

11/12/82  
(DATE)

L2K07  
(LOT)

4448\* LBS.  
(EST WT)

COMTYP JOB NAME: 01YE721DMM

BLENDED BACK: CG 01, PQ 98, (CODE) (LOT) (POUNDS)

| EQUIP<br>MENT | NAME: MOLYBDATE RED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | USE<br>LBS | N-CODE              | ACCT<br>LBS        |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|--------------------|
| PREP<br>1     | 1 OBTAIN FOR S-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 68         | 108-A               | 68                 |
|               | 2 OBTAIN FOR S-34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 600        | 4-A                 | 600                |
|               | 3 OBTAIN FOR S-38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 120        | 3-A                 | 120                |
|               | 4 OBTAIN FOR S-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 195        | 32-D                | 195                |
|               | 5 OBTAIN FOR S-44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 350        | 3-A                 | 350                |
|               | 6 OBTAIN FOR S-47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 61         | 711-BD              | 61                 |
| 351<br>2      | 7 WEIGH IN: OPTR _____, MK _____, T- _____, 37.56%<br>OPTR _____, MK _____, T- _____, _____%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4018       | 10-D                | 1509               |
| 359<br>3      | 8 WEIGH IN: OPTR _____, MK _____, T- 360, 33.03%<br>OPTR _____, MK _____, T- _____, _____%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 736        | 423-D               | 243                |
| 358<br>4      | 9 RUN 10" (500 G) WATER INTO V-358<br>10 RUN V-359 INTO V-351 & PUMP IN V-351<br>11 ADJ TO 55" (2600 G)<br>12 SIFT IN N-108-A FROM S 1<br>13 STIR 5 MIN & RECORD: PH 10.1 (9.0-10.0)<br>14 ADJ TO PH 9.8-9.9 & RECORD: PH 9.8<br>ASSUME 50%<br>ASSUME 66%<br>15 RUN INTO V-351 FROM BADGER METER<br>OPTR _____, MK 3, 36.84%<br>16 PUMP FROM V-351 TO V-358<br>17 FLUSH V-351 & PUMPING LINES WITH 1000G<br>WATER INTO V-358<br>18 ADJ TO 74" (3530 G) AT 67-69°F<br>RECORD: VOL 74" & 67" *F<br>19 STIR 5 MIN & RECORD: PH 7.2 (7.2-7.4) &<br>G/ML 1.058 (1.055-1.058)<br>NOTE IF G/ML OUT OF LIMITS FILL OUT CHECK<br>LIST & ATTACH. TAKE 1 QT SAMPLE. | 146        | 7-D<br>33-D<br>28-D | 1<br>1<br>54<br>45 |
| SV<br>5       | 20 RUN 20" (996 G) WATER INTO V-<br>21 RECORD N-41-D STORAGE TANK TO PUMP FROM.<br>CIRCLE ONE: 402 410 411 420 424 425<br>CHECK WITH CU SUPV:<br>*STORAGE TANK MUST CONTAIN AT LEAST 1900<br>GAL: 402=39", 410=20", 411=38", 420=20",<br>424=20", 425=25"<br>*STORAGE TANK MUST HAVE STIRRED AT LEAST<br>20 MIN SINCE LAST ADDITION OR ADJUSTMENT<br>*STORAGE TANK MUST BE ISOLATED UNTIL ALL<br>PUMPING FOR THIS BATCH IS COMPLETE<br>22 SET METER FOR 300 G & PUMP TO SV 245                                                                                                                                                                           |            |                     |                    |

NOV 15 1982

*[Handwritten signature]*

| EQUIP<br>MENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | USE<br>LBS | N-<br>CODE | ACCT<br>LBS |       |         |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
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| SV 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |            |             |       |         |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |            |             |       |         |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| CONT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |            |             |       |         |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| <p>AT APPROX 100 G WHILE CONTINUING TO PUMP,<br/>CHECK PH &amp; DENSITY. RECORD BELOW. IF NOT<br/>IN RANGE, STOP PUMPING &amp; SEE SUPV.<br/>* PH: <u>2.2</u> (2.2-3.7)<br/>* DENSITY: <u>1.327</u> G/ML (1.270-1.328)<br/>24 IF S-23 OK &amp; WHEN S-22 COMPLETE, RECORD<br/>DENSITY <u>1.327</u> G/ML ON TRAPPED SAMPLE<br/>FROM END OF S-22 PUMPING.<br/>25 USING DENSITY FROM S-24, FIND METER SETTING FOR<br/>SECOND PUMPING IN TABLE BELOW. NOTE: TABLE<br/>ACCOUNTS FOR 300 G ALREADY PUMPED IN S-22.<br/>CIRCLE DENSITY &amp; SETTING IN TABLE BELOW.<br/>**** TABLE ****</p> <table border="1"> <thead> <tr> <th>G/ML</th> <th>SETTING</th> <th>G/ML</th> <th>SETTING</th> <th>G/ML</th> <th>SETTING</th> </tr> </thead> <tbody> <tr><td>1.270</td><td>1259</td><td>1.291</td><td>1146</td><td>1.312</td><td>1049</td></tr> <tr><td>1.271</td><td>1253</td><td>1.292</td><td>1141</td><td>1.313</td><td>1045</td></tr> <tr><td>1.272</td><td>1248</td><td>1.293</td><td>1136</td><td>1.314</td><td>1040</td></tr> <tr><td>1.273</td><td>1242</td><td>1.294</td><td>1131</td><td>1.315</td><td>1036</td></tr> <tr><td>1.274</td><td>1236</td><td>1.295</td><td>1126</td><td>1.316</td><td>1032</td></tr> <tr><td>1.275</td><td>1231</td><td>1.296</td><td>1121</td><td>1.317</td><td>1027</td></tr> <tr><td>1.276</td><td>1225</td><td>1.297</td><td>1116</td><td>1.318</td><td>1023</td></tr> <tr><td>1.277</td><td>1219</td><td>1.298</td><td>1112</td><td>1.319</td><td>1019</td></tr> <tr><td>1.278</td><td>1214</td><td>1.299</td><td>1107</td><td>1.320</td><td>1015</td></tr> <tr><td>1.279</td><td>1208</td><td>1.300</td><td>1103</td><td>1.321</td><td>1010</td></tr> <tr><td>1.280</td><td>1203</td><td>1.301</td><td>1098</td><td>1.322</td><td>1006</td></tr> <tr><td>1.281</td><td>1198</td><td>1.302</td><td>1094</td><td>1.323</td><td>1003</td></tr> <tr><td>1.282</td><td>1193</td><td>1.303</td><td>1089</td><td>1.324</td><td>999</td></tr> <tr><td>1.283</td><td>1187</td><td>1.304</td><td>1084</td><td>1.325</td><td>995</td></tr> <tr><td>1.284</td><td>1182</td><td>1.305</td><td>1080</td><td>1.326</td><td>991</td></tr> <tr><td>1.285</td><td>1177</td><td>1.306</td><td>1076</td><td>1.327</td><td>987</td></tr> <tr><td>1.286</td><td>1171</td><td>1.307</td><td>1070</td><td>1.328</td><td>983</td></tr> <tr><td>1.287</td><td>1166</td><td>1.308</td><td>1066</td><td>1.329</td><td>979</td></tr> <tr><td>1.288</td><td>1161</td><td>1.309</td><td>1061</td><td>1.330</td><td>975</td></tr> <tr><td>1.289</td><td>1155</td><td>1.310</td><td>1057</td><td>1.331</td><td>971</td></tr> <tr><td>1.290</td><td>1151</td><td>1.311</td><td>1053</td><td>1.332</td><td>967</td></tr> </tbody> </table> <p>26 SET METER &amp; PUMP <u>987</u> G (RECORD FROM TABLE)<br/>FLUSH LINE WITH WATER INTO SV FOR APPROXIMATELY<br/>30 SECONDS<br/>27 ADJ LEAD NITRATE TO 3244 G (68°-242/245 &amp; 66.5°<br/>247) AT 67-69°F<br/>RECORD: <u>1.07</u> *F &amp; ICE CONSUMED (330#/BLOCK) 330X<br/>28 STIR 5 MIN &amp; RECORD PH: <u>3.0</u> (2.2-3.7) 57-A<br/>**** USE TITRIMETER TO ADJUST N-41-D PH ****<br/>29 IF NECESSARY ADJ TO PH 3.0-3.1 ASSUME 66% 33-D<br/>&amp; RECORD PH: ASSUME 50% 7-D<br/>NOTE: DILUTE N-7-D 10:1 WITH WATER BEFORE ADDING<br/>30 RECORD: <u>1.129</u> G/ML (1.128-1.129) IF OUT OF SPEC<br/>FILL OUT CHECK LIST &amp; ATTACH.<br/>31 STIR AT 67-69°F FOR S-33. TAKE 1 QT SAMPLE.</p> |            |            |             | G/ML  | SETTING | G/ML | SETTING | G/ML | SETTING | 1.270 | 1259 | 1.291 | 1146 | 1.312 | 1049 | 1.271 | 1253 | 1.292 | 1141 | 1.313 | 1045 | 1.272 | 1248 | 1.293 | 1136 | 1.314 | 1040 | 1.273 | 1242 | 1.294 | 1131 | 1.315 | 1036 | 1.274 | 1236 | 1.295 | 1126 | 1.316 | 1032 | 1.275 | 1231 | 1.296 | 1121 | 1.317 | 1027 | 1.276 | 1225 | 1.297 | 1116 | 1.318 | 1023 | 1.277 | 1219 | 1.298 | 1112 | 1.319 | 1019 | 1.278 | 1214 | 1.299 | 1107 | 1.320 | 1015 | 1.279 | 1208 | 1.300 | 1103 | 1.321 | 1010 | 1.280 | 1203 | 1.301 | 1098 | 1.322 | 1006 | 1.281 | 1198 | 1.302 | 1094 | 1.323 | 1003 | 1.282 | 1193 | 1.303 | 1089 | 1.324 | 999 | 1.283 | 1187 | 1.304 | 1084 | 1.325 | 995 | 1.284 | 1182 | 1.305 | 1080 | 1.326 | 991 | 1.285 | 1177 | 1.306 | 1076 | 1.327 | 987 | 1.286 | 1171 | 1.307 | 1070 | 1.328 | 983 | 1.287 | 1166 | 1.308 | 1066 | 1.329 | 979 | 1.288 | 1161 | 1.309 | 1061 | 1.330 | 975 | 1.289 | 1155 | 1.310 | 1057 | 1.331 | 971 | 1.290 | 1151 | 1.311 | 1053 | 1.332 | 967 |
| G/ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SETTING    | G/ML       | SETTING     | G/ML  | SETTING |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1259       | 1.291      | 1146        | 1.312 | 1049    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.271                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1253       | 1.292      | 1141        | 1.313 | 1045    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1248       | 1.293      | 1136        | 1.314 | 1040    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.273                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1242       | 1.294      | 1131        | 1.315 | 1036    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.274                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1236       | 1.295      | 1126        | 1.316 | 1032    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1231       | 1.296      | 1121        | 1.317 | 1027    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1225       | 1.297      | 1116        | 1.318 | 1023    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.277                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1219       | 1.298      | 1112        | 1.319 | 1019    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.278                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1214       | 1.299      | 1107        | 1.320 | 1015    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.279                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1208       | 1.300      | 1103        | 1.321 | 1010    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.280                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1203       | 1.301      | 1098        | 1.322 | 1006    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.281                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1198       | 1.302      | 1094        | 1.323 | 1003    |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.282                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1193       | 1.303      | 1089        | 1.324 | 999     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.283                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1187       | 1.304      | 1084        | 1.325 | 995     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.284                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1182       | 1.305      | 1080        | 1.326 | 991     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1177       | 1.306      | 1076        | 1.327 | 987     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.286                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1171       | 1.307      | 1070        | 1.328 | 983     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.287                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1166       | 1.308      | 1066        | 1.329 | 979     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.288                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1161       | 1.309      | 1061        | 1.330 | 975     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.289                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1155       | 1.310      | 1057        | 1.331 | 971     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |
| 1.290                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1151       | 1.311      | 1053        | 1.332 | 967     |      |         |      |         |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |       |      |       |      |       |     |

EQUIP  
MENT

USE N- USE  
LBS CODE LBS

SV 32 OBTAIN 1 QT SAMPLES OF S-19 & S-31 SOLUTIONS  
5 & TITRATE TWICE  
CONT NOTIFY SUPV IF ML N-10-D IS NOT IN RANGE  
9.5-9.9 OR IF THE TWO TITRATIONS DIFFER BY  
MORE THAN 0.10 ML N-10-D (IF YES, FLUSH ALL  
EQUIPMENT & REPEAT TITRATIONS). DO NOT  
PROCEED IF N-10-D TITRATION IS OUT OF RANGE  
ADJUST V-358 FOR A TITRATION PH OF 1.90-2.00  
FROM FINAL IN-LINE TITRATION, RECORD LOWEST  
PH & ML N-10-D 1.90-2.00

33-D  
7-D

SV 33 WHEN S-32 TITRATION OK, STRIKE V-358 THRU BOTH  
8 UNDERSURFACE DISTRIBUTORS INTO SV IN 44-46 MIN  
RECORD START 4:15 PM, TOTAL MIN 45  
NOTE: STRIKE TIME UP WHEN 1/2 VAT BOTTOM SHOWS  
& BUBBLES APPEAR IN SIGHT GLASSES  
34 IMMEDIATELY DUMP IN N-4-A FROM S 2 & SET TIMER  
FOR 15 MINUTES.  
35 DURING S 34, WASH IN V-358  
36 STIR 2 MIN & RECORD PH 2.0 (1.7-1.8)  
PBXS, + (MUST BE +)  
37 STIR TOTAL OF 15 MIN FROM S-34 &  
RECORD: TEMP 72°F (67-73°F)  
38 DUMP N-3-A FROM S-3  
39 STIR 3 MIN  
40 POUR IN N-32-D FROM S-4  
41 STIR 2 MIN  
42 RUN IN LIQUID ALUM USING BADGER METER  
43 STIR 3 MIN & FLUSH ALUM LINE WITH WATER  
44 DUMP IN N-3 FROM S-5  
45 STIR 4 MIN FOR S-47

604 115-D 302

390 46 RUN IN HYDROCHLORIC ACID USING WEIGHT & FLOW  
7 CONTROL PANEL MK 3, 30.84% 198  
MK %  
47 DURING S-45 SIFT N-711-B FROM S-6 INTO V-390  
WITH AGITATOR ON IN 1-2 MIN  
48 STIR 1-2 MIN TO MILKY SOLUTION

28-D  
28-D

SV 49 WHEN S-45 COMPLETE, IMMEDIATELY RUN IN N-711-B  
8 SOLUTION GRADUALLY OVER 5 MIN PERIOD INTO SV  
WATCH FOAM!!! IF FOAMING IS EXCESSIVE, STOP  
UNTIL FOAM SUBSIDES.  
50 DUMP IN BLANC FIXE N  
51 WHEN SCHEDULED, DUMP IN BLEND BACK LISTED ON  
TOP OF PAGE 1  
RECORD: CODE , LOT  
52 STIR 20 MIN  
53 RECORD: PH 6.0 (5.8-6.0)  
54 IF NECESSARY, ADJ TO PH 5.8-6.0 ASSUME 50%  
& RECORD: PH- ASSUME 66%  
55 FLOOD TO 153" (7298 G) & STOP AGITATOR

275 128-A 275

7-D  
33-D

START

11:30 AM

FINISH

5:45 AM

OPTR

201 129 4310