NRCS–ENG–541a (Rev. 5–75)

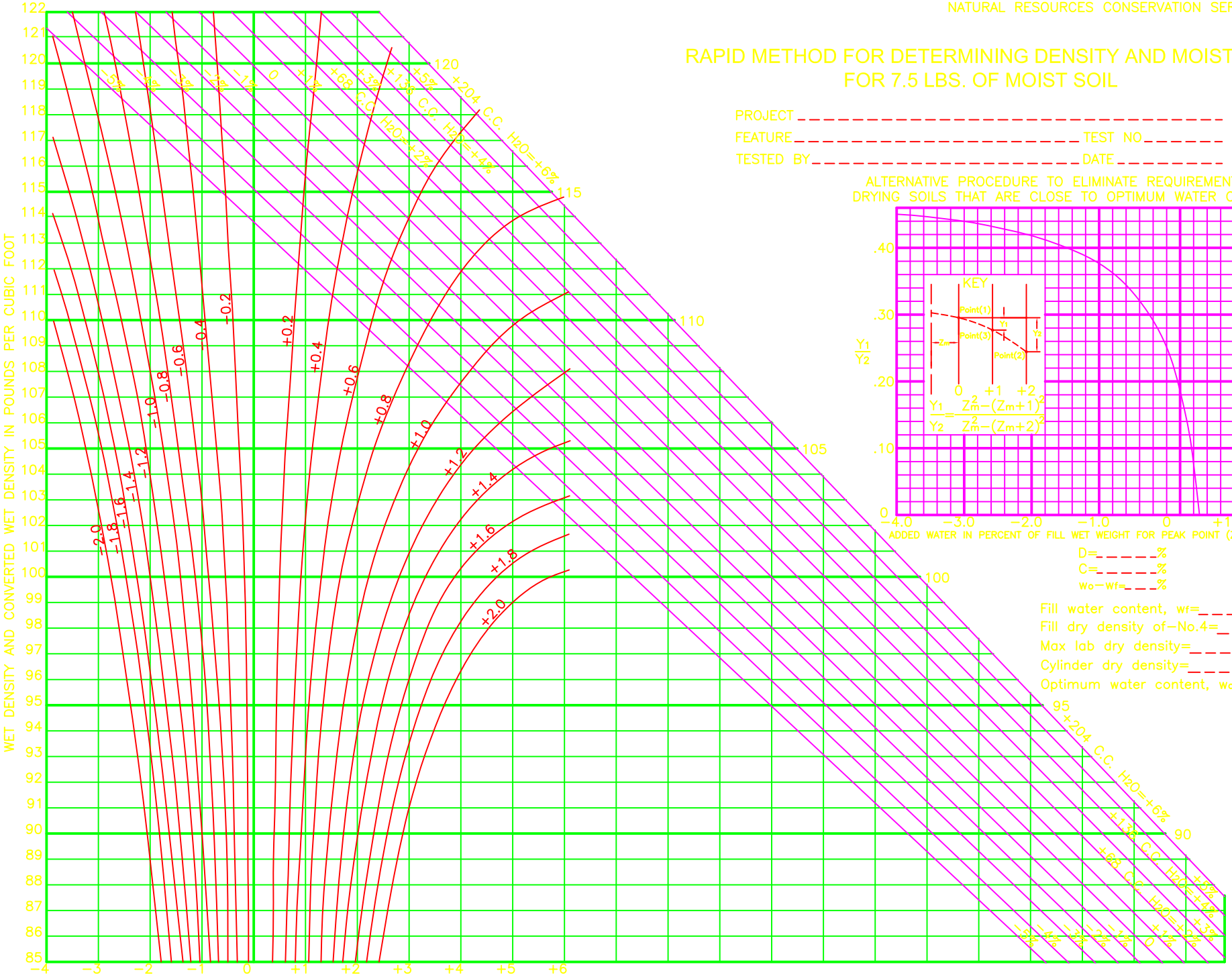
U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

RAPID METHOD FOR DETERMINING DENSITY AND MOISTURE FOR 7.5 LBS. OF MOIST SOIL

PROJECT _____

FEATURE _____ TEST NO _____

TESTED BY _____ DATE _____



ALTERNATIVE PROCEDURE TO ELIMINATE REQUIREMENT FOR DRYING SOILS THAT ARE CLOSE TO OPTIMUM WATER CONTENT

D= _____%

C= _____%

wo–wf= ___%

Fill water content, wf= _____%

Fill dry density of–No.4= ___#/ft^3

Max lab dry density= ____#/ft^3

Cylinder dry density= ____#/ft^3

Optimum water content, wo= ___%

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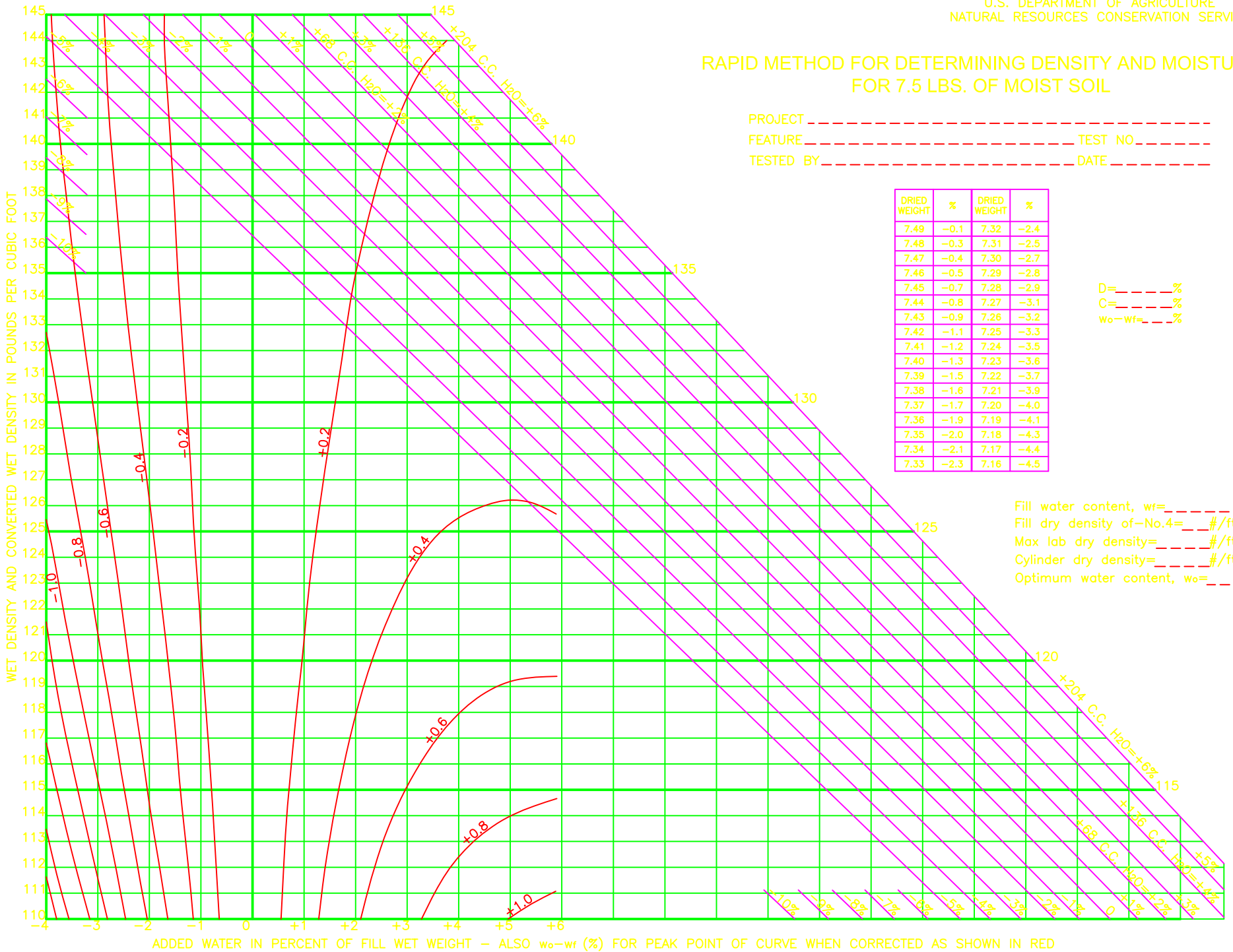
DRIED WEIGHT	%	DRIED WEIGHT	%
7.49	−0.1	7.32	−2.4
7.48	−0.3	7.31	−2.5
7.47	−0.4	7.30	−2.7
7.46	−0.5	7.29	−2.8
7.45	−0.7	7.28	−2.9
7.44	−0.8	7.27	−3.1
7.43	−0.9	7.26	−3.2
7.42	−1.1	7.25	−3.3
7.41	−1.2	7.24	−3.5
7.40	−1.3	7.23	−3.6
7.39	−1.5	7.22	−3.7
7.38	−1.6	7.21	−3.9
7.37	−1.7	7.20	−4.0
7.36	−1.9	7.19	−4.1
7.35	−2.0	7.18	−4.3
7.34	−2.1	7.17	−4.4
7.33	−2.3	7.16	−4.5

D= _____%
C= _____%
$w_o - w_f$= ___%

Fill water content, w_f= _____%
Fill dry density of−No.4= ___#/ft^3
Max lab dry density= ____#/ft^3
Cylinder dry density= ____#/ft^3
Optimum water content, w_o= ___%