

NO. 62B (MODIFICATION W4) MGM TANK GAUGE

INSTALLATION INSTRUCTIONS

NO. 62B MGM TANK GAUGES WERE DESIGNED PRIMARILY FOR TANK CARS AND TANK SHIPS AND BARGES CARRYING LIQUIDS AND LIQUEFIED GASES TRANSPORTED UNDER PRESSURE.

1. Remove all parts from flange (14).
2. Screw the check valve (16) tightly onto the lower end of the gauge rod (4).
3. Slip the repack gasket (15) over the upper end of the gauge rod and slide it down against the rod stop. Insert the gauge rod (4) up through the flange (14).
4. Slip the packing nut (8) over the top end of the gauge rod and screw onto the thread on the neck of the flange.
5. See that the tank gauge studs are screwed tightly into the dome cover and that the groove in the dome cover is clean.
6. Place the flange tongue gasket (20) in the groove in the dome cover.
7. Place one stud gasket (19) over each stud to rest on top of the flange (14).
8. Screw the shoulder stud (11) on the stud on the right hand side.
9. Screw one dome nut (21) on each of the other three studs.
10. Tighten the shoulder stud (11) and the dome nuts (21) tightly against the stud gaskets, making sure that the flange sits level against the flange tongue gasket (20).
11. Remove the rod latch (6) from the pointer (5).
12. Set the pointer (5) in position on the shoulder stud (11) and hold in place with a shoulder stud nut (23).
13. After placing the tank gauge into position, the shoulder stud (11) and the three dome nuts (21) can be securely tightened against the stud gasket (19), making sure that the flange (14) rests level against the flange tongue gasket (20).
14. The pointer (5) should be removed and the rod latch (6) replaced on the pointer with a small washer and cotter pin holding the rod latch in place and a washer separating the rod latch and the pointer casting. The flat side of the rod latch should be up.

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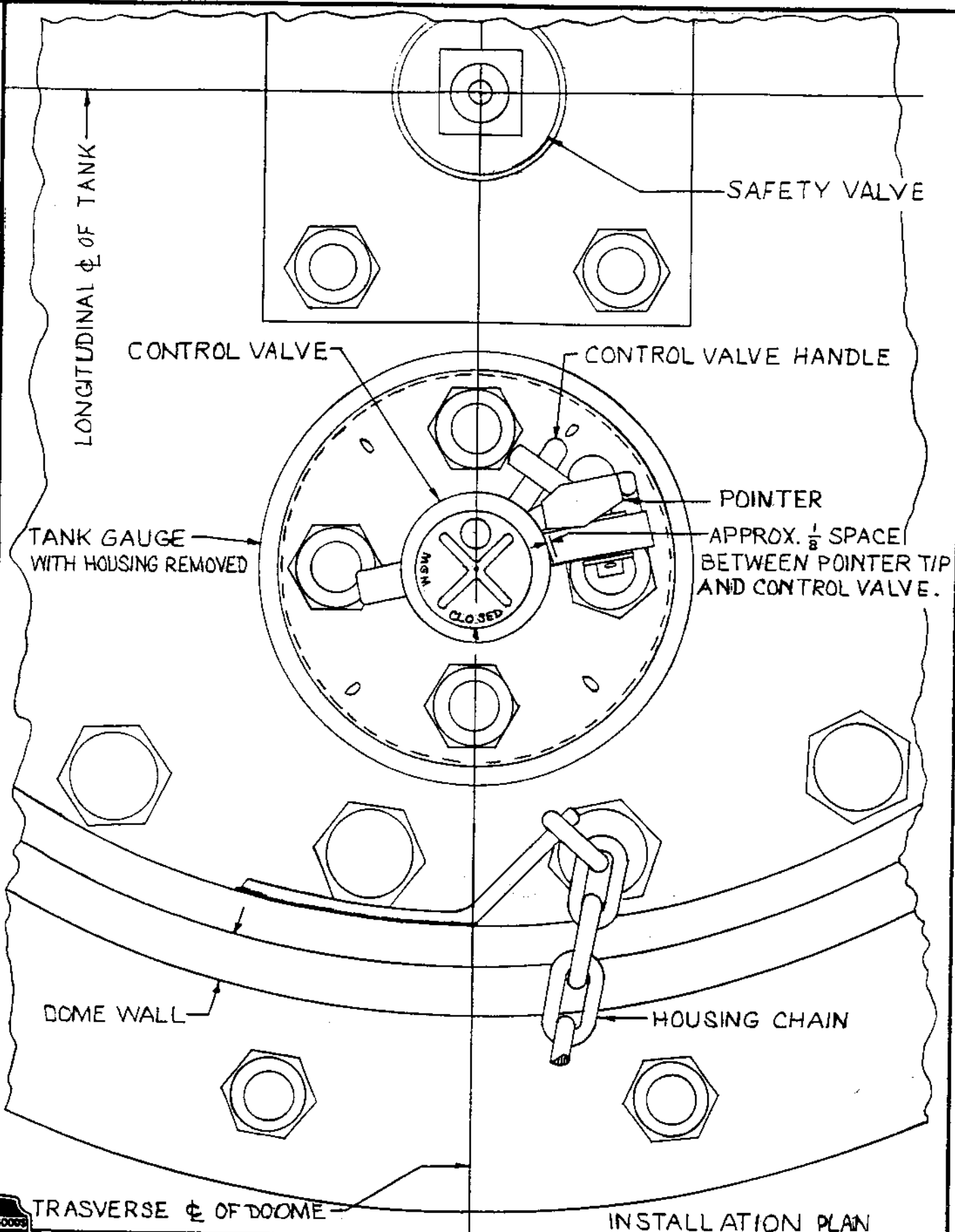
15. Remove the packing nut (8).
16. Slip packing (12) over the gauge rod (4).
17. Put the packing gland (9) in place with the flange end up.
18. Place the packing nut (8) in position and screw down against the packing gland (9), forcing the entire packing assembly reasonably tight in the stuffing box.
19. The packing should be just tight enough to hold the rod in any position to which it may be raised but not tight enough to prevent easy moving upward or downward by hand.
20. Place the latch spring (7) in place on the rod immediately above the packing nut (8).
21. Slip the rod latch (6) over the upper end of the gauge rod (4) with the gauge rod passing through the hole in the rod latch. The rod latch with the pointer (5) attached can be lowered in place with the base of the pointer resting on the shoulder of the shoulder stud (11).
22. Place lock washer (22) and shoulder stud nut (23) on the shoulder stud and screw down snugly but not tightly.
23. Swing the pointer (5) on the shoulder stud to a position which will allow the control valve (3) to clear the end of the pointer about 1/8 inch when the rod is raised so the control valve (3) is approximately on a level with the upper face of the pointer.
24. Hold the pointer in this position while securely tightening the shoulder stud nut (23).
25. When this is correctly done, the rod latch (6) will work freely on the pin in the side of the pointer and will rest against the latch spring (7), being free to move downward on the gauge rod against the spring tension or upward on the gauge rod until it grips the gauge rod and prevents the gauge from being pulled upward. It is necessary to push downward slightly on the tip end of the rod latch in order to raise the gauge rod.
26. The gauge rod can be pushed downward until the handle on the body of the control valve can be turned under the hook on the pointer. When in this position, the gauge rod will be held by the pointer from being forced upward by pressure within the tank.
27. See that the gasket face on the end of the housing (1) is smooth and clean. Place the housing gasket (13) in place on the flange (14) with the smooth side up.

(Continued)

28. Screw the housing in place against the housing gasket (13), thereby covering the tank gauge assembly, preventing damage and sealing against leaks.
29. Attach the angle clip on the end of the housing chain to the side of the dome at whatever place is prepared for this purpose. This can be done by bolting, riveting, or welding.

THE ABOVE INSTRUCTIONS APPLY WHERE TANK GAUGES ARE SET ABOVE THE TOP OF THE TANK. WHERE TANK GAUGES ARE RECESSED BELOW THE TOP OF THE TANK, ALLOWANCE SHOULD BE MADE FOR THIS FACT WHEN INTERPRETING THESE INSTRUCTIONS.

END



LONGITUDINAL ϕ OF TANK

INSTALLATION PLAN



METAL GOODS MANUFACTURING COMPANY

309 WEST HENSLEY BOULEVARD, BARTLESVILLE, OKLAHOMA 74003, U.S.A.

NO. 62B MGM TANK GAUGE

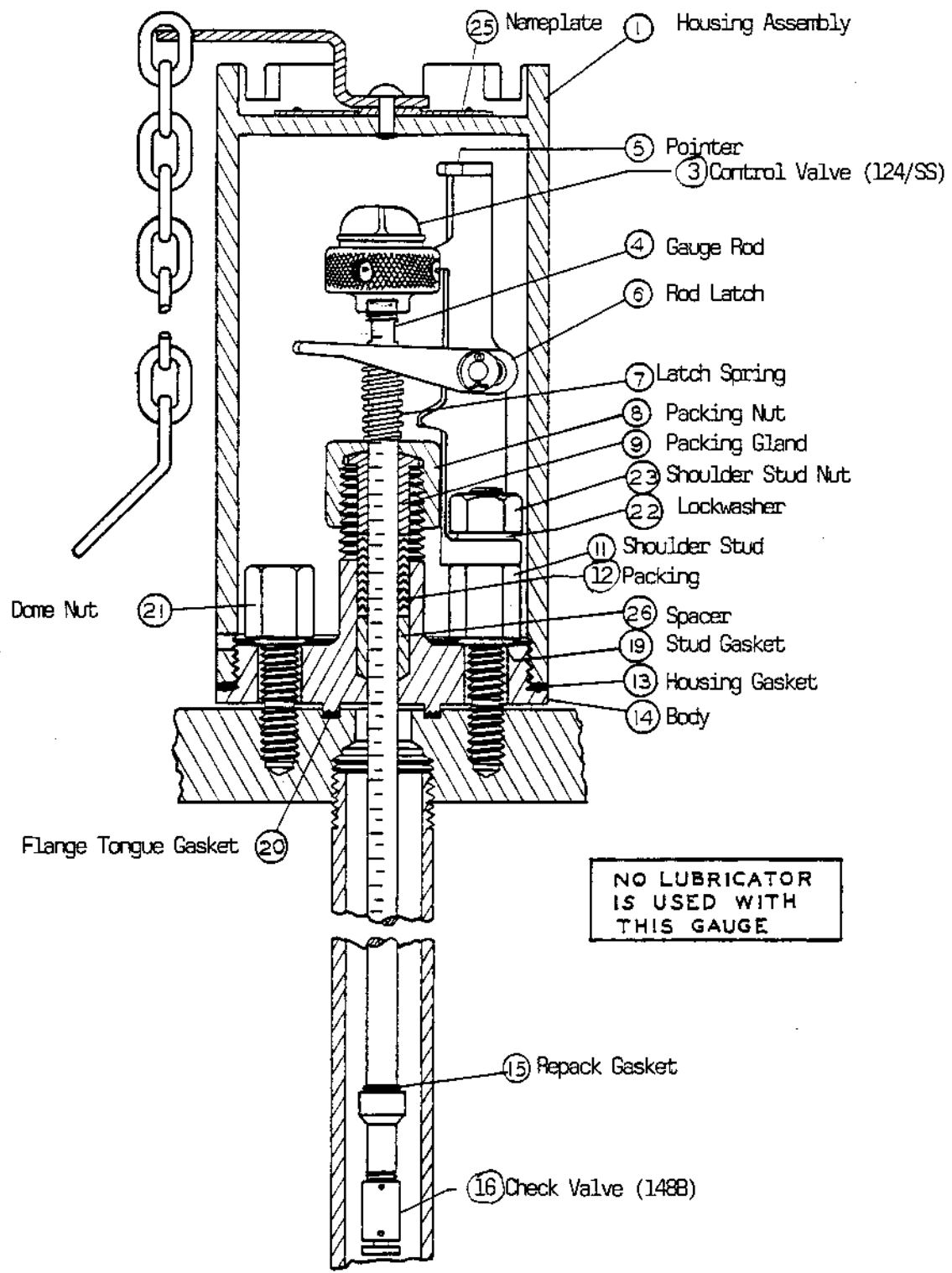
DATE 7-15-71

BY C.W. SHEET 2

NO. 107-INSTALL

REV. (1) 2-24-82 REDRAWN.

SHEET 2C
NO. 107



MGM TANK GAUGE
NO. 62B (MODIFICATION W4)

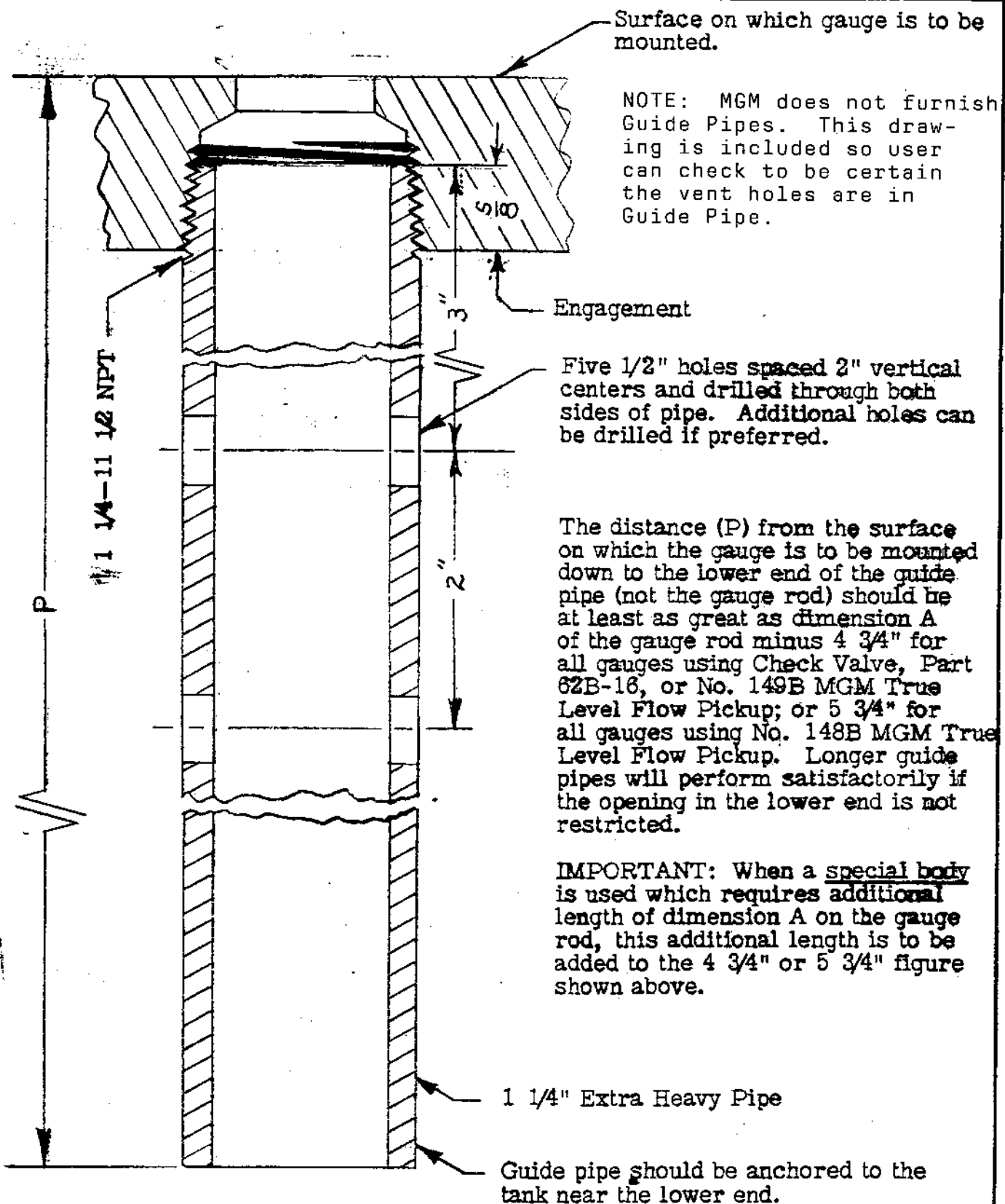


METAL GOODS MANUFACTURING COMPANY

309 WEST HENSLEY BOULEVARD, BARTLESVILLE, OKLAHOMA 74003, U.S.A.

NO. 62B MGM TANK GAUGE

DATE 12-8-75
BY T.V. SHEET 2C
NO. 107



GAUGE ROD GUIDE PIPE



METAL GOODS MANUFACTURING COMPANY

106-110 SOUTH PARK AVENUE, BARTLESVILLE, OKLAHOMA

NO. 62B MGM TANK GAUGE

DATE 11-14-58

BY E.S. SHEET 3M

NO. 107

REV. 11-19-59 REDRAWN