

11/11/82
(DATE)13
L2K01
(LOT)4448* LBS.
(EST WT)

COMTYP JOB NAME: 01YE721DMM

BLENDED BACK: CG 01, PQ 98,

(CODE)

(LOT)

(POUNDS)

EQUIP MENT		NAME: MOLYBDATE RED	USE LBS	N-CODE	ACCT LBS
PREP	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	2	WEIGH IN: OPTR <u>322</u> , MK <u>287</u> , T- <u>346</u> , <u>3291</u> %	<u>3920</u>	10-D	1509
		OPTR _____, MK _____, T-_____, _____%			
359	3	WEIGH IN: OPTR <u>322</u> , MK <u>71</u> , T- <u>360</u> , <u>3303</u> %	<u>736</u>	423-D	243
		OPTR _____, MK _____, T-_____, _____%			
358	4	RUN 10" (500 G) WATER INTO V-358			
		RUN V-359 INTO V-351 & PUMP IN V-351			
		ADJ TO 55" (2600 G)			
		SIFT IN N-108-A FROM S 1			
		STIR 5 MIN & RECORD: PH <u>10.1</u> (9.0-10.0)			
		ADJ TO PH 9.8-9.9 & RECORD: PH <u>9.8</u>			
		ASSUME 50%		7-D	
		ASSUME 66%	<u>1</u>	33-D	<u>1</u>
	15	RUN INTO V-351 FROM BADGER METER			
		OPTR <u>126</u> , MK <u>3</u> , <u>30.84</u> %	<u>136</u>	28-D	<u>54</u>
	16	PUMP FROM V-351 TO V-358			<u>42</u>
	17	FLUSH V-351 & PUMPING LINES WITH 1000G			
		WATER INTO V-358			
	18	ADJ TO 74" (3530 G) AT 67-69°F			
		RECORD: VOL <u>74</u> " & <u>07</u> " F			
	19	STIR 5 MIN & RECORD: PH <u>7.3</u> (7.2-7.4) &			
		G/ML <u>1058</u> (1.055-1.058)			
		NOTE IF G/ML OUT OF LIMITS FILL OUT CHECK			
		LIST & ATTACH. TAKE 1 QT SAMPLE.			
SV	20	RUN 20" (996 G) WATER INTO V- <u>245</u>			
	5	RECORD N-41-D STORAGE TANK TO PUMP FROM.			
		CIRCLE ONE: 402 410 411 420 424 425			
	21	CHECK WITH CU SUPV:			
		*STORAGE TANK MUST CONTAIN AT LEAST 1900			
		GAL: 402=39", 410=20", 411=38", 420=20",			
		424=20", 425=25"			
		*STORAGE TANK MUST HAVE STIRRED AT LEAST			
		20 MIN SINCE LAST ADDITION OR ADJUSTMENT			
		*STORAGE TANK MUST BE ISOLATED UNTIL ALL			
		PUMPING FOR THIS BATCH IS COMPLETE			
	22	SET METER FOR 300 G & PUMP TO SV <u>245</u>			

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JOS
11/12/82

EQUIP
MENT

USE
LBS

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CODE

ACCT
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: 2.8 (2.2-3.7)
* DENSITY: 1.327 G/ML (1.270-1.328)
24 IF S-23 OK & WHEN S-22 COMPLETE, RECORD
DENSITY 1.327 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.

**** TABLE ****

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	<u>1.327</u>	<u>987</u>
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

26 SET METER & PUMP 987 G (RECORD FROM TABLE)
FLUSH LINE WITH WATER INTO SV FOR APPROXIMATELY
70 SECONDS

27 ADJ LEAD NITRATE TO 3244 G (68°-242/245 & 66.5°
247) AT 67-69°F

RECORD: 69 *F & ICE CONSUMED (330#/BLOCK)

28 STIR 5 MIN & RECORD PH: 3.4 (2.2-3.7)

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

29 IF NECESSARY ADJ TO PH 3.0-3.1 ASSUME 66%
& RECORD PH: 3.1 ASSUME 50%

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

30 RECORD: 1.129 G/ML (1.128-1.129) IF OUT OF SPEC

FILL OUT CHECK LIST & ATTACH.

31 STIR AT 67-69°F FOR S-33. TAKE 1 QT SAMPLE.

41-D 4094

330X 57-A

5 33-D 4
7-D

EQUIP	USE	N-	USE
MENTI	LBS	CODE	LBS

SV 132	OBTAIN 1 QT SAMPLES OF S-19 & S-31 SOLUTIONS & TITRATE TWICE			
5	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			
CONT	ADJUST V-358 FOR A TITRATION PH OF 1.80 TO 1.90 FROM FINAL IN-LINE TITRATION, RECORD LOWEST PH <u>2.13</u> & ML N-10-D <u>9.99</u> <u>2.05-2.15</u>		33-D	7-D
SV 133	WHEN S-32 TITRATION OK, STRIKE V-358 THRU BOTH UNDERSURFACE DISTRIBUTORS INTO SV IN 4A-46 MIN			
6	RECORD: START <u>12:38 AM</u> TOTAL MIN <u>46</u>			
	NOTE: STRIKE TIME UP WHEN 1/2 VAT BOTTOM SHOWS & BUBBLES APPEAR IN SIGHT GLASSES			
134	IMMEDIATELY DUMP IN N-4-A FROM S 2 & SET TIMER FOR 15 MINUTES			
135	DURING S 34, WASH IN V-358			
136	STIR 2 MIN & RECORD PH <u>4.8</u> (1.7-1.8)			
	FBXS, <u>+</u> (MUST BE +)			
137	STIR TOTAL OF 15 MIN FROM S-34 & RECORD: TEMP <u>70</u> *F (67-73*F)			
138	DUMP N-3-A FROM S-3			
139	STIR 3 MIN			
140	POUR IN N-32-D FROM S-4			
141	STIR 2 MIN			
142	RUN IN LIQUID ALUM USING BADGER METER	604	115-D	302
143	STIR 3 MIN & FLUSH ALUM LINE WITH WATER			
144	DUMP IN N-3 FROM S-5			
145	STIR 4 MIN FOR S-49			
390	46 RUN IN HYDROCHLORIC ACID USING WEIGHT & FLOW CONTROL PANEL			
7	MK <u>3</u> , <u>30.84%</u> <u>292</u>		28-D	90
	MK _____, _____%		28-D	
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			
SV 49	WHEN S-45 COMPLETE, IMMEDIATELY RUN IN N-711-B SOLUTION GRADUALLY OVER 5 MIN PERIOD INTO SV			
8	WATCH FOAM!!! IF FOAMING IS EXCESSIVE, STOP UNTIL FOAM SUBSIDES.			
50	DUMP IN BLANC FIXE N	275	128-A	275
51	WHEN SCHEDULED, DUMP IN BLEND BACK LISTED ON TOP OF PAGE 1			
	RECORD: CODE _____, LOT _____			
52	STIR 20 MIN			
53	RECORD: PH <u>6.0</u> (5.8-6.0)			
54	IF NECESSARY, ADJ TO PH 5.8-6.0 ASSUME 50% & RECORD: PH-_____ ASSUME 66%		7-D	33-D
55	FLOOD TO 153' (7298 G) & STOP AGITATOR			
	START <u>9:30</u> FINISH <u>11:00 PM</u> DPTR <u>322-348</u>			
	<u>11 PM</u> <u>2:30 AM</u> <u>11-126</u>			