KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/1/11 **LOT #:** K11-335 **(SFS) OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0640 **STOP TIME:** 1256
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0617		
2. FILTER START TIME	0640		
3. FLOWS OFF TIME	1245		
4. SCREWS DOWN TIME	1256		
5. TIME	0740	0940	1140
6. BURNER EXIT TEMP	1320°	1240°	1308°
7. DRYER EXIT TEMP	367°	356°	363°
8. VENT FAN AMPS	24	24	24
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	40	36	36

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	4			
BEGIN OUTAGE:	3'			
END OUTAGE:	5'4"			
USAGE:	28"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED 0
NUMBER OF SALT TRUCKS UNLOADED: 1
NUMBER OF ACID TRUCKS UNLOADED: 2
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO 1200 ON 11/30/11
PETRO USED IN BATCHING 1686

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-1-11 **LOT #:** K11-335 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: Sylvia **SHIFT:** 1st

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0740	0940	1140
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	120
3. ACID [FSA] FLOW	[gpm]	53.4	53.4	53.7
4. ACID [FSA] SPECIFIC GRAVITY		1217	1217	1217
5. ACID [FSA] STRENGTH	%	24.3%	24.3%	24.3%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	49.0	49.1	
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1200	1200	1200
8. COLOR OF BRINE [white, yellow, tan, brown]		White	CLEAR	CLEAR
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	377°	356°	347°
12. VACUUM READING Maintain between 12 and 18	["Hg]	12.5	12.0	13.0
13. PRODUCT TEMPERATURE	[F]	251°	187°	264°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	43	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE		SAMPLE		SAMPLE
+60		.35	.20	.31	.20	.18
+100	[Should be less than 20]	7.9	6.8	5.8	5.7	5.1
+200	[Should be less than 70]	47.8	51.3	49.9	52.0	53.6
+325	[Should be less than 30]	26.5	28.7	26.7	30.1	29.8
-325	[Should be less than 10]	16.2	12.4	16.4	11.3	10.7

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-1-11 **LOT #:** K11-335 **(SFS) OR PFS PRODUCTION** [circle one]

A OPERATOR: CHANCEY **SHIFT:** 2nd

PRODUCT DRYING **START TIME:** 1550 **STOP TIME:** 2140
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1532		
2. FILTER START TIME	1550		
3. FLOWS OFF TIME	2120		
4. SCREWS DOWN TIME	2140		
5. TIME	1650	1850	2050
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	361	369	365
8. VENT FAN AMPS	25	25	25
9. DRAFT FAN AMPS	70	68	70
10. CHLORIDES	31	25	22

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	3			
BEGIN OUTAGE:	5'4"			
END OUTAGE:	7'1"			
USAGE:	21"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED	0
NUMBER OF SALT TRUCKS UNLOADED:	1
NUMBER OF ACID TRUCKS UNLOADED:	1
NUMBER OF ACID RAILCARS UNLOADED:	0
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	ALREADY BATCHED.
PETRO USED IN BATCHING	

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-1-11 **LOT #:** K11-335 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: Sanders **SHIFT:** 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1650	1850	2050
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	100	100
3. ACID [FSA] FLOW	[gpm]	53.6	43.5	43
4. ACID [FSA] SPECIFIC GRAVITY		1.216	1216	1214
5. ACID [FSA] STRENGTH	%	24.25	24.25	24.25
6. KCL/SALT BRINE FLOW	[gpm]	50	38	37
7. KCL/SALT BRINE SPECIFIC GRAVITY		1.201 -1.200 -	1197	1193
8. COLOR OF BRINE [white, yellow, tan, brown]		wh-te	wh-te	wh-te
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	✓	✓	✓
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	358°	363°	365°
12. VACUUM READING Maintain between 12 and 18	["Hg]	14	14	14
13. PRODUCT TEMPERATURE	[F]	271°	268°	275°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H2O"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H2O"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H2O"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	22
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H2O"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H2O"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H2O"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	✓	✓	✓
22. PETRO TO PRODUCT ON FILTER	[gpm]	4.0	4.0	4.0
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0 1750	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE		SAMPLE		SAMPLE
+60		.14	.12	.13	.10	.10
+100	[Should be less than 20]	6.3	7.0	6.4	9.5	7.9
+200	[Should be less than 70]	57.2	58.5	53.8	54.1	52.3
+325	[Should be less than 30]	23.8	22.3	25.3	23.1	26.8
-325	[Should be less than 10]	13.5	11.7	13.1	13.8	12.4

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: ok **Did you have to Clean it?** no

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/2/11 **LOT #:** K11-336 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0720 **STOP TIME:** 1429
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0655		
2. FILTER START TIME	0720		
3. FLOWS OFF TIME	1415		
4. SCREWS DOWN TIME	1429		
5. TIME	0820	1020	1220
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	362°	368°	370°
8. VENT FAN AMPS	24	24	24
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	59	43	29

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	4			
BEGIN OUTAGE:	7'1"			
END OUTAGE:	9'9"			
USAGE:	32"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED 1
NUMBER OF SALT TRUCKS UNLOADED: 0
NUMBER OF ACID TRUCKS UNLOADED: 2
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO _____ ALREADY BATCHED
PETRO USED IN BATCHING _____

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-2-11 **LOT #:** K11-336 **SFS OR PFS PRODUCTION** [circle one]
B OPERATOR: Sylvia **SHIFT:** 1ST

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0820	1020	1220
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	120
3. ACID [FSA] FLOW	[gpm]	53.5	53.5	53.5
4. ACID [FSA] SPECIFIC GRAVITY		1217	1217	1217
5. ACID [FSA] STRENGTH	%	24.3%	24.3%	24.3%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	48.8	46.4	48.2
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1202	1200	1200
8. COLOR OF BRINE [white, yellow, tan, brown]		CLEAR	CLEAR	CLEAR
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	377°	368°	359°
12. VACUUM READING Maintain between 12 and 18	["Hg]	12.5	12.5	14.0
13. PRODUCT TEMPERATURE	[F]	277°	257°	269°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE		SAMPLE		SAMPLE
+60		.12	.11	.14		.15
+100	[Should be less than 20]	5.6	7.0	6.1		5.7
+200	[Should be less than 70]	40.1	54.4	53.0		48.8
+325	[Should be less than 30]	32.4	27.4	26.4		28.2
-325	[Should be less than 10]	20.6	10.2	13.6		16.1

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/5/11 **LOT #:** K11-339 **(SFS) OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0720 **STOP TIME:** 1335
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0637		
2. FILTER START TIME	0720		
3. FLOWS OFF TIME	1315		
4. SCREWS DOWN TIME	1335		
5. TIME	0820	1020	1220
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	225°	376°	365°
8. VENT FAN AMPS	24	25	25
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	17	23	17

DOWN TIMES AND REASONS: * STARTED FILTERING LATE DUE TO FILTRATE FULL OF PRODUCT

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	2			
BEGIN OUTAGE:	2' 1/2"			
END OUTAGE:	4' 6			
USAGE:	29 1/2"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED 1
NUMBER OF SALT TRUCKS UNLOADED: 1
NUMBER OF ACID TRUCKS UNLOADED: 6
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO BATCHED ALREADY
PETRO USED IN BATCHING

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-5-11 **LOT #:** K11-339 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: SYLVIA **SHIFT:** 1st

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0825	1025	1225
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	120
3. ACID [FSA] FLOW	[gpm]	55.6	55.6	50.2
4. ACID [FSA] SPECIFIC GRAVITY		1210	1211	1211
5. ACID [FSA] STRENGTH	%	23.6%	23.75%	23.75%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	49.1	47.3	44.4
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1200	1200	1198
8. COLOR OF BRINE [white, yellow, tan, brown]		CLEAR	CLEAR	CLEAR
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	266°	376°	364°
12. VACUUM READING Maintain between 12 and 18	["Hg]	14.0	14.0	14.0
13. PRODUCT TEMPERATURE	[F]	185°	267°	269°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	43	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE	SAMPLE	SAMPLE
+60		.16	.05	.5
+100	[Should be less than 20]	5.0	3.7	4.3
+200	[Should be less than 70]	38.5	54.2	60.1
+325	[Should be less than 30]	35.2	29.6	26.5
-325	[Should be less than 10]	19.2	11.8	8.6

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/5/11 **LOT #:** K11-339 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: CHANCEY **SHIFT:** 2ND

PRODUCT DRYING **START TIME:** 1605 **STOP TIME:** 21:37
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1540		
2. FILTER START TIME	1605		
3. FLOWS OFF TIME	2120		
4. SCREWS DOWN TIME	21:37		
5. TIME	1705	1905	2105
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	380	372	371
8. VENT FAN AMPS	25	25	25
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	19.0	17.0	16.0

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL		
TANK NUMBER:	2				
BEGIN OUTAGE:	4'6"				
END OUTAGE:	6'6½"				
USAGE:	24½"				

NUMBER OF LIQUID BRINE TRUCKS UNLOADED 0
NUMBER OF SALT TRUCKS UNLOADED: 1
NUMBER OF ACID TRUCKS UNLOADED: 4
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO 15:10
PETRO USED IN BATCHING ½ BAG

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-5-11 **LOT #:** K11-339 **(SFS) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sanders **SHIFT:** 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1705	1905	2105
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	110	110
3. ACID [FSA] FLOW	[gpm]	54	50	50
4. ACID [FSA] SPECIFIC GRAVITY		1211	1211	1211
5. ACID [FSA] STRENGTH	%	23.75	23.75	23.75
6. KCL/SALT BRINE FLOW	[gpm]	50	45.5	45.5
7. KCL/SALT BRINE SPECIFIC GRAVITY		1201	1198	1190
8. COLOR OF BRINE [white, yellow, tan, brown]		wh.-ye	wh.-ye	wh.-ye
9. COLOR OF ACID [white, yellow, tan, brown]		yella	yella	yella
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	/	/	/
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	375	370	368
12. VACUUM READING Maintain between 12 and 18	["Hg]	14	14	14
13. PRODUCT TEMPERATURE	[F]	280	273	280
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	/	/	/
22. PETRO TO PRODUCT ON FILTER	[gpm]	4.0	4.0	4.0
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE	1905	SAMPLE	2005	SAMPLE
+60		.05	.03	.14	.07	.08
+100	[Should be less than 20]	7.0	7.6	8.3	7.1	7.5
+200	[Should be less than 70]	59.6	55.4	51.4	57.6	55.4
+325	[Should be less than 30]	22.1	26	27.9	27.8	26.2
-325	[Should be less than 10]	11.5	10.4	11.5	6.9	10.2

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: ok **Did you have to Clean it?** no

REMARKS:

(3)

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/6/11 **LOT #:** K11-340 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: Dobson **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0650 **STOP TIME:** 1325
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0610		
2. FILTER START TIME	0650		
3. FLOWS OFF TIME	1300		
4. SCREWS DOWN TIME	1325		
5. TIME	0750	0950	1150
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	362°	368°	370
8. VENT FAN AMPS	24	24	24
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	26	26	12.0

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	2			
BEGIN OUTAGE:	6'7"			
END OUTAGE:	9'1"			
USAGE:	30"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED 0
NUMBER OF SALT TRUCKS UNLOADED: 0
NUMBER OF ACID TRUCKS UNLOADED: 2
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO 2130 on 12/5/11
PETRO USED IN BATCHING 1/4

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-6-11 **LOT #:** K11-340 **(SES) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sylvia **SHIFT:** 1st

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0750	0950	1150
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	110
3. ACID [FSA] FLOW	[gpm]	55.5	55.1	52.4
4. ACID [FSA] SPECIFIC GRAVITY		1210	1210	1210
5. ACID [FSA] STRENGTH	%	23.16%	23.16%	23.16%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	49.5	47.4	45.7
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1201	1193	1156
8. COLOR OF BRINE [white, yellow, tan, brown]		CLEAR	CLEAR	CLEAR
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	358°	390°	382°
12. VACUUM READING Maintain between 12 and 18	["Hg]	13.5	14.0	14.0
13. PRODUCT TEMPERATURE	[F]	216°	294°	278°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	4.0	4.0	4.0

PRODUCT SCREEN ANALYSIS		SAMPLE	SAMPLE	SAMPLE
+60		.12	.11	.08
+100	[Should be less than 20]	6.5	6.0	10.2
+200	[Should be less than 70]	48.8	56.3	56.0
+325	[Should be less than 30]	30.0	27.1	24.1
-325	[Should be less than 10]	13.1	9.8	13.3

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/6/11 **LOT #:** K11-340 **(SFS) OR PFS PRODUCTION** [circle one]

A OPERATOR: CHANCEY **SHIFT:** 2ND

PRODUCT DRYING **START TIME:** 1700 **STOP TIME:** 2145
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1600		
2. FILTER START TIME	1700		
3. FLOWS OFF TIME	2130		
4. SCREWS DOWN TIME	2145		
5. TIME	1800	2000	
6. BURNER EXIT TEMP	N/A	N/A	
7. DRYER EXIT TEMP	374	380	
8. VENT FAN AMPS	25	25	
9. DRAFT FAN AMPS	70	70	
10. CHLORIDES	9.2	11.5	

DOWN TIMES AND REASONS: Problems with filtrate pump. pluggage.

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	3			
BEGIN OUTAGE:	3'11"			
END OUTAGE:	5'8½"			
USAGE:	21½"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED	0
NUMBER OF SALT TRUCKS UNLOADED:	0
NUMBER OF ACID TRUCKS UNLOADED:	4
NUMBER OF ACID RAILCARS UNLOADED:	0
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	1/2
PETRO USED IN BATCHING	1335

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-6-11 **LOT #:** K11-340 **(SFS) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sanders **SHIFT:** 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1800	20	
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	
3. ACID [FSA] FLOW	[gpm]	50	50	
4. ACID [FSA] SPECIFIC GRAVITY		1231	1233	
5. ACID [FSA] STRENGTH	%	25.75	26	
6. KCL/SALT BRINE FLOW	[gpm]	48	44	
7. KCL/SALT BRINE SPECIFIC GRAVITY		1155 - 1174 -	1180	
8. COLOR OF BRINE [white, yellow, tan, brown]		white	white	
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	/	/	
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	375	378	
12. VACUUM READING Maintain between 12 and 18	["Hg]	14	14	
13. PRODUCT TEMPERATURE	[F]	276	288	
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	
21. FRESH WATER TO REACTOR	[gpm]	/	/	
22. PETRO TO PRODUCT ON FILTER	[gpm]	4.0	4.0	
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0 1900	7.0	

PRODUCT SCREEN ANALYSIS		SAMPLE		SAMPLE		SAMPLE
+60		.27	.18	.12	.15	
+100	[Should be less than 20]	9.5	9.7	10.4	11.5	
+200	[Should be less than 70]	58.4	57.7	58.7	54.5	
+325	[Should be less than 30]	18.8	20.4	20.4	20.4	
-325	[Should be less than 10]	12.6	11.5	10.0	12.8	

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: ok **Did you have to Clean it?** no

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/7/11 **LOT #:** K11-341 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0835 **STOP TIME:** 1515
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0807		
2. FILTER START TIME	0835		
3. FLOWS OFF TIME	1500		
4. SCREWS DOWN TIME	1515		
5. TIME	0935	1135	1335
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	369°	374°	368°
8. VENT FAN AMPS	24	24	24
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	18.0	18.0	14.0

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	3			
BEGIN OUTAGE:	5' 8½"			
END OUTAGE:	7'11"			
USAGE:	26½"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED	0
NUMBER OF SALT TRUCKS UNLOADED:	1
NUMBER OF ACID TRUCKS UNLOADED:	4
NUMBER OF ACID RAILCARS UNLOADED:	0
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	0815
PETRO USED IN BATCHING	1/2

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-7-11 **LOT #:** K11-341 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: SYLVIA / ~~SA~~ **SHIFT:** 1ST / ~~2ND~~

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0935	1135	1335
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	110	110
3. ACID [FSA] FLOW	[gpm]	49.1	45.5	43.5
4. ACID [FSA] SPECIFIC GRAVITY		1234	1234	1234
5. ACID [FSA] STRENGTH	%	26.1%	26.1%	26.1%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	49.0	45.0	43.5
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1198	1191	1191
8. COLOR OF BRINE [white, yellow, tan, brown]		CLEAR	CLEAR	CLEAR
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	368°	371°	368°
12. VACUUM READING Maintain between 12 and 18	["Hg]	12.5	12.5	12.5
13. PRODUCT TEMPERATURE	[F]	251°	281°	300°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	5.0	5.0	5.0

PRODUCT SCREEN ANALYSIS		SAMPLE		SAMPLE		SAMPLE
+60		.26	.24	.16		.25
+100	[Should be less than 20]	9.1	11.7	8.5		11.4
+200	[Should be less than 70]	42.4	55.8	50.16		59.5
+325	[Should be less than 30]	23.8	20.1	24.1		19.7
-325	[Should be less than 10]	23.3	11.2	16.1		8.6

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-7-11 **LOT #:** K11-341 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: Chaney **SHIFT:** 2nd

PRODUCT DRYING **START TIME:** 1720 **STOP TIME:** 2143
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1655		
2. FILTER START TIME	1720		
3. FLOWS OFF TIME	2130		
4. SCREWS DOWN TIME	2143		
5. TIME	1820	2020	
6. BURNER EXIT TEMP	N/A	N/A	
7. DRYER EXIT TEMP	378	371	
8. VENT FAN AMPS	26	25	
9. DRAFT FAN AMPS	70	70	
10. CHLORIDES	22	21	

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	3			
BEGIN OUTAGE:	7'11"			
END OUTAGE:	9'5"			
USAGE:	18"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED	1
NUMBER OF SALT TRUCKS UNLOADED:	0
NUMBER OF ACID TRUCKS UNLOADED:	4
NUMBER OF ACID RAILCARS UNLOADED:	0
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	1515
PETRO USED IN BATCHING	1/2 BAG

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-7-11 **LOT #:** K11-341 **(SFS) OR PFS PRODUCTION** [circle one]

B OPERATOR: _____ **SHIFT:** _____

		SAMPLE		SAMPLE	SAMPLE
1. TIME		1820		2020	
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120		120	
3. ACID [FSA] FLOW	[gpm]	48		48	
4. ACID [FSA] SPECIFIC GRAVITY		1235		1235	
5. ACID [FSA] STRENGTH	%	26.25		26.25	
6. KCL/SALT BRINE FLOW	[gpm]	50		49	
7. KCL/SALT BRINE SPECIFIC GRAVITY		1196	1191	1185	
8. COLOR OF BRINE [white, yellow, tan, brown]		white		white	
9. COLOR OF ACID [white, yellow, tan, brown]		yellow		yellow	
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	/		/	
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	375°		378°	
12. VACUUM READING Maintain between 12 and 18	["Hg]	14		14	
13. PRODUCT TEMPERATURE	[F]	285°		277°	
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50		50	
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H2O"]	10		10	
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H2O"]	2		2	
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H2O"]	8		8	
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42		42	
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21		21	
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H2O"]	2		2	
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H2O"]	.5		.5	
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H2O"]	1.5		1.5	
21. FRESH WATER TO REACTOR	[gpm]	/		/	
22. PETRO TO PRODUCT ON FILTER	[gpm]	4.0		4.0	
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0		7.0	

PRODUCT SCREEN ANALYSIS		SAMPLE	1920	SAMPLE		SAMPLE
+60		.27	.15	.24		
+100	[Should be less than 20]	12.2	9.2	9.4		
+200	[Should be less than 70]	56	51.4	55		
+325	[Should be less than 30]	21.6	27.1	25.4		
-325	[Should be less than 10]	10.6	12.5	9.3		

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: ok **Did you have to Clean it?** no

REMARKS:

(6)

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/8/11 **LOT #:** K11-342 **(SFS) OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0645 **STOP TIME:** 1326
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0620		
2. FILTER START TIME	0645		
3. FLOWS OFF TIME	1310		
4. SCREWS DOWN TIME	1326		
5. TIME	0745	0945	1145
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	370°	351°	367°
8. VENT FAN AMPS	24	24	24
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	21	19	21

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	4			
BEGIN OUTAGE:	2'1"			
END OUTAGE:	4'4"			
USAGE:	27"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED	0
NUMBER OF SALT TRUCKS UNLOADED:	1
NUMBER OF ACID TRUCKS UNLOADED:	2
NUMBER OF ACID RAILCARS UNLOADED:	0
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	ALREADY BATCHED
PETRO USED IN BATCHING	

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-8-11 **LOT #:** K11-342 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: Sylvia **SHIFT:** 1st

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0735	0935	1135
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	110
3. ACID [FSA] FLOW	[gpm]	50.4	50.5	41.1
4. ACID [FSA] SPECIFIC GRAVITY		1230	1230	1230
5. ACID [FSA] STRENGTH	%	25.6%	25.6%	25.6%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	49.4	49.4	40.0
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1193	1150	1150
8. COLOR OF BRINE [white, yellow, tan, brown]		CLEAR	CLEAR	CLEAR
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	350°	351°	367°
12. VACUUM READING Maintain between 12 and 18	["Hg]	12.5	13.5	12.5
13. PRODUCT TEMPERATURE	[F]	256°	233°	300°+
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE	SAMPLE	SAMPLE
+60		.23	.43	.11
+100	[Should be less than 20]	6.8	7.8	8.1
+200	[Should be less than 70]	50.0	55.6	54.9
+325	[Should be less than 30]	24.5	22.5	22.3
-325	[Should be less than 10]	17.3	12.9	14.0

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/8/11 LOT #: K11-342 (SFS) OR PFS PRODUCTION [circle one]

A OPERATOR: CHANCEY SHIFT: 2ND

PRODUCT DRYING START TIME: 1555 STOP TIME: 2100
[* defined as the time period that product passes through the drying column]

START TIME: STOP TIME:

START TIME: STOP TIME:

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1527		
2. FILTER START TIME	1555		
3. FLOWS OFF TIME	2000		
4. SCREWS DOWN TIME	2100		
5. TIME	1655	1855	
6. BURNER EXIT TEMP	N/A	N/A	
7. DRYER EXIT TEMP	377	332	
8. VENT FAN AMPS	25	26	
9. DRAFT FAN AMPS	70	70	
10. CHLORIDES	17	17	

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	4			
BEGIN OUTAGE:	4'4"			
END OUTAGE:	5'10½"			
USAGE:	18½" + 4" from REACTOR'S			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED: 0
NUMBER OF SALT TRUCKS UNLOADED: 1
NUMBER OF ACID TRUCKS UNLOADED: 2
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO 1330
PETRO USED IN BATCHING 1/2

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-8-11 **LOT #:** K11-342 **(SFS) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sanders **SHIFT:** 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1650	1850	
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	110	
3. ACID [FSA] FLOW	[gpm]	50	48	
4. ACID [FSA] SPECIFIC GRAVITY		1233	1233	
5. ACID [FSA] STRENGTH	%	26%	26%	
6. KCL/SALT BRINE FLOW	[gpm]	49	44	
7. KCL/SALT BRINE SPECIFIC GRAVITY		1201	1199	
8. COLOR OF BRINE [white, yellow, tan, brown]		Lt. Tan	Lt. Tan	
9. COLOR OF ACID [white, yellow, tan, brown]		Yellow	Yellow	
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	/	/	
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	377°	367°	
12. VACUUM READING Maintain between 12 and 18	["Hg]	14	14	
13. PRODUCT TEMPERATURE	[F]	300°	276°	
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	20	21	
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	
21. FRESH WATER TO REACTOR	[gpm]	/	/	
22. PETRO TO PRODUCT ON FILTER	[gpm]	4.0	4.0	
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	

PRODUCT SCREEN ANALYSIS		SAMPLE 1650		SAMPLE 1950		SAMPLE
+60		.17	.22	.33	.17	
+100	[Should be less than 20]	10.8	12	12.9	9.3	
+200	[Should be less than 70]	55.4	61.5	58.1	55.7	
+325	[Should be less than 30]	22.2	20.5	20.1	23.5	
-325	[Should be less than 10]	11.8	5.3	7.9	10.5	

** If you are not able to maintain the above parameters, you should contact Gene Trawick or Dean Qualls immediately.

Condition of Y-Strainer?: Ok **Did you have to Clean it?** No

REMARKS:

NO PETRO

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/12/11 **LOT #:** K11-346 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON / CHANCEY **SHIFT:** 1ST / 2ND

PRODUCT DRYING **START TIME:** 1350 **STOP TIME:** 2250
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1240		
2. FILTER START TIME	1350		
3. FLOWS OFF TIME	2230		
4. SCREWS DOWN TIME	2250		
5. TIME	1450	1650	1850
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	329	345	369
8. VENT FAN AMPS	26	26	26
9. DRAFT FAN AMPS	70	65	70
10. CHLORIDES	19.0	14.0	15.0

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	3			
BEGIN OUTAGE:	1'9"			
AFTER BATCH	2'0" USED 3"			
END OUTAGE:	4'4"			
USAGE:	28"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED	1
NUMBER OF SALT TRUCKS UNLOADED:	1
NUMBER OF ACID TRUCKS UNLOADED:	3
NUMBER OF ACID RAILCARS UNLOADED:	0
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	X
PETRO USED IN BATCHING	X

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-12-11 **LOT #:** K11-346 **(SFS) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sylvia / Sanders **SHIFT:** 1st / 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1450	1650	1850
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	90	90	98
3. ACID [FSA] FLOW	[gpm]	38.5	38	38
4. ACID [FSA] SPECIFIC GRAVITY		1227	1227	1227
5. ACID [FSA] STRENGTH	%	25.4%	25.4	25.4
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	35.5	34	34
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1177 - 1197 -	1196 - 1196 -	
8. COLOR OF BRINE [white, yellow, tan, brown]		CLEAR	Clear	Clear
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yella	yella
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE Maintain between 310 and 350 degrees	[F]	371°	383°	373°
12. VACUUM READING Maintain between 12 and 18	["Hg]	14	14	14
13. PRODUCT TEMPERATURE	[F]	243°	280°	280°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	X	X	X
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE		SAMPLE		SAMPLE
+60		.13	.17	.32	.19	.21
+100	[Should be less than 20]	6.9	9.2	10.3	12.2	12.5
+200	[Should be less than 70]	58.7	67.8	61.3	57.6	57.5
+325	[Should be less than 30]	23.0	17.3	19.8	21.2	22.2
-325	[Should be less than 10]	10.6	5.2	7.7	8.4	7.2

** If you are not able to maintain the above parameters, you should contact Terry Connelly or Dean Qualls immediately.

Condition of Y-Strainer?: Ok **Did you have to Clean it?** No

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/13/11 **LOT #:** KI-347 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0650 **STOP TIME:** 1420
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0623	0750	
2. FILTER START TIME	0650	0950	
3. FLOWS OFF TIME	0840	1405	
4. SCREWS DOWN TIME	0840	1420	
5. TIME	0750	1050	1750
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	368°	369°	386°
8. VENT FAN AMPS	24	24	24
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	26.0	11	7.3

DOWN TIMES AND REASONS: * SHUT DOWN DUE TO FOOT VALVE IN SALT SUMP BAD

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	4			
BEGIN OUTAGE:	1'			
END OUTAGE:	3'3½"			
USAGE:	27½"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED: 0
NUMBER OF SALT TRUCKS UNLOADED: 1
NUMBER OF ACID TRUCKS UNLOADED: 3
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO _____ ALREADY BATCHED
PETRO USED IN BATCHING _____

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-13-11 **LOT #:** KIL-347 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: Sylvia **SHIFT:** 1st

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0750	1050	1250
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	115	120
3. ACID [FSA] FLOW	[gpm]	51.5	48.5	51.5
4. ACID [FSA] SPECIFIC GRAVITY		1226	1226	1226
5. ACID [FSA] STRENGTH	%	25.25%	25.25%	25.25%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	48.2	46.1	48.1
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1186	1186	1133
8. COLOR OF BRINE [white, yellow, tan, brown]		clear	clear	clear
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	371°	342°	386°
12. VACUUM READING Maintain between 12 and 18	["Hg]	12.5	13.0	13.0
13. PRODUCT TEMPERATURE	[F]	297°	261°	291°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE	SAMPLE	SAMPLE
+60		.12	.25	.11
+100	[Should be less than 20]	8.3	10.4	10.6
+200	[Should be less than 70]	50.7	53.8	61.7
+325	[Should be less than 30]	22.9	20.8	18.0
-325	[Should be less than 10]	16.8	13.9	8.7

** If you are not able to maintain the above parameters, you should contact Terry Connelly or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-13-11 **LOT #:** K11-347 **(FS) OR PFS PRODUCTION** [circle one]

A OPERATOR: CHANCEY **SHIFT:** 2nd

PRODUCT DRYING **START TIME:** 1650 **STOP TIME:** 1830
[* defined as the time period that product passes through the drying column]

START TIME: 1925 **STOP TIME:** 2135

START TIME: **STOP TIME:**

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1630	1920	
2. FILTER START TIME	1650	1925	
3. FLOWS OFF TIME	1830	2120	
4. SCREWS DOWN TIME	1830	2135	
5. TIME	1750	1950	
6. BURNER EXIT TEMP	N/A		
7. DRYER EXIT TEMP	370		
8. VENT FAN AMPS	24		
9. DRAFT FAN AMPS	70		
10. CHLORIDES	4.1		

DOWN TIMES AND REASONS: down due to clarifier O.D.S plugage - 1830-1920
Brine pumps lost prime 1805-1820

RAW MATERIALS USAGE

	FSA	KCL
TANK NUMBER:	4	
BEGIN OUTAGE:	3'3½"	
END OUTAGE:	4'6"	
USAGE:	14 ½"	

NUMBER OF LIQUID BRINE TRUCKS UNLOADED 0
NUMBER OF SALT TRUCKS UNLOADED: 1
NUMBER OF ACID TRUCKS UNLOADED: 4
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO 15:40
PETRO USED IN BATCHING ½ BAG

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER: Good.
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING: 3-4 TONS STUCK ON SIDES

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-13-11 **LOT #:** 411-347 **(SES) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sandra S **SHIFT:** 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1750	2100	
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	100	
3. ACID [FSA] FLOW	[gpm]	51	43	
4. ACID [FSA] SPECIFIC GRAVITY		1.226	1220	
5. ACID [FSA] STRENGTH	%	25.25%	25 25	
6. KCL/SALT BRINE FLOW	[gpm]	47	39	
7. KCL/SALT BRINE SPECIFIC GRAVITY		1160	1160	
8. COLOR OF BRINE [white, yellow, tan, brown]		white	white	
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	/	/	
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	366°	378°	
12. VACUUM READING Maintain between 12 and 18	["Hg]	13	13	
13. PRODUCT TEMPERATURE	[F]	290°	285°	
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	12	12	
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	10	10	
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	
21. FRESH WATER TO REACTOR	[gpm]	/	/	
22. PETRO TO PRODUCT ON FILTER	[gpm]	4.0	4.0	
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	

PRODUCT SCREEN ANALYSIS		SAMPLE	SAMPLE	SAMPLE
+60		.12	.11	
+100	[Should be less than 20]	10.2	9.6	
+200	[Should be less than 70]	64.1	68.3	
+325	[Should be less than 30]	20.1	17.9	
-325	[Should be less than 10]	5.9	3.6	

** If you are not able to maintain the above parameters, you should contact Terry Connelly or Dean Qualls immediately.

Condition of Y-Strainer?: Ok **Did you have to Clean it?** no

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

STACK TEST

DATE: 12/14/11 **LOT #:** K11-348 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: DOBSON **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0840 **STOP TIME:** 0850
[* defined as the time period that product passes through the drying column]

START TIME: 0950 **STOP TIME:** 1528

START TIME: **STOP TIME:**

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0814		
2. FILTER START TIME	0840		
3. FLOWS OFF TIME	1515		
4. SCREWS DOWN TIME	1528		
5. TIME	0940	1140	1340
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	365°	360°	358°
8. VENT FAN AMPS	23	22	23
9. DRAFT FAN AMPS	69	69	69
10. CHLORIDES	21.0	16.0	16.0

DOWN TIMES AND REASONS: # SHUT DOWN DUE TO FILTRATE & FILTER PRESS

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	3			
BEGIN OUTAGE:	1'4"			
END OUTAGE:	3'7"			
USAGE:	27"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED	0
NUMBER OF SALT TRUCKS UNLOADED:	0
NUMBER OF ACID TRUCKS UNLOADED:	3
NUMBER OF ACID RAILCARS UNLOADED:	0
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	2300 ON 12/14/11
PETRO USED IN BATCHING	1/2

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-14-11 **LOT #:** K11-348 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: SYLVIA/SANDERS **SHIFT:** 1ST/2ND

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0940	1140	1340
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	120
3. ACID [FSA] FLOW	[gpm]	51.5	51.6	51.2
4. ACID [FSA] SPECIFIC GRAVITY		1225	1225	1225
5. ACID [FSA] STRENGTH	%	25.3%	25.3%	25.1%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	48.1	46.7	49.4
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1195	1194	1194
8. COLOR OF BRINE [white, yellow, tan, brown]		clear	clear	clear
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	352°	360°	372°
12. VACUUM READING Maintain between 12 and 18	["Hg]	12.5	14.0	14.0
13. PRODUCT TEMPERATURE	[F]	216°	282°	267°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	52	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	11.5	11.5	11.5
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	9.5	9.5	9.5
18. WET SCRUBBER WATER FLOW RATE *MAINTAIN BETWEEN 42 AND 47 gpm*	[gpm]	43	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE	SAMPLE	SAMPLE
+60		.19	.16	.15
+100	[Should be less than 20]	8.6	7.9	9.3
+200	[Should be less than 70]	37.1	52.5	57.0
+325	[Should be less than 30]	21.4	26.0	23.5
-325	[Should be less than 10]	31.6	13.0	9.2

** If you are not able to maintain the above parameters, you should contact Terry Connelly or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-14-11 **LOT #:** K11-348 **(SFS) OR PFS PRODUCTION** [circle one]

A OPERATOR: CHANCEY **SHIFT:** 2nd

PRODUCT DRYING **START TIME:** 1735 **STOP TIME:** 2143
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1715		
2. FILTER START TIME	1735		
3. FLOWS OFF TIME	2130		
4. SCREWS DOWN TIME	2143		
5. TIME	1835	2035	
6. BURNER EXIT TEMP	N/A	N/A	
7. DRYER EXIT TEMP	366	367	
8. VENT FAN AMPS	23	23	
9. DRAFT FAN AMPS	70	68	
10. CHLORIDES	6.0	19.0	

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	4			
BEGIN OUTAGE:	1'3"			
END OUTAGE:	2'8½"			
USAGE:	17½"			

	BRINE TRUCKS
NUMBER OF SALT TRUCKS UNLOADED:	1
NUMBER OF ACID TRUCKS UNLOADED:	0
NUMBER OF ACID RAILCARS UNLOADED:	2
NUMBER OF KCL RAILCARS UNLOADED:	0
TIME OF BATCHING PETRO	0
PETRO USED IN BATCHING	1520
	½ BAG

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER: Good

2-3 TONS STUCK ON SIDES OF K-7

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-14-11 **LOT #:** K11-348 **(SFS) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sadee **SHIFT:** 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1935	2035	
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	
3. ACID [FSA] FLOW	[gpm]	52	52	
4. ACID [FSA] SPECIFIC GRAVITY		1221 - 1	1221	
5. ACID [FSA] STRENGTH	%	24.75	24.75	
6. KCL/SALT BRINE FLOW	[gpm]	49	49	
7. KCL/SALT BRINE SPECIFIC GRAVITY		1129 - 1135 -	1135	
8. COLOR OF BRINE [white, yellow, tan, brown]		white	white	
9. COLOR OF ACID [white, yellow, tan, brown]		yella	yella	
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	/	/	
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	370°	375°	
12. VACUUM READING Maintain between 12 and 18	["Hg]	14	14	
13. PRODUCT TEMPERATURE	[F]	280°	288°	
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H2O"]	12	12	
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H2O"]	2	2	
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H2O"]	10	10	
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 *gpm*	[gpm]	42	42	
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H2O"]	2	2	
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H2O"]	.5	.5	
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H2O"]	1.5	1.5	
21. FRESH WATER TO REACTOR	[gpm]	/	/	
22. PETRO TO PRODUCT ON FILTER	[gpm]	4.0	4.0	
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	6.0	6.0	

PRODUCT SCREEN ANALYSIS		SAMPLE		SAMPLE		SAMPLE
+60		.22	.16	.17		
+100	[Should be less than 20]	10.6	11.3	11.6		
+200	[Should be less than 70]	65.1	63.1	63.9		
+325	[Should be less than 30]	18.3	16.9	17.1		
-325	[Should be less than 10]	6.0	7.9	6.6		

** If you are not able to maintain the above parameters, you should contact Terry Connelly or Dean Qualls immediately.

Condition of Y-Strainer?: OK **Did you have to Clean it?** NO

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/15/11 **LOT #:** K11-349 **SFS OR PFS PRODUCTION** [circle one]

A OPERATOR: Dobson **SHIFT:** 1ST

PRODUCT DRYING **START TIME:** 0645 **STOP TIME:** 1350
[* defined as the time period that product passes through the drying column]

START TIME: _____ **STOP TIME:** _____

START TIME: _____ **STOP TIME:** _____

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	0618		
2. FILTER START TIME	0645		
3. FLOWS OFF TIME	1230		
4. SCREWS DOWN TIME	1350		
5. TIME	0745	0945	1145
6. BURNER EXIT TEMP	N/A	N/A	N/A
7. DRYER EXIT TEMP	366°	381°	370°
8. VENT FAN AMPS	23	23	23
9. DRAFT FAN AMPS	70	70	70
10. CHLORIDES	26	5.5	2.3

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	3			
BEGIN OUTAGE:	1'5"			
END OUTAGE:	3'7"			
USAGE:	26"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED _____
NUMBER OF SALT TRUCKS UNLOADED: _____
NUMBER OF ACID TRUCKS UNLOADED: _____
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO 2230
PETRO USED IN BATCHING 12

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER:
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-15-11 **LOT #:** K11-349 **SFS OR PFS PRODUCTION** [circle one]

B OPERATOR: Sylvia **SHIFT:** 1st

		SAMPLE	SAMPLE	SAMPLE
1. TIME		0755	0955	1155
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	120	120	110
3. ACID [FSA] FLOW	[gpm]	52.3	52.1	39
4. ACID [FSA] SPECIFIC GRAVITY		1221	1221	1221
5. ACID [FSA] STRENGTH	%	24.75%	24.75%	24.7%
6. ~~KCL~~/SALT BRINE FLOW	[gpm]	49.6	48.3	40.3
7. ~~KCL~~/SALT BRINE SPECIFIC GRAVITY		1200	1126	1145
8. COLOR OF BRINE [white, yellow, tan, brown]		white	white	WHITE
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	yellow
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	X	X	X
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	366°	381°	370°
12. VACUUM READING Maintain between 12 and 18	["Hg]	12.0	14.0	13.0
13. PRODUCT TEMPERATURE	[F]	276°	293°	270°
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	50
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	10	10	10.0
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	2.0
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	8	8	8.0
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	42
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	21
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	2.0
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	.5
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	1.5
21. FRESH WATER TO REACTOR	[gpm]	X	X	X
22. PETRO TO PRODUCT ON FILTER	[gpm]	3.5	3.5	3.5
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	7.0	7.0	7.0

PRODUCT SCREEN ANALYSIS		SAMPLE	SAMPLE	SAMPLE
+60		.09	.08	.1
+100	[Should be less than 20]	8.5	11.2	12.1
+200	[Should be less than 70]	48.2	59.1	66
+325	[Should be less than 30]	22.8	18.3	17.2
-325	[Should be less than 10]	19.3	10.5	4.5

** If you are not able to maintain the above parameters, you should contact Terry Connelly or Dean Qualls immediately.

Condition of Y-Strainer?: **Did you have to Clean it?**

REMARKS:

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12/15/11 LOT #: K11-349 (SFS) OR PFS PRODUCTION [circle one]

A OPERATOR: CHANCEY SHIFT: 2ND

PRODUCT DRYING START TIME: 1515 STOP TIME: 2110
[* defined as the time period that product passes through the drying column]

START TIME: STOP TIME:

START TIME: STOP TIME:

	TIME 1	TIME 2	TIME 3
1. FLOWS ON TIME	1447		
2. FILTER START TIME	1515		
3. FLOWS OFF TIME	2000		
4. SCREWS DOWN TIME	2110		
5. TIME	1615	1815	
6. BURNER EXIT TEMP	N/A	N/A	
7. DRYER EXIT TEMP	360	360	
8. VENT FAN AMPS	25	25	
9. DRAFT FAN AMPS	70	70	
10. CHLORIDES	10.0	9.5	

DOWN TIMES AND REASONS:

RAW MATERIALS USAGE

	FSA		KCL	
TANK NUMBER:	4			
BEGIN OUTAGE:	1'6"			
END OUTAGE:	2'7"	3" Pull down REACTORS		
USAGE:	18 1/2"			

NUMBER OF LIQUID BRINE TRUCKS UNLOADED: 0
NUMBER OF SALT TRUCKS UNLOADED: 1
NUMBER OF ACID TRUCKS UNLOADED: 3
NUMBER OF ACID RAILCARS UNLOADED: 0
NUMBER OF KCL RAILCARS UNLOADED: 0
TIME OF BATCHING PETRO 1350
PETRO USED IN BATCHING N/E

REMARKS:
SHAKER SCREEN CONDITION AFTER LOADING TRAILER: Good
PRODUCTION TRAILER INTERNAL CONDITION AFTER UNLOADING: 3-4 Tons stuck on sides.

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 12-15-11 **LOT #:** K11-349 **(SFS) OR PFS PRODUCTION** [circle one]

B OPERATOR: Sander-S **SHIFT:** 2nd

		SAMPLE	SAMPLE	SAMPLE
1. TIME		1615	1815	2015
2. PRODUCTION RATE Start plant at 105 tpd and go to 120- tpd once - 325 < 10%	[tpd]	100	100	
3. ACID [FSA] FLOW	[gpm]	46	46	
4. ACID [FSA] SPECIFIC GRAVITY		1221	1221	
5. ACID [FSA] STRENGTH	%	24.75	24.75	
6. KCL/SALT BRINE FLOW	[gpm]	46	46	
7. KCL/SALT BRINE SPECIFIC GRAVITY		1199	1190	
8. COLOR OF BRINE [white, yellow, tan, brown]		white	white	
9. COLOR OF ACID [white, yellow, tan, brown]		yellow	yellow	
10. REACTOR NO. 1 TEMP [PFS ONLY] Maintain between 110 and 140 degrees	[F]	/	/	
11. DRYER TEMPERATURE *Maintain between 310 and 350 degrees*	[F]	370°	380°	
12. VACUUM READING Maintain between 12 and 18	["Hg]	14	14	
13. PRODUCT TEMPERATURE	[F]	283°	291°	
14. VENTURI SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 50 AND 55 gpm	[gpm]	50	50	
15. VENTURI SCRUBBER AIR PRESSURE AT INLET [POINT A]	["H20"]	11	11	
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET [POINT B]	["H20"]	2	2	
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE [POINT A-B] Maintain between 8 and 14 inches of water	["H20"]	9	9	
18. WET SCRUBBER WATER FLOW RATE MAINTAIN BETWEEN 42 AND 47 gpm	[gpm]	42	42	
19. WET SCRUBBER WATER PRESSURE MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE	[psig]	21	21	
20. WET SCRUBBER AIR PRESSURE AT INLET [POINT B]	["H20"]	2	2	
21. WET SCRUBBER AIR PRESSURE AT OUTLET [POINT C]	["H20"]	.5	.5	
22. WET SCRUBBER DIFFERENTIAL PRESSURE [POINT B-C] Maintain between 1.0 and 4.5 inches of water	["H20"]	1.5	1.5	
21. FRESH WATER TO REACTOR	[gpm]	/	/	
22. PETRO TO PRODUCT ON FILTER	[gpm]	3	3	
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	6	6	

PRODUCT SCREEN ANALYSIS		SAMPLE	1715	SAMPLE	1915	SAMPLE
+60		.30	.17	.17	.10	
+100	[Should be less than 20]	11.8	11.1	12.4	11.0	
+200	[Should be less than 70]	50.9	57.9	62.8	61.3	
+325	[Should be less than 30]	19.9	20.7	19.8	20.3	
-325	[Should be less than 10]	16.5	9.5	4.3	6.5	

** If you are not able to maintain the above parameters, you should contact Terry Connelly or Dean Qualls immediately.

Condition of Y-Strainer?: Ok **Did you have to Clean it?** no

REMARKS: