**VALUABLE**

RETURN TO
PUBLIC WORKS
OFFICE
CAMP LEJEUNE
NORTH CAROLINA

SUBJECT ELEV. WELL HOUSE
# RR-46 RIFLE RANGE

FIELD PARTY
DENNIS IN CHARGE
INSTRUMENT
NOTES
TAPE READ
TAPE OR ROD
TAPE OR ROD
INSTRUMENT NO.
TAPE NO.

WEATHER
CLEAR, CLOUDY, WINDY, RAIN, FAIR, SNOW, HOT, MODERATE, COLD, FOG

FIGURED BY
NOTES CHECKED BY
PLOTTED BY

FILE No.
FLDR. No.
SHEET 1 of 1
DATE 12-19 1957
Quad. No.

| STATION | DIST. | ANGLE ° ' " | + | H. I. BEARING | VER: ANG. DIFF. | ELEVATION | |
|---|---|---|---|---|---|---|---|
| B.m. | | | 346 59 56 | | | 56 10 | SPIKE IN P.P # 5R-2L S.E. SIDE OF RANGE Rd. BETEEN GUARD HOUSE AND BLDG. # RR-39 |
| T.P. | | | 362 56 09 | | 7.09 52 47 | | |
| T.P. | | | 5 32 57 99 | | 3.42 52 67 | | |
| | | | 296 57 93 | | 3.02 54 97 | | FLOOR RR-46 |
| T.P. | | | 3 36 55 94 | | 5 35 52 58 | | |
| T.P. | | | 6 60 59 59 | | 2.95 52 99 | | |
| B.m. | | | | | 349 56 10 | | SAME AS ABOVE |

19537

**VALUABLE**

Return To
Public Works
Office
Camp Lejeune
North Carolina

SUBJECT Location well
House # R.R. 48

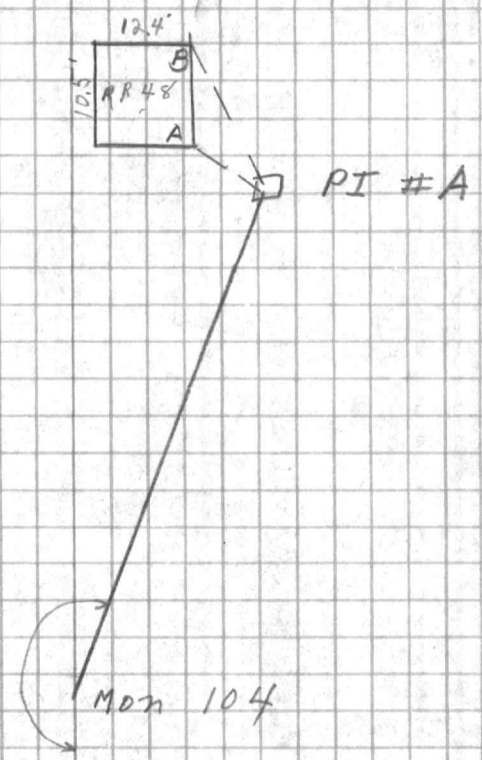
FIELD PARTY
Turlington In Charge
Instrument
Notes
Tape Read
Tape or Rod
Tape or Rod
Instrument No.
Tape No.

WEATHER
Clear, Cloudy, Windy, Rain, Fair, Snow, Hot, Moderate, Cold, Fog

Figured By
Notes Checked By
Plotted By

FILE No. 218-13
Fldr. No.
Sheet 48079
Date 5-29 19 46
Quad. No. 218

| Station | Dist. | Angle ° ' " | + | H. I. Bearing | Ver. Ang. Diff. | Elevation |
|---|---|---|---|---|---|---|
| Well House RR 48 | | | | | | |
| Cor A | | | | | | |
| | 55' | | | | | |
| | | 121 56 30 | | | | |
| | | 5 49 30 | | | | |
| | | 121 56 30 | | | | |
| Cor B | | | | | | |
| | 61 41 | | | | | |
| | | 130 05 15 | | | | |
| | | 30 16 | | | | |
| | | 130 05 20 | | | | |
| PI A | | | | | | |
| | 739 18 | | | | | |
| | | 195 37 | | | | |
| | | 226 51 | | | | |
| | | 195 37 | M | | | |
| Π at #104 | | | | | | |
| BS Mon 103 | | | | | | |




Plotted By: VLT 6-5-46
Checked By: J.F.M. 6-11-46

Mon 103

**VALUABLE**

RETURN TO
PUBLIC WORKS
OFFICE
CAMP LEJEUNE
NORTH CAROLINA

SUBJECT: BENCH MARKS FOR PROPOSED WELL SITE AT RIFLE RANGE

FIELD PARTY
DENNIS — IN CHARGE
INSTRUMENT
NOTES
TAPE READ
TAPE OR ROD
TAPE OR ROD
INSTRUMENT NO.
TAPE NO.

WEATHER
CLEAR, CLOUDY, WINDY, RAIN, FAIR, SNOW, HOT, MODERATE, COLD, FOG

FIGURED BY
NOTES CHECKED BY
PLOTTED BY

FILE No. 218-B
FLDR. No.
SHEET 1 of 1
DATE 11-5 1958
Quad. No.

| STATION | DIST. | ANGLE ° ' " | + | H. I. BEARING | VER: ANG. DIFF. | ELEVATION | |
|---|---|---|---|---|---|---|---|
| B.m. | | | 5 10 | 54.71 | | 49.61 ✓ | MON. # 101 |
| B.m. | | | | | 2.65 | 52.06 ✓ | ON TOP BOLT N.E. PIER WATER TANK AT RIFLE RANGE |
| | | | 2.74 | 54.80 | | | For Well T-18 |
| B.m. | | | | | 5 19 | 49.61 ✓ | MON # 101 |
| B.m. | | | 3 43 | 59.53 | | 56 10 | SPIKE IN P.P. # SR-26 EAST SIDE OF RANGE Rd. BETWEEN GUARD GATE & BLDG. # RR-39 |
| B.m. | | | | | 5.30 | 54.23 | SPIKE IN P.P. # SR-24 NEAR GUARD GATE |
| | | | 5 48 | 59.71 | | | For Well T-19 |
| B.m | | | | | 3 61 | 56.10 | SPIKE IN P.P. # SR-26 |

**VALUABLE**

Return To
Public Works
Office
Camp Lejeune
North Carolina

SUBJECT: Officer Homes
Rifle Range

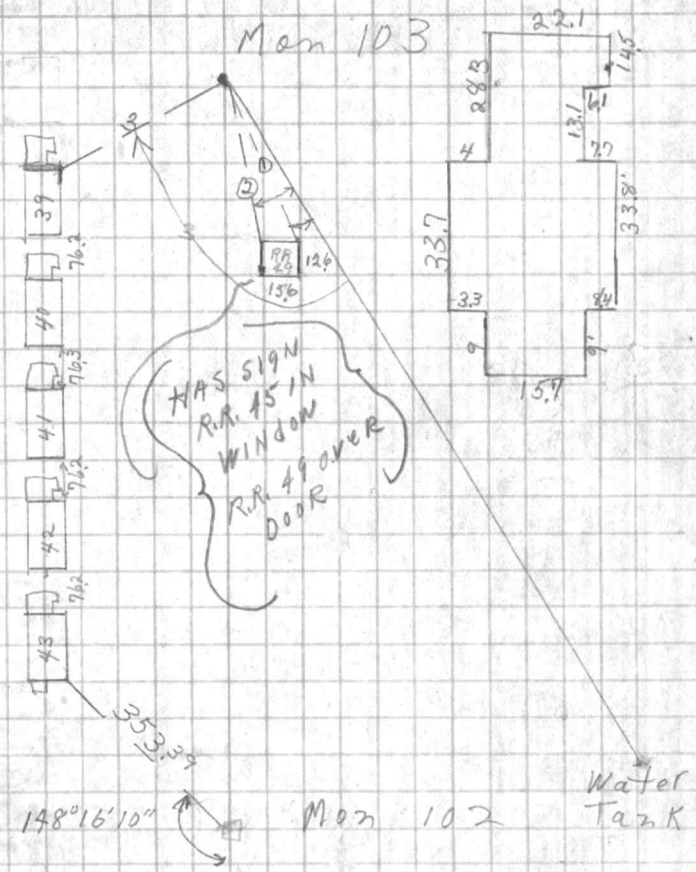
| FIELD PARTY | |
|---|---|
| Turlington | In Charge |
| | Instrument |
| | Notes |
| | Tape Read |
| | Tape or Rod |
| | Tape or Rod |
| | Instrument No. |
| | Tape No. |

WEATHER
Clear, Cloudy ✓, Windy, Rain, Fair, Snow, Hot ✓, Moderate, Cold, Fog

Figured By
Notes Checked By
Plotted By

**FILE No.** 218-13
Fldr. No.
Sheet 1 of 9
Date 6/3 1946
**Quad. No.**

| Station | Dist. | Angle ° ′ ″ | + | H. I. Bearing | Ver. Ang. Diff. | Elevation |
|---|---|---|---|---|---|---|
| House 39 | | | | | | |
| | 209.13 | | | | | |
| | | 76 19 30 | | | | |
| (3) | | 228 58 30 | | | | |
| | | 76 19 30 | | | | |
| Well # RR49 ? check Number | | | | | | |
| (2) | | | | | | |
| | 173.15 | | | | | |
| | | 19 01 30 | | | | |
| | | 52 04 30 | | | | |
| | | 19 01 30 | M | | | |
| (1) | | | | | | |
| | 172.89 | | | | | |
| | | 13 51 45 | | | | |
| | | 41 35 15 | | | | |
| | | 13 51 45 | M | | | |
| Tat Mon # 103 | | | | | | |
| BS Water Tank | | | | | | |




Plotted By: J.T.M. 6-11-46
Checked By: V.L.T. 7-31-46

MON 101

PUBLIC WORKS DEPARTMENT
Camp Lejeune, North Carolina
Survey Department

File 218-B
Quadrangle 218
Date 4 June 1946
Sheet 1 of 3

Traverse Computation
Description Building Co-ordinates - Rifle Range Area RAD

| Station | Distance | Bearing | Cosine | Sine | Latitude | Departure | Y Coordinate North | X Coordinate East |
|---|---|---|---|---|---|---|---|---|
| Mon. 101 to 102 | | S0°54'27"E | | | | | | |
| Bldg. #43 | 353.39 | S37°38'17"E | 8420943 | 5393302 | 297.59 | 190.59 | 309,389.28 | 2,466,851.52 |
| Mon. 103 to Water Tank | | N88°11'28"W | | | | | 308,817.31 | 2,466,674.70 |
| Well #RR ~~49~~ 45 (1) | 172.89 | N1°19'40"W | 9997314 | 0231720 | 172.84 | 4.00 | 308,990.15 | 2,466,670.70 |
| " " " (2) | 173.15 | N3°50'05"E | 9977611 | 0668786 | 172.76 | 11.58 | 308,990.07 | 2,466,686.28 |
| Bldg. #39 | 209.15 | N61°08'05"E | 4827517 | 8757572 | 100.96 | 183.16 | 308,918.27 | 2,466,857.44 |
| Mon. 102 to 101 | | N0°54'27"W | | | | | | |
| Bldg. #RR5 | 29.04 | S89°00'33"W | 0172924 | 9998505 | 0.50 | 29.03 | 309,686.27 | 2,466,631.90 |
| " #201 | 29.00 | S89°01'23"W | | | | | | |
| Mon. 101 to 102 | | S0°54'27"E | | | | | 310,634.74 | |
| Bldg. #RR1 | 29.00 | S89°01'23"W | 0170500 | 9998546 | 0.49 | 28.99 | 310,634.25 | 2,466,616.93 |
| Mon. 102 to 101 | | S0°54'27"E | | | | | 310,634.74 | |
| Bldg. #RR 47 (1) | 139.80 | N11°52'32"W | 9785968 | 2057867 | 136.80 | 28.60 | 310,771.54 | 2,466,617.32 |
| " " " (2) | 142.40 | N16°48'27"W | 9572816 | 2891571 | 136.31 | 41.17 | 310,771.05 | 2,466,604.75 |
| " " 19 (3) | 444.31 | N22°55'47"W | 9209834 | 3896017 | 409.20 | 173.10 | 311,043.94 | 2,466,472.87 |
| " " 16 (4) | 628.14 | N61°18'37"W | 4800661 | 8772373 | 301.55 | 551.02 | 310,936.29 | 2,466,094.90 |
| " " 17 (5) | 464.01 | N51°39'22"W | 6203609 | 7843164 | 287.85 | 363.93 | 310,922.59 | 2,466,281.99 |
| " " 17 (6) | 441.60 | N47°25'27"W | 6765654 | 7363825 | 298.77 | 325.18 | 310,933.51 | 2,466,320.71 |

Plotted By: V.C.T. 6-5-46
Checked By: J.F.M. 6-11-46

PUBLIC WORKS DEPARTMENT
Camp Lejeune, North Carolina
Survey Department

File 218-B
Quadrangle 218
Date 4 June 1946
Sheet 2 of 3

Traverse Computation
Description Building Co-ordinates - Rifle Range Area

RDP

| Station | Distance | Bearing | Cosine | Sine | Latitude | Departure | Y Coordinate North | X Coordinate East |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | 310,634.74 | 2,466,645.92 |
| Bldg. # RR18 (7) | 405.21 | N30°02' 12"W | 8657052 | 5005541 | 350.79 | 202.82 | 310,985.53 | 2,466,443.10 |
| " " " (8) | 400.34 | N26°56' 27"W | 8914748 | 4530702 | 356.89 | 181.38 | 310,991.63 | 2,466,464.54 |
| U.S.N. # 7 to 6 | | S2°24'00"W | | | | | 309,079.90 | 2,468,792.24 |
| Bldg. # 210 | 7.00 | S46°52'00W | 6836984 | 7297646 | 4.78 | 5.10 | 309,075.12 | 2,468,787.14 |
| " " 217 | 105.05 | S84°42' 30" E | 0922257 | 9957381 | 9.68 | 104.60 | 309,070.22 | 2,468,896.84 |
| U.S.N. # 6 to 7 | | N2°24'00"E | | | | | 308,138.29 | 2,468,752.78 |
| Bldg. # 201 | 7.05 | N42°43' 40"W | 7345857 | 6785159 | 5.17 | 4.78 | 308,143.46 | 2,468,748.00 |
| " " 211 | 104.86 | N89°34' 30" E | 0074175 | 9999225 | 0.78 | 104.85 | 308,[illegible] | 2,468,857.63 |
| | | | | | | | ~~308,138.29~~ | ~~2,468,752.78~~ |
| U.S.N. # 7 to 6 | | S2°24'00"W | | | | | ~~309,079.90~~ | ~~2,468,792.24~~ |
| Bldg. # 218 | 204.75 | S89°~~49~~ 01' 30" E | ~~0030543~~ 0170161 | ~~9999953~~ 9998552 | 0.62 3.48 | 204.74 204.72 | 308,134.81 | 2,468,957.50 |
| | | | | | | | ~~309,079.90~~ | ~~2,468,792.24~~ |
| U.S.N. # 6 to 7 | | N2°24'00"E | | | | | | |
| Bldg. # 226 | 204.92 | S86°07'00"E | 0677250 | 9977040 | 13.88 | 204.45 | 309,066.02 | 2,468,996.69 |
| U.S.N. # 6 to 7 | | N2°24'00"E | | | | | 308,138.29 | 2,468,752.78 |
| P.O.T. | 555.21 | N2°24'00"E | 9991228 | 0418756 | 554.72 | 23.25 | 308,693.01 | 2,468,776.03 |

Plotted By: J.F.M. 6-11-46
Checked By: VLT 8-6-46

PUBLIC WORKS DEPARTMENT
Camp Lejeune, North Carolina
Survey Department

File 218-B
Quadrangle 218
Date 4 June 1946
Sheet 3 of 3

Traverse Computation
Description Building Co-ordinates - Rifle Range Area. RDP

| Station | Distance | Bearing | Cosine | Sine | Latitude | Departure | Y Coordinate North | X Coordinate East |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | 308,693.01 | 1,468,776.03 |
| Bldg. # 100 (1) | 314.80 | S59°51'10"W | 5019301 | 8649081 | 158.00 | 271.27 | 308,535.01 | 1,468,503.76 |
| " " " (2) | 370.90 | S77°49'10"W | 2109930 | 9774876 | 78.25 | 362.55 | 308,614.76 | 1,468,413.48 |
| Well T-1 #RR227 (3) | 603.38 | S79°33'10"W | 1812810 | 9834311 | 109.38 | 593.38 | 308,583.63 | 1,468,182.65 |
| (4) | 608.80 | S80°45'50"W | 1605033 | 9870353 | 97.71 | 600.90 | 308,595.30 | 1,468,175.13 |
| | | | | | | | | |
| Mon. 103 to 104 | | S0°54'26"E | | | | | 308,217.66 | 1,466,684.20 |
| P.I. #A | 739.18 | S14°42'34"W | 9673259 | 2539174 | 715.03 | 187.69 | 307,502.63 | 1,466,496.51 |
| Bldg. # RR48 (A) | 55.00 | S43°20'56"E | 7272873 | 6864391 | 40.00 | 37.75 | 307,462.63 | 1,466,534.26 |
| " " " " (B) | 61.41 | S35°12'06"E | 8171281 | 5764561 | 50.18 | 35.40 | 307,412.45 | 1,466,531.91 |
| | | | | | | | | |
| 102 to 101 | | N0°54'26"W | | | | | 309,686.87 | 1,466,660.93 |
| P.O.T. | 180.0 | N0°54'26"W | 9998746 | 0158333 | 179.98 | 2.85 | 309,866.85 | 1,466,658.08 |
| Bldg. # RR 6 (A) | 386.84 | S83°20'04"W | 1160736 | 9933080 | 44.90 | 384.25 | 309,821.95 | 1,466,273.83 |
| " " " " (B) | 415.26 | N81°15'26"W | 1519988 | 9883807 | 63.11 | 410.43 | 309,949.96 | 1,466,247.65 |

Plotted By: J. F. M. 6-11-46
Checked By: VLT 8-6-46

$$
\begin{array}{r|l}
24 & 16^{\prime\prime}0 \quad (66 \\
 & 144 \\
\hline
 & 160
\end{array}
$$

**VALUABLE**

Return To
Public Works
Office
Camp Lejeune
North Carolina

SUBJECT: TEST BORING
RIFLE RANGE
Swimming Pool

FIELD PARTY
Garner — In Charge
Instrument
Notes
Tape Read
Tape or Rod
Tape or Rod
Instrument No.
Tape No.

WEATHER
Clear, Cloudy, Windy, Rain, Fair, Snow, Hot, Moderate, Cold, Fog

Figured By
Notes Checked By
Plotted By

FILE No. 218-B
Fldr. No.
Sheet #1 of 3
Date 6/26 1946
Quad. No. 218

| Station | Dist. | Angle ° ′ ″ | + | H. I. Bearing | Ver. Ang. Diff. | Elevation | |
|---|---|---|---|---|---|---|---|
| | | | 2 74 | 53 63 | | 50 89 | |
| 1+26.00 =#1 | | | | | 89 | 94 73 | 6" OAK (GROUND ELE. (IN DITCH) BLACK SAND - (MUD?) |
| | | | Depth of Hole | | 4 0 | 40.7 | BROWN SAND |
| | | | " " " | | 11.5 | ~~42.1~~ 33.2 | Sand Packed too tight to withdraw auger from a greater depth. |
| | | | Depth of Steel Rod | | 13.5 | 31.2 | Contact of ½" Steel Rod with apparently a fairly Solid Strata. |
| | | | | | 0 6 | 44.1 | WATER TABLE |

**VALUABLE**

Return To
Public Works
Office
Camp Lejeune
North Carolina

SUBJECT Test Boring
Swimming Pool
Rifled Range

FIELD PARTY
Garner In Charge
Instrument
Notes
Tape Read
Tape or Rod
Tape or Rod
Instrument No.
Tape No.

WEATHER
Clear, Cloudy, Windy, Rain, Fair, Snow, Hot, Moderate, Cold, Fog

Figured By
Notes Checked By
Plotted By

FILE No. 218-B
Fldr. No.
Sheet #2 of 3
Date 6/26 1946
Quad. No. 218

| Station | Dist. | Angle ° ' " | + | H. I. Bearing | Ver. Ang. Diff. | Elevation | |
|---|---|---|---|---|---|---|---|
| | | | 2.74 | 53.63 | | 50.89 | 6" OAK |
| 1+67.00 = #2 | | | | | 9.13 | 44.50 | GROUND ELE. |
| | | | | | | | BRACK MUD |
| | | | Depth of Hole | | 4.5 | 40.0 | BROWN SAND |
| | | | " " " | | 14.0 | 30.5 | 90% CLAY - SAND |
| | | | " " " | | 22.0 | 22.5 | BLUE MUCK |
| | | | Water Table | | 1.5 | 43.0 | |

**VALUABLE**

Return To
Public Works
Office
Camp Lejeune
North Carolina

SUBJECT Test Borings
Swimming Pool
Rifled Range

FIELD PARTY
Garner In Charge
Instrument
Notes
Tape Read
Tape or Rod
Tape or Rod
Instrument No.
Tape No.

WEATHER
Clear, Cloudy, Windy, Rain, Fair, Snow, Hot, Moderate, Cold, Fog

Figured By
Notes Checked By
Plotted By

FILE No. 218-15
Fldr. No.
Sheet #3 of 3
Date 6/26 1946
Quad. No. 218

| Station | Dist. | Angle ° ' " | + | H. I. Bearing | Ver. Ang. Diff. | Elevation | |
|---|---|---|---|---|---|---|---|
| | | | 2.4 | 53.63 | | 50.89 | 6" OAT |
| 2+12.00 =#3 | | | | | 11.8 | 41.83 ✓ | GROUND ELE. |
| | | | | | | | BLACK MUD |
| | | | Depth of Hole | | 3.0 | 38.8 ✓ | |
| | | | | | | | BROWN SAND |
| | | | " " " | | 11.0 | 30.8 ✓ | Sand Packed too tight to withdraw auger from a greater depth. |
| | | | Depth of Steel Rod | | 11.0 | 30.8 | |
| | | | Water Table | | 2.6 | 39.2 ✓ | |

**VALUABLE**

Return To
Public Works
Office
Camp Lejeune
North Carolina

SUBJECT Location Bldg
# 6 Rifle Range

FIELD PARTY
Turlington In Charge
Instrument
Notes
Tape Read
Tape or Rod
Tape or Rod
Instrument No.
Tape No.

WEATHER
Clear, Cloudy, Windy, Rain, Fair, Snow, Hot, Moderate, Cold, Fog

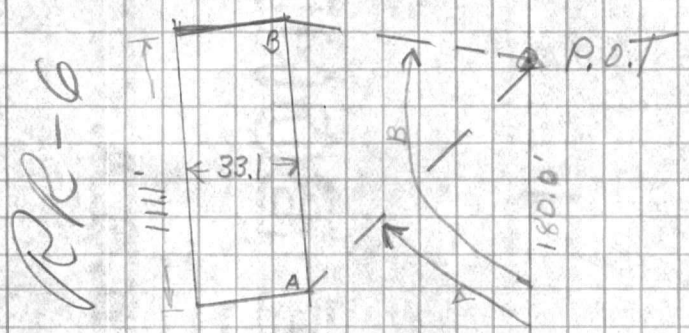
Figured By
Notes Checked By
Plotted By

FILE No. 218-13
Fldr. No.
Sheet 4 of 7
Date 5-29 19 46
Quad. No. 218

| Station | Dist. | Angle ° ′ ″ | + | H. I. Bearing | Ver. Ang. Diff. | Elevation |
|---|---|---|---|---|---|---|
| Bldg RR6 | | | | | | |
| Cor A | | | | | | |
| | 386 84 | | | | | |
| | | 84 14 30 | | | | |
| | | 252 43 30 | | | | |
| | | 84 14 30 | M | | | |
| Cor B | | | | | | |
| | 415 26 | | | | | |
| | | 99 34 | | | | |
| | | 298 57 | | | | |
| | | 99 39 | M | | | |

Plotted By: TDR
6-7-46

△ Mon 101




△ Mon # 102

Plotted By: V.C.J. 6-5-46
Checked By: J.F.M. 6-11-46