

This survey was performed at the request of the Malheur National Forest from September of 1995 to December 1996. The purpose of which was to locate original G.L.O. corners in T.17S., R.36E., W.M. that have not been previously found. The U.S.F.S. provided a Pathfinder G.P.S. unit to locate search areas and corners that have been found. The positions as determined by this method are approximate (accuracy approximately $\pm 30'$ radius).

The south boundary of this TWP. was originally surveyed by John W. Meldrum under a joint contract with David P. Thompson completed July 3, 1875.

The north boundary of this TWP. was originally surveyed by Henry Cooke under G.L.O. contract No. 422, completed November 24, 1881.

The east boundary of this TWP. was originally surveyed by Henry Cooke under G.L.O. contract No. 418, completed October 17, 1881.

The west boundary of this TWP. was originally surveyed by Henry Cooke under G.L.O. contract No. 488, completed October 8, 1883.

The subdivision of this TWP. was originally surveyed by William R. Gradon under G.L.O. contract No. 497, completed July 26, 1884.

The following corners were previously found by the U.S.F.S., coordinates were established by G.P.S., and they were remonumented by this firm:

Section corner for sections 10,11,14 & 15, T.17S. R.36E.

1/4 Section corner for sections 14 & 15, T.17S. R.36E.

Section corner for sections 14,15,22 & 23, T.17S. R.36E.

Section corner for sections 22,23,26 & 27, T.17S. R.36E.

Section corner for sections 26,27,34 & 35, T.17S. R.36E.

1/4 Section corner for section 32 & 5, T.17S. & T.18S., R.36E.

Section corner for sections 32,33,4 & 5, T.17S. & T.18S., R.36E.

1/4 Section corner for section 33 & 4, T.17S. & T.18S., R.36E.

Based on the G.P.S. coordinates established for the found corners as shown, a preliminary search area is established based on G.L.O. notes, proportioned positions and topo calls. As more corners are found, search areas are refined. A control traverse was run along the Range line between R.36E. and R.37E. and adjusted to fit G.P.S. coordinates established at each end. This traverse was used to search corners along this range line. A detailed description for corners searched follows.

Index No. G-17
1/4 SECTIONS 10 & 11
This corner was searched for extensively on three different occasions. The first search was based on record from the found corner 1/2 mile south. This area was refined after the corner 1/2 mile north was found and a second search was made. The third and final search was made encompassing both previously established search areas. The search area fits the topo call (ridge 660' south) well. 70' south of the search area there is a new E-W fence with an area cleared 10' on each side. There are not many stones in the area. This corner believed to be lost to fencing activities.

Index No. E-17
SECTION CORNER FOR SECTIONS 2,3,10 & 11
Upon initial search for this corner, no evidence was found. After refining the search area based on the found corners 1 mile north and 1 mile south, the original corner stone was found and monumented.

Index No. E-15
1/4 SECTIONS 3 & 10
This corner was initially searched based on record from the found corner 1/2 mile east (secs. 2,3,10 & 11). A position for the corner to sections 3,4,9 & 10 was calculated based on record distances from the found corner to section 33,34,3 & 4 and the found corner to sections 2,3,10 & 11. From this calculated position, a refined search area for this corner was determined and another search was made. A very large area was searched and no evidence of this corner was recovered.

Index No. E-13
SECTION CORNER FOR SECTIONS 3,4,9 & 10
The initial search for this corner was based on the found corner 1 mile east. No evidence found for this search area. A position was calculated based on record distances from the found corner 1 mile north and 1 mile south. A search was made 200' south of the original search area. A definite draw bottom, course westerly, was not called in the G.L.O. notes. The record stone size (12x10x6) does not seem valid on a slope abundant with good corner stones. An extensive search was made for this corner, no evidence of this corner was found.

Index No. E-25
SECTION CORNER FOR SECTIONS 1,6,7 & 12 T.17S, R.36E & R.37E
This corner was searched based on the record position from the found corner 1 mile north and the found corner 1 mile south. This search area fit topo call (12.25 Chs. north of canyon) well. Search falls on steep slope, and a search was made at the bottom of the slope for the stone. No evidence of this corner was found.

Index No. G-25
1/4 SECTION 12 & 7, T.17S, R.36E & R.37E
This corner was searched based on the record position from the found corner 1-1/2 miles north and the found corner 1/2 mile south. The search area falls on a steep talus slope. No evidence of this corner was found. This corner is believed to be lost to erosion over time.

Index No. J-25
SECTION CORNER FOR SECTIONS 12,7,18 & 13, T.17S, R.36E & R.37E
The search area for this corner was based on record from the found corner 2 miles north. Found the original stone and recorded a G.P.S. coordinate. This corner was found 50' S.W. of the calculated search position.

Index No. L-25
1/4 SECTIONS 13 & 18, T.17S, R.36E & R.37E
The search area for this corner was based on record from the found corner 1/2 mile south and the found corner 1/2 mile north. Found the original stone at record topo call (rocky ridge 9 Chs. north). Could not get a G.P.S. position on this corner. Calculated a coordinate for this corner based on the control traverse.

Index No. C-21
1/4 SECTIONS 2 & 1
The search area for this corner was based on record from the found corner 1/2 north and the calculated position for the corner 1/2 mile south. This search area fits topo calls, ridge 14.5 Chs. south and draw 10.25 Chs. north, very well. This area is on a steep, erosive NE slope. No evidence of this corner was found.

Index No. E-21
SECTION CORNER FOR SECTIONS 2,1,11 & 12
The search area for this corner was based on record from the found corner 1 mile north, the found corner 1 mile west, the calculated position of the corner 1 mile east and the topo call to the Little Malheur River, 16.9 Chs. east. Searched a very large area for this corner. No evidence of this corner was found.

Index No. E-23
1/4 SECTIONS 1 & 12
The search area for this corner was based on the search positions for the corners 1/2 mile east & west. Found a mound of stones containing many stones of call size. There are no other stones in the immediate area. Established G.P.S. position for the mound of stone and found it 4' at record distance from the projected section line. This makes me believe that Gradon was stubbing out to his 1/4 corners. Accepted this mound as the original corner and remonumented.

Index No. J-23
1/4 SECTIONS 12 & 13
The search area for this corner was based on record from the found corner 1/2 mile east and the calculated search area for the corner 1/2 mile west. The search area falls in a jeep trail. An extensive search was made on both sides of the trail. No evidence of this corner found.

Index No. C-25
1/4 SECTION 1 & 6, T.17S, R.36E & R.37E
The initial search area for this corner was determined using a U.S.F.S. quad map and the topo call to a canyon 4.5 Chs. north of the corner. Measured south 1/2 mile from the found corner to sections 36,31,1 & 6, T.16S, T.17S, R.36E & R.37E to the initial search area. After an extensive search over a large area, no evidence was found.

Index No. R-25
SECTION CORNER FOR SECTIONS 24,19,30 & 25, T.17S, R.36E & R.37E
The search area for this corner was based on record from the found corner 1-1/2 miles north. The area is steep and very rocky. The stones in the area are very rough and marks would be hard to distinguish. No evidence of this corner found.

Index No. Z-25
SECTION CORNER FOR SECTION 36,31,1 & 6, T.17S & T.18S, R.36E & R.37E
The search area for this corner was based on the control traverse as mention above. Found a 38"x14"x7" (40"x12"x7" record) stone in a large rock crib. This stone has no visible marks. This is the only stone of this size in the area. The overall distance of the township line (31,488 measured, 31,680' record) fits reasonably well. The corner 1-1/2 miles east was found and the distance to it was found to be 7832' (record 7820'). Accepted the rock crib as the best evidence for this corner.

Index No. X-25
1/4 SECTION 36 & 31, T.17S, R.36E & R.37E
The search area for this corner is based on the found corner 1/2 mile south. Found the original stone marked 1/4 near the top.

Index No. V-25
SECTION CORNER FOR SECTIONS 25,30,31 & 36, T.17S, R.36E & R.37E
The search area for this corner was based on record from the found corner 1 mile north. Search area fall near a south-west rock crib fence corner. No stone in the crib could be identified as the corner stone. No evidence of this corner found.

Index No. N-25
SECTION CORNER FOR SECTIONS 13,18,19 & 24, T.17S, R.36E & R.37E
The search area for this corner was based on record from the found corner 1/2 mile north and the found corner 2-1/2 miles south. There are 5 rock cribs for fence corners in this area. All stones close to record size were examined. This search area fits the topo call, leave bottom 5 chs. south. However it does not fit the call to the creek, 8 chs. west. This corner believed to be lost to fencing activities over the years.

Index No. N-23
1/4 SECTIONS 13 & 24
The search area for this corner was based on the projected positions of the corners 1/2 mile east and 1/2 mile west. The search area is near the end of a fence heading east and a jeep trail runs through the center of the search area. This corner believed to be lost to fencing and/or the trail.

Index No. P-25
1/4 SECTION 24 & 19, T.17S, R.36E & R.37E
The search area for this corner was based on the found corner 1 mile north and the found corner 2 miles south. Search areas fall on a steep, erosive east slope. This corner believed to be lost to erosion.

Index No. T-25
1/4 SECTION 25 & 30, T.17S, R.36E & R.37E
The search area for this corner was based on the found corner 2 miles north and the found corner 1 mile south. This search area fall on a steep slope and is littered with stones of record size. There are no discernable mounds in the area. No evidence of this corner found.

Index No. V-23
1/4 SECTIONS 25 & 36
The search area for this corner was based on the projected positions of the corners 1/2 mile east and west. A E-W-N fence corner is in the center of the search area. This corner believed to be lost to fencing activities.

Index No. V-21
SECTION CORNER FOR SECTIONS 26,25,35 & 36
The search area for this corner was based on the projected position of the corners 1 mile east and 1 mile south and the found corner 1 mile north. Search area is a steep, erosive, rocky SE slope. A N-E fence corner and an old fence heading south at the center of the search area. This corner believed to be lost to fencing.

Index No. Z-21
SECTION CORNER FOR SECTIONS 35,36,1 & 2, T.17S & T.18S, R.36E
The search area for this corner was based on the found corner 2 miles north and the found corner 1 mile east. This position fits the call to the left bank of the river, 0.75 chs., east. Found an old mound of stone in a down, E-W fence with a stone near record size. No evidence of this corner found. This corner believed to be the remains of an old rock jack.

Index No. Z-19
1/4 SECTION 35 & 2, T.17S & T.18S, R.36E
The search area for this corner was based on record from the found corner 1-1/2 miles east. Found a 20"x18"x10" stone with 1/4 clearly visible near the top of the stone, in the center of a mound of stone. Accepted this as the original corner and remonumented this corner.

Index No. R-21
SECTION CORNER FOR SECTIONS 23,24,25 & 26
The search area for this corner was based on the projected positions for the corners 1 mile north, 1 mile south and 1 mile east. Found a mound of stone in an old S-W fence. This fence was a set post fence and no evidence of any rock jacks found along this fence. Several of the stones in the mound are near record size, but had no discernable marks. This mound of stone was accepted as the original corner and was remonumented.

Index No. J-21
SECTION CORNER FOR SECTIONS 11,12,13 & 14
The search area for this corner was based on record from the found corner 1 mile east and the projected position of the corner 1 mile south. This area is very rocky and no discernable mounds of stone were found. The area searched was very large, approximately 800'x500'. No evidence of this corner found.

Index No. N-21
SECTION CORNER FOR SECTIONS 13,14,23 & 24
The search area for this corner was based on record from the found corner 1 mile south and the projected position of the corner 1 mile north. This search area is a steep and very rocky east slope and it fits the topo call to a ridge 14.8 chs. to the west. No evidence of this corner was found and it is my belief that Gradon was never at this corner.

Index No. R-19
1/4 SECTIONS 14 & 23
The search area for this corner is based on record from the found corner 1/2 mile west. After finding the southwest corner, the south 1/4 corner and southeast corner to section 23, it is my belief that Gradon did not measure across the north mile of sections 35, 26, 23, 14, 11 and 2, but he stubbed out to the 1/4 corners. With this in mind, a large area was searched to encompass the record location mention above and the mid point position between the section corners. This search area is a rocky, scab ridge. No evidence of this corner was found.

Index No. R-1
SECTION CORNER FOR SECTIONS 19 & 30, T.17S, R.36E
This corner was reported to be found by the U.S.F.S. The evidence as reported by the U.S.F.S. turned out to be a natural outcropping of stone. After a brief search of the area, the remains of the original bearing trees were found and the corner was located at record distance from these remains and remonumented.

Index No. Z-2
W1/16 SECTION 31 & 6, T.17S & T.18S, R.36E
The search area for this corner was based on record from the found corner 1/4 mile east. This search area has seen a lot of activity, including logging. There is a collapsed roof covering a trench in the center of the search area. Found a mound of stones with the remains of a post in the center. Also found a 5/8" rebar pin stamped MAPS, PLS 128, 1987 M42E 140' from the mound of stone. This pin was set by M. Palmer, PLS 128, in 1987 at proportionate distance from the corner 1/4 mile east.

Index No. Z-3
1/4 SECTION 31 & 6, T.17S & T.18S, R.36E
Found a 20"x18"x8" stone with 1/2 visible, partially set in the ground. Found 5/8" rebar pin with an aluminum cap stamped MAPS, PLS 128, 1987 set beside the original stone. Accepted the pin as the corner position and remonumented this corner.

Index No. V-5
SECTION CORNER FOR SECTIONS 29,30,31 & 32
The search area for this corner was based on record from the projected position of the corner 2 miles south and from the found corner 1 mile west. The center of the search area falls 75' south of an E-W fence. 75' north and 220' east of this search area, found a U.S.F.S. "LOCATION POSTER" with section 30 cut out of the tag. The tag was marked T.17S R.36E Sec. Cor. with the initials "HJH & WSM" and dated 4, 1931. On the same tree as the location poster, there is a forest boundary sign. This is the only sign we can find in the area. No evidence of the original corner was found.

Index No. R-5
SECTION CORNER FOR SECTIONS 19,20,29 & 30
The search area for this corner was based on record from the projected position of the corner 2 miles south and from the found corner 1 mile west. The center of the search area falls 75' south of an E-W fence. 75' north and 220' east of this search area, found a U.S.F.S. "LOCATION POSTER" with section 30 cut out of the tag. The tag was marked T.17S R.36E Sec. Cor. with the initials "HJH & WSM" and dated 4, 1931. On the same tree as the location poster, there is a forest boundary sign. This is the only sign we can find in the area. No evidence of the original corner was found.

Index No. N-5
SECTION CORNER FOR SECTIONS 17,18,19 & 20
The search area for this corner was based on record from the projected position of the corner 3 miles south and from the found corner 2 miles east. The projected position for this corner does not fit the ridge call, 10 chs. south and would move the search area 500 to 600 ft. to the south. However, this projected position does fit the call to the river, 61 chs. north. A search was made at the projected position, at the base of the ridge, the topo call to the ridge south of the corner, and all the area in between. No evidence of this corner was recovered.

Index No. E-19
1/4 SECTIONS 2 & 11
The search area for this corner was based on record from the found corner 1/2 mile west. As previously stated, it is believed that Gradon was stubbing in his 1/4 corners. This position fits the ridge call, 15.9 chs. very well. The search area falls on a steep, rocky outcropping. No mounds of stone were found in this area. A very large area was searched, and no evidence of this corner was found.

Index No. J-15
1/4 SECTIONS 10 & 15
The search area for this corner was based on record from the projected position for the corner 1/2 mile west and the found corner 1/2 mile east. This area fits the topo call to a ridge top, 3.47 chs. west, but does not fit the call to a gulch, 29.7 chs. east. By moving the search area due north 600 ft., both topo calls fit. Both areas were searched extensively and no evidence of the original corner was found.

Index No. J-13
SECTION CORNER FOR SECTIONS 9,10,15 & 16
The search area for this corner was based on record from the found corners 1 mile east and 1 mile south. This search area does not fit the topo calls, 21.95 chs. west to a creek and 25.01 chs. east to a gulch. In order to fit these calls, the search area would have to move west 1/4 mile. This area was searched extensively and no corner evidence was found. I believe Gradon never measured to this corner.

Index No. Z-17
SECTION CORNER FOR SECTIONS 34,35,3 & 4, T.17S & T.18S, R.36E
The search area for this corner was based on record from the found corner 1/2 mile east. Found a 25"x10"x6" stone, set in a mound of stone, with 4 notches on one edge and 2 notches on the other edge. Accepted this as the original corner and remonumented it.

Index No. R-19
1/4 SECTION 23 & 26
Found a 14"x10"x6" stone, with faint but visible chisel marks on one face, in a mound of stones. No other mounds of stone in the area. This mound fit the topo call to a ridge 7.53 chs. to the west. Accepted this as the original corner and remonumented it.

Index No. Z-16
E1/16 SECTION 34 & 3, T.17S & T.18S, R.36E
The search area for this corner was based on record from the found corner 1/4 mile east. The search area falls in an area of rims that bench down toward the river. Found a 28"x14"x4" stone in a mound of stone at the base of a rim. No marks were found on the stone. Although the stone does not fit the call size there is no other reason for a mound of stone to be here near record size. No evidence of this corner was found. Accepted this as the original corner and remonumented it.

Index No. Z-15
1/4 SECTION 34 & 3, T.17S & T.18S, R.36E
The search area for this corner was based on record from the found corner 1/4 mile east. This area falls on a steep, rocky west slope. Searched over a very large area, no evidence of this corner was found. This corner believed to be lost to erosion.

Index No. V-19
1/4 SECTION 26 & 35
The search area for this corner was based on record from the found corner 1/2 mile west. This search area fits the topo call to the summit of a ridge, 14.4 chs. to the west. As previously mentioned, Gradon may have been stubbing out to 1/4 corners. An extensive search was made at this position and at the mid point between the found corner 1/2 mile west and the projected position for the corner 1/2 mile east. The search area falls on a very steep, rocky slope. This corner is believed to be lost to erosion and/or a slide.

Index No. N-13
SECTION CORNER FOR SECTIONS 15,16,21 & 22
The initial search for this corner was based on the surrounding topo calls. After a G.P.S. coordinate was established as a temporary search point, a search area was projected based on record from the found corner 1 mile east, the found corner 3 miles north, and the projected location for the corner 3 miles south. Found a 24"x8"x7" stone with 3 notches on the east edge and 3 grooves on the south face, 4' east of a mound of stone. Accepted this as the original corner and remonumented it. This corner fits the gulch call, 5 chs. north very well, but does not fit the topo call to Bear Creek, 14.85 chs. at all. The topo call to a ridge, 20.4 chs. east, does not fit as there is no real definable ridge in that direction.

Index No. R-23
1/4 SECTION 24 & 25
An attempt was made to climb this butte (Black Butte) and it was found to be nearly impassable. It is my belief that Gradon did not survey over this butte. The projected position of this corner, based on the found corner 1/2 west, places this corner on the east face of this butte. His topo calls fall on the wrong side of the butte. This corner has never been established.

Index No. C-17
1/4 SECTION 3 & 2
The search area for this corner was based on record from the found corners 1/2 mile north and 1/2 mile south. An extensive search was made over an area covering a 200' radius around the calculated position. No evidence of this corner was recovered.

Index No. E-5
SECTION CORNER FOR SECTIONS 5,6,7 & 8
The search area for this corner was based on record from the found corner 1 mile north and the topo calls, Gulch 3.5 chs. north and Ridge 30 chs. east. There are very few stones in this area. An extensive search was made, no evidence of this corner was recovered.

Index No. E-9
SECTION CORNER FOR SECTIONS 4,5,8 & 9
The search area for this corner was based on record from the found corner 1 mile north. The search area falls on a flat, rocky, south sloping ridge. An extensive search was made, no evidence of this corner was recovered.

Index No. J-9
SECTION CORNER FOR SECTIONS 8,9,16 & 17
The search area for this corner was based on record from the found corner 2 miles north and the found corner 2 miles east. The topo call for a gulch 2 chs. is completely ridiculous as the search area falls on a large, flat top ridge. A north-south jeep trail runs through the center of the search area. The topo call to a ridge 20.15 chs. west places the search area on the east side of the trail and record places the search area on the west side of the trail. An extensive search was made, no evidence of this corner was recovered.

Index No. Z-13
SECTION CORNER FOR SECTIONS 33,34,3 & 4, T.17S & T.18S, R.36E
The search area for this corner was based on record from the found corner 1/4 mile east and the found corner 1/2 mile west. An old, down east-west fence line is 75' north of the center of the search area. A 16" juniper tree that was cut down with an axe was found near the center of the search area, indicating human activity in this area. An extensive search was made, no evidence of this corner was recovered.

Index No. Z-14
W1/16 SECTIONS 34 & 3, T.17S & T.18S, R.36E
The search area for this corner was based on record from the found corner 1/4 mile east and the found corner 1/2 mile west. The search area falls on a steep, rocky slope, marked with 1/16 on the north face. This corner falls at the base of an east slope & 80' west of the North Fork of the Malheur River.

LEGEND

- ⊗ Found B.L.M. Brass Capped Monument.
- U.S.F.S. Found original evidence. Monumented by this firm.
- ⊙ Corner Searched, Original Evidence Found
- ⊕ Corner Searched, Original Evidence Found Monumented by this firm.
- Corner Searched, No Evidence Found
- △ Corner evidence found, see NARRATIVE

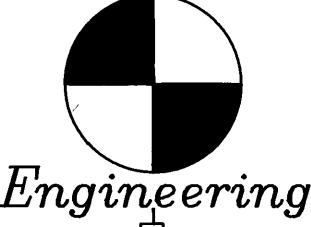


I, Douglas M. Ferguson, hereby certify that this is an exact copy of the plot as filed in Malheur County, Harney County and with the Malheur Nation Forest, U.S.D.A., Forest Service.

Douglas M. Ferguson

1-7-98
Date

Ferguson Surveying



Engineering

REGISTERED
PROFESSIONAL
LAND SURVEYOR

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ALL COORDINATES AND
COURSES ARE APPROXIMATE

