CG 01 CODE YE-698-D 5562 ( ) YE-698-D (T) FWP 10/15/82

10.15.82 (DATE) K2K38 (LOT) 5527* LBS. (EST WT) COMTYP JOB NAME: 01YE698DMT

BLENDED BACK: CG 01, PQ 98, YC-10-B (CODE), H2J54 (LOT), 200 (POUNDS)

EQUIP		NAME: MOLYBDATE ORANGE	USE LBS	N-CODE	ACCT LBS
PREP 1	1	OBTAIN SODIUM SULFATE FOR S-13	84	108-A	84
	2	CALCULATE & SET ON BADGER METER FOR S-16 (NITRIC ACID WEAK) 64.40	93	33-D	60
	3	OBTAIN SODIUM CHLORIDE FOR S-33	734	4-A	734
	4	OBTAIN SODA ASH FOR S-37	146	3-A	146
	5	OBTAIN SODIUM SILICATE FOR S-39	237	32-D	237
	6	OBTAIN SODA ASH FOR S-43	350	3-A	350
	7	OBTAIN ANTIMONY TRIOXIDE FOR S-46	70	711-B	70
351 2	8	WEIGH SODIUM CHROMATE INTO V-351. OPTR ____, MK 25138.05% OPTR ____, MK ___, _____%	454	10-D	1885
359 3	9	WEIGH IN SODIUM MOLYBDATE SOLUTION OPTR ____, MK 64, T-360, 25.22% OPTR ____, MK ___, T-____, _____%	859	423-D	303
358 4	10	RUN 10" (500 G) WATER INTO V-358			
	11	RUN V-359 INTO V-351 & PUMP IN V-351			
	12	ADJ TO 55" (2600 G)			
	13	SIFT IN N-108-A FROM S 1			
	14	STIR 5 MIN & RECORD: PH 9.9 (9.0-10.0)			
	15	ADJ TO PH 9.8-9.9 & RECORD: PH ✓ (CAUSTIC SODA SOLUTION) ASSUME 50%	_____	7-D	_____
		ASSUME 66%	_____	33-D	_____
	16	ADD N-33-D FROM S 2 USING BADGER METER			
	17	ADJ TO 66" (3121 G) AT 67-69*F RECORD: VOL 66" & 69 *F			
	18	STIR 5 MIN & RECORD: PH 7.5 (7.4-7.6) & G/ML 1.082 (1.080-1.083) NOTE IF G/ML OUT OF LIMITS FILL OUT CHECK LIST & ATTACH. TAKE 1 QT SAMPLE			
SV 5	19	RUN 20" (996 G) WATER INTO V-242 RECORD N-41-D STORAGE TANK TO PUMP FROM. CIRCLE ONE: 402 410 411 420 424 (425)			
	20	CHECK WITH CU SUPV: *STORAGE TANK MUST CONTAIN AT LEAST 2376 GAL: 402=49", 410=25", 411=48", 420=25", 424=25", 425=31" *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			
	21	SET METER FOR 300 G & PUMP TO SV 242			
	22	AT APPROX 100 G WHILE CONTINUING TO PUMP, CHECK PH & DENSITY. RECORD BELOW. IF NOT IN RANGE, STOP PUMPING & SEE SUPV. * PH: 2.7 (2.2-3.7) * DENSITY: 1.293 G/ML (1.270-1.328)			

OCT 22 1982

LOT: _____ COMTYP JOB NAME: 01YE698DMT PAGE 02 DATE PRINTED: 10/15/82

EQUIPMENT		USE LBS	N-CODE	ACCT LBS
	23 IF S-22 OK & WHEN S-21 COMPLETE, RECORD DENSITY 1.293 G/ML ON TRAPPED SAMPLE FROM END OF S-21 PUMPING.			
	24 USING DENSITY FROM S-23, FIND METER SETTING FOR SECOND PUMPING IN TABLE BELOW. NOTE: TABLE ACCOUNTS FOR 300 G ALREADY PUMPED IN S-21. CIRCLE DENSITY & SETTING IN TABLE BELOW.			

****** TABLE ******

G/ML	SETTING	G/ML	SETTING	G/ML	SETTING
1.270	1678	1.291	1534	1.312	1410
1.271	1670	1.292	1527	1.313	1404
1.272	1663	1.293	1521	1.314	1399
1.273	1656	1.294	1515	1.315	1394
1.274	1649	1.295	1509	1.316	1388
1.275	1641	1.296	1503	1.317	1383
1.276	1634	1.297	1497	1.318	1378
1.277	1627	1.298	1490	1.319	1372
1.278	1620	1.299	1484	1.320	1367
1.279	1614	1.300	1478	1.321	1362
1.280	1607	1.301	1473	1.322	1357
1.281	1600	1.302	1467	1.323	1351
1.282	1593	1.303	1461	1.324	1346
1.283	1586	1.304	1455	1.325	1341
1.284	1580	1.305	1449	1.326	1336
1.285	1573	1.306	1444	1.327	1331
1.286	1566	1.307	1438	1.328	1326
1.286	1566	1.307	1438	1.328	1326
1.287	1559	1.308	1432	1.329	1543
1.288	1553	1.309	1427	1.330	1537
1.289	1546	1.310	1421	1.331	1532
1.290	1540	1.311	1415	1.332	1526

25	SET METER & PUMP 1521G (RECORD FROM TABLE) FLUSH LINE WITH WATER INTO SV FOR APPROXIMATELY 30 SECONDS			
26	ADJ LEAD NITRATE TO 76° (3625 G) AT 67-69°F. RECORD: 69 °F	300GAL 1521 660	41-D	5110 660
27	STIR 5 MIN & RECORD PH: 3.8 (2.2-3.7)		57-A	
28	IF NECESSARY ADJ TO PH 3.0-3.1 ASSUME 66% & RECORD PH: _____ ASSUME 50%	_____ _____	33-D 7-D	_____ _____
29	NOTE: DILUTE N-7-D 10:1 WITH WATER BEFORE ADDING RECORD: 1.147 G/ML ~~(1.143-1.144)~~ IF OUT OF SPEC FILL OUT CHECK LIST & ATTACH.			
30	STIR AT 67-69°F FOR S-31. TAKE 1 QT SAMPLE.			
31	OBTAIN 1 QT SAMPLES OF S-18 & S-30 SOLUTIONS & TITRATE TWICE NOTIFY SUPV IF ML N-10-D IS NOT IN RANGE 7.1-7.4 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 2.10 TO 2.20 FROM FINAL IN-LINE TITRATION RECORD LOWEST PH 2.10 & ML N-10-D 7.68.	_____ 10	33-D 7-D	_____ 5

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LOT: _____ COMTYP JOB NAME: 01YE698DMT PAGE 03 DATE PRINTED: 10/15/82

EQUIPMENT			USE LBS	N-CODE	ACCT LBS
	32	WHEN S-31 TITRATION OK, STRIKE V-358 THRU BOTH UNDERSURFACE DISTRIBUTORS INTO SV IN 16-18 MIN			
SV 6		RECORD: START 2:00 PM, TOTAL MIN 18			
		NOTE: STRIKE TIME UP WHEN 1/2 VAT BOTTOM SHOWS & BUBBLES APPEAR IN SIGHT GLASSES			
	33	IMMEDIATELY DUMP IN N-4-A FROM S 3 & SET TIMER FOR 15 MINUTES			
	34	DURING S 33, WASH IN V-358			
	35	STIR 2 MIN & RECORD PH 2.1 (1.8-2.5) PBXS, 4 (MUST BE +)			
	36	STIR TOTAL OF 15 MIN FROM S-33 & RECORD: TEMP 73 °F (67-73°F)			
	37	DUMP N-3-A FROM S-4			
	38	STIR 3 MIN			
	39	POUR IN N-32-D FROM S-5	587		
	40	STIR 2 MIN			
	41	RUN IN LIQUID ALUM USING BADGER METER	734	115-D	367
	42	STIR 3 MIN & FLUSH ALUM LINE WITH WATER			
	43	DUMP IN N-3 FROM S-6			
	44	STIR 4 MIN FOR S-48			
	45	RUN IN HYDROCHLORIC ACID USING WEIGHT & FLOW			
390 7		CONTROL PANEL MK _____, 31.01 %	339	28-D	105
		MK _____, _____ %		28-D	
	46	DURING S-44 SIFT N-711-B FROM S-7 INTO V-390 WITH AGITATOR ON IN 1-2 MIN			
	47	STIR 1-2 MIN TO MILKY SOLUTION			
SV 8	48	WHEN S-44 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.			
	49	DUMP IN BLANC FIXE N	165 ~~330~~	128-A	165 ~~330~~
	50	WHEN SCHEDULED, DUMP IN BLEND BACK LISTED ON TOP OF PAGE 1			
		RECORD: CODE YC10-B, LOT H2154, 200 #			
	51	STIR 20 MIN			
	52	RECORD: PH 5.9 (5.8-6.0)			
	53	IF NECESSARY, ADJ TO PH 5.8-6.0 ASSUME 50%		7-D	
		& RECORD: PH- _____ ASSUME 66%		33-D	
	54	FLOOD TO 153" (7298 G) & STOP AGITATOR			

	START	FINISH	OPTR
	10:30 AM	3:00 PM	86

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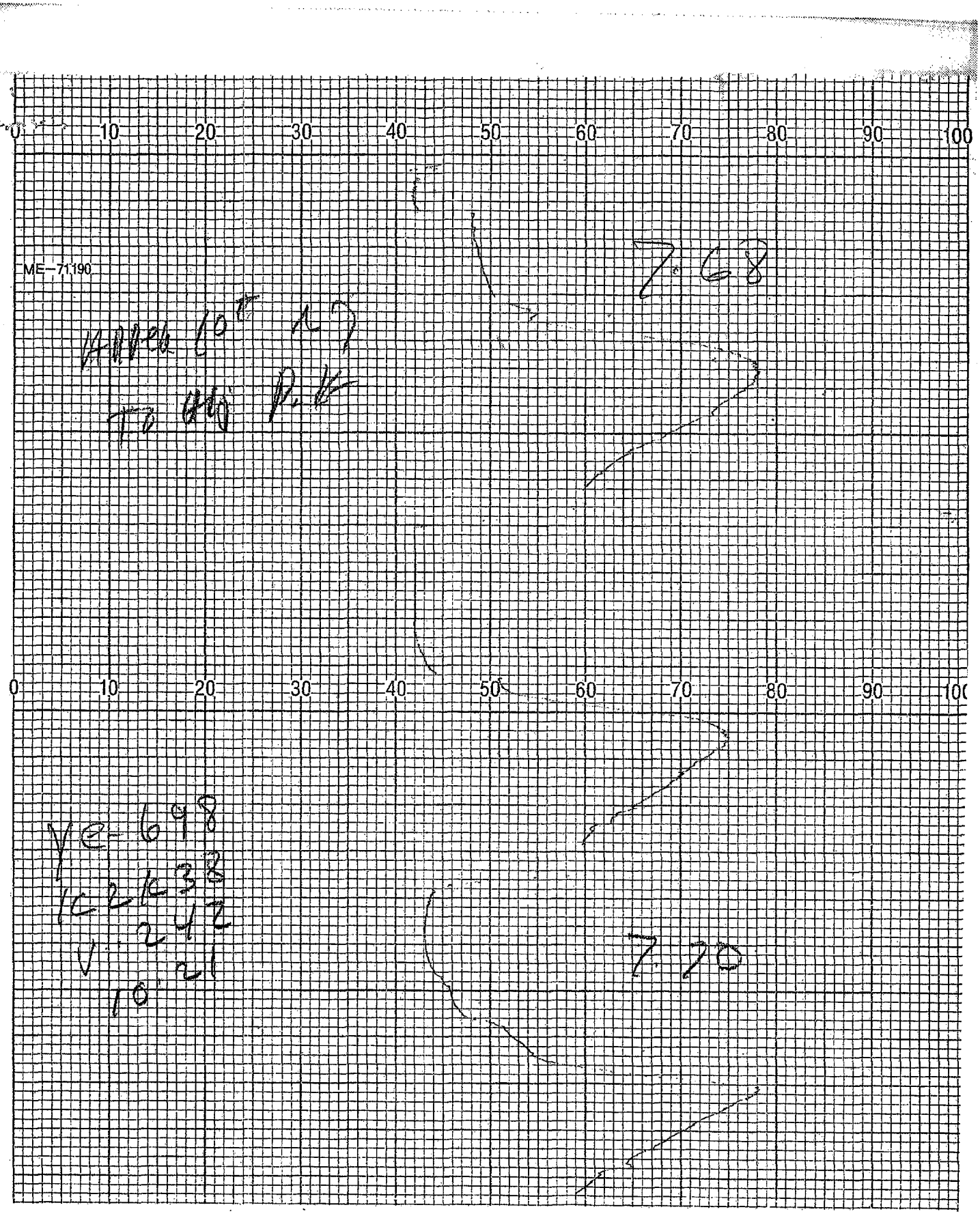

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PRODUCT NAME: MOLYBDATE ORANGE

CG 01 CODE YE-698-D PKG ____

LOT K2K38 OCT 15 1982

EST. WT. ~~5527*~~ LBS. ~~5542~~ 5568 OK

NON-BLEEDING PROCESSES YE-698-D (S) ALTERNATE

92 / 242

8/11/82 APPROVED BY: FWP 06/29/82

COMTYP JOB NAME: 01YE698DPS

MAKING NOTES: Pumped to 12 bldg. on 10-26-82 TM.

E.C. Pumped to V-241 10-25-82 E.C.

INSTRUCTIONS = PRESSING = RECORD

VAT		247			PRESSLOAD	1ST	2ND	3RD	4TH	5TH
DATE		10-27			STARTED					
TIME		Diaphragm			CAKES USED					
RELEASED BY		WB			WATER ON					
PRESS	.2	92	93		HRS. WASHED					
NO.OF CAKES	54	54	54		M MHOS					
PRESS WITH AGITATION					HRS. WASHED					
WASH TO 500 M MHOS WITH 35-75* WATER					M MHOS					
TEST AFTER 2 HOURS					HRS. WASHED					
LOAD ON 7 CARS					M MHOS					
					CAKE CONDITION					
					NO CARS LOADED					

EXPLAIN LOSSES STOPPED Filling 9-3 W/14th over + filling Pr from 247 2 or 3 inch pumped onto Lot K2K74 (1/2-HR RUNNING TIME)

SAMPLES 8 OZ

DELIVER TO CTL.

SAMPLED BY

RELEASED BY

= DRYING =

(EXTRUDED) DRY 10 HRS AT 240 DEG F

(NOT EXTRUDED) DRY 10 HRS AT 240 F

LUMP: - OK - WET - SALTS - CONTAMINATD

ADDITIONAL DRYING HOURS REQUIRED

SAMPLE

DELIVER

NO CARS PULLED

NO DRUMS

LUMP WGT

SAMPLED BY

RELEASED BY

CO-GRIND PER CTL INSTRUCTIONS GRINDING

MILL MIKROATOMIZE SCREEN RPM

MAX. TEMP DEG F

SET ROOF BLAST - GATE AT "5" FOR HIGH AIR FLOW

SCREEN RPM

MAX. TEMP. F

EXPLAIN LOSSES

SAMPLE W/O MIXING

SAMPLES 1 ENV & 1 PINT CAN IF GROUND SEPARATELY

DELIVER TO CTL

DATE MIXED

SAMPLED BY

RELEASED BY

DUP050102995