

BOOK 2008

2008

F I E L D N O T E S
OF THE SURVEY OF THE
EXTERIOR BOUNDARIES OF THE COLORADO
INDIAN RESERVATION.

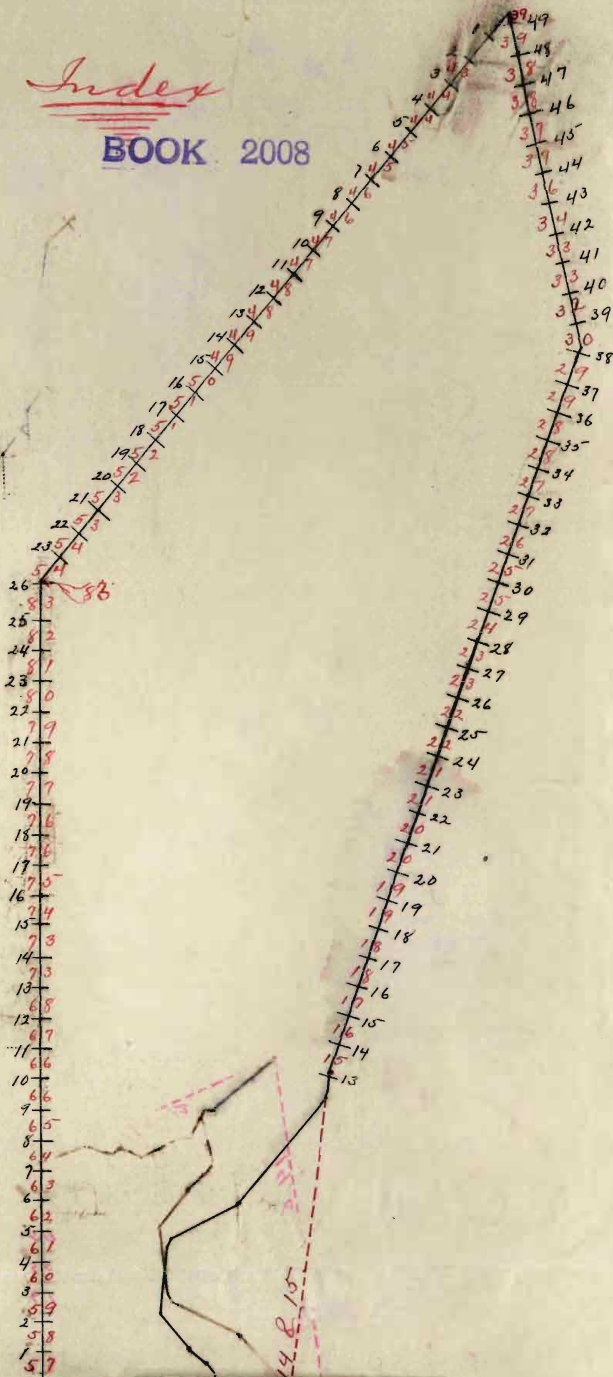
Gila and Salt River Base and
Meridian,

ARIZONA.

By Chandler Robbins, D.S., under
Contract dated May 26, 1875,
Survey commenced Nov. 10, 1875.
Survey completed Nov. 27, 1875..

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BOOK 2008



2008

Field notes of the survey of
the exterior boundaries of the
Colorado River Indian Reser-
vation, in the Territory of
Arizona and State of Cal-
ifornia; and the principal
Meridian in Townships 1 and
2 North, the base line in
Range 1 and 2 West and 1
East. the exterior boundaries
of fractional Townships 1 and
2 North, Range 1 West, and
fractional Township 2 North
Range 1 East, together with
the section and 1/4 section
lines thereof, and all lying
within and being a part of
said reservation, by Charles
Hobbs Deputy Surveyor

under his contract No. 27
with John Wallon U. S.
Surveyor General of Arizona
bearing date May 26, 1875

Survey commenced Nov. 10, 1875
Survey ended Jan. 22, 1875

PRELIMINARY OATHS OF ASSISTANTS.

WE, Frank Scott, John W. Stokes W^m A Stokes
and A. W. Sharpe

do solemnly swear that we will faithfully execute
the duties of Chain Carriers; that we will level the
chain upon uneven ground, and plumb the tally
pins, whether by sticking or dropping the same;
that we will report the true distance to all notable
objects, and the true length of all lines that we as-
sist in measuring, to the best of our skill and
ability.

Frank Scott
John W. Stokes
Wm A Stokes
A. W. Sharpe

Sworn to and subscribed before me, this Ninth
day of November, 1875

Chauncey Robbins
U. S. Dep. Surveyor

6+7 Blank

BOOK 2008

5

W.E. ~~L. S. Davis~~, John E. Miller, John
Gentzke and John Hidalgo, and
~~George H. Pratt~~
do solemnly swear that we will well and truly per-
form the duties of Flagman or Axeman
or compassman, as set opposite our respective
names, according to instructions given us, and to the best
of our skill and ability.

L. S. Davis	Flagman
John E. Miller	Flagman
John Gentzke	Axeman
John Hidalgo	Axeman
George H. Pratt	Compassman.

Sworn to and subscribed before me this fourth
day of November 1875

Chandler Robbins
U.S. Dep. Surveyor.

"A"

Field notes of the ^{Survey of the} exterior boundaries of the Colorado River Indian Reservation, in the Territory of Arizona, by Chandler Robbins Deputy Surveyor, under his contract No. 27, bearing date May 26, 1875.

The instruments used in running the lines of this survey, were a Burt's improved solar compass with a telescope attachment made by W & L. E. Gurley of Troy N.Y., and a transit No. 97 belonging to the U.S. Coast Survey and made by Wurdeman of Washington D.C. The instruments were both thoroughly adjusted before taking them into the field. The chains were of steel with braced links and carefully compared with a standard steel tape line, which had been compared with the standard yard in the office of the Surveyor General of New Mexico.

South Boundary. Col. river Ind. Reserve

Course Distance

The point where the La Paz Arroyo enters the Colorado river is subject to annual overflow. I therefore set the initial monument on the high bank 9.14 chs East of the river. Deposited a specular granite stone $12 \times 8 \times 8$ marked C. & F. R. 1875

Dug three pits East, West and North 18 inches square and 12 inches deep, and erected mound of earth $3\frac{1}{2}$ feet high and 8 feet in diameter for the initial monument of the survey of the exterior boundaries of the Colorado River Indian Reserve.

Thence. Va 14° E.

872° E 120.00 at 19.00 the road from Ehrenberg to La Paz. bears North $\frac{1}{2}$ South

South Boundary. Col. river Ind. Reserve

		At 94 Chs. Road from Ehrenberg to Wickenburg bears East & West
N 68° 15' E	50.00	At 45 Chs. Road from Ehrenberg to Wickenburg bears East & West.
N 79° 30' E	20.00	At 3 Chs. road bears N & S
S 65° E	23.00	
N 80° E	18.00	
N 72° E	44.00	
S 66° E	105.00	
S 80° E	34.00	
S 31° 30' E	81.00	At 40 Chs. enter Cañon
S 76° E	20.00	
S 52° E	200.00	To a point south of the crest of the La Paz Mountains and at the head of the Arroyo La Paz set for the S. E. corner a Granite 62 x 35 x 24 inches on stony ground in a mound of stone, and marked C. R. I. R.

South Boundary, Col. river Ind. Reserve

"1875" and 8.93 miles.

"There were no natural objects near for bearings.

Surface Level soil stony.
3^d rate. Timber. Mesquit
Palo Verde, Creosote bushes
and Giant Cactus.

Nov. 10th 1875

General Description

The south boundary follows the Arroyo La Paz from its mouth to its head in the mountains, entering the latter by a cañon on the 9th course.

The country along the line is barren and stony, without water, and supporting a scanty growth of Mesquit Palo Verde and Creosote bushes, and cactus of several kinds including the *Cereus Giganteus*

East Boundary of Col. River Ind Reserve

As it is impossible to carry a line over the crest of the La Paz mountains on account of their extreme ruggedness. I proceeded to traverse them as follows from the South East corner.

N 52° W 200.00

N 76° W 20.00

N 31° 30' W 41.00 To mouth of Cañon

N 25° E 5.00

N 10° E 102.00 At 73 chs an arroyo bears East and West

At 79 chs. the Wickenburg Road bears E & W

At 80 chs. Leave Arroyo 700 chs wide

N 42° 30' W 18.00 Nov. 11th 1875

N 50° W 62.00

N 40° 30' W 126.00

N 2.15° W 168.00

East boundary of Col. river Ind. Reserve

N12° E 34.00

N61° E 189.00

N40° E 357.00

N15° W 15.00

N10° E 44.00

To a point opposite the North end of the La Paz mountains and, 13 miles and 3.11 chs. N42.1° E from the S. E. cor.

I measure back S42.1° W 3.11 chs. and set the 13" mile cor. a Granite 26x14x4 on stony ground in a mound of stone and marked "13" South and C.R.I.R. North

Thence on East boundary towards Black mountain

(N18.15° E on 4" mile

va 14° East

East Boundary of the

Chains

- 2.30 Dry Wash 9.70 Chs. wide lower
nest
- 80.00 Set Silicified Wood $38 \times 5 \times 5$
in a mound of stone, and marked
on the South "14" and North
"C.R. I. R." for 14" mile Cor.
Surface Broken.
Soil gravelly 3^d rate
Timber Mesquite and Creosote bushes

N $18^{\circ} 15' E.$ on 15th mile
Va 14° East

- 30.00 Deposited a marked stone
Set a Palo Verde Post 4 inches
square, and five feet long, two
feet in the ground, and marked
15 on the south & C.R. I. R. North
Dug two pits on line 18 inches
square and 12 inches deep and
erected mound of earth 5 feet.

Colorado river Indian Reserve

Shrubs

in. dia. and two feet high
for 15th mile cor.

Surface rolling soil sandy
3^d rate.

Gopher Mesquit and Creosote bushes.

N 18° 15' E on 16th mile

Va 14° E

70.00 Ascend a rough broken hill, bears
North and west

80.00 Set a granite 20x14x12 on stony
ground in a mound of stone
and marked "16" on the South
and "C. R. I. R." on the north
for 16th mile cor.

Surface broken.

Soil stony 3^d rate.

Nov. 12th 1875

Nov.

East Boundary of the

Chains

N. $18^{\circ}15'$ E on 17^{th} mileVa 14° East

80.00 Set a granite $10 \times 10 \times 8$ on stony ground in a mound of stone and marked "17" on the south and "C.R.I.R." on the north for 17^{th} mile cor.

Surface broken.

Soil stony 3^d rateN $18^{\circ}15'$ E on 18^{th} mileVa 14° East

80.00 Set a granite $12 \times 12 \times 8$ on stony ground in a mound of stone and marked "18" on the south and "C.R.I.R." on the north for 18^{th} mile Cor.

Surface broken and rocky

Soil 3^d rate

Colorado river Indian Reserve

chain

N 18° 15' E on the 19th mile
Va 14° East

8.00 Leave the hills, bear East
and West, and enter sand

80.00 Set a granite 20x10x6
15 inches in ground and marked
on the south 19 and on the
North C. R. I. R. for 19th
mile cor.

Surface level

Soil sandy 3^d rate

N 18° 15' E on 20th mile
Va 14° East.

80.00 Set a granite 16x8x6
10 inches in ground and marked
20 on the south and C. R. I. R. on
the north for 20th mile cor.
Surface level, Soil sandy 3^d rate

East Boundary of the

Pham's

N $18^{\circ}15'$ E on 21st mile.Va 14° East

80.00

Set a granite $14 \times 12 \times 5$ - 9
 inches in ground and marked
 21 on the south and "C.R.I.R."
 on the north for 21st mile Cor.
 Surface level.

Soil sandy 3^d rate

Nov 13, 1875

N $18^{\circ}15'$ E. on 22nd mileVa 14° East.

80.00

Set a Quartz $12 \times 10 \times 5$ -
 8 inches in the ground and mark-
 ed 22 on the south and "C.R.
 I.R." on the north for 22nd mile Cor.
 Surface level.

Soil sandy 3^d rate.

Colorado river Indian Reserve

chains

N 18° 15' E. on 23^d mile

Va 14° East

80.00 Set a granite 14x10x8 9
inches in the ground and
marked 23 on the South and
C.R.I.R. on the North for
23^d mile Cor.

Surface level

Soil sandy 3^d rateN 18° 15' E on 24th mile

Va 14° East

80.00 Set a granite 24x8x8 16 inches
in the ground and marked
24 on the south and C.R.I.R.
on the North for 24th mile Cor.

Surface level.

Soil sandy 3^d rate

East Boundary of the

Chains

N18°15'E on 25th mile

Ta 14° East

80.00

Set a Sandstone 14 x 12 x 3
 9 inches in ground and marked
 25 on the south and C.R.I.R.
 on the north for 25 mile Cor.
 Surface level

Soil sandy 3^d rateN18°15'E on 26th mile

Ta 14° East

80.00

Set a Sandstone 14 x 12 x 3
 9 inches in ground and marked
 26 on the south and C.R.I.R.
 on the north for 26th mile Cor.
 Surface level

Soil sandy, 3^d rate

Colorado river Indian Reserve

Chains

N 18° 15' E on 27" mile

Ta 14° East

30.00 Set a sandstone 16X10X6 — 12 inches in ground and marked 27 on the south and C.R. I.R on the north for 27" mile Cor. Surface level.

Soil sandy 3^d rate
Nov 14" 1875

N 18° 15' E on 28" mile

Ta 14° East

1.64 A dry wash 3.36 lks wide,
Course North^{East}west

30.00 Foot of a range of rocky hills

55.00 Summit of same, bears N.W. & S.E.

80.00 Set a granite 18X12X8 on stony ground in a mound of stone and marked 28 on the south and "C.R. I.R" on the

East Boundary of the

Chains

North for 28th mile Cor.
 1st 30 Chs. Soil sandy 3^d rate
 Balance rocky and stony

N 18° 15' E on 29th mile
 Va 14° East

47.00 Leave the hills, and enter
 rolling sandy prairie bears
 East and West.

66.00 A dry wash. 60 North

80.00 Set a Granite 26x12x12. on
 stony ground in a mound of
 stone and marked 29 on the
 south and C.R.I.R. on the
 North for 29th mile Cor.

Surface broken and rocky
 Soil 3^d rate

Colorado river Indian reserve

chains

N 18° 15' E on 30th mile ^{7N/20W}

Va 14° East

2,45 Leave the Arroyo, course North
 80.00 Set a granite 12 x 8 x 6 — 8
 inches in the ground and
 marked "30" on the south
 and "C.R.I.R." on the North
 for 30th mile Cor.

Surface level

Soil sandy 3^d rate
 Timber Mesquite Palo Verde
 and Creosote bushes.

N 18° 15' E on 31st mile

Va 14° East

3,70 Dry wash 2,30 wide, course West
 80.00 Set a granite 14 x 8 x 5 9
 inches in ground and marked
 31 on the south and "C.R.I.R."

East Boundary of the

Chains

on the North for 31st mile Cor.
Surface rolling.

Soil sandy 3^d rate

A few Mesquit and Creosote
bushes along the line.

N 18° 15' E. on 32^d mile

va 14° East

30.00

Set a Granite 12x12x6
8 inches in the ground and
marked "32" on the South and
C.R. 1.R. on the north for the
32^d mile Cor.

Surface rolling

Soil sandy 2^d rate

A few creosote bushes along
the line with plenty of Balleta
grass

Colorado river Indian Reserve.

chains

N 18° 15' E. on 33^d mile

Va 14° East

80.00

Set a granite 16x10x6
12 inches in ground and marked
33 on the south, and "C.R.I.R."
on the north for 33^d mile cor.

Surface rolling

Soil sandy 3^d rateN 18° 15' E. on 34th mile

Va 14° East

80.00

Set a granite 16x8x4—12 inches
in ground and marked 34 on
the south and C.R.I.R. on the
North for 34th mile cor.

Surface rolling

Soil sandy 3^d rate
with abundant Galleta grass

East Boundary of the

Chains

N $18^{\circ}15'$ E on 35" mileVa 14° E

80.00 Set a granite $12 \times 12 \times 4$ - 8 inches
in ground and marked "35"
on the south and C.R.I.R. on the
North for 35" mile Cor.

N $18^{\circ}15'$ E. on 36" mileVa 14° East

80.00 Set a Granite $18 \times 12 \times 4$ - 12 inches
in ground and marked "36" on
the south and C.R.I.R. on the
North for 36th mile Cor.

Surface rolling

Soil sandy 3^d rate

Gulleta grass abundant

Colorado river Indian Reserve

Chains

N $18^{\circ}15'$ E on 37" mileVa 14° East

80.00

Set a Lava stone $10 \times 8 \times 8$ inches
in the ground, and marked 37
on the South and C.R.I.R on the
North for 37" mile Cor.

Surface rolling

Soil sandy 3^d rate

Grass abundant.

Nov. 15" 1875

N $18^{\circ}15'$ E on 38" mileVa 14° East

53.00

Foot of the "Black Mountain"
bears East and West.

I cause a flag to be set on
line on the summit of the moun-
tain, then measure a base line
of 6 Chains at right angles
to the line to a point from

East Boundary of the

Chains

which a line to the flag forms
an angle of $9^{\circ} 51'$ cotangent
 $5.7594122 \times 6 = 34.56$ Chs.

distance to top of the mountain

80.00 The place for the cor. is on
a steep inaccessible slope, and
it is impossible to establish
the corner monument.

Surface Broken and rocky
soil 3^d rate.

no vegetation

+

N $18^{\circ} 15'$ E on 39" mile

Va 14° East

7.50 To flag on line on summit
of the mountain

10.72 Highest point of the mountain
Here I build a monument of
Lava blocks 10 feet in dia.

Colorado river Indian reserve

chains

and 6 feet high and marked
 C. R. I. R. and 38.13 miles
 "Monument peak" in California
 bears $N 13^{\circ} 3' W$ and the high-
 est point of "Riverside Mt" in
 the same State bears $S 66.3 W$
 ⊗ Hence towards "monument
 peak in California.

$N 13.3 W$

Set a flag on line at the foot
 of the mountain, and from
 the flag measure 10 chains
 at right angles to the line
 to a point from which a line
 to the summit makes an
 angle of $10^{\circ} 48'$ cotangent

$$5.2421836 \times 10 = 52.42$$

63 14 the foot of mountain
 bears N.E. and S.W.

30.00 Set a Lava stone $14 \times 8 \times 8$

East Boundary of the

chains

9 inches in the ground and
marked "39" on the south
and C.R.I.R. on the North
for 39th mile Cor.

Surface broken and precipi-
tous.

Soil stony 3^d rate.

X

N 13° 3' W. on 40" mile

Va 14° East

80.00 Set Lava stone 14x8x6 9

inches in the ground and mark-
ed on the south "40" and on
the North C.R.I.R. for 40"
mile Cor.

Surface rolling

Soil sandy 3^d rate

Colorado river Indian Reserve

Chains

N 13.3° W on 41st mile

Va 14° East

40.00 A dry wash. 100 lbs wide Co. NW.

80.00 Set a Lava stone 16 x 8 x 5

12 inches in ground and marked
41" on the South and
C.R.I.R. on the North

Surface rolling

Soil gravelly 3^d rateN 13.3° W on 42^d mile

Va 14° East

80.00 Set a scoriaceous stone 24 x 10 x 8

on stony ground in a mound
of stone and marked 42on the South and C.R.I.R.
on the North for 42^d mile Cor.

Surface rolling

Soil stony 3^d rateNov. 16th 1875

East Boundary of the

chains

N $13^{\circ} 3'$ W on 43^d mile CuVa 14° East

39.00 The left bank of the Colorado river, which flows S.W.

The banks are high and sandy the current swift depth about 4 feet. width of river averages about 30.00 chs.

Set a Willow Post 7 feet long and 5 inches square, and marked 42.41 miles on the South and C.R. 1 R. on the north

Deposited a charred stake and dug one pit 18 inches square and 2 feet deep 8 lbs back on line, and raised mound of earth $3\frac{1}{2}$ feet high and 7 feet dia. for Meander cor.

Set a flag on the opposite side of the river, and measure

Colorado river Indian Reserve.

Chains

3.00 chs. at right angles to
the line to a point from
which a line to flag makes
an angle of $14^{\circ}13'$ $\text{Cotang} =$
3.9471331 $\times 3 = 11.84$ dist-
ance across

x

51.44

To sand bar bears NW & S E.

57.50

Ascend right bank of river

60.00

Deposited marked stone, set
a willow post 7 feet long and
5 inches thick, 2 feet in ground
dug pit 18 in square and two
feet deep. and raised mound
of earth $3\frac{1}{2}$ feet high and
4 feet dia. Post marked
43.75 on South and C.R.I.R.
(North) for Meander Cor.

74.00

Leave river bottom bears
N.E. & S.W. and enter gravelly
hills.

East Boundary of the

chains

80.00 Set a Lava stone $24 \times 18 \times 8$
16 inches in ground and
marked 43 South, and
C.R.I.R. North for 43^d mile
Cor.

Surface broken

Soil stony 3^d rate

$N 13^{\circ} 3' W.$ on 44" mile

$Va 14^{\circ}$ East

44.00 Dry Arroyo 160 lks wide
60. East

80.00 Set a Lava stone $25 \times 13 \times 6$
17 inches in ground and mark.
ed 44 on the South and C.R.I.R.
on the north for 44" mile Cor.
Surface broken and stony
Soil 3^d rate. Vegetation
a few Mesquit & Creosote bushes

Colorado river Indian Reserve

Chains

N 13.3' W on 45" mile

Va 14° East

80.00 Set a Lava stone 23x12x10 on stony ground in a mound of stone and marked 45 on the south and C.R.I.R. on the north for 45" mile Cor.
Surface rolling.

Soil gravelly 3^d rate

N. 13.3' W. on 46" mile

Va 14° East.

80.00 Set a Sandstone 16x14x6 on stony ground in a mound of stone, and marked 46 on the south and C.R.I.R. on the north for 46" mile Cor.

Surface rolling & stony
Soil 3^d rate.

East Boundary of the

Chains

N $13^{\circ} 3'$ W. on 47" mileVa 14° East

80.00 Set a Granite $20 \times 16 \times 10$ on stony ground in a mound of stone and marked "47" on the south and C.R.I.R. on North for 47" mile Cor.

Surface rolling.

Soil gravelly 3^d rate.

Vegetation Mesquit bushes & Cactus

N $13^{\circ} 3'$ W on 48" mileVa 14° East

44
14.00

Foot of very rough mountain bears N.E. & S.W.

Measure 40.00 chs at right angles to the line to a point from which a line to Monument peak makes an angle of

Colorado river Indian Reserve

chains

15.16' $\cotang = 3.6637575 \times$
 40 = 146.55 distance to
 the peak

80.00 Place for Cor. in the moun-
 tains impossible to establish
 Surface very much broken
 soil 3^d rate.

N 13.3' W on 49" mile
 Va 14° E

80.00 Place for Cor. in the moun-
 tain, impossible to establish
 Surface very much broken
 soil stony 3^d rate

N 13.3' W on 50" mile
 Va 14° East

30.55 To the monument Peak which

East Boundary of the

Chains

is a column of igneous rock very regular in shape, resembling a light house, and is about 200 feet high and 50 feet diameter, standing on the shoulder of a volcanic mountain facing East.

Nov. 17th 1875

General Description

The East Boundary, to the 13th mile cor. lies along the crest of the La Paz Mountains which are of volcanic origin and very rugged and difficult of access. No water was found, and no timber of any value, the vegetation being confined to a scanty growth of Mesquit Palo Verde, Creosote

Colorado river Indian Reserve

Chains

bushes and cactus.

From the La Paz range to the Black mountain on the 38th mile, the country is a rolling sandy plain with sparse vegetation and no water. broken in a few places by low hills of volcanic rock.

From Black mountain to the Colorado river on the 43rd mile the surface is stony and gravelly and very much cut up by washes and deep arroyos. At the point where the line crosses the river, the mountains lie near and there is no valley or bottom the country on the west side end to Monument peak. on the 50th mile being rough

Chains.

and stony. No minerals
were seen along the line ex-
cepting slight indications East
of the 13" mile cor. of placer gold.

N. W. Boundary Col. river Ind. Reserve

Chains

From a point on the line
between Monument Peak
and the Riverside Mountain
bearing $S 38^{\circ} 45' W$ I measure
at right angles to this line
a Base of 50 chains to a
point from which a line to
Monument peak makes an
angle of $16^{\circ} 10'$ Cotangent =
 $3.447512 \times 50 = 172.47$ Chs
Distance from Monument
Peak.

$S 38^{\circ} 45' W$ on 3^d mile.
Va 14° East

12,47 Foot of Mountain bears $E \& W$
80.00 Set a granite $20 \times 10 \times 8$ 15 inches
in ground and marked on the
N.E. "3" and S.W. "C.R.I.R."
for 3^d mile cor.
Broken, rocky and 3^d rate

N. W. Boundary of the

Chains

S $38^{\circ}45'$ W on 4" mile
Va 14° East

80.00 Set a granite $18 \times 18 \times 6$ on
stony ground in a mound of
stone and marked on the N.E.
"4" and on the S.W. C.R.I.R.
for fourth mile cor.
Surface broken and stony
Soil 3^d rate

S $38^{\circ}45'$ W. on 5" mile
Va 14° East

80.00 Set a Lava stone $24 \times 12 \times 6$ on
stony ground in a mound of
stone and marked "5" on the
N.E. and C.R.I.R. on the S.W.
for fifth mile cor.
Surface broken and rocky
Soil 3^d rate.

Colorado river Indian Reserve

Chains

S $38^{\circ}45'W$ on 6" mileVa 14° East46.00 A dry Arroyo 4.60 chs wide
course East80.00 Set a granite $24 \times 14 \times 5$ in stony
ground in a mound of stone
and marked "6" on the N. E. and
C.R.I.R. on the S.W. for sixth
mile Cor.Surface stony soil 3^d rateS $38^{\circ}45'W$ on 7" mileVa 14° East80.00 Set a granite $20 \times 16 \times 10$ on
stony ground in a mound
of stone, and marked "7"
on the N. E. and C.R.I.R.
on the S.W. for seventh
mile Cor.

Nov. 18" 1875

N. W. Boundary of the

Chains

Surface rolling.

Soil gravelly 3^d rate.

S 38° 45' W on 8" mile

17.12 Va 14° East

17.12 A deep dry Arroyo 13 Ch wide
course South

47.00 Dry Wash 1.40 lks wide, course S.E.

80.00 Set a granite 24x16x10 on stony
ground in a mound of stone and
marked "8" on the N.E. and C.R. I.R.
on the S.W. for Eighth mile cor.
Land level, gravelly. 3^d rate

S 38° 45' W on 9" mile

Va 14° East.

14
4.10 Dry Arroyo 1.90 wide course East33
3.00 Dry Arroyo 100 lks. wide course S. E.80
10.00 Set a granite 22x12x6 on stony
ground in a mound of stone
and marked "9" on the N.E. and

Colorado river Indian Reserve

Chavis

C.R.I.R. on the S.W. for ninth
mile cor.

Rolling gravelly 3^d rate

S 38.45 W on 10th mile
Va 14° East.

80.00 Set a granite 26x16x10 on stony
ground in a mound of stone
and marked 10 on the N.E.
and C.R.I.R. on the S.W.
for tenth mile cor.

Land rolling gravelly 3^d rate

S 38°45' W on 11th mile
Va 14° East

47.00 Dry Wash 4.20 chs wide to S.E.

80.00 Set a granite 22x16x6 on stony
ground in a mound of stone and
marked 11 on the N.E. and C.R.
I.R. on the S.W. for eleventh

N. W. Boundary of the Chains.

mile cor.

Land rolling, gravelly 3^d rate

S $38^{\circ}45'$ W on 12" mile

va 14° East

49.50 Dry ditches 1.80 chs wide, cor. S. E.

30.00 Set a granite $16 \times 8 \times 4$ on stony ground in a mound of stone and marked 12 on the N. E. and

C. R. I. R. on the S. W. for twelfth mile cor.

Land rolling gravelly 3^d rate

S $38^{\circ}45'$ W on 13" mile

va 14° East

80.00 Set a granite $16 \times 8 \times 4$ on stony ground in a mound of stone and marked 13 on the N. E. and C. R. I. R. on the S. W. for thirteenth mile cor.

Colorado river Indian Reserve.

Lohans

Land rolling gravelly 3^d rate
Vegetation, a few Mesquit
and Creosote bushes.

S 38° 45' W on 14" mile
Va 14° East.

65.00 Arroyo 2.00 Chs wide Co. S. E.

80.00 Set a granite 14X12X4 on
stony ground in a mound of stone
and marked "14" on the N.E. and
C.R.I.R. on the S.W. for
fourteenth mile cor.

Land level gravelly 3^d rate
A few Mesquit and Creosote
bushes along the line.

S 38° 45' W on 15" mile
Va 14° East

43.00 Arroyo 2.00 Chs wide Co. S. E.

58.00 Arroyo 3.00 Chs wide Co. S. E.

N. W. Boundary of the

Chanis

80.00 Deposited marked stone, set Palo Verde post $5\frac{1}{2}$ feet long and 4 inches square. 2 feet in ground and marked 15 on the N. E. and C.R.I.R. on the S. W. dug pits on line 15 inches square and 12 inches deep. and raised mound of earth $\frac{1}{2}$ feet high and 6 feet dia. for fifteenth mile cor. Land level gravelly 3^d rate
Nov. 19th 1875

S. $38^{\circ}45'$ W on 16" mile
Va 14° East

140.00 Arroyo 10 Chs wide Co S. E.

59.00 Arroyo 2 Chs wide Co S. E.

30.00 Deposited marked stone
Set Palo Verde post $5\frac{1}{2}$ feet long and 4 inches square. 2 feet in ground, and marked 16 on the N. E. and C.R.I.R. on

Colorado river Indian Reserve

Chains

the S.W. dug pits on line
18 inches square and 12 inches
deep and raised mound of earth
2½ feet high for 16th mile Cor.
Land level gravelly 3^d rate

S 38° 45' W on 17" mile Cor.

Va 14° East

48.00 Arroyo 11.70 Chs. wide course S.

80.00 Deposited a marked stone set
Mesquit Post 4 inches square
and 5½ feet long 2 feet in
ground and marked "17" on
the N.E. and C.R. 1. R on S.W.
for ~~seventeenth~~ mile cor.
Land level gravelly 3^d rate.

S 38° 45' W on 18" mile

Va 14° East.

26.00 Dry Arroyo course S. E.

N.W. Boundary of the

Chambers

49.00 Leave same 23.00 chs. wide
 80.00 Set a Lava 16x12x8 on stony
 ground in a mound of stone
 and marked 18 on the N.E.
 and C.R.I.R. on the S.W.
 for Eighteenth mile cor.
 Land, level, gravelly 3^d rate.

S 38° 45' W on 19" mile
 Va 14° East

80.00 Set a granite 10x10x10 on stony
 ground in a mound of stone
 and marked 19 on the N.E.
 and C.R.I.R. on the S.W.
 for the Nineteenth mile cor.
 Land level gravelly 3^d rate.

S 38° 45' W on 20" mile
 Va 14° East

80.00 Set a granite 12x12x12 on
 stony ground in a mound

Colorado River Indian Reserve

chains

of stone and marked 20 on
the N.E. and C.R.I.R. ^{on S.W. side} for
Twentieth mile cor.
Land level gravelly 3^d rate

S. $38^{\circ} 45'$ W on 21st mile
Va 14° East

50.00 Set a granite $20 \times 7 \times 5$ on
stony ground in a mound of
stone and marked 21 on the
N.E. and C.R.I.R. on the
S.W. for 21st mile cor.
Land level gravelly 3^d rate
Nov. 20th 1875

S. $38^{\circ} 45'$ W on 22nd mile
Va 14° East

53.00 Foot of Riverside mountain
bears N. and South measure
line at right angles 56 chs.
to a point from which a

N. W. Boundary of the

Chains

line to the highest point
of the mountain makes an
angle of $16^{\circ}58'$ Cotangent =
 $3,2776715 \times 56 = 183.55$ the
distance to the top of the mountain
80.00 Place for cor in the mountain
impossible to establish
Land broken rocky 3^d rate

S $38^{\circ}45'$ W on 23" mile
Va 14 East

80.00 Place for cor in mountain
impossible to establish
Land broken rocky 3^d rate

S $38^{\circ}45'$ W. on 24" mile
Va 14 East

76.55 Summit of riverside mountain
a high rugged peak.
Land broken rocky 2^d rate

Colorado river Indian Reserve.

Charns

General description.

The country between Monument Peak and Riverside mountain along the line is a high gravelly plain descending S.E. toward the Colorado river, and is very much cut up by washes and arroyos. It is destitute of water and of timber except a scrubby growth, in places, of Mesquit Palo Verde and Creosote bushes.

The field notes of the San Bernardino Base line, and of T. 1 N. R 24 E. furnished by the Department, indicate very few crossings of Arroyos or washes, and as, after a long and diligent search I was unable to find any of the

N.W. Boundary Col. river Ind. Reserve

Chains

monuments described therein, it is very probable that since the survey of those lines the face of the country has been very much changed, and that the corners have, many of them, been washed away or covered up, by the degradation of the loose gravelly soil.

From bearings on monument peak, as given in the field notes of the San Bernardino Base line I located the point where the boundary line of the Reserve should cross it, and the section lines in T. 1. N. R. 24 E. and made explorations by course and measurement. to find contiguous corner monuments, but with out success

Nov. 21st 1875

West Boundary Col. river Ind Reserve.

Chains

From the Initial post on the
South Boundary of the Reserve
at the mouth of the Arroyo La.
Paz I run, on the West boundary
N $2^{\circ}35'$ W on the 1st mile

Var 14° East

80.00

Deposited a marked stone
planted a Willow post $5\frac{1}{2}$ feet
long and 4 inches square 2
feet in ground, and marked "1"
on the South and C R I R. on
the North, dug two pits 18
inches square and 12 inches deep
on line, and raised mound of
earth $2\frac{1}{2}$ feet high and 6
feet in dia for 1st mile Cor.
Land level 1st rate bottom
Timber Willow and Cottonwood
Arrow wood and Mesquit

West Boundary of the

Chains

N 2° 35' W on 2^d mile
Va 14° East

52.00 Slough with water, 10 lbs wide
bears N.E. and S.W.

80.00 Deposited a charred stake,
planted Willow post 5½ feet
long, and 5 inches square, 2
feet in ground, and marked
2 on the south and C.R.I.R. on
the north, dug two pits 18 in.
square and 12 in. deep on line
and raised ground of earth
2½ feet high for 2^d mile cor.
Land level 1st rate bottom
Timber Mesquit willow and
Cottonwood, screw bean and
Arrowwood

Colorado River Indian Reserve.

Chains

N 2° 35' W on 3^d mile

Ta 14° East.

80,00

Deposited Charred stake
planted Willow post 5½
feet long and 5 in. square
2 feet in ground and marked
B on the South and C.R.I.R.
on the North dug two pits
18 in. square and 12 in deep.
on line raised mound of earth
2½ feet high and 6 feet dia
for 3^d mile Cr.

Land level 1st rate bottom
Timber Mesquit Willow
Cottonwood and Arrowwood

West Boundary of the

Chains

N 2, 35' W on 4" mile

Va 14 East

79.00 Edge of slough bears E and W

80.00 Place for cor. in the slough.

I therefore mark for a witness

cor. a willow 6 in dia W.C.

"3" on the south and "C.R.I.R."

on the north, 100 lbs south of cor.

A Willow 4 in dia bears S 48 E

16 lbs dist

A Willow 6 in. dia bears N 82 W

18 lbs dist.

Land level 1st rate bottom

Timber Cottonwood, Willow

Mesquit and Arrowwood.

Colorado river Indian Reserve

Chains

N 2°. 35' W on 5" mile

Va 14° East

1,28 Leave the Slough bears E and W

80.00 Deposited a charred stake

Planted a Willow post 5½
feet long and 5 in. dia, 2
feet in ground, and marked
5 on the south and C.R.I.R.
on the north. dug two pits
18 in. square and 12 in. deep,
and raised mound of earth
2½ feet high and 6 feet dia.
for 5' mile cor.

Land level 1st rate.

Timber Mesquit Arrowwood
and Willow.

West Boundary of the

Chains

N 2° 35' W on 6" mile

Va 14° East

26.00

Slough 60 lks wide bears E
and W

80.00

Deposited a marked stone
set a Mesquit Post $5\frac{1}{2}$
feet long and 5 inches square
2 feet in ground and marked
6 on the south and C.R.I.R.
on the north. dug two pits
18 in square and 12 in. deep.
on line, raised mound of
earth $2\frac{1}{2}$ feet high and 6
feet dia. for 6" mile cor.
Land level $\frac{1}{2}$ rate bottom
Timber Mesquit Arrowwood
Willow and Cottonwood.

Colorado River Indian Reserve

Chains

N $2^{\circ} 35'$ W on 7" mileVa 14° East

74.00 Left bank of the Colorado river
course South and S.W.

Make an offset of 3.00 chs. to the
right to avoid the bend of the
river, thence N $2^{\circ} 35'$ West on off-
set line.

86.00 Place for the cor. in the river
I therefore set a Willow post
5 $\frac{1}{2}$ feet long 4 inches square
2 feet in ground, and marked
"W. C." "7" on the south and C.R.
I.R. on the north. dug pit 18
in square and 12 in. deep. raised
mound of earth 2 $\frac{1}{2}$ feet high
and 6 feet dia. for witness cor.
to the 7" mile cor. and 6.00 chs
back S $2^{\circ} 35'$ E on line, from
true place for cor.

West Boundary of the

Chains

Land level 1st rate bottom

Timber Cottonwood Willow Mesquite and Arrowwood

N 2° 35' W on offset line
on 8" mile

va 14° East

2.50 Sandy slough, bears N.W. and S.E.

9.50 Leave same 7.00 chs wide

10.00 Offset to the left at right angles 3.00 chs to line on left bank of the river thence

N 2° 35' W along the line

80.00 Deposited a marked stone and set cottonwood post 5 1/2 feet long and 5 in dia 3 feet in ground and marked S on the South and C.R. I.R. on the north for 8' mile Cor. from which

A Willow 10 in. dia bears S 30° W 16 lks.

Colorado River Indian Reserve.

Chazis

* Cottonwood 20 in. dia. bears N 33° E 33 lks.
 Land level 1st rate bottom
 Timber Cottonwood, Willow, Mes-
 quit and Arrowwood

N 2° 35' W on 9" mile
 Va 14° East

37.00 Slough 2.50 wide, bears E & W

86.00 Drove a charred stake, set a
 Cottonwood post 5½ feet long and
 5 inches square, 2½ feet in ground
 and marked 9 in the south and
 C.R.I.R. on the north. dug two
 pits 15 in square and 12 in.
 deep on line, and raised mound
 of earth 2½ feet high and 6 feet
 dia. for 9" mile cor.

Land level 1st rate bottom

Timber. Willow Cottonwood Mesquit
 and Arrowwood

Nov. 23" 1875

West Boundary of the

Chains

N 2.35' W on 10" mile

Va 14° East

80.00

Drove a charred stake, set a cottonwood post $5\frac{1}{2}$ feet long and 5 in. square $2\frac{1}{2}$ feet in ground, and marked 10 on the south and C.R. 1.R. dug 2 pits 18 in square and 12 in deep on line, and raised mound of earth $2\frac{1}{2}$ feet high and 6 feet dia. for 10" mile cor.

Land level sandy bottom, 2^d rate
Timber Cottonwood Willow Mesquit and Arrow wood.

N 2.35' W on 11" mile

Va 14° East

80.00

Drove charred stake, set Willow post $5\frac{1}{2}$ feet long and 5 in. square 2 feet in ground

Colorado River Indian Reserve

chains

marked "11" on the south and
 "C. R. I. R." on the North, dug two
 pits 18 in. square and 12 in.
 deep on line, and raised mound
 of earth $2\frac{1}{2}$ feet high and 6
 feet diam. for 11th mile cor.
 Land level 1st rate bottom.
 Timber, Cottonwood, Willow,
 and Arrowwood.

N 2, 3.5 W on. 12th mile
 Va 14° East

25.00 Slough 100 chain wide, course
 S. W.

80.00 Drove chained stake, set
 Mesquit post $5\frac{1}{2}$ feet long
 and 5 in. square, 2 feet in
 the ground, marked 12 on
 the South and C. R. I. R.
 on the North, dug 2 pits 18

West Boundary of the

Cherries

inches square and 12 in. deep
and raised mound of earth $2\frac{1}{2}$
feet high and 6 feet diam.
for 12" mile Cor.

Sand level ^{1st} rate bottom
"Juniper Cottonwood, Willow
and Arrowwood

N $2^{\circ}35'$ W on 13" mile

Pa 14° East

80.00 Drove charred stake, Set Mes-
quite post $5\frac{1}{2}$ feet long and 5 in.
square, 2 feet in ground,
marked 13 on the South, and
"C. R. 1. R." on the North, dug 2
pits 18 in. square and 12 in. deep and
raised mound of earth $2\frac{1}{2}$ feet high
and six feet diam. for 13" mile Cor.
Sand level bottom, soil ^{1st} rate
"Juniper Cottonwood Willow and
Mesquite.

Colorado River Indian Reserve

Chains

N 2° 35' W on 14" mile

Va 14° East

80.00 Drove charred stake, set Mesquit post $5\frac{1}{2}$ feet long and 5 in. dia. 2 feet in ground marked 14 on the south and C.R.I.R. on the north, dug 2 pits 18 in. square and 12 in. deep, and raised mound of earth $2\frac{1}{2}$ feet high and 6 feet in dia. for 14" mile Cor. Land level 1st rate bottom

Timber Mesquit and arrowwood

N 2° 35' W on 15" mile Cor.

Va 14° East.

80.00 Drove charred stake, set Mesquit post $5\frac{1}{2}$ feet long and 5 in. dia. 2 feet in ground marked 15 on the south and

West Boundary of the

Chains

C.R. I.R. on the north, dug 2 pits 18 in. square and 12 in. deep, on line, and raised mound of earth $2\frac{1}{2}$ feet high and 6 feet dia. for 15" mile cor. Land level 1st rate bottom. Timber Mesquit. Willow Cottonwood, with Arrowwood and wild Hemp.

N $2^{\circ} 35'$ W on 16" mile
Va 14° East

80.00 Drove charred stake, set Mesquit post $5\frac{1}{2}$ feet long and 5 in. dia. 2 feet in ground marked 16 on the south and C.R. I.R. on the north, dug 2 pits 18 in square and 12 in. deep, raised mound of earth $2\frac{1}{2}$ feet high and 6 feet dia.

Colorado River Indian Reserve

Chains

for 16th mile Cor.

Land level 1st rate bottom

Timber Mesquit Cottonwood
and Willow, with arrowwood
and Wild Hemp.

N 2° 35' W. on 17th mile

Via 14° East

86.00

Drove charred stake, set
mesquit post 5 1/2 feet long and
5 in. square. 2 feet in ground
marked "17" on the South and
C.R.I.R. on the north, dug
2 pits 18 in. square and 12
in deep, on line, and raised
mound of earth 2 1/2 feet high
and 6 feet dia. for 17th mile Cor.
Land level 1st rate bottom
Timber Cottonwood, Willow and
Mesquit, with Arrowwood and Hemp.

West Boundary of the

Chains

N 2° 35' W on 18" mile
Va 14° East

80.00 Drove charred stake, set
Mesquit post 5½ feet long and
5 in. dia. 2 feet in ground.
Marked 18 on the south and
C.R.L.R. on the north, dug 2
pits 18 in. square and 12 in.
deep on line and raised mound
of earth 2½ feet high and 6
feet dia. for 18" mile Cor.

N 2° 35' W on 19" mile
Va 14° East

80.00 Drove charred stake, set
Willow post 5½ feet long, and
5 in. dia. 2 feet in ground
Marked 19 on the south and
C.R.L.R. on the north, dug
2 pits 18 in. square and 12 in.

Colorado River Indian Reserve

Chains

deep. on line, and raised
 mound of earth $2\frac{1}{2}$ feet high
 and 6 feet dia. for 19th mile cor.
 Land level 1st rate bottom
 Timber Arrow wood, Willow
 Cottonwood and Mesquit

N 2° 35' W on 20th mile

Va 14° East

80.00 Drove charred stake, set
 a Willow post $5\frac{1}{2}$ feet long
 and 5 in. square, 2 feet in
 ground, marked 20 on the
 South and C.R.I.R. on the
 North, dug 2 pits 18 in square
 and 13 in. deep on line, and
 raised mound of earth $2\frac{1}{2}$ feet
 high and 6 feet dia for 20th
 mile cor.

Land level 1st rate bottom
 Timber Mesquit.

West Boundary of the

Chains

Timber Mesquit Willow and
Cottonwood, with Arrowwood
and Wild Hemp

Nov. 24th 1875

N 2° 35' W on 21st mile

va 14 East

80.00

Drove a charred stake and
set a Cottonwood post 5 1/2 feet
long and 5 in square 3 feet
in ground. marked 21 on the
South and C.R.I.R. on the
north for 21 mile cor.

from which a Cottonwood 10 in.
dia bears S 40° W 10 lks

A Cottonwood 6 in dia bears

N 11° E 53 lks.

Land level 1st rate bottom

Timber Cottonwood Willow and
Mesquit with Arrowwood
and Wild Hemp.

Colorado River Indian Reserve

Chains

N 2° 35' W on 2.2 mile

Va 14° East

-80.00 Drove charred stakes, set
Cottonwood post 5 1/2 feet long
and 5 in dia 3 feet in ground
marked 2.2 on the south
and C.R.I.R. on the north
for 2.2 mile cor. from which
A cottonwood 16 in. dia
bears S 18° E 14 lks
A cottonwood 7 in. dia.
bears S 80 W 2.7 lks.

Land level 1st rate bottom
Timber Cottonwood, Willow
and Mesquit, with creosote wood
and Wild Hemp.

West Boundary of the

Chains

N 2° 35' W. on 2.3" mile
Va 14° East

51.50 Left bank of the Colorado river
flows west. high sandy bank.
swift current and about
8 feet deep in channel.

Drove charred stake, set
cottonwood post 8 feet long
and 6 in. dia 3 feet in ground
marked "22,64, M.C." on the
south and C.R.I.R. on the
north. dug pit 18 in square
and 2 feet deep on line and
raised mound of earth 3 feet
high and 7 feet dia for Meas.
corner.

Set a flag on opposite side
Measure a base 6.80 Chs. at
right angles to line to a point
from which line to flag makes

Colorado River Indian Reserve

Chains

an angle of $20^{\circ}, 56'$ $\text{Cotang} =$
 $2.6141766 \times 6.80 = 17.79 \text{ Chs.}$

69.28

Across river to Sand bar.

80.00

Place for Cor. on the bar,
 Land level 1st rate bottom
 Timber Cottonwood Willow, Mes-
 quit, with arrowwood and
 wild hemp.

N. $235'$ W on $24'$ mile

Va 14° East

52.00

Leave bar and ascend right
 bank of river bears East & West
 Drive charred stake and set
 Willow post 7 feet long and 6 in-
 dia $2\frac{1}{2}$ feet in ground, marked
 $23,65$ M.C. on the South and
 C.R.I.R. on the north - dug pit
 18 in. square and 2 feet deep,
 and raised mound of earth

West Boundary of the.

Chains

3 feet high for Meander Cor.
 80.00. Set a granite $20 \times 10 \times 8$ on
 stony ground in a mound of stone
 marked 24 on the south and
 C.R.I.R. on the north for 24"
 mile Cor.
 Land level - sandy 3^d rate
 No timber.

N $2^{\circ} 35'$ W on 25" mile
 Va 14° East
 66.00 Foot of River side mountain
 Measure a base of 30.00 chs. at
 right angles to the line, to a
 point from which a line to the
 summit of the mountain makes
 an angle of 16° $\text{Cotang} =$
 $3.4874144 \times 30 = 104.62$ chs.
 distance to highest point of Mt.
 80.00 Place for the cor. on the mount-

Colorado River Indian Reserve

Chains

air. It is impossible to establish it.
Land Broken rocky 3^d rate
No timber on line

N 2,35' W on 26" mile

Va 14° East

80.00

Place for Cor. on mountain
Land very rough and broken
rocky 3^d rate. No timber

N 2,35' W on 27" mile

Va 14° East

10.73

Highest point of Riverside
mountain

Surface rough and broken.
very rocky. No timber.

Nov. 25th 1875-

West Boundary of the

General Description

The country along the West Boundary is the valley of the Colorado river, the line running within three miles of the river every where, ~~touching it~~ on the seventh mile and crossing on the twenty third.

The land on the east side of the river is level, with a rich deep soil, and is covered with a dense growth of brush, including young cottonwoods and willows, Mesquit and "Arrow" wood and, in places wild hemp. Much of the bottom is subject to annual overflow.

From the 23rd mile cor on the west side of the river, to the end of the line, the surface is rocky

Colorado River Indian Reserve.

and broken, with out vegetation
or water

U. S. Surveyor General's Office,

TUCSON, ARIZONA, May 12, 1876.

The foregoing Field Notes of the Survey of the

Exterior Boundaries of the
Colorado River Indian Res-
ervation, Arizona and Cali-
fornia,

~~Of the Gila and Salt River Basins and Meridian, Arizona,~~ execu-
ted by Chaudler Robbins

Deputy Surveyor, under his contract of the 26th
day of May, 1875, having been
critically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe
are hereby approved.

Surveyor General.