

11/11/82
(DATE)L2J93
(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	✓	OBTAIN FOR S-12	68	108-A	68
1	✓	OBTAIN FOR S-34	600	4-A	600
	✓	OBTAIN FOR S-38	120	3-A	120
	✓	OBTAIN FOR S-40	195	32-D	195
	✓	OBTAIN FOR S-44	350	3-A	350
	✓	OBTAIN FOR S-47	61	711-BD	61
351	7	WEIGH IN: OPTR <u>322</u> , MK <u>286</u> , T <u>346.71.98</u> % <u>3973</u>		10-D	1509
2		OPTR _____, MK _____, T _____ %			
359	8	WEIGH IN: OPTR <u>322</u> , MK <u>71</u> , T <u>360.33.03</u> % <u>736</u>		423-D	243
3		OPTR _____, MK _____, T _____ %			
358	9	RUN 10" (500 G) WATER INTO V-358			
4	10	RUN V-359 INTO V-351 & PUMP IN V-351			
	11	ADJ TO 55" (2600 G)			
	12	SIFT IN N-108-A FROM S 1			
	13	STIR 5 MIN & RECORD: PH <u>10.3</u> (9.0-10.0)			
	14	ADJ TO PH 9.8-9.9 & RECORD: PH <u>9.8</u>			
		ASSUME 50% <u>2</u>		7-D	
		ASSUME 66% <u>2</u>		33-D	<u>2</u>
	15	RUN INTO V-351 FROM BADGER METER OPTR <u>322</u> , MK _____, <u>30.84</u> %	<u>117</u>	28-D	<u>54</u>
	16	PUMP FROM V-351 TO V-358			36
	17	FLUSH V-351 & PUMPING LINES WITH 1000G WATER INTO V-358			36
	18	ADJ TO 74" (3530 G) AT 67-69°F			36
	19	RECORD: VOL <u>74</u> * & <u>68</u> *F			36
	20	STIR 5 MIN & RECORD: PH <u>7.3</u> (7.2-7.4) & G/ML <u>1.058</u> (1.055-1.058)			36
		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>242</u>			
5		RECORD N-41-D STORAGE TANK TO PUMP FROM.			
		CIRCLE ONE: 402 410 411 420 424 <u>425</u>			
	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>242</u>			

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EQUIP
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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: 1.324 G/ML (1.270-1.328)
24 IF S-23 OK & WHEN S-22 COMPLETE, RECORD
DENSITY 1.324 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	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

26 SET METER & PUMP 999 G (RECORD FROM TABLE)
FLUSH LINE WITH WATER INTO SV FOR APPROXIMATELY
30 SECONDS

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

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

28 STIR 5 MIN & RECORD PH: 3.9 (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.

330X

41-D 4094

57-A

33-D

7-D

EQUIP
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USE	N-	USE
LBS	CODE	LBS

SV 5	32	OBTAIN 1 QT SAMPLES OF S-19 & S-31 SOLUTIONS & 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 4.80 TO 4.90 FROM FINAL IN-LINE TITRATION, RECORD LOWEST PH _____ & ML N-10-D _____		33-D	
				7-D	
SV 6	33	WHEN S-32 TITRATION OK, STRIKE V-358 THRU BOTH UNDERSURFACE DISTRIBUTORS INTO SV IN 44-46 MIN			
		RECORD: START 2:35 , TOTAL MIN 4:10			
		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 <u>1.95</u> (1.7-1.8)			
		PBXs, <u>+</u> (MUST BE +)			
	37	STIR TOTAL OF 15 MIN FROM S-34 & RECORD: TEMP <u>71</u> *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	604	115-D	302
	43	STIR 3 MIN & FLUSH ALUM LINE WITH WATER			
	44	DUMP IN N-3 FROM S-5			
	45	STIR 4 MIN FOR S-49			
390 7	46	RUN IN HYDROCHLORIC ACID USING WEIGHT & FLOW CONTROL PANEL			
		MK _____, <u>30.84</u> %	292	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 8	49	WHEN S-45 COMPLETE, IMMEDIATELY RUN IN N-711-B SOLUTION GRADUALLY OVER 5 MIN PERIOD INTO SV			
		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>6.2</u> (5.8-6.0)			
	54	IF NECESSARY, ADJ TO PH 5.8-6.0 ASSUME 50% & RECORD: PH <u>6.0</u> ASSUME 66%	13	7-D	
				33-D	12
	55	FLOOD TO 153' (7298 G) & STOP AGITATOR			
		START _____ FINISH _____ OFTR _____			
		<u>3:00 PM</u> <u>7:45 PM</u> <u>86</u>			