July 16 1981 Met Chase Hibbard
Dillon Montang, toured Montang Allot. Blt.

22 Wilbur Rahmann called about Chase wanting me to see The
Sieben Livestock Co Ranch and
predicting RR. Subsequently
arranged date for visiting the ranch.
August 26-29 Tourred Sieben Ranch, near
Montang with Chase his
brothers and ranch foreman Neil
Windcutter

September 1 Received the following from Chase
a) Ranch base map
b) Travel route Aug 26-29

1-11 During this period prepared
map of ranch on USGS quadrangles
showing principle drainage areas
land ownership, roads, travel route
Aug 26-29
September 22/81 Letter to Chase requesting The
information on how the cattle were
handled and managed on the ranch
Sent first bill covering Aug. 26-29
trip to ranch and all other services
to date.

Suggested starting RR on a portion
of the ranch with one of the cattle
horns. Pilot effort.

Also said not too early to contact
the people he would like to see attend
The March 1982 RR training session
tentatively agreed up at the end of
The Aug. 26-29 trip to the ranch

Jan 2 1982
Received letter from Chase apologizing
for not sending the information requested
September 22.
He said he would like to discuss
the tentative format for the March
RR training session
1982 Cont'd
Jan 20 Letter to Chase Hubbard about RR training session in March 1982
Feb 2 Letter on March training session
Mar 26 Held RR Training Session in Holen Montana
April 30 Letter to Senator RR planning for Siben Ranch and invoice for services to date including RR Training Session on March 26
Chronology Sixen Ranch

1981

August 26-29 Toured Ranch with Chase, Scott and Wilt and Neil Windoeder. First sign up and photographs, including Elk Ridge.

Sept 22 #1 Invoice covering all services to date 4 days @ 225.00 = 900.00
This covered trip to Ranch. All other work materials gratis.

1982

May 3-4 (Office) Prepared maps showing possible location of 5 rest-rotation grazing systems on Sixen summer ranges.

June 10, 11 (Field) Toured and photographed Sixen winter-spring ranges with Chase.

July 9 #3 Invoice covering services from Sept 22 to June 11
(5/3-6/11) On or before June 11/81

During this period prepared map showing the #2 fence locations on The Elk Ridge (East - French allotment.####

In the letter of July 9 promised to send Chase a large scale quadrangle map showing the Middle Creek and Major Creek pasture set ups. Sent?
Chronology Section Cont'd.

1982
May 3 #2  Invoice CONGREE
RR qrgry session in Helon  1000.00
Plus 3 days fee @ 225.00  675.00
" Plane fare and subsistence  594.00
# 2769.00

Nov. 16 1982  Letter from Maurice W Anding
District Ranger Helon R D
about The status of The 3 pasture
RR system on The Elk Ridge (East Fram)
galloon. Will start qrgry in
east pasture (Supposition)

1983
April 2
My reply to Anding letter of Nov 16/82
Suggested he send me a copy of The
qrgry plan for review.

May 25
Received copy of plan

No travel in 1983  No Invoice
1982 Livestock Inventory

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>AUM Rating</th>
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</thead>
<tbody>
<tr>
<td>Bred Cows</td>
<td>1129</td>
<td>1.25</td>
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<tr>
<td>Coming 3(^{1/2})</td>
<td>364</td>
<td>1.15</td>
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<tr>
<td>Coming 2(^{1/2})</td>
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<td>1.00</td>
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<tr>
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<td>0.90</td>
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<td>Steer Calves</td>
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<td>1.20</td>
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<tr>
<td>Bulls</td>
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<td>1.25</td>
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<tr>
<td>Purebred Sheep</td>
<td>200</td>
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<td>Commercial Sheep</td>
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</table>

Management Groups

I. Calves
   a. Heifer calves
   b. Steer calves

II. Yearlings Coming 2

III. 2\(^{1/2}\) Coming 3

IV. Old Cows

V. Sheep
   a. Purebred sheep
   b. Grade sheep

VI. Bulls

I. CALVES

a. Heifer Calves
   504
   504 Woodenshoe and Upper Woodenshoe
   Turtle Butte (Bulls in 5/5)
   293 Boone's Cabin
   293 to Jones Hills (Bulls out 6/19)
   201 to 9 (Bulls out 6/19)
   then 201 to Jones Hills
   Preg Test & Cull-Cow Barn
   450 (Less 10% open) Shearing Shed

b. Steer Calves
   250-600
   Mullory Creek
   Swale
   Allen Creek
   Trucked to Helena Property
   Helena Property
   Shipped from Avon, MT
II. YEARLINGS COMING 2  450

450  Twenty-Five
Cow Barn for calving  1/1 - 2/5
Duck Pond  2/5 - 4/5
Twenty-Five  2/15 - 4/15
Pole Creek (less 10% calving loss)  4/15 - 5/1
Taylor  5/1 - 6/5
Cow Barn for Weaning  6/5 - 10/1
364  West Hound Swale (less 10% open)  10/5
364  West Hound - Allen Creek  10/5 - 11/15
Calves: Twenty-Five
Shipped  11/15

III. 25 COMING 3  364

364  Turtle Butte
Swale  1/1 - 1/15
West Hound Calving Pasture  1/15 - 2/10
Swale or Turtle Butte  2/10 - 4/10
327  Allen Creek (less 10% calving loss)  3/1 - 4/20
Management Group Terminates  4/20 - 5/20

IV. COWS  1150

1150  West Hound Swale
250  Jones  1/1 - 1/15
900  Upper Spring Creek
Lower  1/15 - 5/1
Big Meadow  1/15 - 5/1
35 = 327
Cows= 1035 = 1362 (10% calving loss + 35)

654  BWF  Power House/"23"/New Jones  1/1 - 6/5
381  Reds  Dog Creek/Nine  2/15 - 6/5
327  Blacks  Upper Woodenshoe/17  1/15 - 6/5
(Bulls in 5/15)
1362  Middle Creek - Blacks & B.W.F.  6/5 - 10/5
225  Whitetail - Reds  34
200  Wegner / Stickney-Reds & Blacks  35
250  stay in 23 - B.W.F.  36
until 7/15
1362  then to Forest-Elk Ridge  37
1362  then to Taylor, Middle Section  38
75  out of Middle Creek  39
175  from Middle Creek to Martien  40
680  to Cow Barn to Wean  41
682  Woodenshoe  42
1362 - 15% = 1157 (15% open & cull)
275  to Taylor  11/1 - 12/3
882  to Middle Creek  11/1 - 12/3
1157  West Hound  12/5 - 12/31
Steer Calves  600 Shipped
Big Meadow  10/15
Light Steers  10/15 - 12/31
Light Heifers  10/5 - 12/31
360 "25" ship
11/15

Winter

Phase #1

Spring

A  654 BWF
B  381 Reds
C  327 Blacks
1362

Phase #2

B  687 Middle Creek - Blacks & B.W.F.
C  225 Whitetail - Reds
A  200 Wegner / Stickney-Reds & Blacks
250 stay in 23 - B.W.F.

Phase #3

B  175 from Middle Creek to Martien
C  680 to Cow Barn to Wean
A  682 Woodenshoe
1362 - 15% = 1157 (15% open & cull)

Winter

43
44
V. A. Purebred Sheep 200
   Lambing Camp
   Little Shed
   Buck Pasture

   B. Grade Sheep 915
      Tyrell
      Lambing Camp
      "17"
      Taylor
      Wean
      Waldron
      Upper Spring Creek
      "9"

VI. Bulls 115
   Shearing Shed
   Bull Pasture
   With Cows
   Horse Pasture
   Power House Ridge

   1/1 - 4/15
   4/15 - 5/20
   5/20 - 12/31

   1/1 - 4/1
   4/1 - 5/25
   5/25 - 6/10
   6/10 - 9/15
   9/15
   9/15-10/20
   10/20-12/1
   12/1 -12/31

   12/1 - 3/4
   3/4 - 5/10
   5/10-10/15
   10/15-11/15
   11/15-12/31
Sieben Grazing Seasons

<table>
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<tr>
<th>Season</th>
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<td>Winter</td>
<td>Dec 1 - May 1</td>
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<tr>
<td>Spring</td>
<td>May 1 - June 1</td>
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<tr>
<td>Summer</td>
<td>June 1 - Oct 1</td>
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<tr>
<td>Fall</td>
<td>Oct 1 - Dec 1</td>
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<tr>
<td>Class</td>
<td>AUMs</td>
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<tr>
<td>---------------</td>
<td>------</td>
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<tr>
<td>I 9 Heifer calves</td>
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</tr>
<tr>
<td></td>
<td>Unbred</td>
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<tr>
<td></td>
<td>Bred</td>
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<td>I 6 Steer calves</td>
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<td>II Yearlings coming 2</td>
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<td></td>
<td>Open</td>
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<td>Bred</td>
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<td>III 2st coming 3</td>
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<tr>
<td></td>
<td>Open</td>
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<td></td>
<td>Bred</td>
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<tr>
<td>IV Cows 3+</td>
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<tr>
<td></td>
<td>Open</td>
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<tr>
<td></td>
<td>Bred.</td>
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<tr>
<td>VI Bulls</td>
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</tbody>
</table>
IV Brood cows 1150

After weaning put into West Hoard during period 1/5-12/31 and hold those from 1/1-1/15

Calving pastures

Then 250 into Jones 1/15-5/1 (J E & W)
and 900 into Upper Spring Creek 1/15-5/1
Some of these into Lower Sec. 3 1-5/1
... Big Meadow 3 1-5/1

10% Calving loss 1150 - 115 = 1035
327 3's integrated into herd

1035 + 327 = 1362

The cow herd 1362 head now separated into 3 groups and into spring pastures for period 5/1-9/5
A 654 (heifer) BNF → Panoramic / 23 / New Sec.
B 381 Ricks → Dog Creek / N/S = April Creek
C 327 Blocks → Upper Woodenshoe / 17

Bulls into above groups 5/15

April 15/1982

1
These 1362 head now grouped into 4 herds and grazed on summer range areas 6/5 - 10/5 as follows

687 Blacks & BWF → Middle Creek
225 Red s → White tail
200 Red s & Blacks → Noguer/Stickney
250 BWF → Stay in V3 → 7/15
          → Elk Ridge → 9/15
          → Taylor → 10/1

682 of above to Woodshoe 10/1-10/30 and more
680 to Cow Born to mean 10/15

During meaning pointed herd checked
the open (966) and cull removed (15%)
1362 - 15% = 1157
The 1157 head put back on summer range areas
  275 to Taylor 11/1-17/3
  882 to Middle Creek 11/1-17/3

1157
<table>
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<tr>
<th>Management</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>April</th>
<th>May</th>
<th>June</th>
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<td>Period on range</td>
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<tr>
<td><em>1b Yearling Heifers</em></td>
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<td>Unbred</td>
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<td>Bulls</td>
<td>5/15-6/19</td>
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<tr>
<td><em>1b Yearling Steers</em></td>
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<td>Traded to Helena property 9/1</td>
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<td><strong>II Yearlings Coming 2</strong></td>
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<td>Calving</td>
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<td>Bulls in 5/10-10/15</td>
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<td>5/10-6/15</td>
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<td>With cows 5/10-10/15</td>
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*W = meaning*