

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

53

DATE: 1-13-11

LOT #: K11-013

SFS OR PFS PRODUCTION [circle one]

A OPERATOR: DoBson

SHIFT: 1st

PRODUCT DRYING START TIME: 0655 STOP TIME: 1300
 [* 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	<u>0621</u>	_____	_____
2. FILTER START TIME	<u>0655</u>	_____	_____
3. FLOWS OFF TIME	<u>1242</u>	_____	_____
4. SCREWS DOWN TIME	<u>1300</u>	_____	_____
<hr/>			
5. TIME	<u>0755</u>	<u>0955</u>	<u>1155</u>
6. BURNER EXIT TEMP	<u>1070°</u>	<u>1082°</u>	<u>1042°</u>
7. DRYER EXIT TEMP	<u>368</u>	<u>352°</u>	<u>362°</u>
8. VENT FAN AMPS	<u>23</u>	<u>23</u>	<u>23</u>
9. DRAFT FAN AMPS	<u>70</u>	<u>70</u>	<u>70</u>
10. CHLORIDES	<u>6.4</u>	<u>5.8</u>	<u>5.7</u>

DOWN TIMES AND REASONS: _____

RAW MATERIALS USAGE

	<u>FSA</u>	<u>KCL</u>
TANK NUMBER:	<u>2</u>	<u>/</u>
BEGIN OUTAGE:	<u>1'11"</u>	<u>/</u>
END OUTAGE:	<u>4'5"</u>	<u>/</u>
USAGE:	<u>30"</u>	<u>/</u>

NUMBER OF SALT TRUCKS UNLOADED: 2
 NUMBER OF ACID TRUCKS UNLOADED: 6
 NUMBER OF ACID RAILCARS UNLOADED: 0
 NUMBER OF KCL RAILCARS UNLOADED: 0
 TIME OF BATCHING PETRO 2100
 PETRO USED IN BATCHING 1/2 BAG

REMARKS: _____

KC INDUSTRIES, LLC.
DAILY QUALITY CONTROL AND PRODUCTION LOG

DATE: 1/3/11

LOT #: K11-013

SFS OR PFS PRODUCTION [circle one]

B OPERATOR: Roman

SHIFT: 1st

		SAMPLE 1	SAMPLE 2	SAMPLE 3
1. TIME		<u>0755</u>	<u>0955</u>	<u>1155</u>
2. PRODUCTION RATE	[tpd]	<u>120</u>	<u>120</u>	<u>120</u>
Start plant at 105 tpd and go to 120- tpd once - 325 < 10%				
3. ACID [FSA] FLOW	[gpm]	<u>55.3</u>	<u>55.3</u>	<u>55.3</u>
4. ACID [FSA] SPECIFIC GRAVITY		<u>1210</u>	<u>1210</u>	<u>1210</u>
5. ACID [FSA] STRENGTH	%	<u>23.6%</u>	<u>23.6%</u>	<u>23.6%</u>
6. KOL /SALT BRINE FLOW	[gpm]	<u>50.0</u>	<u>48.0</u>	<u>49.0</u>
7. KOL /SALT BRINE SPECIFIC GRAVITY		<u>1200</u>	<u>1200</u>	<u>1200</u>
8. COLOR OF BRINE		<u>white</u>	<u>white</u>	<u>white</u>
[white, yellow, tan, brown]				
9. COLOR OF ACID		<u>yellow</u>	<u>yellow</u>	<u>yellow</u>
[white, yellow, tan, brown]				
10. REACTOR NO. 1 TEMP [PFS ONLY]	[F]	<u>X</u>	<u>X</u>	<u>X</u>
Maintain between 110 and 140 degrees				
11. DRYER TEMPERATURE	[F]	<u>368°</u>	<u>352</u>	<u>336</u>
Maintain between 310 and 350 degrees				
12. VACUUM READING	["Hg]	<u>12</u>	<u>12</u>	<u>12</u>
Maintain between 12 and 18				
13. PRODUCT TEMPERATURE	[F]	<u>272°</u>	<u>289°</u>	<u>294°</u>
14. VENTURI SCRUBBER WATER FLOW RATE	[gpm]	<u>52</u>	<u>52</u>	<u>52</u>
MAINTAIN BETWEEN 50 AND 55 gpm				
15. VENTURI SCRUBBER AIR PRESSURE AT INLET	["H2O"]	<u>10</u>	<u>10</u>	<u>10</u>
[POINT A]				
16. VENTURI SCRUBBER AIR PRESSURE AT OUTLET	["H2O"]	<u>2</u>	<u>2</u>	<u>2</u>
[POINT B]				
17. VENTURI SCRUBBER DIFFERENTIAL PRESSURE	["H2O"]	<u>8</u>	<u>8</u>	<u>8</u>
[POINT A-B] Maintain between 8 and 14 inches of water				
18. WET SCRUBBER WATER FLOW RATE	[gpm]	<u>42</u>	<u>42</u>	<u>42</u>
MAINTAIN BETWEEN 42 AND 47 gpm				
19. WET SCRUBBER WATER PRESSURE	[psig]	<u>21</u>	<u>21</u>	<u>21</u>
MAINTAIN BETWEEN 20 AND 22 PSIG TO THE SPRAY NOZZLE				
20. WET SCRUBBER AIR PRESSURE AT INLET	["H2O"]	<u>2</u>	<u>2</u>	<u>2</u>
[POINT B]				
21. WET SCRUBBER AIR PRESSURE AT OUTLET	["H2O"]	<u>.5</u>	<u>.5</u>	<u>.5</u>
[POINT C]				
22. WET SCRUBBER DIFFERENTIAL PRESSURE	["H2O"]	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>
[POINT B-C] Maintain between 1.0 and 4.5 inches of water				
21. FRESH WATER TO REACTOR	[gpm]	<u>X</u>	<u>X</u>	<u>X</u>
22. PETRO TO PRODUCT ON FILTER	[gpm]	<u>5.0</u>	<u>5.0</u>	<u>5.0</u>
23. RINSE WATER TO PRODUCT ON FILTER	[gpm]	<u>7.0</u>	<u>7.0</u>	<u>7.0</u>
PRODUCT SCREEN ANALYSIS		SAMPLE 1	SAMPLE 2	SAMPLE 3
+60		<u>0.2</u>	<u>0.3</u>	<u>0.3</u>
+100	[Should be less than 20]	<u>8.5</u>	<u>11.5</u>	<u>13.0</u>
+200	[Should be less than 70]	<u>48.1</u>	<u>61.2</u>	<u>54.7</u>
+325	[Should be less than 30]	<u>29.5</u>	<u>21.8</u>	<u>25.0</u>
-325	[Should be less than 10]	<u>13.2</u>	<u>5.0</u>	<u>6.7</u>

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

REMARKS: Lower brine flow from 50 to 48 due to product was on the fine side.

KC Industries, LLC
Truck Unloading / Bagging Record

Date: 12-14-10 Lot Number: K10-348 Product: SFS PFS
 (The date and Lot number start with the 10:00 pm - 6:00 am shift)

Truck Unloading #1 (10:00 pm - 6:00 am)

Estimated Quantity: _____ tons

Start Time: _____ End Time: _____ Unloaded by: _____

Pressure Drop: _____ inches at _____ (time) * If less than 0.1 or greater than 8.0
notify supervisor immediately

Air Pressure: _____ psi at _____ (time) * Adjust to between 80 - 100 psi

Visible emissions from Baghouse: Yes No * If yes notify supervisor immediately**Truck Unloading #2** (6:00 am - 2:00 pm)Estimated Quantity: 30 tonsStart Time: 1825 End Time: 1943 Unloaded by: SylviaPressure Drop: 0.8 inches at 1840 (time) * If less than 0.1 or greater than 8.0
notify supervisor immediatelyAir Pressure: 97 psi at 1840 (time) * Adjust to between 80 - 100 psiVisible emissions from Baghouse: Yes No * If yes notify supervisor immediately**Truck Unloading #3** (2:00 pm - 10:00 pm)Estimated Quantity: ^{34/35} ~~30~~ tonsStart Time: 0400 End Time: 0525 Unloaded by: SylviaPressure Drop: ^{1.2} ~~1.0~~ inches at 0415 (time) * If less than 0.1 or greater than 8.0
notify supervisor immediatelyAir Pressure: 100 psi at 0415 (time) * Adjust to between 80 - 100 psiVisible emissions from Baghouse: Yes No * If yes notify supervisor immediately

KC Industries, LLC
Truck Unloading / Bagging Record

(Date and Lot # should correspond with the date and Lot # from page 1)

Bagging Operation

Date Bagged: 12/15/10 Start Time: 0430 End Time: 1630
 Pressure Drop: .02 inches at 0430 (time) * If less than 0.1 or greater than 8.0
 notify supervisor immediately
 Air Pressure: .99 psi at 0430 (time) * Adjust to between 80 - 100 psi
 Visible emissions from Baghouse: Yes No * If yes notify supervisor immediately

Package Type:	Lot Number	Product	Package #	Pallets	Tons
#1 50 LB Bags	<u>K10348</u>	<u>SFS</u>	<u>#1</u>	<u>2</u>	<u>2.5</u>
#2 400 LB Drums	<u>K10348</u>	<u>SFS</u>	<u>#4</u>	<u>40</u>	<u>42.5</u>
#3 125 LB Drums					
#4 2000 LB Top Outlet Super Sacks					
#5 2500 LB Bottom Outlet Super Sacks					
#6 300 LB Drums					

Recorded By: [Signature]

Bagging Operation

Date Bagged: 12/16/10 Start Time: 0430 End Time: 1630
 Pressure Drop: .02 inches at 0430 (time) * If less than 0.1 or greater than 8.0
 notify supervisor immediately
 Air Pressure: .98 psi at 0430 (time) * Adjust to between 80 - 100 psi
 Visible emissions from Baghouse: Yes No * If yes notify supervisor immediately

Package Type:	Lot Number	Product	Package #	Pallets	Tons
#1 50 LB Bags	<u>K10348</u>	<u>SFS</u>	<u>#4</u>	<u>10</u>	<u>10.625</u>
#2 400 LB Drums					
#3 125 LB Drums					
#4 2000 LB Top Outlet Super Sacks					
#5 2500 LB Bottom Outlet Super Sacks					
#6 300 LB Drums					

Recorded By: [Signature]

Bagging Operation

Date Bagged: _____ Start Time: _____ End Time: _____
 Pressure Drop: _____ inches at _____ (time) * If less than 0.1 or greater than 8.0
 notify supervisor immediately
 Air Pressure: _____ psi at _____ (time) * Adjust to between 80 - 100 psi
 Visible emissions from Baghouse: Yes No * If yes notify supervisor immediately

Package Type:	Lot Number	Product	Package #	Pallets	Tons
#1 50 LB Bags					
#2 400 LB Drums					
#3 125 LB Drums					
#4 2000 LB Top Outlet Super Sacks					
#5 2500 LB Bottom Outlet Super Sacks					
#6 300 LB Drums					

Recorded By: _____

Total Tons This Lot Number 55.625

