

11/24/82  
( DATE )12567  
( LOT )3839\* LBS.  
( EST WT )

COMTYP JOB NAME: 01YE735DMK

BLENDED BACK: CG 01, PQ 98

(CODE)

(LOT)

(POUNDS)

| EQUIP<br>MENT | NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | USE<br>LBS | N-CODE      | ACCT<br>LBS |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|
|               | MOLYBDATE ORANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |             |             |
| PREP          | 1 OBTAIN SODIUM CHLORIDE FOR S-37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 315        | 4-A         | 315         |
| 1             | 2 OBTAIN SODIUM SULFATE FOR S-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 42         | 108-A       | 42          |
|               | 3 OBTAIN SODA ASH FOR S-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 105        | 3-A         | 105         |
|               | 4 OBTAIN SODIUM SILICATE FOR S-42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 58         | 32-D        | 58          |
|               | 5 OBTAIN SODA ASH FOR S-46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 47         | 3-A         | 47          |
|               | 6 DISSOLVE SODIUM CITRATE IN 30 G WATER AT<br>100-120°F IN DRUM FOR S-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 17         | 765-A       | 17          |
|               | 7 DISSOLVE TAMOL 850 IN 30 G WATER AT<br>100-120°F IN DRUM FOR S-54                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 60         | 994-A       | 60          |
| 351<br>2      | 8 WEIGH IN SODIUM CHROMATE<br>OPTR _____, MK <u>308</u> , <u>37.01</u> %<br>OPTR _____, MK _____, _____%                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3802       | 10-D        | 1407        |
| 359<br>3      | 9 WEIGH IN SODIUM MOLYBDATE SOLUTION<br>OPTR _____, MK <u>25</u> , T- <u>40</u> , <u>32.87</u> %<br>OPTR _____, MK _____, T-_____, _____%                                                                                                                                                                                                                                                                                                                                                                                                 | 778        | 423-D       | 252         |
| 358<br>4      | 10 RUN 2" (110 G) WATER INTO V-358<br>11 RUN V-359 INTO V-351<br>12 PUMP V-351 INTO V-358<br>13 TURN ON AGITATOR<br>14 SIFT IN N-108-A FROM S-2<br>15 ADJUST TO 68" (3216 G) AT 67-69°F<br>RECORD: <u>68</u> °F<br>16 STIR 3 MIN. & RECORD: PH <u>9.5</u> (9.0-9.5)<br>17 IF NECESSARY, ADJ. TO PH 9.0 - 9.5 & RECORD<br>PH: _____ ASSUME 32% HYDROCHLORIC ACID<br>ASSUME 50% CAUSTIC SODA SOLN<br>18 RECORD: G/ML <u>1.060</u> (1.059-1.060)<br>NOTE: G/ML OUT OF LIMITS FILL OUT CHECK<br>LIST & ATTACH<br>19 STIR AT 67-69°F FOR S-32. |            | 28-D<br>7-D |             |
| SV<br>5       | 20 RUN 20" (996 G) WATER INTO V- <u>245</u><br>RECORD N-41-D STORAGE TANK TO PUMP FROM.<br>CIRCLE ONE: 402 410 411 420 424 425<br>21 CHECK WITH CU SUPV:<br>*STORAGE TANK MUST CONTAIN AT LEAST 1767<br>GAL: 402=36", 410=19", 411=35", 420=19",<br><u>424=19</u> ", 425=23"<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 <u>245</u>                                  |            |             |             |

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12/1

| EQUIP<br>MENT | USE<br>LBS | N-<br>CODE | ACCT<br>LBS |
|---------------|------------|------------|-------------|
|---------------|------------|------------|-------------|

SV 23 AT APPROX 100 G WHILE CONTINUING TO PUMP,  
5 CHECK PH & DENSITY. RECORD BELOW. IF NOT  
CONT IN RANGE, STOP PUMPING & SEE SUPV.

\* PH: 2.9 (2.2-3.7)

\* DENSITY: 1.313 G/ML (1.270-1.328)

24 IF S-23 OK & WHEN S-22 COMPLETE, RECORD  
DENSITY 1.313 G/ML ON TRAPPED SAMPLE  
FROM END OF S-22 PUMPING.

25 USING DENSITY FROM S-24, FIND METER SETTING FOR  
SECOND PUMPING IN TABLE BELOW. NOTE: TABLE  
ACCOUNTS FOR 300 G ALREADY PUMPED IN S-22.  
CIRCLE DENSITY & SETTING IN TABLE BELOW.  
(1%) \*\*\*\* TABLE \*\*\*\*

| G/ML  | SETTING | G/ML  | SETTING | G/ML         | SETTING    |
|-------|---------|-------|---------|--------------|------------|
| 1.270 | 1129    | 1.291 | 1024    | 1.312        | 935        |
| 1.271 | 1123    | 1.292 | 1020    | <u>1.313</u> | <u>931</u> |
| 1.272 | 1118    | 1.293 | 1015    | 1.314        | 927        |
| 1.273 | 1113    | 1.294 | 1011    | 1.315        | 923        |
| 1.274 | 1107    | 1.295 | 1006    | 1.316        | 919        |
| 1.275 | 1102    | 1.296 | 1002    | 1.317        | 915        |
| 1.276 | 1097    | 1.297 | 998     | 1.318        | 912        |
| 1.277 | 1092    | 1.298 | 993     | 1.319        | 908        |
| 1.278 | 1087    | 1.299 | 989     | 1.320        | 904        |
| 1.279 | 1082    | 1.300 | 985     | 1.321        | 900        |
| 1.280 | 1077    | 1.301 | 980     | 1.322        | 897        |
| 1.281 | 1072    | 1.302 | 976     | 1.323        | 893        |
| 1.282 | 1067    | 1.303 | 972     | 1.324        | 889        |
| 1.283 | 1062    | 1.304 | 968     | 1.325        | 885        |
| 1.284 | 1058    | 1.305 | 963     | 1.326        | 882        |
| 1.285 | 1053    | 1.306 | 959     | 1.327        | 878        |
| 1.286 | 1048    | 1.307 | 955     | 1.328        | 875        |
| 1.287 | 1043    | 1.308 | 951     | 1.329        | 871        |
| 1.288 | 1038    | 1.309 | 947     | 1.330        | 867        |
| 1.289 | 1034    | 1.310 | 943     | 1.331        | 864        |
| 1.290 | 1029    | 1.311 | 939     | 1.332        | 860        |

26 SET METER & PUMP 931 G (RECORD FROM TABLE)  
FLUSH LINE WITH WATER INTO SV FOR APPROXIMATELY  
30 SECONDS

27 ADJ LEAD NITRATE TO 3294 G (67" IN 240 & 246;  
69" IN 241, 242 & 245 & 67.5" IN 247) AT  
67-69°F

RECORD: 68 \*F & ICE CONSUMED (330#/BLOCK)

28 STIR 5 MIN & RECORD PH: 3.2 (2.2-3.7)

\*\*\*\* USE TITRIMETER TO ADJUST N-41-D PH \*\*\*\*

29 IF NECESSARY ADJ TO PH 3.8-3.9

ASSUME 32%

& RECORD PH: 3.5

ASSUME 50%

NOTE: DILUTE N-7-D 10:1 WITH WATER BEFORE ADDING

30 RECORD: 1.11 G/ML (1.117-1.118) IF OUT OF SPEC

FILL OUT CHECK LIST & ATTACH.

31 STIR AT 67-69°F FOR S-32.

41-D 3800

330X 57-A

28-D

7-D

LOT  
EQUIP  
MENT

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| USE<br>LBS | N-<br>CODE | USE<br>LBS |
|------------|------------|------------|
|------------|------------|------------|

SV 22 STRIKE V-358 THRU BOTH UNDERSURFACE DISTRIBUTORS INTO SV IN 21-23 MIN  
RECORD: START 1020 TOTAL MIN. 20 (67-71\*)

NOTE: STRIKE TIME UP WHEN 1/2 V-358 BOTTOM SHOWS & BUBBLES APPEARS IN SIGHT GLASSES

33 IMMEDIATELY AT END OF STRIKE WASH IN V-358

34 SET TIMER FOR 10 MIN.

35 RUN IN USING WEIGHT & FLOW CONTROL PANEL

OPTR \_\_\_\_\_, MK 3, 30.84 %

OPTR \_\_\_\_\_, MK \_\_\_\_\_, \_\_\_\_\_ %

36 DUMP IN N-4-A FROM S-1 A.F.A.P.

37 AFTER N-4-A IS ADDED, STIR 2 MIN.

38 TAKE 8 OZ SAMPLE & RECORD: PH 2.1 (2.4-2.5)

PBXS, + (MUST BE +)

39 STIR 10 MIN AFTER ADDITION OF N-4-A

40 DUMP IN N-3-A FROM S-3

41 STIR 3 MIN

42 POUR IN N-32-D FROM S-4

43 STIR 2 MIN.

44 RUN IN LIQUID ALUM USING BADGER METER

45 STIR 3 MIN & FLUSH ALUM LINE WITH MINIMUM WATER

46 DUMP IN N-3-A FROM S-5

47 STIR 3 MIN.

48 RECORD: PH 6.0 (5.8-6.0)

49 IF NECESSARY, ADJUST TO PH 5.8-6.0

RECORD: PH \_\_\_\_\_ ASSUME 32%

50 POUR IN N-765-A SOLN FROM S-6

51 STIR 5 MIN

52 RECORD: PH 6.0 (5.8-6.0)

53 IF NECESSARY, ADJUST TO PH 5.8-6.0

& RECORD: PH \_\_\_\_\_ ASSUME 32%

54 POUR IN N-994-A SOLN FROM S-7 (MUST BE DISSOLVED)

55 STIR 20 MIN.

56 DURING S-55 DUMP IN BLANC FIXE N

57 WHEN SCHEDULED, DUMP IN BLEND BACK LISTED ON

TOP OF PAGE 1

RECORD: CODE \_\_\_\_\_, LOT \_\_\_\_\_ #

58 STIR 20 MIN

59 FLOOD TO 153' (7298 G) & STOP AGITATOR

START

7:00 AM

FINISH

11:40 AM

OPTR

301