FILE FOLDER

DESCRIPTION ON TAB:

MCAS 1251 (R) Well

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Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08

North Carolina' Department of Environment, Health and TC 1251 Natural Resources Division of Environmental Management Groundwater Section WELL ABANDONMENT P.O. Box 27687 RECORD CONTRACTOR Cyclone Well Dr-1/1109 REG. NO. 2395 1. WELL LOCATION: (Show a sketch of the location on back of form.) Nearest Town: Camp Geiger County ChusLow North Carolinia (Road, Community, Subdivision, Lot No.) Quadrangle No. OWNER: U.S. MArine Corps 2. ADDRESS: (AMP Geiger N.C. 3. WELL DLAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter 4. TOPOGRAPHY: draw, slope, hilltop, valley, flat of screens remaining in the well, gravel USE OF WELL : Dich /ic DATE: 1/25/01 5. interval, intervals of casing perforations, TOTAL DEPTH: 150' DIAMETER: S' 6. and depths and types of fill materials used. CASING REMOVED: 7. feet diameter 8" 8. SEALING MATERIAL: Neat cement Sand cement bags of cement 7500 bags of cement gals. of water 321 yds. of sand 150 fait dasp Sereen Septh NH gals. of water Other Type material Amount 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL pump I do hereby certify that this well abandonment record is true and exact. David S. Quinn Signature of Contractor or Agent 1/25/01

Provide the well owner a copy of this record.

Cr.



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|---|--|--|
| | SOURCE INFORMATION GROUND WATER | Date Form Completed M M D D Y Y 0 1 Z 7 9 5 0 |
| Dwner Assigned Well Name (If purc | hase, name of system) | Code G=Ground |
| TETI MEAS WAT | PLACE 1251 | $G \qquad Y=G \text{ w/direct influence} \qquad \xrightarrow{\sim} \qquad (3)$ |
| If Purchase, seller ID# Source Begin | Date Source exempt— Direct Influence Date SWTR? Y M M D D Y Y | Availability P=Permanent E=Emergency S=Seasonal O=Other |
| Location of well within the system (If pu | rchase, location of master meter) | TT) |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | W) How Determined (G=GPS M=Map S=Surveyed | GPS Data No. of Sats. Locked on Q # or DOP # |
| Vulnerable (VOCs) | Assessment Date | |
| ENTRY POINT INFORM Owner Assigned Entry Point Code Entry Point | ATION Use Code C=Ground/Permanent D=Ground/non-permanent MEW REVER | Availability P=Year-round S=Seasonal E=Emergeacy I=Interim 0=Other |
| Location: | | |
| Sources of pollution/distance: Surface water within 200? M_N^Y Adequate slope? $V(Y,N)$ Flood | If yes, actual distance feer If ng? <u>IV</u> (Y,N) Maintenance: | Types, bact. samples collected?(Y,N) |
| Well House: Free of stored materials? | (Y,N) Properly drained? 4 (Y,N) Loci | |
| Condition of house: | Type of freeze protection: | 200 Received? // (X) |
| Well: Diameter: Type: Properly vented? (Y,N) Casing | depth UNK ft. (If unknown, Well depth: | 240 Meter available? X (Y,) Size: ZX (Z) |
| Concrete slab adequate?(I,N) Size of blow-off:4 | Sample tap: Before treatment | (Y,N) After treatment? (Y,N) |
| Pumps: Capacity: GPM: | HP: 'Pump intake depth: _ | Auxiliary Power?(Y, |
| Time DUMPS: VerticaL | Type b?NE Height above f | loor (pump/casing):/ |
| Storage at well site: Elev: | Hÿdro: | Ground: |
| If hydroautomatic, air volume contro | 1? (Y,N) Safety valves? (Y,N) Cod | ed?(Y,N) |
| High service pumps: 1 gpm _ | hp 2gpmhp 3gpm | hp Auxiliary rower;(1, |
| Is the water treated at this well? N_N^Y | If yes, complete back of form. | MCOS KOME PLOOT |
| If other wells are treated here, which on | es? If treated else | where, where? <u>MCH3 (Wheel 1 Hot</u> |
| If purchase, retreat? N If yes, cor | nplete back of form. (1) No vent | |
| DEHNR 3803 (Revised 12/93) Public Water Supply Section (Review 12/96) | (2) No meter | |



T TC 1251 2-1-95 125 20 closed eq 145 By Scott Berner The week of 2-6-95 155 10 165 168



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| WELL NUMBER 1231 | | BY STrue | usor df | etersor | DATE | | |
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| AIR LINE | STATIC LEVEL | PUMPING LEVEL | DRAIN DOWN | DISCHARGE PRESSURE | GPM | START | |
| 80 | 22 | 25 | 3 | 30 | 100 | 45 | |
| | | 25 | 3 | 25 | 122 | 58 | |
| <u>`````````````````````````````````````</u> | | 25 | 3 | 20 | 140 | 05 | |
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| WELL NUMBER | 1251 | BY THON | 145/ 57 | EVENSON | DATE 5-9-94 | | |
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| AIR LINE | STATIC LEVEL | PUMPING LEVEL | DRAIN DOWN | DISCHARGE | GPM | START | |
| 80 | 17 | 19 | 2 | 3.5 | 100 | 15 | |
| | | 20 | 3 | 30 | 125 | 25 | |
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| AIR LINE | STATIC LEVEL | PUMPING LEVEL | DRAIN DOWN | DISCHARGE PRESSURE | GPM | START |
| 80 | 20 | 24 | 4 | 20 | 112. | 20 |
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| AIR LINE | STATIC LEVEL | PUMPING LEVEL | DRA IN DOWN | DISCHARGE PRESSURE | GPM | START TIME | | |
| 80 | 20 | 22 | 2 | 35 | 104. | 070 | | |
| | | 23 | 3 | 30 | 122 | 10 | | |
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| | 1 | 25 | 5 | 15 | 175 | 30 | | |
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| AIR LINE | STATIC LEVEL | PUMPING LEVEL | DRAIN DOWN | DISCHARGE | GPM | START TIME 0830 | |
| 80' | 26 | 38 | 6 | 38 | 104 | 0 54 0 | |
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Time 1251 LENGTH CAP. PER OF STATIC FUMPING DRAW FOOT OF DISCHARGE TOTAL DATE AIR LINE LEVEL. LEVEL. DOWN PRESSURE DRAM DOUN Cont. 11 July 22, 82 80' 23' 24 39 1050 104 2' 25' 36 119 1115 2' 25 133 33 1130 25 2 1145 30 146 all in **** lest set at 30 PSI 146 GRM RE ARKS : uses direct reading gage at OPSE. 199 GPM has evel . 111' 07 57.76 M. TEGEL 1.1

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Floating Aerators • Water & Sewage Pumps • Sewage Lift Stations



INVIRONMENTAL PRODUCTS INC

P. O. BOX 2385 HICKORY, NORTH CAROLINA 28601

TELEPHONE 704/322-7003

Prepared For: CArolina Well & Pump Company Project: N62470-73B-1155 LOCATION. New River Utilities Expansion - MCAS (Helicopter) Subject. Well "R" Conditions: 150 GPM @ 110'TDH, 1770 RPM - Setting 86" 15/9" Description APPROVED Grave DOFS Figure 4700, Size XHE, APPROVIDE ENTS UND with SD-44-10 SUBJECT TO RECATIONS SPECIFICATIONS I.K. TIMMONS & ANOTHER SOCIAL ESCUENTY feet of 4"x 11/4" column J.K. TIMMONS & ANOTHERS for the above design conditions, CONSULTING ENGINEERS for the above design conditions, BY: JUHNSON Moder HA-15, 1:1 ratio right Angle DATE: 6-13-23 gear drive, and 7.12 HP, 1800 RPM, 3phase, 60 cycle, 230 1400 wilt, vertical hollow shaft Moter, with NON-reverse ratchet, 1.15 service factor, 213TPIO frame, open dripproof, WP-1 ENCLOSURE.

April 14, 1975



Bans # 25



Water and Oil Lubricated VERTICAL TURBINE PUMPS



PRECISION ENGINEERED TO FILL EVERY MUNICIPAL, INDUSTRIAL & AGRICULTURAL REQUIREMENT

CRANE DEMING

precision engineered to fill every municipal, industrial & agricultural requirement

WATER LUBRICATED

OIL LUBRICATED









Crane Deming quality design features provide longer life...lower operating costs

OIL AND WATER LUBRICATED

IMPELLERS EASILY ADJUSTABLE

 with adjusting nut located at top of motor.

 RATCHET PREVENTS BACKSPIN – and avoids damage to pump in case of phase reversal. 3. HEAVY-DUTY THRUST BEARING - cooled by air entering motor. SEPARATE HEADSHAFT – with coupling in pump head facilitates installation. Permits changing drives without raising pump. BASE OF HEAD RECESSED – permits casing or sleeve to extend above foundation as required by many Public Health Departments. 6. STAINLESS STEEL STUFFING BOX SHAFT – may be inverted to renew wearing surface. FLANGED HEAD CONSTRUCTION

 facilitates assembly of column and discharge head. Maintains accurate alignment between motor and column shaft assembly.

8. HIGH STRENGTH LINE SHAFT – of heat treated steel, ground and polished – one-third stronger than ordinary shaft.

9. COLUMN COUPLINGS – machined with 8 pitch threads for tight fitting butt joints.

10. STAINLESS STEEL IMPELLER SHAFT – specially heat treated, ground and polished for longer life. **11. STREAMLINED BOWL PASSAGE**. WAYS – enameled to reduce friction and give greater pump efficiency.

 ENCLOSED BRONZE IMPELLERS

 have completely finished surfaces for maximum efficiency.

 13. BRONZE BOWL BEARINGS - on all enclosed impeller pumps. **14. SEMI-ENCLOSED BRONZE IMPEL-**LERS – have completely finished surfaces for greater efficiency. **15. RUBBER BOWL BEARINGS** – on all semi-enclosed impeller pumps.

16. ENCLOSED BRONZE BEARING – in suction bowl, protected with sand cap and packed with non-soluble grease.

WATER LUBRICATED ONLY

17. STAINLESS STEEL SHAFT SLEEVES – welded to shaft. Specially heat treated, ground and polished for maximum resistance to wear and corrosion. Replaceable in the field.

18. ACCESSIBLE EXTRA-DEEP STUFFING BOX – with controlled lubrication for long packing life.

19. PRE-LUBRICATION CONNEC-TION – through stuffing box distributes water around shaft for proper lubrication before start up. **20. WATER LUBRICATED SHAFT BEARINGS** – fluted, resilient rubber shaft bearings are lubricated by water flowing through the pump. Bearings are held in place by a machined bronze bearing retainer secured between two pipe ends.

OIL LUBRICATED ONLY

21. AUTOMATIC LINE SHAFT LUBRI-CATOR – on motor driven units – opens when pump starts, closes when it stops.

22. BRONZE TUBING TENSION NUT – is easily accessible for placing tube under proper tension – also provides close fitting bearing in pump head.

23. TUBING HEAD ADAPTER WITH "O" RING – assures water tight seal around shaft enclosing tube. 24. BRONZE LINESHAFT BEARINGS

 provide accurate alignment for line-shaft and a coupling for enclosure tube. A spiraling internal oil groove permits uniform bearing lubrication and by-pass of oil to bearings below.

25. HEAVY-DUTY TUBULAR STEEL SHAFT ENCLOSURE TUBE – protects lineshaft. Specially machined for accurate bearing alignment. 26. ENCLOSURE TUBE STABILIZERS - reinforced rubber "spiders" are regularly spaced to maintain enclosure tube alignment. 27. BEARING PROTECTING SLINGER - prolongs bearing life by preventing entrance of sand into top bowl bearing.

 28. RELIEF PORTS IN TOP BOWL – prevent water from rising in tube above water level in well. Specifications subject to change without notice

CRAN DEMING VERTICAL TURBINE PUMPS

WATER OR OIL LUBRICATED

Crane Deming Vertical Turbine Pumps are available with either oil or water lubrication. The basic difference is in the construction of the lineshaft, its supporting mechanism and the bearings supplied with each. Either type may be furnished with semi-enclosed or enclosed impeller design.

IMPELLERS

WATER LUBRICATED CONSTRUCTION

Crane Deming water lubricated pumps are lubricated by the water that is being pumped, and require no supplemental lubricants or maintenance.

Water lubricated construction includes high strength steel lineshaft and rubber bearings throughout.



Bronze lineshaft bearing retainers are centered in each pipe coupling – tightly secured between the two pipe ends. Retainers are precision cast and machined to house the water lubricated, resilient rubber bearings and assure perfect vertical alignment of pump lineshaft. Rubber bearings are fluted to provide adequate lubrication and permit sand and other abrasive particles to flow through.



Corrosion-resistant bronze semi-enclosed impellers are easily adjustable at the top of the driver to handle changes in well capacity or ground conditions. Impellers can be temporarily adjusted upward to avoid pump wear when clearing a sandy well. Top pump efficiency can easily be maintained.

OIL LUBRICATED CONSTRUCTION

Oil lubricated construction has an enclosed lineshaft with bronze bearings used throughout. A heavy-duty steel enclosure tube contains the lubricating oil around the lineshaft and bearings, and shields both from foreign matter and corrosion.



In standard construction, machined bronze bearings are spaced every five feet to assure true pumpshaft alignment and smooth, quiet operation. Bearings are threaded and also serve as a coupling for lineshaft enclosure tubing. A spiraling groove in the bearing inner wall provides uniform oil distribution over the lineshaft surface and permits oil passage through the bearing to each succeeding bearing below. Reinforced rubber "spiders" are spaced at regular intervals to center the enclosure tube in the column pipe.



Enclosed impellers are high quality corrosion-resistant bronze with completely finished surfaces. The hydraulic design developed from years of engineering experience assures maximum efficiency with minimum operating costs in Crane Deming Vertical Turbine Pumps.

CRANE DEMING precision engineered Vertical Turbine Pumps

offer Unequaled Economy, Performance and Dependability...Backed up by over 90 years experience in the development and manufacture of quality pumps.

Crane Deming vertical turbine pumps are scientifically engineered and constructed of top quality materials to provide years of dependable service.

Close tolerance machining to increase operating efficiency – precision balancing of moving parts to eliminate vibration – special heat treating to reduce maintenance – using bronze to combat corrosion – stainless steel at critical wear points . . . Crane Deming has expended every effort to design and build a pump that runs smoother, lasts longer and yet stays in line with competition. The pumps described in this bulletin are the result of this manufacturing philosophy — no short cuts — no sacrificing of quality.

Over 90 years of research, engineering and manufacturing experience stand behind your selection of a Crane Deming Vertical Turbine Pump. It will prove a wise choice.

Top Performance With All Types of Drives



Unit Drive Head For installations where electric power is available the Unit Drive with hollowshaft motor is compact, quiet and efficient.



Combination Motor – Right Angle Drive For municipal waterworks and installations, where an auxili

installations where an auxiliary source of power must be available at a moment's notice.



Right Angle Drives

For direct connection to gasoline or diesel power unit. Gear ratio permits unit to operate at the most economical speed.

For Maximum operating efficiency Specify CRANE DEMING For all your pumping requirements





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P. O. BOX 450 . SALEM, OHIO 44460 CRANE CO. DEMING DIV. .

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JOHNSON RIGHT ANGLE GER DRIVE

DIVISION OF ARROW GEAR COMPANY

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| HA15 HB40(1) | 6 ³ /8 | 13 | 11/8 | 2 ³ ⁄ ₄ 3 ¹ ⁄ ₂ | 105/8 151/4 | 31/8 | 16 221⁄4 | 5/8 3/4 | 10 | 9½ 9½ | 8 ¹ / ₄ | 3/16 | 1/6 1/10 | 1/4 x 1/8 x 21/ 2/4 x 1/8 x 21/ 2/4 x 1/8 x 21/ |
| HA 15 HB 40(11 HB 40 | 6 ³ / ₈ 3) 9 9 | 13 16 16 | $ \frac{1\frac{1}{8}}{1\frac{1}{2}} $ | $ \begin{array}{c} 2^{3}_{4} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 2^{1}_{4} \end{array} $ | 10 ⁵ / ₈ 151/ ₄ 151/ ₄ | 31/8 | 16 221/2 221/2 | 5/8 3/4 3/4 | 10 12 16 ¹ / ₂ | 9 ¹ /8 9 ¹ /8 14 ³ /4 | 8 ¹ / ₄ <u>8¹/₄</u> <u>8¹/₄</u> <u>13¹/₂</u> | 3/6 3/6 3/6 | 1/16 1/16 | 1/4 x 1/8 x 21 1/4 x 1/8 x 21 1/6 x 3/6 x 3 |
| HA15 HB40(1; HB40 HC60 | 6 ³ / ₈ 2) 9 9 9 | 13 16 16 16 | $ \frac{1\frac{1}{8}}{1\frac{1}{2}} \frac{1\frac{1}{2}}{1\frac{1}{2}} $ | $ \begin{array}{c} 2^{3}_{4} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \end{array} $ | $\frac{10\frac{5}{8}}{15\frac{14}{4}}$ | 31/8 | 16 221/ 221/4 221/4 221/4 | 5/8 3/4 3/4 3/4 | 10 12 16 ¹ / ₂ 16 ¹ / ₂ | 9 ¹ / ₈ 9 ¹ / ₆ 14 ³ / ₄ 14 ³ / ₄ | 8 ¹ / ₄ <u>8¹/₄</u> <u>13¹/₂</u> <u>13¹/₂</u> | 3/16 2/10 3/16 3/16 | 7/6 2/6 11/16 11/16 | 1/4 x 1/8 x 21/ 1/4 x 1/8 x 21/ 1/4 x 1/8 x 21/ 1/4 x 1/8 x 21/ 1/8 x 1/6 x 3 1/8 x 1/6 x 3 |
| HA 15 HB 40(12 HB 40 HC 60 HD 90 HE 150 | 6 ³ / ₈ 9 9 11 ³ / ₈ 12 ¹ / | 13 16 16 16 17 ¹ / ₂ 20 ¹ / | $ \begin{array}{r} 1\frac{1}{8} \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 2 \\ 2\frac{1}{2} \\ 2 2 $ | $ \begin{array}{c} 2\frac{3}{4} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 4\frac{3}{2} \\ \end{array} $ | $ \begin{array}{r} 10\frac{5}{8} \\ \hline 15\frac{1}{4} \\ 15\frac{1}{4} \\ 15\frac{1}{4} \\ 19\frac{5}{8} \\ 22\frac{1}{6} \\ \end{array} $ | 31/8 | 16 22½ 22¼ 22¼ 22¼ 26¾ | 5/8 3/4 3/4 3/4 1 | $ \begin{array}{c} 10 \\ 12 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ \end{array} $ | $9\frac{1}{8}$ $9\frac{1}{4}$ $14\frac{3}{4}$ $14\frac{3}{4}$ $14\frac{3}{4}$ | | × 6 × 6 × 6 × 6 | 1/16 1/16 1/16 1/16 | Keysear J J ₄ x J ₈ x 2J J ₆ x J ₈ x 3 J ₈ x J ₆ x 3 J ₂ x J ₄ x 3 |
| HA 15 HB 40(1) HB 40 HC 60 HD 90 HE 150 HE 20 0 | 6 ³ / ₈ 9 9 11 ³ / ₈ 13 ¹ / ₄ | $ \begin{array}{r} 13 \\ 16 \\ 16 \\ 17 \frac{1}{2} \\ 20 \frac{1}{2} \\ 24 \end{array} $ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c} 2^{3}_{4} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 4^{3}_{4} \\ 5^{1}_{4} \end{array} $ | $ \begin{array}{r} 10\frac{5}{8} \\ 15\frac{1}{4} \\ 15\frac{1}{4} \\ 15\frac{1}{4} \\ 19\frac{5}{8} \\ 23\frac{1}{8} \\ 25\frac{3}{4} \end{array} $ | 31/8 | 16 221/4 221/4 221/4 263/4 313/4 | $\frac{5}{8}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$ 1 1 | 10 12 16½ 16½ 16½ 20 | 9½ 9½ 1434 1434 1434 1434 1434 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ | 3/16 3/16 3/16 3/16 3/16 3/16 | K6 | Keysear J <u>V4 x V6 x 21</u> <u>V6 x X x 2</u> <u>V6 x X x 2</u> <u>V6 x X 6 x 3</u> <u>V2 x V4 x 3</u> <u>V2 x V4 x 3</u> <u>V6 x X6 x 4</u> |
| HA15 HB40(1) HB40 HC60 HD90 HE150 HF20 0 HG250 | 6 ³ / ₈ 9 9 11 ³ / ₈ 13 ¹ / ₄ 15 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{r} 1\frac{1}{8} \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 2 \\ 2\frac{1}{26} \\ 2\frac{1}$ | $ \begin{array}{c} 2^{3}_{4} \\ 3^{1}_{4} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 4^{3}_{4} \\ 5^{1}_{2} \\ 5^{1}_{4} \end{array} $ | 10 ⁵ / ₈ 15 ¹ / ₄ 15 ¹ / ₄ 15 ¹ / ₄ 19 ⁵ / ₈ 23 ¹ / ₈ 26 ³ / ₈ 28 ⁷ / ₈ | 3 = | 16 221/4 221/4 221/4 263/4 313/4 36 | 5%8 3%4 3%4 1 1 1%8 | $ \begin{array}{c} 10 \\ 12 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 20 \\ 20 \\ 20 \\ 21 \\ \end{array} $ | $9{6}$ $9{6}$ $14{4}$ $14{4}$ $14{4}$ $14{4}$ $14{4}$ $14{4}$ $14{4}$ | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ | 3/16 3/16 3/16 3/16 3/16 3/16 3/16 | 1/16 1/16 1/16 1/16 1/16 1/16 | Keysear J <u>1/4 x 1/6 x 21</u> <u>1/6 x 1/6 x 3</u> <u>3/6 x 1/6 x 3</u> <u>3/6 x 1/6 x 3</u> <u>5/6 x 1/6 x 3</u> <u>5/6 x 1/6 x 4</u> <u>5/6 x 5/6 x 5</u> |
| HA 15 HB 40(12 HB 40 HC 60 HD 90 HE 150 HF 20 0 HG 250 HH 350 | 6 ³ / ₈ 9 9 11 ³ / ₈ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{r} 1\frac{1}{8} \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 2\frac{1}{2} \\ 2\frac{1}{16} \\ 2\frac{3}{4} \\ 2\frac{3}{4} \\ 3 \end{array} $ | $ \begin{array}{c} 2^{3}_{4} \\ 3^{1}_{4} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{4} \\ 5^{1}_{2} \\ 5^{1}_{2} \\ 5^{3}_{4} \end{array} $ | 105/8 151/4 151/4 151/4 195/8 231/8 263/8 297/8 | 3 = | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 | $\frac{\frac{5}{8}}{\frac{3}{4}}$ $\frac{3}{4}$ $\frac{3}{4}$ 1 1 $1\frac{1}{8}$ $1\frac{1}{4}$ | $ \begin{array}{c} 10 \\ 12 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 20 \\ 20 \\ 20 \\ 24\frac{1}{2} \\ 24\frac{1}{2} \end{array} $ | $9\frac{1}{6}$ $9\frac{1}{6}$ $14\frac{3}{4}$ 143 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ | 3%6 3%6 3%6 3%6 3%6 3%6 3%6 3%8 | ×6 ×6 ×6 ×6 ×6 ×6 ×6 ×6 ×6 ×6 | Keysear J 1/4 × 1/8 × 21 2/6 × 3/6 × 3 3/6 × 3/6 × 3 3/6 × 3/6 × 3 1/2 × 1/4 × 3 3/6 × 3/6 × 4 3/6 × 3/6 × 5 3/6 × 5/6 × 5 3/6 |
| HA 15 HB 40(1) HB 40 HC 60 HD 90 HE 150 HF 20 0 HG 250 HH 350 HH 425 | 6 ³ / ₈ 9 9 11 ³ / ₈ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ | 13 16 16 16 17½ 20½ 24 29 30 31 | $ 1\frac{1}{8} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{2}{16} \frac{2}{4} \frac{2}{3} \frac{2}{4} \frac{2}{3} \frac{3}{4} \frac{3}{5} \frac{3}{5} $ | $ \begin{array}{c} 2^{3}_{4} \\ 2^{3}_{4} \\ 3^{3}_{2} \\ 3^{3}_{2} \\ 3^{3}_{2} \\ 4^{3}_{4} \\ 5^{3}_{2} \\ 5^{3}_{4} \\ 6^{3}_{4} \end{array} $ | 10% 15% 15% 15% 15% 23% 23% 26% 29% 29% | 3 = | $ \begin{array}{c} 16 \\ 2214 \\ 2214 \\ 2214 \\ 2634 \\ 3134 \\ 36 \\ 4014 \\ 413 \\ 413 \\ 416 \\ \end{array} $ | 5% 34 34 1 1 1 1% 1% 1% | $ \begin{array}{c} 10 \\ 12 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 20 \\ 20 \\ 24\frac{1}{2} \\ \end{array} $ | $9\frac{1}{6}$ $0\frac{1}{6}$ $14\frac{3}{4}$ 143 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ | 3%6 3%6 3%6 3%6 3%6 3%6 3%8 3%6 3%8 | 1/16 1/16 11/16 11/16 11/16 * 15/16 * 15/16 | Keysear J 1/4 × 1/6 × 2) 2/4 × 1/6 × 3 3/6 × 3/6 × 3 3/6 × 3/6 × 3 1/2 × 1/4 × 3 5/6 × 3/6 × 5 3/6 × |
| HA15 HB40(11 HB40 HC60 HD90 HE150 HF20 0 HG250 HH350 HH425 HI500 | 6 ³ / ₆ 9 9 11 ³ / ₆ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ | 13 16 16 16 17 ¹ / ₂ 20 ¹ / ₂ 24 29 30 31 33 | $ 1\frac{1}{8} \frac{1}{4} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{2}{4} \frac{2}{4} \frac{2}{4} \frac{2}{4} \frac{3}{3} \frac{3}{2} \frac{3}{4} $ | $ \begin{array}{c} 2^{3}_{4} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 4^{3}_{4} \\ 5^{1}_{2} \\ 5^{1}_{2} \\ 5^{1}_{2} \\ 5^{3}_{4} \\ 6^{3}_{4} \\ 7^{1}_{6} \\ \end{array} $ | 10% 15¼ 15¼ 15¼ 15¼ 23½ 23½ 23½ 23½ 29% 29% 29% 29% | 3 1 /8 | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 412/4 | 5% 34 34 34 1 1 1 1 1 4 PKO | 10 12 $16\frac{1}{2}$ $16\frac{1}{2}$ 20 20 $24\frac{1}{2}$ $\sqrt{2}ED$ | 9 ¹ / ₈ 9 ¹ / ₆ 14 ³ / ₄ 14 ³ / ₄ 14 ³ / ₄ 14 ³ / ₄ 14 ³ / ₄ * 22 * 22 * 22 * 22 * 22 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ | 3/6 3/6 3/6 3/6 3/6 3/6 3/6 3/6 3/6 3/6 | 1/16 1/16 1/16 1/16 1/16 1/16 * 1/16 * 1/16 * 1/16 * 1/16 | Keysear J - 1/4 x 1/6 x 2) - 2/4 x 2/6 x 2) - 2/4 x 3/6 x 3 - 3/6 x 3/6 x 3 - 3/6 x 3/6 x 3 - 5/6 x 3/6 x 3 - 5/6 x 3/6 x 5 - 3/6 |
| HA15 HB40(11 HB40 HC60 HD90 HE150 HF20 0 HG250 HH350 HH425 HI500 HJ600 | $\begin{array}{c} 6\frac{3}{6} \\ 9 \\ 9 \\ 9 \\ 9 \\ 11\frac{3}{6} \\ 13\frac{1}{4} \\ 15 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 19 \end{array}$ | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 | $ \begin{array}{c} 1/_{8} \\ 1/_{2} \\ 1/_{2} \\ 1/_{2} \\ 2/_{4} \\ 2/_{4} \\ 2/_{4} \\ 3/_{2} \\ 3/_{4} \\ 3/_{4} \\ 4 \end{array} $ | $ \begin{array}{c} 2^{3}_{4} \\ 2^{3}_{4} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 3^{1}_{2} \\ 4^{3}_{4} \\ 5^{1}_{2} \\ 5^{1}_{2} \\ 5^{1}_{4} \\ 6^{3}_{4} \\ 7^{1}_{2} \\ 7^{1}_{2} \\ \end{array} $ | 10% 15% 15% 15% 15% 23% 23% 23% 29% 29% 29% 37 | 3 B JECT | 16 221/ 221/ 221/ 263/ 313/ 36 401/ 413/ 414/ 413/ 414/ 413/ 416/ 413/ 416/ 413/ 416/ 413/ 416/ 417/ 416/ 417/ 416/ 417/ 416/ 417/ 416/ 417/ 416/ 417/ 416/ 417/ 416/ | 5% | $ \begin{array}{c} 10 \\ 12 \\ 16 \frac{1}{2} \\ 16 \frac{1}{2} \\ 20 \\ 20 \\ 24 \frac{1}{2} \\ \hline 22 \\ \hline 20 \\ 24 \frac{1}{2} \\ \hline \begin{bmatrix} $ | $9{6}$ $9{6}$ $14{3}{4}$ $14{3}{4}$ $14{3}{4}$ $14{3}{4}$ $14{3}{4}$ $14{3}{4}$ $14{3}{4}$ $14{3}{4}$ $14{3}{4}$ 122 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 2222 22222 22222 22222 222222 2222222222 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ $13\frac{1}{2}$ | 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% | 1/16 1/16 1/16 1/16 1/16 1/16 *1/16 *1/16 *1/16 *1/16 *1/16 *1/16 | Keysear J 1/4 x 1/6 x 21 2/6 x 2/6 x 3 3/6 x 3/6 x 3 3/8 x 3/6 x 3 3/8 x 3/6 x 3 3/8 x 3/6 x 3 3/8 x 3/6 x 5 3/6 x 3/6 x 5 3/4 x 3/6 x 5 3/4 x 3/6 x 5 3/6 x 5 3/76 x 5 3/76 x 5 3/76 x 5 3/76 x 5 3/76 |
| HA 15 HB 40(12 HB 40 HC 60 HD 90 HE 150 HF 20 0 HH 350 HH 350 HH 425 HI 500 HJ 600 Also 5/8 | 6 ³ / ₆ 9 9 11 ³ / ₆ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 19 -11 Tap | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 on 14¾ 4 | $\begin{array}{c} 1 \frac{1}{8} \\ \frac{1}{2} \frac{1}{2} \\ 1 \frac{1}{2} \\ 2 \\ 2 \frac{1}{2} \\ 2 \frac{1}{2} \\ 2 \frac{1}{2} \\ 2 \frac{1}{2} \\ 3 \frac{1}{2} \\ 4 \\ 4 \\ \text{AJ 1" Det} \end{array}$ | $\begin{array}{c} 2\frac{3}{4} \\ 2\frac{3}{4} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 5\frac{1}{2} \\ 51$ | 10% 15% 15% 15% 23% 26% 29% 29% 29% 29% 37 | 3 B JECT | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 413/4 413/4 PEC | 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1 4 円茂O 吊戸Q FI〇 | $ \begin{array}{c} 10 \\ 12 \\ 16 \frac{1}{2} \\ 16 \frac{1}{2} \\ 20 \\ 20 \\ 20 \\ 24 \frac{1}{2} \\ \hline 20 \\ 24 \frac{1}{2} \\ \hline \hline 0 \\ \hline 0 \\ \hline 0 \\ 24 \frac{1}{2} \\ \hline 0 \\ 0 \\ \hline 0 \\ $ | 9 ¹ / ₆ 9 ¹ / ₆ 14 ³ / ₄ 14 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ | 3% | 1/16 1/16 1/16 1/16 1/16 1/16 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 | Keysear J 1/4 × 1/8 × 21 2/6 × 3/6 × 3 3/6 × 3/6 × 3 3/6 × 3/6 × 3 1/2 × 1/4 × 3 3/6 × 3/6 × 5 3/6 |
| HA 15 HB 40(11 HB 40 HC 60 HD 90 HE 150 HF 20 0 HG 250 HH 350 HH 425 HI 500 HJ 600 Also 5/8 M | 6 ³ / ₆ 9 9 11 ³ / ₈ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 19 -11 Tap | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 on 14% A RIVE C | 1/8 1/2 1/2 1/2 2/4 2/4 2/4 2/4 2/4 3 3/2 3/2 3/4 4 4 0 1" Der COUPLI | $ \begin{array}{c} 2\frac{3}{4} \\ \frac{3\frac{1}{2}}{3\frac{1}{2}} \\ \frac{3\frac{1}{2}}{3\frac{1}{2}} \\ \frac{3\frac{1}{2}}{4\frac{3}{4}} \\ \frac{5\frac{1}{2}}{5\frac{1}{2}} \\ \frac{5\frac{1}{2}}{5\frac{3}{4}} \\ \frac{6\frac{3}{4}}{7\frac{1}{2}} \\ \frac{7\frac{1}{2}}{2} \\ \end{array} $ | 10% 15% 15% 15% 15% 23% 23% 23% 29% 29% 29% 37 XEX | 3 B JECT SEAT | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 15/2 PEC | 5% 34 34 34 1 1 1 1 1 1 1 1 1 1 1 1 1 | $ \begin{array}{c} 10 \\ 12 \\ 16 \frac{1}{2} \\ 16 \frac{1}{2} \\ 20 \\ 20 \\ 20 \\ 24 \frac{1}{2} \\ \hline 20 \\ 20 \\ 24 \frac{1}{2} \\ \hline OR ST $ | 9 ¹ / ₈ 9 ¹ / ₈ 14 ³ / ₄ 14 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ | 3% | 746 746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146 | Keysear J 1/4 × 1/6 × 2) 2/6 × 3/6 × 3 3/6 × 3/6 × 3 1/2 × 1/4 × 3 5/6 × 3/6 × 5 3/6 × 3/6 × 5 3/6 × 3/6 × 5 3/6 × 3/6 × 5 3/6 × 3/6 × 5 1/6 × 5 |
| HA 15 HB 40(12 HB 40 HC 60 HD 90 HE 150 HF 20 0 HG 250 HH 350 HH 425 HI 500 HJ 400 Also 5/8 M | 6 ³ / ₆ 9 9 11 ³ / ₈ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 on 14¾ A RIVE C | 1/8 1/2 1/2 1/2 2/4 2/4 2/4 2/4 3 3/2 3/4 3/2 3/4 4 OUPLI 8x | $ \begin{array}{c} 2\frac{3}{4} \\ \frac{3\frac{1}{2}}{3\frac{1}{2}} \\ \frac{3\frac{1}{2}}{3\frac{1}{2}} \\ \frac{3\frac{1}{2}}{3\frac{1}{2}} \\ \frac{3\frac{1}{2}}{3\frac{1}{2}} \\ \frac{3\frac{1}{2}}{3\frac{1}{2}} \\ \frac{5\frac{1}{2}}{5\frac{1}{2}} \\ \frac{5\frac{1}{2}}$ | 10% 15% 15% 15% 15% 23% 23% 23% 29% 29% 29% 37 KEV | JECT | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 PEC | 5% 34 34 34 34 1 1 1 1 1 1 4 PRC REQ FICA | $ \begin{array}{c} 10 \\ 12 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 20 \\ 20 \\ 24\frac{1}{2} \\ \sqrt{2} \\ \sqrt$ | 9½ 9½ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ * 22 * 2 | $8\frac{1}{4}$ $8\frac{1}{4}$ $13\frac{1}{2}$ | 3% | 746 746 746 746 746 746 746 746 * 1546 * 1546 * 1546 * 1546 * 1546 | Keysear J J/4 x J/6 x 2J J/6 x J/6 x 3 J/8 x J/6 x 3 J/2 x J/4 x 3 J/2 x J/4 x 3 J/6 x J/6 x 5 J/6 x J/6 x J/6 x 5 J/6 x J/6 |
| HA 15 HB 40(12 HB 40 HC 60 HD 90 HE 150 HF 20 0 HG 250 HH 350 HH 425 HI 500 HJ 600 Also 5/8 M | 6 ³ / ₆ 9 9 11 ³ / ₈ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 on 14¾ A RIVE C Fig. | 11/8 11/2 11/2 2 27/6 23/4 23/4 23/4 3 31/2 33/4 4 AJ 1" Der COUPLII 3X Fig. | $\begin{array}{c} 2\frac{3}{4} \\ \frac{2}{4} \\ \frac{3}{2} $ | 105% 15½ 15½ 15½ 15½ 23½ 23½ 23½ 23½ 29% 29% 29% 29% 37 KEY | JECT SEAT CON | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 PEC SULED | 5% | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2ED U30 $\frac{1}{2}$ TOR ST NGUN | 9½ 9½ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ | $\begin{array}{c} 8\frac{1}{4} \\ 8\frac{1}{4} \\ 13\frac{1}{2} \\ 1$ | 3% 3% <td>746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146 * 146</td> <td>Keysear J 1/4 × 1/6 × 21 2/6 × 3/6 × 3 3/6 × 3/6 × 3 3/6 × 3/6 × 3 1/2 × 1/4 × 3 3/6 × 3/6 × 5 3/6 × 5 3/6 × 3/6 × 5 3/6 × 5</td> | 746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146 * 146 | Keysear J 1/4 × 1/6 × 21 2/6 × 3/6 × 3 3/6 × 3/6 × 3 3/6 × 3/6 × 3 1/2 × 1/4 × 3 3/6 × 3/6 × 5 3/6 × 5 3/6 × 3/6 × 5 3/6 × 5 |
| HA 15 HB 40(12 HB 40 HC 60 HD 90 HE 150 HF 20 0 HH 350 HH 350 HH 425 HI 500 HJ 600 Also 5/8 M | 6 ³ / ₆ 9 9 11 ³ / ₄ 13 ³ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ | 13 16 16 17½ 20½ 24 29 30 31 33 36 On 14¾ A RIVE C Fig. 1& 4 | 1/8 1/2 1/2 2/4 2/4 2/4 2/4 2/4 3 3/2 3/4 3/2 3/4 4 AJ 1" Der COUPLI 1 3X Fig. 2& 3 | 23/4 21/2 31/2 31/2 31/2 31/2 43/4 51/2 51/2 51/2 53/4 63/4 63/4 71/2 63/4 71/2 ep NG AND | 105% 15½ 15½ 15½ 15½ 23½ 26¾ 29% 29% 29% 29% 37 KEY | JECT SEAT CON | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 413/4 PEC SU Edd AJ | 5% 24 24 24 24 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2ED U36 $\frac{1}{2}$ COR ST COR ST COR ST COR ST COR ST | 9½ 9½ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ | 81/4 81/4 131/2 141/2 141/ | 3% | 746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146 | Keysear J 1/4 × 1/6 × 21 2/6 × 3/6 × 3 3/6 × 3/6 × 3 1/2 × 1/4 × 3 5/6 × 3/6 × 4 3/6 × 3/6 × 5 3/6 × 5 |
| HA 15 HB 40(12 HB 40(12 HB 40(12 HB 200 HF 2 | 6 ³ / ₆ 9 9 11 ³ / ₆ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 16 ¹ / ₂ 17 18 X. D X.F 1 ³ / ₈ | 13 16 16 16 17 ¹ / ₂ 20 ¹ / ₂ 24 29 30 31 33 36 on 14 ³ ⁄ ₄ A RIVE C Fig. 1& 4 % ₆ ³ ⁄ ₄ | 11/8 11/2 11/2 11/2 2/4 2/4 2/4 2/4 2/4 3 3/2 3/2 3/4 AJ 1" Der COUPLI 3X Fig. 2&3 3/4 | 23/4 21/4 31/2 31/2 31/2 31/2 31/2 43/4 51/2 51/2 53/4 63/4 71/2 ep NG AND BY BZ 10-32 DI | 10% 15% 15% 15% 15% 23% 23% 29% 29% 29% 29% 29% 29% 29% 7 KEY T -12% | JECT SEAT CON | $ \begin{array}{c} 16 \\ 2214 \\ 2224 \\ 2634 \\ 3134 \\ 36 \\ 404 \\ 4134 \\ 4134 \\ 750 \\ \hline 50 \\ \hline SU \\ SU \\ Go \\ AJ \\ 544 \\ AK \\ \end{array} $ | 5% 34 34 34 1 1 1 1 1 1 1 4 PRO REO FIC/ MOT NG1 1 C | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2ED U30 24 $\frac{1}{2}$ U30 24 $\frac{1}{2}$ 20 24 $\frac{1}{2}$ 24 24 $\frac{1}{2}$ 24 24 $\frac{1}{2}$ 24 24 $\frac{1}{2}$ 24 24 $\frac{1}{2}$ 24 24 $\frac{1}{2}$ 24 24 $\frac{1}{2}$ 24 $\frac{1}{2}$ 2 2 2 2 2 2 2 2 2 2 2 2 2 | 9 ¹ / ₈ 9 ¹ / ₈ 14 ³ / ₄ 14 | 81/4 81/4 131/2 132/2 142/2 142/ | 3% 3% <td>746 746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146 * 146</td> <td>Keysear J - 1/4 × 1/6 × 2) - 2/4 × 1/6 × 3 - 3/6 × 3/6 × 3 - 3/6 × 3/6 × 3 - 1/2 × 1/4 × 3 - 5/6 × 3/6 × 5 - 3/4 × 5 - 3</td> | 746 746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146 * 146 | Keysear J - 1/4 × 1/6 × 2) - 2/4 × 1/6 × 3 - 3/6 × 3/6 × 3 - 3/6 × 3/6 × 3 - 1/2 × 1/4 × 3 - 5/6 × 3/6 × 5 - 3/4 × 5 - 3 |
| HA 15 HB 40(12 HB 40(12 HB 40(12 HB 40) HD 90 HF 20 0 HF 200 HF 20 | 6 ³ / ₆ 9 9 11 ³ / ₆ 13 ¹ / ₄ 15 16 ¹ / ₂ 16 ¹ / ₂ 18 ¹ / ₂ 16 ¹ / ₂ 18 ¹ / ₂ | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 on 14% A RIVE C Fig. XD 1&4 X ₆ 1½ 1½ 20½ 24 29 30 31 33 36 Fig. 1 20 24 29 30 31 33 36 Fig. 1 20 24 29 30 31 33 36 Fig. 1 20 20 24 29 30 31 33 36 Fig. 1 20 20 24 29 30 31 33 36 Fig. 1 20 20 24 29 30 31 33 36 Fig. 20 24 29 30 31 33 36 Fig. 20 24 29 30 31 33 36 Fig. 20 24 29 30 31 33 36 Fig. 20 24 29 30 31 33 36 7 20 20 20 20 24 29 30 31 33 36 7 7 8 7 8 4 4 29 20 20 20 20 20 20 20 20 20 20 | 1/8 1/2 1/2 2/4 2/4 2/4 2/4 3 3/2 3/2 3/4 3/2 3/4 4 OUPLI 8x Fig. 2&3 X 4 1/4 1/4 | 23/4 21/4 31/2 31/2 31/2 31/2 31/2 31/2 31/2 31/2 31/2 31/2 51/2 | 10% 15% 15% 15% 23% 23% 23% 29% 29% 29% 29% 37 KEV T -12% | 3 3 3 8 JECT SEAT CON Y 3 5 8 5 7 6 8 7 6 8 7 6 8 7 6 8 7 6 8 7 8 | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 PEC MH SU Edd AJ SU Edd AJ SU Edd AJ SU Edd AJ SU Edd BB | 5% 34 34 34 1 1 1 1 1 4 PKO REO FICA MOI 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ 20 24 $\frac{1}{2}$ 24 $\frac{1}{2}$ 25 $\frac{1}{2}$ 26 $\frac{1}{2}$ 27 \frac | 9 ¹ / ₈ 9 ¹ / ₈ 14 ³ / ₄ 14 ³ / ₄ 14 ³ / ₄ 14 ³ / ₄ * 22 * 2 * | $ \begin{array}{c} $ | 3% 3% <td>746 746 746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146</td> <td>$\begin{array}{c} \text{Keysear } \\ \begin{array}{c} 1/4 \times 1/6 \times 2 \\ 2/6 \times 2/4 \times 2 \\ 2/6 \times 2/4 \times 3 \\ 3/6 \times 3/6 \times 3 \\ 3/6 \times 3/6 \times 3 \\ 5/8 \times 3/6 \times 3 \\ 5/8 \times 3/6 \times 5 \\ 3/4 \times 3/6 \times 5 \\ 1 \times 3/2 \times 7 \\ \hline \end{array}$</td> | 746 746 746 746 746 746 746 746 746 * 146 * 146 * 146 * 146 * 146 * 146 | $\begin{array}{c} \text{Keysear } \\ \begin{array}{c} 1/4 \times 1/6 \times 2 \\ 2/6 \times 2/4 \times 2 \\ 2/6 \times 2/4 \times 3 \\ 3/6 \times 3/6 \times 3 \\ 3/6 \times 3/6 \times 3 \\ 5/8 \times 3/6 \times 3 \\ 5/8 \times 3/6 \times 5 \\ 3/4 \times 3/6 \times 5 \\ 1 \times 3/2 \times 7 \\ \hline \end{array}$ |
| HA 15 HB 40(12 HB 40(12 HB 40(12 HB 40(12) HD 90 HE 150 HF 20 0 HG 250 HH 350 HH 425 HI 500 HJ 400 HJ 600 HA 15 HB 40 HC 60 | $\begin{array}{c} 6\frac{3}{6} \\ 8 \\ 9 \\ 9 \\ 9 \\ 11\frac{3}{6} \\ 13\frac{1}{4} \\ 15 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 18\frac{1}{2} \\ 18\frac$ | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 on 14% A RIVE C Fig. XD 1& 4 % ₆ 3/4 % ₆ 1½ % ₆ 1½ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 23/4 21/2 31/2 31/2 31/2 31/2 31/2 31/2 31/2 31/2 31/2 31/2 51/2 51/2 51/2 53/4 63/4 71/2 63/4 71/2 ep NG AND BY BZ 10-32 21/2 4.20 21/2 | 10% 15% 15% 15% 23% 23% 23% 29% 29% 29% 29% 37 KEV T -12% -17% | 3 8 JECT SEAT CON V Xy x 3/9 x V Xy x 3/9 x | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 413/4 PEC SU Lefd AJ 51/4 BB 61/4 BB | 5% 34 34 34 1 1 1 1 4 PRC RFC MOT NG1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2ED U10 TOR ST 1/2 1/8 3.1/4 1/8 3./9 | 91/6 91/6 91/6 91/6 91/6 91/6 91/6 | 81/4 91/4 131/2 141/2 141/ | 3% 3% <td>746 746 746 746 746 746 746 746 * 1546 * 1546 * 1546 * 1546 * 1546 * 1546</td> <td>1/4 x 1/6 x 21 2/6 x 2/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 2/6 x 3/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 5 3/7 x 3/6 x 5 3/8 x 3/6 x</td> | 746 746 746 746 746 746 746 746 * 1546 * 1546 * 1546 * 1546 * 1546 * 1546 | 1/4 x 1/6 x 21 2/6 x 2/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 2/6 x 3/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 5 3/7 x 3/6 x 5 3/8 x 3/6 x |
| HA 15 HB 40(11) HB 40(11) HB 40(11) HB 40(11) HD 90 HD 90 HD 90 HD 90 HD 90 HD 90 | $\begin{array}{c} 6\frac{3}{6} \\ 8 \\ 9 \\ 9 \\ 9 \\ 11\frac{3}{6} \\ 13\frac{1}{4} \\ 15 \\ 16\frac{1}{2} \\ 16\frac$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c c} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 &$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 105% 15½ 15½ 15½ 15½ 15½ 23½ 23½ 23½ 23½ 23½ 23½ 23½ 23 | 3 8 JECT SEAT CON V V V V V V V V V V V V V V V V V V V | 16 221/4 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 414/4 413/4 414/4 4 | 5% 24 24 24 24 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2 V2 V2 V2 V2 V2 V2 V2 V2 V2 | 9½ 9½ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ | 81/4 81/4 131/2 141/2 141/ | 3% 3% <td>1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16</td> <td>1/4 x 1/6 x 21 2/6 x 2/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 1/2 x 1/4 x 3 5/6 x 3/6 x 4 3/6 x 3/6 x 5 3/6 x 3/6 x</td> | 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 | 1/4 x 1/6 x 21 2/6 x 2/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 1/2 x 1/4 x 3 5/6 x 3/6 x 4 3/6 x 3/6 x 5 3/6 x 3/6 x |
| HA 15 HB 40(11) HB 40(11) HB 40(11) HB 40(11) HD 90 HE 150 HF 20 0 HG 250 HH 350 HH 425 HI 500 HH 425 HI 500 HH 425 HI 500 HA 15 HB 40 HC 60 HD 90 HE 150 | $\begin{array}{c} 6\frac{3}{6} \\ 6\frac{3}{6} \\ 9 \\ 9 \\ 9 \\ 11\frac{3}{6} \\ 13\frac{1}{4} \\ 15 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 19 \\ -11 \text{ Tap} \\ AX. D \\ XF \\ 1\frac{3}{8} \\ 2\frac{1}{8} \end{array}$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c c} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 &$ | $\begin{array}{c} 2\frac{3}{4} \\ 2\frac{3}{4} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ \frac{3}{2} \\ \frac$ | 105% 15½ 15½ 15½ 15½ 23½ 23½ 23½ 23½ 29% 29% 29% 37 KEV T -12½ -17½ 17½ 22½ 22½ 22½ | 3 3 3 8 JECT SEAT CON V 3/8 × 3/8 × 3/8 × | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 416/4 TSO PEC MH SU Edd AJ 51/4 BE 40/4 BE 51/4 BE | 5% 34 34 34 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2ED U30 24 $\frac{1}{2}$ V2ED U30 24 $\frac{1}{2}$ V2ED U30 24 $\frac{1}{2}$ U30 24 $\frac{1}{2}$ 24 $\frac{1}{2}$ U30 24 $\frac{1}{2}$ 24 $\frac{1}{2}$ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 9½ 9½ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ 14¾ | 81/4 91/4 131/2 141/2 141/ | 3% 3% <td>1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16</td> <td>1/4 x 1/6 x 21 2/6 x 3/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 1/2 x 1/4 x 3 3/6 x 3/6 x 3 1/2 x 1/4 x 3 3/6 x 3/6 x 5 1/6 x 3/6 x 5 <t< td=""></t<></td> | 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 * 1/16 | 1/4 x 1/6 x 21 2/6 x 3/6 x 3 3/6 x 3/6 x 3 3/6 x 3/6 x 3 1/2 x 1/4 x 3 3/6 x 3/6 x 3 1/2 x 1/4 x 3 3/6 x 3/6 x 5 1/6 x 3/6 x 5 <t< td=""></t<> |
| HA 15 HB 40(1) HB 40(1) HB 40(1) HB 40(1) HB 40(1) HD 90(1) HD 90(1) HA 15 HB 40(1) HC 60(1) HD 90(1) HE 150(1) HF 200(1) | $\begin{array}{c} 6\frac{3}{6} \\ 0 \\ 0 \\ 9 \\ 9 \\ 9 \\ 11\frac{3}{6} \\ 13\frac{1}{4} \\ 15 \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 16\frac{1}{2} \\ 19 \\ 0 \\ \text{AX. D} \\ \frac{13\frac{1}{6}}{2\frac{1}{6}} \\ \frac{21}{6} \\ \frac{21}{6} \\ \frac{21}{6} \\ \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \\ \frac{23}{6} \end{array}$ | 13 16 16 16 17½ 20½ 24 29 30 31 33 36 on 14% A RIVE C Fig. XD 1& 4 %6 1½ %6 12 %6 1 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 2\frac{3}{4} \\ \frac{3}{4} \\ \frac{3}{2} $ | 10% 15% 15% 15% 23% 23% 23% 29% 29% 29% 29% 29% 37 KEV T -12% -12% 22% 26% 30 | 3 3 3 8 JECT SEAT CON Y X10 X 30 X X6 X 40 X X6 X X6 X 40 X X6 X | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 PEC PEC MH SU Ed AJ SU Ed AJ SU Ed AJ SU Ed AJ SU Ed SU ES SU | 5% 34 34 34 34 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2ED U30 $\frac{1}{2}$ U30 $\frac{1}{2}$ ENGIN 1/8 1/8 1/2 RIVE CO | 9 ¹ / ₈ 9 ¹ / ₈ 14 ³ / ₄ 14 | 81/4 81/4 131/2 132/2 142/2 142/ | 3% | 746 746 746 746 746 746 746 746 746 * 1546 * 1546 * 1546 * 1546 * 1546 | Keysear 1/4 x 1/6 x 21 2/6 x 3/6 x 3 3/6 x 3/6 x 3 1/2 x 1/4 x 3 5/6 x 3/6 x 3 1/2 x 1/4 x 3 5/6 x 3/6 x 5 3/6 x 3/6 x 5 3/6 x 3/6 x 5 1/6 |
| HA 15 HB 40(1) HB 40(1) HB 40(1) HB 40(1) HD 90 HD 90 HE 150 HI 500 HI 425 HI 500 HI 425 HI 500 HA 15 HB 40 HC 60 HD 90 HE 150 HE 150 HE 200 HG 250 | $\begin{array}{c} 6\frac{3}{6} \\ 8 \\ 9 \\ 9 \\ 9 \\ 11\frac{3}{6} \\ 13\frac{1}{4} \\ 15 \\ 16\frac{1}{2} \\ 18\frac{1}{2} \\ 18\frac{1}{2} \\ 18\frac{1}{2} \\ 2\frac{1}{8} \\ 3\frac{1}{8} \\ 31$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c} 2\frac{3}{4} \\ \frac{2}{4} \\ \frac{3}{4} \\ \frac{3}{2} $ | 10% 15% 15% 15% 23% 23% 23% 29% 29% 29% 29% 37 KEV T 17% 17% 17% 22% 26% 30 34 | 3 3 3 8 JECT SEAT CON V 3/10 × 3/10 × 1 2/10 × 1/10 × 1/10 × 1 2/10 × 1/10 | 16 221/4 221/4 221/4 263/4 313/4 36 401/4 413/4 413/4 410/4 413/4 PEC MH SU Ed AJ SU Ed AJ SU Ed AJ SU Ed BB SU ES SI BB BX | 5% 34 34 34 34 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 12 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ 20 20 24 $\frac{1}{2}$ V2 U30 $\frac{1}{2}$ U30 $\frac{1}{2}$ | 9 ¹ / ₈ 9 ¹ / ₈ 14 ³ / ₄ 14 ³ / ₄ * 22 * 20 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 | 8 ¹ / ₄ 8 ¹ / ₄ 13 ¹ / ₂ 13 | 3% 3% <td>746 746 746 746 746 746 746 746 746 746</td> <td>Keysear 1/4 x 1/6 x 21 2/6 x 2/6 x 3 3/6 x 3/6 x 5 3/6 x 3/6 x 53 3/6 x 3/6 x 53 3/6 x 3/6 x 53 1 x 3/2 x 7 DIAGRAM Fig. 2 1 1 1 1 1 1 1 1 1 1 Fig. 2</td> | 746 746 746 746 746 746 746 746 746 746 | Keysear 1/4 x 1/6 x 21 2/6 x 2/6 x 3 3/6 x 3/6 x 5 3/6 x 3/6 x 53 3/6 x 3/6 x 53 3/6 x 3/6 x 53 1 x 3/2 x 7 DIAGRAM Fig. 2 1 1 1 1 1 1 1 1 1 1 Fig. 2 |
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Ses: Drive Shaft "C" plus .000 minus .001; Base Rabbet 'AK" plus .002 plus .005; Coupling Bore "BX" plus .0005 plus .0015; Motor Stand Rabbet "AK1" plus .000 minus .005 – Unfinished cast surfaces subject to normal variation, 921 PARKER ST. • BERKELEY, CALIF. 94710 • AREA (415) 845-7377



| 1ARCH 19, 1975 | SAN JOSE, | | | FIRST CLASS |
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| ENVIRONMENTAL PRODUCT O. DRAWER 2385 HICKORY, NORTH CAROLI | S, INC. NA 28601 | | | |
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| AR. BOB DARNELL | SINC | MOTOR MODEL: | | |
| INVIRUMENTAL PRODUCT | S, INC. | OUTLINE NO: | GEM 229 | 16F |
| IDT TO: | | TYPE: | к | |
| GENERAL ELECTRIC CO. | | FRAME : | 213TP10 | |
| P. 0. BOX 10367 | 04 | HORSEPOWER: | 7.5 | |
| TREENSDORUS N. C. 274 | 04 | RPM: | 1800 | |
| MDT TO: | | PHASE: | 3 | |
| BOT SUMMIT AVE. | | CYCLES: | 60 | |
| GREENSPORO, N. C. 274 | 05 | VOLTS: | 230/460 | 1200 |
| | | THRUST: | HIGH | |
| A | PPROVED | ENCLOSURE : | OPEN DR | IPPROOF, WP1 |
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| J. K. TIMMC | INS & ASSOCIA | ATES SERVICE | FACTOR PLG. 1" B | ORE |
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Coupling dimensions on reverse side.

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1330 1330

These motors meet NEMA specifications for weather-protected Type motors.

1615/1

* 'AK' diameters of 8 ¼ inches will some within the limits of +0.003 inch, -0.000 inch; diameters of 13 ½ inches will come, within the limits of +0.005 inch, -0.000 inch.

[‡] The total height of pump shaft and locking nut above top of coupling must not exceed dimension XH.

§ For 3600 rpm, Frames B324TP12 and B324TP16, conduit box dimensions are same as for Frames B326TP12 and B326TP16.
 θ For 3600 rpm in this frame size, refer to the Company.

Frames 213TP10 through B286TP16 have grease-lubricated upper guide Frames 2131P10 through B2861P16 have grease-lubricated upper guide bearing. Rev-9606vppm: "Frames B404TP16 through B405TP20 inclusive maximum shaft permissible 1.751 inches. Nonreverse coupling assemblies, Frames 213TP to B286TP are complete, nonreverse assemblies, Frame B324TP to B445TP, must be used together

with appropriate self-release coupling. Provided mounting conditions permit, conduit box may be turned so that entrance can be made upward, downward, or from either side. For shipping weight add 5 per cent to the above net weights.

11/16

For ESTIMATING ONLY unless endorsed for construction.

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B444TP20

8445TP16 B445TP20

> GEM-2296F From 992C375

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APPROVED SUBJECT TO REQUIREMENTS OF SPECIFICATIONS J. K. TIMMONS & ASSOCIATES CONSULTING JENGINEERS M. K.

Peabody S. F., Inc. P. O. Drawer 7248 Jacksonville, North CarolinaA4540

Attn: Mr. Felix E. Acosta

Dear Mr. Acosta:

Our recommendations on Well R would be to set:

60! of 18" Pit Casings
120' of 8" Gav. Pipe
20' of 8" Stainless Steel Well Screen
20' of 8" Gav. Pipe
10' of 8" Stainless Steel Well Screen
10' of 8" Gav. Pipe

We feel like this well would produce 200 GPM of water.

Very truly yours;

Carolina Well and Pump Co., Inc.

Want Frife 1

Worth F. Picard P. O. Box 1085 Sanford, North Carolina 27330

WFP/slm

| - | UTILITIES EXPANSION |
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| Contraction of the local distribution of the | MARINE CORPS AIR STATION |
| Ser in | CONTRACT NG2470-73-C-1:35 |
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| | ARP. BEADING DEADLANTE 12/Max, 197 |
| | Job No. 7409 |

Peabody S. E., Inc. P. O. Drawer 7248 Jacksonville, N. C. 28540

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UTILITIES EXPANSION MAR CORPS AIR STATION NEW RIVER NORTH CAROLINA DEPARTMENT OF HUMADORESONBEEN62470-73-C-1155 CHEMICAL ANALYSIS OF WAREKSONVILLE, NORTH CAROLINA Division of Health Services. Lastercatory Section CONTRACT P. O. Box 23047, Raleigh, North Carton 19976110wg. No._ (see instructions on revease. sy de Holembare 12 hours 197 PEABODY-PETERSEN CO. Type of Supplier: Job Nd. Name of Comer 740 sociation or Supply: Industri 2-Sanitary District 7-Institution 3-Mobile Home Park 8-Private 4-Community 9-Other Well No. R Source of Water: County: Washer 2 1 I-Ground APPROVE Dichased 2-Surface Report to: 1. Janet 7 Pickard O RIU 2-House tab Source of Psarto G: iddress: 124 1085-[I-Well tap SPECIFIC] 3-Distribution Tap MONS & ASSOCIATES TC 27:00 selond. Type of Sankle:T ENGENEERS Ratph II' Here TING Collected by:. Type of Treatment: mzz Date Collected: 5-16 75 Time: _ CC pm BY:None 5-Lime 6-Soda Ash 1 AUa 76 1-Chlorinated Lamplet # 2 DALLISTICT Rezarts: 7-Polyphosphate 104 of 64 Gar 3-Filtered 1261 to 130 8-Water Softener 4-Alum 9-Other Analysis Desired: I-Complete analysis (18 tests)] 2-Partial analysis (9 tests) GLA) Dr= ANALYSIS Color . (000) units Ph (od. 0) 15 8. Results in Parts per Million 313 Alkalinity CaCO2 (000) Fluorice . (0.00)Total Haroness (000) 20 Arsenic (*0.00)1-07 < 0.01 ("00.00) < 0.05 Cachium (0.00)< 0.03 "anganese Chromium⁺⁶ ('00.00) (*0.00) < 0.05 2 Terbicity SiO2 < 0.05 (000) Copper (00.00)scidit, CaCoa (000)Lead (0.00)< 0.05 C-lorice (000) 31 Zinc (.00.00) 0.05 Sodiun (000) 125 5.2 1.5 9.2 Potassium (00.0)



NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES CHEMICAL ANALYSIS OF WATER Division of Health Services. Laboratory Section P. O. Box 28047. Raleigh. North Carolina 27611 Complete all items above. Heavy Line (see instructions on reverse side) Type of SAPPROVED REQUIREMENTS OF Name of Olares seciation or Supply: ASSOCIATION Inc.strial SUBJEC Address: no it. BaberTING ENGINEERS Sharc County: _ [] 2-Surface MAZ - Tanaset Report to: Source of Sample: 2-House Tap 1344.15FS Address: . TE- -Wert tap 3-Distribution Tap fail no 27330 Type of Sample: - I-Raw ipt is warnes [] 2-Treated Collected by: Type of Treatment: 25- Time: 4.00 pm Date Collectes: -1-15 O-None 5-Line I-Chlorinated 101 6-Soca Ash Remarks: 168' to 192 2-Fluoridated 7-Polyphosphate Semple le feel lit 3-Filtered 8-Water Softener 4-Alum 9-Other Analysis Desired:

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Peabody S. E., Inc. P. O. Drawer 7248 Jacksonville, N. C. 28540

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CRANE CO. - 884 SOUTH BROADWAY . SALEM, OHIO 44460

MING PUMPS

| Envi | ronm | enta | L Pro | ducts. | Inc |
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| Gentlemen: | | | |

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Purchase Order 2189 Deming Order 6108 Project:

6108 S/N T-74759

Attached is data as listed below

| 217: | DESCRIPTION | NUMBER & REMARKS: |
|------|------------------------------------|---|
| 11 | DIMENSION DRAWING | DATED |
| 11 | PERFORMANCE CURVE | |
| 11 | BULLETIN | Fig. 4700 |
| 11 | INSTRUCTION MANUAL WITH PARTS LIST | я н |
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| 1 | | |

Subject:

Above submittal is for APPROVAL and we are withholding the order from entry for production awaiting receipt of approved data at this office along with full information to enable us to proceed. See note * below.

) Above submittal is for record and file. We are proceeding with production in accordance with same. Please note that any changes after this date may result in delays and possible additional charges.

) Above for record and file.

REMARKS:

(

Richard Fergason Turbine Dept.

Application Engineering Dept.

* NOTE: When for approval, attached copy of this letter returned with your release will facilitate identification and handling.

(date)

FILE

APPROVED FOR PRODUCTION



A King and SSTHA HOLES the Part of the lost MODEL HAYS COME RIGHT ANGLE GEAR HH JORNE 1:1 RATIO DIMENSION 14- 105 70-0 A B 123/2 OA 8 NESYTE C 1AA 75CHAROE D 67 EE E F 9" FF H 15/2 66 6" K HH 33 M 14 KK N R 19/10 5 123/4 MM 91/2 NN AA V 00 54 RR W 55 X 53/11 5:25/0 1.1 Y RECESS FOR / CASING EXTENSION. 0-11-Z FOR WELL CASING - SMALLER. 65 THAN K USE ALTERNATE : ARRANGEMENT SHOWN AT LEFT. SPECIFICATIONS DEMING Fig. 4700 Vertical Turbine Pump designed for 150 GPM at _____ feet head, including:-71/2 HP 1750 RPM Volt Phase _ Cycie G.E. Vertical Hollowshaft Motor_ MOTOR FURNISHED BY OTHERS SD-44-10 Siuriace Discharge Head with ____ inch discharge flange with bolts and gasket x 114" Column an I shaft with 70 feet. 4 RUBBER _Bearings on _10 foot centers 6 inch ENAMELED _ Boyl Assembly 8_Stage___ using Impeller 22957 from Curve PC-3186 TT-SIZE · 10 feet 4 -inch BLACK STEEL suction pipe 4 inch KEVSTONE TYPE TO GALY. strainer SUCTION APEL STORE When properly endorsed this print is correct for ENVIRONMENTAL PRODUCTS INC. Customers 1: 0. 2189 - Turinger No. 1. 74759 Date 4-7-75: y Marind E. Snyder So. 06/08-00 Destroy all PREVIOUS P DESTROY ALL PREVIOUS PRINTS VERTICAL TURBINE PUMT FIG. 47. SIZE TITLE WITH RIGHT ANGLE GEAR PRIVE THE DEMING CO. SALES ONIO Yoy CT DATE A BCALT DRAWING NO. 18464 Hann 24 A Cateran Ja







APPROVED SUBJECT TO REQUIREMENTS OF SPECIFICATIONS J. K. TIMMONS & ASSOCIATES CONSULTING ENGINEERS BY: MJE BY: AMA

Peabody S. E., Inc. P. O. Drawer 7248 DATE: Jacksonville, North Carolina 28540

Attn: Mr. Felix E. Acosta

Dear Mr. Acosta:

Our recommendations on Well R would be to set:

60' of 18" Pit Casings 120' of 8" Gav. Pipe 20' of 8" Stainless Steel Well Screen 20' of 8" Gav. Pipe 10' of 8" Stainless Steel Well Screen 10' of 8" Gav. Pipe

We feel like this well would produce 200 GFM of water.

Very truly yours;

Carolina Well and Pump Co., Inc.

Want Frife 1

Worth F. Picard P. O. Box 1085 Sanford, North Carolina 27330 CK 8 ARP. B. HOLY: PETERSEN CO. Job No. 7409

UTILITIES EXPANSION

WFP/slm

Peabody S. E., Inc. P. O. Drawer 7248 Jacksonville, N. C. 28540

RECT JUN 1 1 1975



NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CHEMICAL ANALYSIS OF WATER Division of Health Services. Laboratory Section P. O. Box 28047, Raleigh. North Carolina 27611

> Complete all Items above Heavy Line (see instructions on reverse side)

Name of Owner APPEROVED an REQUIREMENTS AS OF ation or Supply: _____ 5-Aspfiation 7-Institution R SUBJEC Vacksonville, n.C. ATABNS Address:] 8-Private & ASSOCIATES NG ENGINEERS County: Conclari 3-Both pr 22 -4-Purchased Report to: Windh 7 Pulse AUG 70 2=House Tap Source of Sample: Address: Fory 1085 RY: I-Well tap 3-Distribution Tap Raipl W IVanuon Type of Sample: I-Raw 2-Treated Collected by: _ Type of Treatment: Date Collected: 1.15 75 __ Time: 4.00pm 0-None 5-Lime I-Chlorinated 6-Soda Ash 168' to 172' Sample T Remarks: 2-Fluoridated 7-Polyphosphate 3-Filtered 8-Water Softener 4-Alum 9-Other Analysis Desired: I-Complete analysis (18 tests)] 2-Partial analysis (18 tests) HIGH - MIX or ANALYSIS Color (000)15 units 8.6 Ph (00.0)Results in Parts per Million Alkalinity CaCO2 334 (000) Fluoride (0.00)1. 70 Total Hardness (000) Arsenic (0.00)0.01iron (00.00)< 0.05 Cadmium (0.00)< 0.01 Manganese (*00.00) Chromium⁺⁶ (0.00)< 0.05 Turbidity SiO2 (000) 1.5 < 0.05 Copper (00.00)Acidity CaCO2 (000) 0 Lead (0.00)< 0.05 Chloride 38 (000) Zinc (00.00)0.06 Calcion Sodium (000) 165 4.8 * Magnesium Potassium 97 (00.0)

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| D | ivision of Health Ser | vices, Laborato | ory Section | |
| P | . 0. Box 28047, Raleig | gh. North Carol | ina 27611 | TO OF |
| | Complete all Ite (see instruction | ems above Heavy | FROVED | ENTS |
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| or Supply: | Server S | PPTI-MORE | V Bistrig ASS | OG4Dtrtal 7-betitution |
| Address: <u>Address:</u> | <u> </u> | 3-TIPANIA | Whe Park ENGIN | EERivate |
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| Report to: 100000 | | BATE: Bource, of Sampl | e: [] | 2-House Tap |
| Address: 1085 | | [] [] I-Well ta | p [] | 3-Distribution Tap |
| Sceford, T | C 27330 | Type of Sample: | [] | |
| Collected by: Raiph 111 | Harrison | [1] I-Raw | .[] | 2-Treated |
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| | | [] I-Chlqrin | at MARINE CORP | S-APR SALATION |
| Remarks: Sample # 2 | , | 2-Fludrid | ated NEW | REPhosphate |
| 126' to 130 | | [] 4-Alum | JACKSONVILLE, | NORTH CAROLINA |
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NO YIM IAN OF 02 03 04 UTILITIES EXPANSION ARINE CORPS BASE MARINE CORPS AIR STATION NEW RIVER CONTRACT N62470-73-C-1155 JACKSONVILLE, NORTH CAROLINA TI AUG 1975 20/21/22/2 SPEC. DUNTRACT PAR. NO. 154.3.0 Si di Si Si Vile CK. & 1973 APP. BY ICANADATE mi PEABODY-PETERSEN CO. Job No. 7409

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| | NORTH CAL Division o P. O. Box : (| ROLINA DEPART CHEMICAL ANA f Health Ser 28047, Raleig Complete all iter see instruction | MENT OF HUMAN RESOU LYSIS OF WATER vices, Laboratory Se h, North Carolina ms above Heavy Line s on reverse side) | RCES ection 27611 | |
| Name of Owner or Supply: <u>CAMP L</u> Address: <u>JACKSO</u> | EJUINE NVILLE, N. C. Well No. | R | Type of Supplier: [] I-Municipal [] 2-Sanitary Dist [] 3-Mobile Home P [] 4-Community | rict []5 ark []7 9 | -Association -Industrial -Institution -Private -Other |
| County: <u>ONSLOW</u> Report to: <u>WORTH</u> | F. PICKARD | | Source of Water: [X] 1-Ground [] 2-Surface | { } 3. | -Both -Purchased |
| Address: BOX 10 | 85 | nan ontra Canada en el Marte Canada en el contra el contra en el contra en el contra en el contra en el contra en el contra en el contr Anteres en el contra en el contra en el contra en el contra en el contra en el contra en el contra en el contra | Source of Sample: [X] I-Well tap | [] 2· 3· | -House Tap -Distribution Tap |
| SANFOR | D, N. C. 27330 H HARRISON | | Type of Sample: [X] I-Raw | [] 2· | -Treated |
| Date Collected: Remarks: ON PUM MARI | 7/10/75 Time: PING TEST NE BASE | 10:00 p.m. | Type of Treatment: [X] O-None] I-Chlorinated] 2-Fluoridated] 3-Filtered [] 4-Alum | [] 5· [] 6· [] 7· [] 8· [] 9· | -Lime -Soda Ash -Polyphosphate -Water Softener -Other |
| | | | Analysis Desired: [X] I-Complete analy [] 2-Partial analys | ysis (18 test sis (9 tests) | (s)) |
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| Çolor | (000) | units | Ph | (00.0) | 8.1 |
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| Alkalinity CaCO ₃ | (000) | 315 | Fluoride | (0.00) | 1.62 |
| Total Hardness | (000) | 25 | Arsenic | (*0.00) | < 0.01 |
| l ron (| 00.00) | 0.05 | Cadmium | (*0.00) | < 0.01 |
| Manganese | (00,00) | | Chromium ⁺⁶ | (20.00) | |

(^0.00) Chromium < 0.05 0.03 Turbidity SiO2 (000) Copper (*00.00) 0.5 < 0.05 Acidity CaCO3 (000) Lead (*0.00) < 0.05 5 Chloride (000) Zinc (*00.00) 30 0.10 Sodium (000) 7.2 150 Calcium (00.0) Potassium 1.7 9.0 Magnesium July 17, 1975 July 23, 1975 Date received

Date reported .

HEALTCAL ANALYSIS OF WATER

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PUMPING TEST DATA

| Well Owner: Air Station - Camp Lejune | and the second second | Address : | Jacksonville, North Carolina |
|---------------------------------------|-----------------------|----------------------|------------------------------|
| Pumped Well No.: Location: | | antagan denkis) A | County: Onslow |
| Observation Well Locations: | Observation | Wells | |
| Remarks: | | and the strength | |

Pumping rate measured with: Crifice 3" X 4" ___ Water levels measured with: ___ Electric.Tape

| 一些中心 | | | Pump W | Vell Data | | | |
|---------------------|----------------------------------|---|---------------------------------------|--|---|---|--|
| Date and Time | Elapsed Time Min. | Piezometer Tube Reading Inches | Pumping Rate GPM | Pump Discharge Pressure | Altitude Gauge Reading Feet | Fee\$ to Water | Remarks |
| ?-8-75 | Call States | | lingual transformation and the second | | and the second | $= \int_{0}^{\infty} \int_$ | and the second of the second |
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| 9:00 | the standard and the | Pumping T | est Started | ·通信标准格。 - 建农车 - 在 | e shakara a fiyofada ku s | | Water clear |
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PUMPING TEST DATA

| Test conducted by: <u>Carolina Well and Pump</u> Well Owner: <u>Air Station - Camp Leiune</u> | Company, Inc. By: Ralph Harrison Address: Jacksonville, North Carolina County: Opelow |
|--|---|
| Observation Well Locations: Airline Lengths: Pumped Well | Observation Wells |
| Remarks: | |

Pumping rate measured with: ______ Water levels measured with: ______ Electric Tape

| 計算的ななでい | | Pump V | Well Data | | | |
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| Elapsed Time Min. | Piezometer Tube Reading Inches | Pumping Rate GPM | Pump Discharge Pressure | Altitude Gauge Reading Feet | to Water | Remarks |
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PUMPING TEST DATA

| Inc. Wall and Pump Company, Inc. | By: Ralph Harrison |
|---|---------------------------------------|
| Test conducted by: Carolina Well and Tump compared | Address: Jacksonville, North Carolina |
| Rumped Well No.: R Location: | Councy |
| Observation Well Locations: Observation Airline Lengths: Pumped Well Observation | n Wells |
| Remarks: Onifice 3" X 4" Water | levels measured with: Electric Tage |
| Pumping rate measured with: rate rate | |

| · A BEAR | 2013月10日1日 | papina and a second second | Pump V | Vell Data | | | |
|-------------|--|--|------------------------------------|--|--|---|--|
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| me of Owner Supply: <u>Com LLJANE</u> daress: MACKSONVILLE NC | | Type of Supplier | EABODY PETER Distrideb ND-77 | Private |
| eport to: MORTH F.FICKARD | Welli No. | Source of Waters I-Ground 2-Surface Source of Sample: | []]3- u- ; []]2- | Both Purchased House Tap |
| dress: | | Type of Sample: [JR] I-Raw | j 3- [] 2- | Treated |
| ate Collected | | Type of Treatment [X] 0-None | t: | Lime Soda Ash |
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If enclosures are not as noted, kindly notify us at once.
LETTING OF TRANSMITTAL

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1930 Silver Star Road, 1 P. D. Rox 7934 Orlando, Florida 52304 1. Telephone 303

Peabody Felersen

June 11, 1975

Peabody S. E., Inc. P. O. Drawer 7248 Jacksonville, North Carolina 28540

Attn: Mr. Felix E. Acosta

Dear Mr. Acosta:

Our recommendations on Well R would be to set:

60' of 18" Pit Casings 120' of 8" Gav. Pipe 20' of 8" Stainless Steel Well Screen 20' of 8" Gav. Pipe 10' of 8" Stainless Steel Well Screen 10' of 8" Gav. Pipe

We feel like this well would produce 200 GPM of water.

Very truly yours;

Carolina Well and Pump Co., Inc.

Worth F. Picard P. O. Box 1085 Sanford, North Carolina 27330

| 1200 | UTILITIES EXPANSION |
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Peabody S. E., Inc. P. O. Drawer 7248 Jacksonville, N. C. 28540

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