72-00164	VAN HORN CREEK	MORGAN CREEK CATTLE ASSOCIATIO	0.200	0.005		
A72-04184	VAN HORN CREEK	MORGAN CREEK CATTLE ASSOCIATIO	1.000	0.050		
A72-10243	VAN HORN CREEK	MORGAN CREEK CATTLE ASSOCIATIO	0.800	0.020		

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

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RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE
ACRES 29 * 0.02 CFS/ACRE = 58 CFS
(Taken from p/u review)

DIGES AMOUNT CLAIMED EXCEED 0.02 CFS/ACRE? Y(☒) N(☐)

*** IF YES ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y(☒) N(☐) ***

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = 100.0 AE/A
ACRES * CONSUMPTIVE VOL. AE/A FOR AREA =

TOTAL CONSUMPTIVE USE AE/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = AE/A

ACRES * DIVERSION VOL. AE/A FOR AREA

TOTAL DIVERSION VOLUME AE/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y(☐) N(☐)

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.)

*OBM 6
sup 6m
has been
reduced.*

1b. CALCULATIONS

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RECOMMENDATIONS:

REC.
PURPOSES

REC. PERIOD
FROM TO

REC. DIV
RATE CFS

REC. DIV
VOL. AF/A

REC. CONS.
USE

IRRIGATION

04-~~01~~
15 11-~~01~~
15

DATABASE EXAMINER
0.800 ~~OK~~

DATABASE EXAMINER

DATABASE EXAMINER
100.0

TOTAL FOR THIS RIGHT

0.800

100.0

REVIEWED BY:

KKC

DATE:

12-15-93

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A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FOREFEIT/ABANDON
ADDITIONAL DIV. AMOUNT

ACCEPTED
AS CLAIMED
()
()
()
NEEDS
REVIEW
()
()
()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 72-00163
TOTAL DIVERSION RATE OF WR SPLITS

~~0.800~~
0.800

EXAMINER

CFS

SPLITS:

OLD RIGHT
NUMBERS

CURRENT
CLAIM NUMBERS

DIVERSION
RATE

CURRENT "R"
CLAIM NUM.

"R" DIV.
RATE

WR RIGHT
NUMBERS

DIVERSION
RATE

- A72-00163

0.800

-

72-00163

0.800

TOTAL CFS

0.800

0.800

DIVERSION RATE REVIEW

DO THE SUM CFS RATE OF THE SPLITS EQUAL THE ROOT RIGHT CFS RATE? (Y/N)
IF NO, is the written review sheet attached? (Y/N)

DATABASE
Y

FIELD
EXAMINER

REMARKS:

AUTHENTICATION:
SIGNATURE:

Ruby J. Christman

DATE: 12-15-93

NAME OF FIELD EXAMINER:

TITLE: *State Resource Agent*

PHOTO ORIGINAL

14601

KD#1 P/D

End of
upper dike
(from P/D #1)

DITCH FROM
P/D #2



CLAIM A72-0063164 INIT KRC
T. R. S. 0/0
P/Ds 17N 19E 31 35 AWSE
PHOTO ASC5 2-5
DT. & ID. 1968 EMglt

SCALE: 1" = 660'

CA = $(660)^2 \cdot .009699 = .09699$
43,560

MICROFILM
NOV 01 1967

3, & 00164
N; 8-18-93

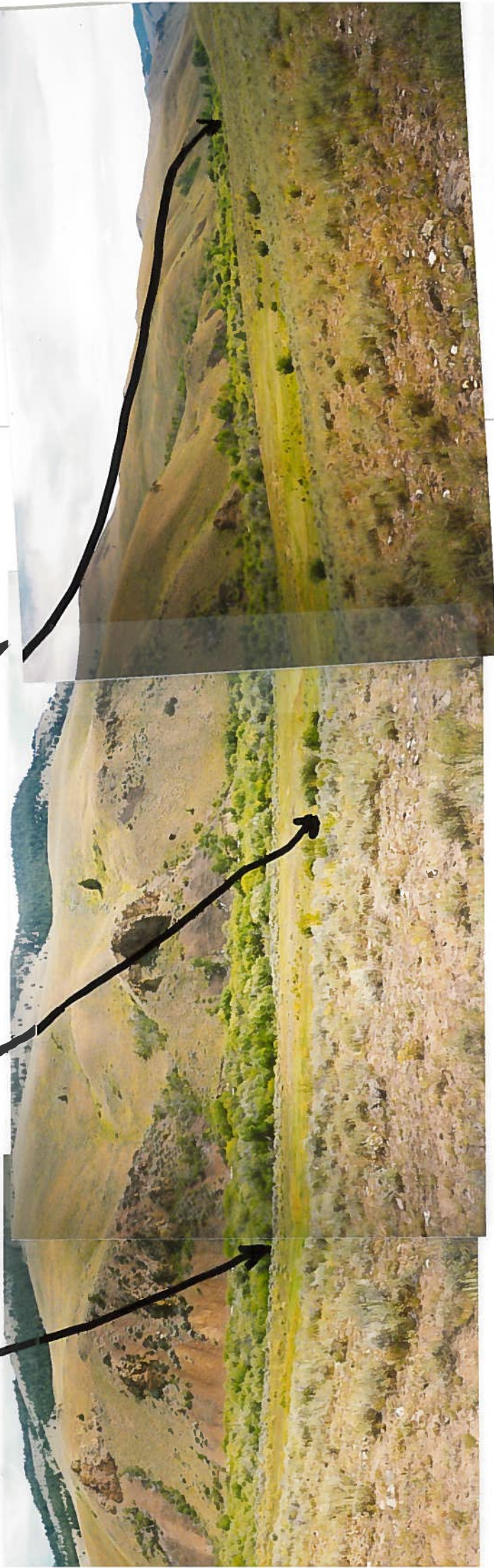
set was taken approximately 200 yards southeast from the picture location #1 and is looking east on the left east southeast on the right.

MORGAN CREEK

MIDDLE DITCH

END OF PROPERTY

POOR ORIGINAL



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NOV 01 1994

8-00164
8-18-93

POOR ORIGINAL

set covers the northwest and north portion of the P/U for these claims. The ditch is out of the picture area to the left. The P/D for the lower ditch is of the trees in the center. The trees running from left to right follow th Morgan Creek following the valley through the central portion of this are looking northwest on the left to northeast on the right.

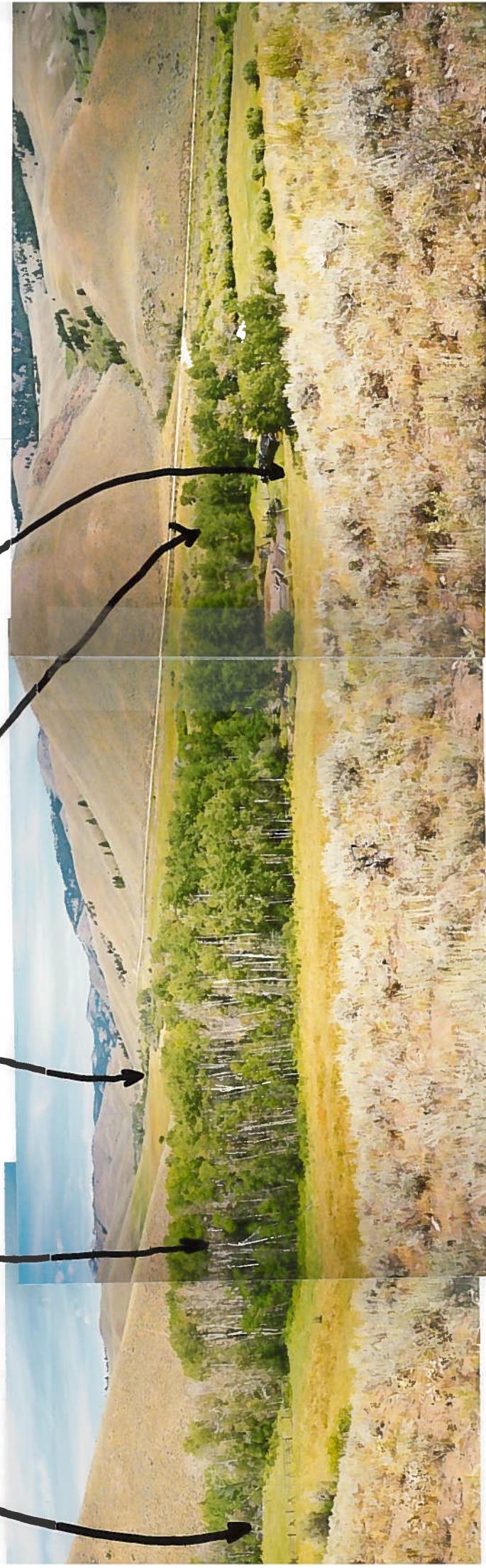
VAN HORN
CREEK

LOWER DITCH
P/D

MORGAN CREEK

END OF P/U
FOR VERL JONES

LOWER
DITCH



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NOV 01 1994
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NOV 01 1994

NOV 01 1994

CLAIM # A72-00163, & 00164
DATE PHOTOS TAKEN; 8-18-93
PICTURE SET # 3

POOF ORIGINAL

This photo is looking south toward the end of the property and was taken from within the sage brush area of the P/U and shows the lower ditch running above the sage brush area.

LOWER DITCH

END OF PROPERTY



PICTURE # 4

This photo was taken from the same spot but is looking north. This shows the end of the sage brush area.

LOWER DITCH

PORK CREEK

MORGAN CREEK



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NOV 01 1994

CLAIM # A72-00163, 00164, 10243
DATE PHOTOS TAKEN; 8-18-93
PICTURE SET # 5

This photo set was taken just south of the end of the 'upper' ditch and is looking northeast.

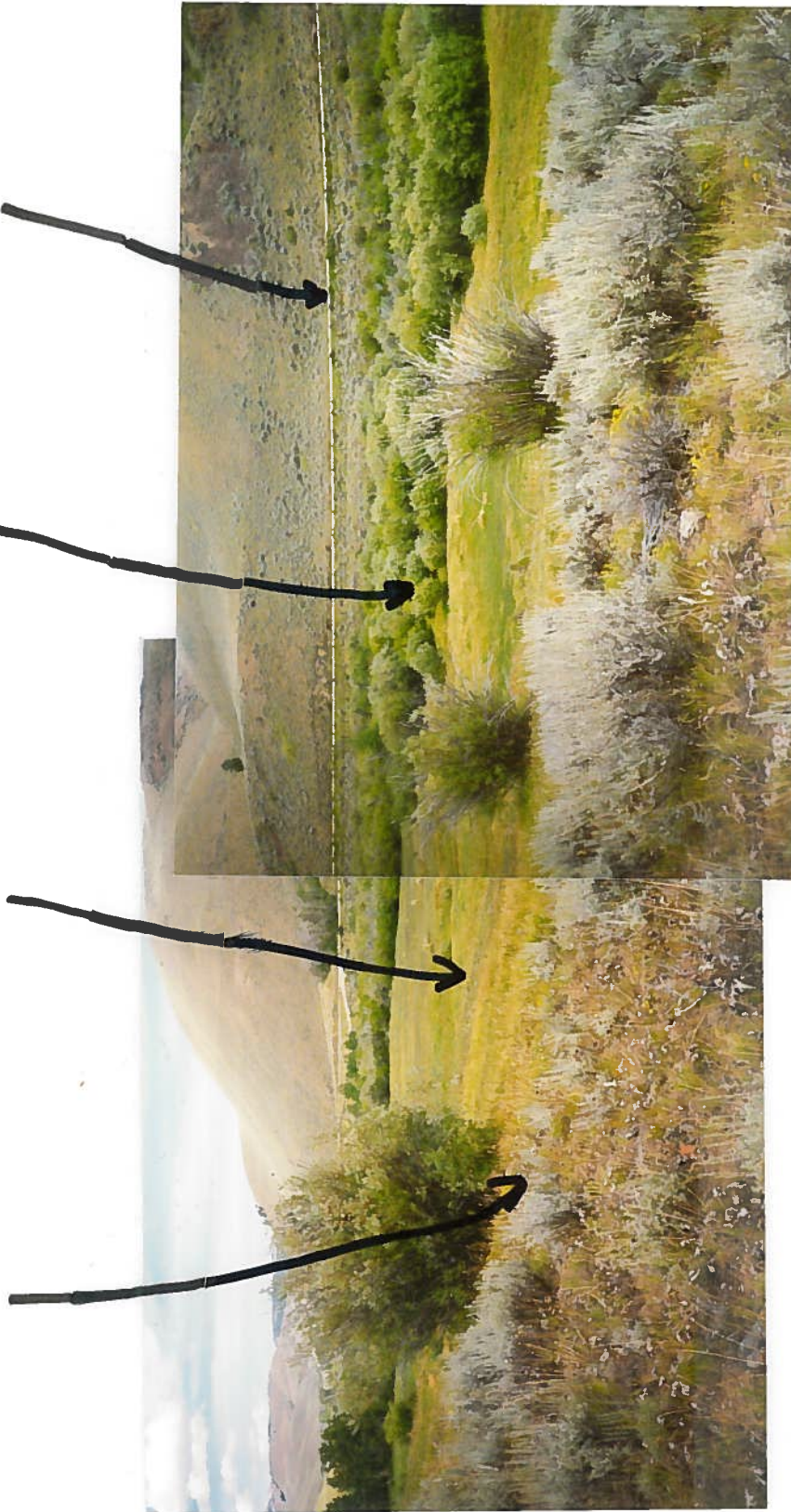
FOR ORIGINAL

END OF UPPER DITCH

LOWER DITCH

MORGAN CREEK

MORGAN CREEK ROAD



MICROFILMED
NOV 01 1994

CLAIM # A72-00163, 00164, & 10243
DATE PHOTO TAKEN; 8-18-93
PICTURE # 6

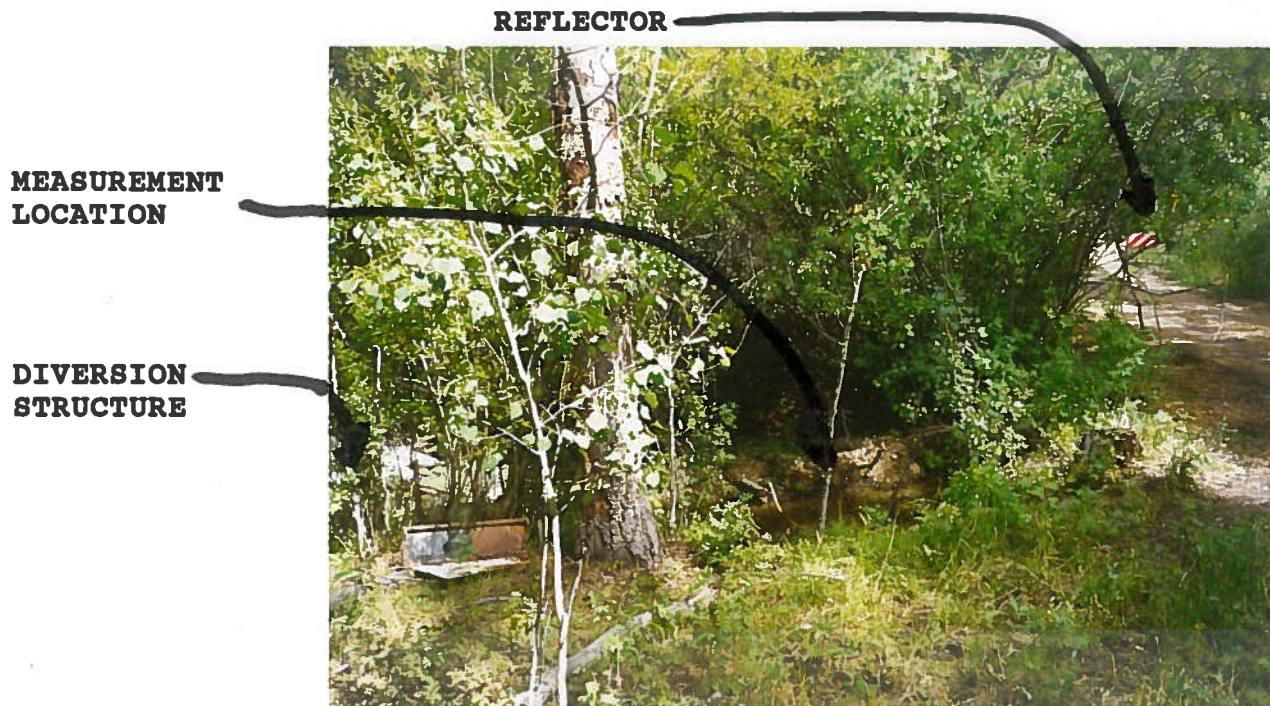
This photo was taken of the 'lower' ditch and shows the ditch at capacity at this location which is south of the end of the 'upper' ditch. The 'upper' ditch was dry on this date. You are looking north northeast from this point.

POOR ORIGINAL



PICTURE # 7

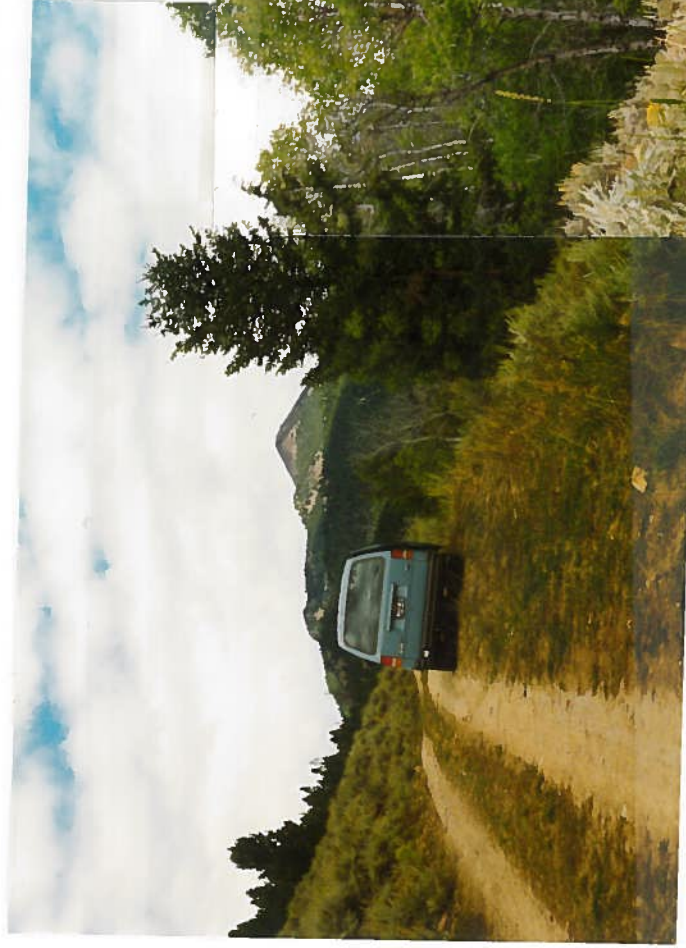
This picture shows the 'lower' diversion point and the measurement location. You are looking east down Van Horn creek road. Note the reflector on the Forest Service gate.



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NOV 01 1994

CLAIM # A72-00163, 00164, 10243
DATE PHOTOS TAKEN; 9-1-93
PICTURE SET # 1

This photo set was taken from the Van Horn Road and is looking west northwest. The western most P/D is within the trees on the right. This was taken to just give a general P/D location.



POOR ORIGINAL



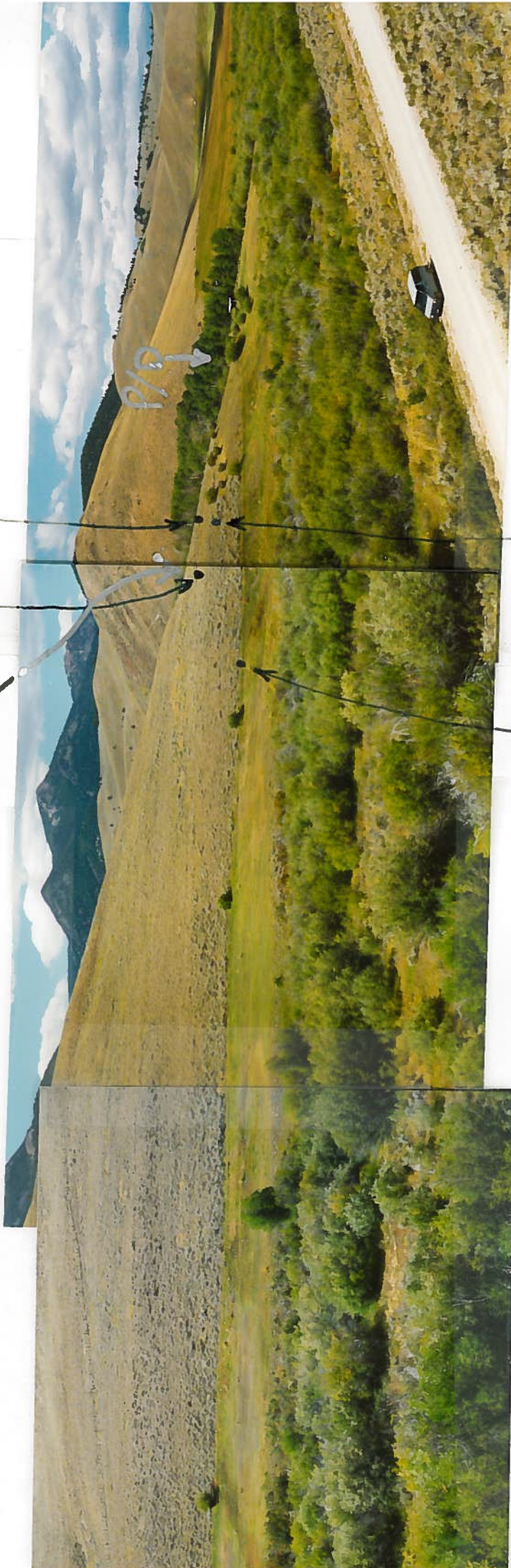
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Picture Set 2
LOCATION

8-18-93 Picture Set 1
LOCATION
8-18-93

P/D



Picture # 6
LOCATION
8-18-93

Picture Set #5
LOCATION
8-18-93

FROM
VON

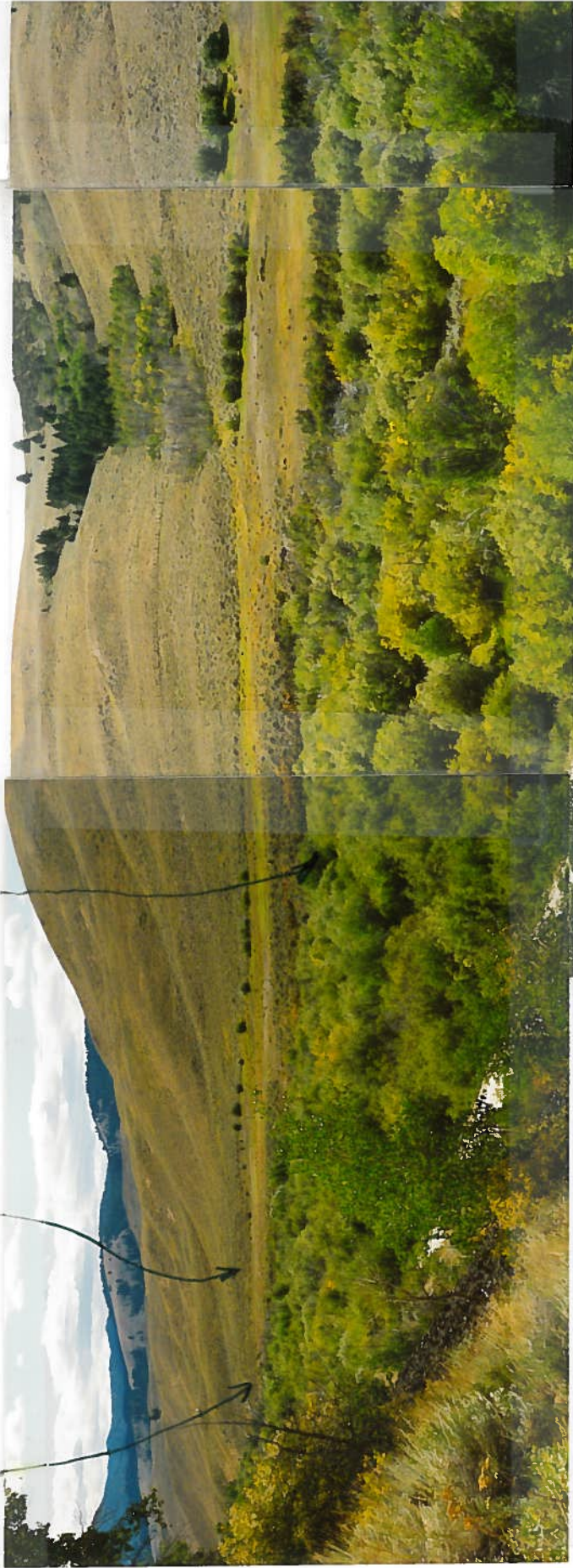
CLAIM # A72-00163, 00164, 10243
DATE PHOTOS TAKEN; 9-1-93
PICTURE SET # 2

This photo set shows virtually all of the P/U. You are looking southwest on the left to northwest on the right.

SOUTH END
OF P/U

PHOTO 3 & 4
DATED 8-18-93
LOCATION

MORGAN CREEK



FILED
1994

CLAIM # A72-00163, 00164 ETC.
DATE PHOTOS TAKEN; 9-22-93
PICTURE # 1

This is the picture of the measurement site and the P/D for the upper ditch for the Cattle Company. Van Horn Creek flows from left to right.

DIVERSION
WORKS



POOR ORIGINAL

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NOV 01 1994

DATE 2-20-85

FROM TERRY Blau

TO File #s 72-0163 - 72-0166

SUBJECT Source Error

Upon reviewing the H. E. S. Plats it was discovered that the source serving H.E.S. No. 614 should be Van Horn Creek rather than Alder Cr. and the source serving H.E.S. No. 263 should be Alder Cr. rather than Van Horn Cr.

Terry Blau
SIGNATURE

MICROFILMED

NOV 01 1994

FIELD EXAM ATTACHMENT

DATE: 12-15-93PAGE: 1/1AGENT: KKCFILES: A72-00163, -00164
10243ATTACHMENT SUBJECT: System Analysis

The system consists of 2 decreed rights and 1 excessflow right used in conjunction to irrigate 29 found acres. The Delivery system is 2 P/Ds & two main ditches with the western most P/D & ditch system ending on the upper portion of the P/U. Excessflow from that ditch is intercepted by the 'lower' ditch. This is a flood system from either ditch with minimal control being accomplished beyond the main ditches.

Two P/D's were found with the ~~western~~ ^{western} P/D being measured at 0.47 CFS. That system was not at capacity (estimated @ 50%). The ~~eastern~~ ^{eastern} P/D was measured at 1.69 CFS and was at approx 75% of capacity.

Estimated diversion capacity

Western P/D $\times .5 = .47 \text{ CFS} = .94 \text{ CFS}$

$\times .75 = 1.69 \text{ CFS} = 2.25 \text{ CFS}$

Total estimated capacity = 3.19 CFS

Soils analysis for BCI soils @ 4% slope and an average run of 280 ft gives an irrigation requirement of 2.75 CFS. as this rate is less than the estimated system capacity and is claimed at this rate I recommend this system for 2.75 CFS total comb. rate for 29 acres.

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CLAIM NUMBER A 72-00163DATE 7-22-93-00164AGENT K/KC

CLAIM NUMBER				NE				NW				SW				SE				TOTAL ACRES
	T N S	R N G	S E C	N E	N W	S W	S E	N E	N W	S W	S E	N E	N W	S W	S E	N E	N W	S W	S E	
			16N 19E 6																	
Claimed Pl			6	3	9	2														14

CLAIM NUMBER				NE				NW				SW				SE				TOTAL ACRES
	T N S	R N G	S E C	N E	N W	S W	S E	N E	N W	S W	S E	N E	N W	S W	S E	N E	N W	S W	S E	
			17N 19E 31																	
Claimed Pl			31														3	15	8	26

Total Acres 53.1

Decree info

72-00163

5-1-1912

.80 CFS

VAN Horn

00164

9-14-1931

.20 CFS

?

Claim	Priority	Rate	Acres	RATE/ACRE	COMBINED RATE
00163	1912	.8 CFS	40	.02 CFS/A	
00164	1931	.2 CFS	40	.005 CFS/A	.025 CFS/A
10243	1912	.8 CFS	40	.02 CFS/A	.045 CFS/A

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NOV 01 1994

SYSTEM CLAIM NUMBERS

A72- 00163
 00164
 10243

AGENT
 INITIALS **KAC**
 DATE

CLAIM NO.
 OR ENTRY
 ORDER

REMARK
 CODE

ENTRY DATA

CONDITION
 CODE

STAGE
 OR
 STATUS

PRESUMPTION
 CODE

	E12	2.75 CFS			
		72.5 AFR			
		29 Aero			
		72-00163, 00164, 10243			
	J02	614			

C02- chg source
 C03 chg P/D legal

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 NOV 01 1984

NAME OF STREAM OR DITCH VAN HORN CREEK
 LOCATION ----- NORTHERN MOST P/D OF 2
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER ----- 1
 IF YOU ARE USING A AA METER ENTER ----- 2
 ENTRY ----- 1

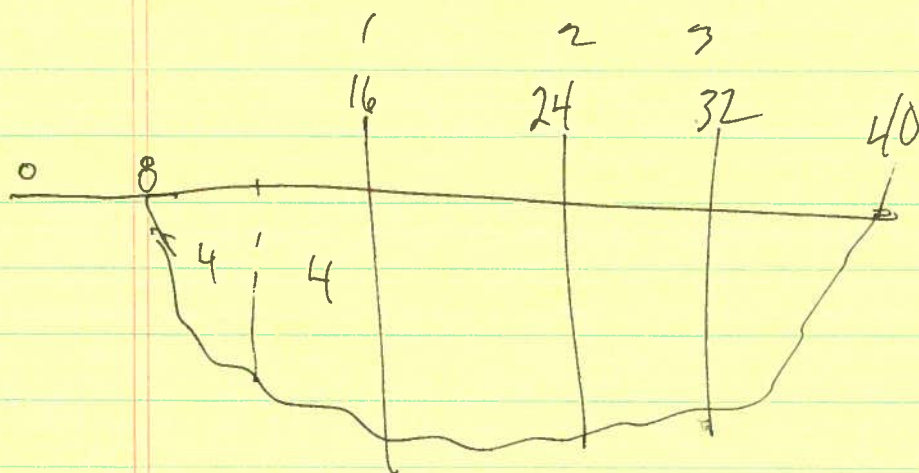
WATER RIGHT NUMBER IF APPLICABLE ----- A72-00163, 00164 & 10243
 AGENT CONDUCTING MEASUREMENT AND DATE- KKC 9-22-93
 ACCOMPANIED BY ----- NO ONE
 PREMEASUREMENT SPIN TEST (MIN/SEC) --- KKC
 POST MEASUREMENT SPIN TEST (MIN/SEC) -

FOLLOWING THE LAST ENTRY IN:
 "DISTANCE FROM INIT PT" ENTRY MUST = "END"

INITIAL POINT	ANGLE OF COEFFICIENT	DISTANCE FROM INIT PT	DEPTH IN FEET	CALC DEPTH END PTS	1ST MEASUREMENT REVS	VELOCITY DATA		CALC WIDTH	AREA IN SQ FT	CALCULATED VELOCITY			DISCHARGE IN CFS
						2ND MEASUREMENT TIME/SEC	TIME/SEC			1ST POINT VELOCITY	2ND POINT VELOCITY	MEAN VELOCITY	
		0.67		0.25				0.33	0.083			0.19	0.02
		1.33	0.50		15	56.3		0.67	0.333	0.27		0.27	0.09
		2.00	0.50		30	58.4		0.67	0.335	0.51		0.51	0.17
		2.67	0.50		30	58.2		0.67	0.333	0.52		0.52	0.17
		3.33		0.25				0.33	0.082			0.26	0.02
END													0.47

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9-22-93



M. C. Cattle Assoc
Northern Most P/O
Approx 40' from dis.

POOR ORIGINAL

Sta	f	depth	Rev	Sec	
1		6"	15	~~59.23~~ 55.28	water clear bottom floor muddy to sandy sides
2		6"	30	57.03	sloping sharply some minor vegetation measure
3		6"	30	59.85	considered good. approx
				57.41	50% of ditch capacity
				58.97	

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NAME OF STREAM OR DITCH VAN HORN CREEK
 LOCATION ----- LOWER DIVERSION OF 2
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER ----- 1
 IF YOU ARE USING A AA METER ENTER ----- 2
 ENTRY ----- = 1

WATER RIGHT NUMBER IF APPLICABLE ----- A72-00163, 00164 & 10243
 AGENT CONDUCTING MEASUREMENT AND DATE- KKC 8-18-93
 ACCOMPANIED BY ----- NO ONE
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---
 POST MEASUREMENT SPIN TEST (MIN/SEC) -

FOLLOWING THE LAST ENTRY IN: "END"
 "DISTANCE FROM INIT PT" ENTRY MUST =

INITIAL POINT	ANGLE OF COEFFICIENT	DISTANCE FROM INIT PT	DEPTH IN FEET	CALC DEPTH END PTS	1ST MEASUREMENT REVS	VELOCITY DATA		CALC WIDTH	AREA IN SQ FT	CALCULATED VELOCITY			DISCHARGE IN CFS
						2ND MEASUREMENT TIME/SEC	TIME/SEC			1ST POINT VELOCITY	2ND POINT VELOCITY	MEAN VELOCITY	
		0.83		0.16	60	39.9		0.33	0.054	1.50		0.77	0.04
		1.50	0.33		60	36.8		0.67	0.217	1.63		1.50	0.33
		2.17	0.40		60	31.8		0.67	0.267	1.89		1.63	0.43
		2.83	0.43		60	50.8		0.67	0.283	1.18		1.89	0.53
		3.50	0.40					0.67	0.267			1.18	0.31
		4.17		0.20				0.33	0.067			0.59	0.04
END													1.69

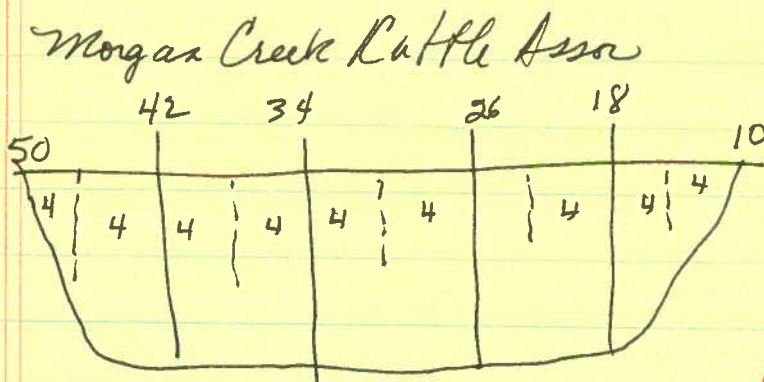
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 NOV 01 1994

8-18-93

Lower division

(goes just S of conals)

measured approx 8' from P/O



POOR ORIGINAL

stat depth Rv Sec

1	3.25	60	39.75 40.06
2	4	60	36.63 37.03
3	4.25	60	31.09 32.57
4	4	60	50.67 50.94

water clear, bottom gravel
sides slope up gradually
no vegetation slight curve
to approach.

meas. Good Ditch approx
75% full.

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NOV 01 1994

CLAIM NO. --- A72-00163, 00164, & 10243 Lotus Program:
 AGENT ----- KKC IRR-PRAC.WK3
 DATE ----- 12/15/93 Date form revised:
 4/21/93 by KKC

 SOIL CHARACTERISTICS

Soil Type = BC1; BIGLOST...GRAVELLY FINE SANDY LOAM
 Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	5	0.11	0.14	6.6	7.8	2	3	1	1.57	3	0.7
5	23	0.12	0.15	6.6	7.8			1	1.71		
23	60	0.02	0.04	6.6	7.8			3	3.44		
								4	3.80	alternate	
								5	4.17	method	
										NA	NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD	FIELD NOTES AND CALCULATIONS				
				FIELD 1	FIELD 2	FIELD 3	FIELD 4	
				FIELD WIDTH	4512	0		
				IRRIGATION DAYS	10			
				DRY DAYS	0			
				SET TIME(hours)	8			
				CALCULATED RUN (run = acres*43560/width)				
				LENGTH (RUN) =	280			
				CALCULATED BORDER WIDTH (ditch length/irr days * cha				
				WIDTH =	150			
				THEORETICAL ROTATION (mad/net irr req in inches per				
				SELECTED MAD =	1.72			
				ROTATION =	7.5 DAYS			

PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
 Figure No = 10-15

crop	acres	system	recomm. eff.	Net Irrigation Requirement (mm/day)							
				mar	apr	may	jun	jul	aug	sep	oct
PASTURE	29	FLOOD	7.6		1.47	3.84	4.87	5.86	4.56	3.23	2.07
ALFALFA		FLOOD			1.28	4.51	5.65	6.25	4.45	2.52	0.7

Summary	29		8		1.47	3.84	4.87	5.86	4.56	3.23	2.07
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Peak Net Irrigation Requirement (mm/day) = 5.86

Program Operation based upon

"GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES"
 HUBBLE ENGINEERING INC. OCTOBER 1991

Soil Characteristics based upon

SOIL CONSERVATION SERVICE STUDIES

Peak Irrigation Diversion based upon ALLEN & BROCKWAY WEATHER INFORMATION 1983

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GRADED BORDER EVALUATION

Job name: A72-00163, 00164
By: KKC

Location: BC1 SOIL FOR 29 ACRES
Date:

Roughness coefficient (n)= 0.250 Intake family (If)=3.00
Slope (S)= 0.0400 ft/ft Border width (W)= 150 ft
Net application (Fn)= 1.72 inches Border length (L)= 280 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Notes
2.70	Gross depth is less than required	gross application depth				
2.71	Gross depth is less than required	gross application depth				
2.72	Gross depth is less than required	gross application depth				
2.73	Gross depth is less than required	gross application depth				
2.74	Gross depth is less than required	gross application depth				
2.75	0.018	22.63	20.83	0.08	7.6	
2.76	0.018	22.71	20.83	0.16	7.6	
2.77	0.018	22.79	20.83	0.24	7.5	
2.78	0.019	22.88	20.83	0.32	7.5	
2.79	0.019	22.96	20.83	0.41	7.5	
2.80	0.019	23.04	20.83	0.49	7.5	

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