

WOOD FIRING FEB 27 2020

Cones: 010, 1, 6, 8, 9, 10, 11, 12

TIME	TEMP	NOTES
3:15 PM THURS		lit kiln w/ Brian, Sam, Kenzie, mandi, muel, emily, Purze, Brooks, Flannion, mel fisher, Alma, sydney, Sydney's Beg. class Dampener at 6" open (3" on both sides) stoking small sticks in bottom holes
5:10 P	315°	still keeping a campfire in bottom
6:10 P	375°	still keeping campfire going w/ small sticks/bark chips. At 7pm aiming to begin increasing temp by 100° per hour Alma + Emma manning fire, Sam beginning to collect small logs to use for temp increase, sun going down
7 P	388	threw in 4 2 inch logs to begin temp increase, still maintaining campfire w/ medium small sticks, Sam, mandi, Alma
7:33 P	453	threw 10(ish) 2" logs since first time, trying to keep Pyro climbing
8:00 P	526	Temp climbed fast, letting the temp ride Bri arrived (w/dhili), mandi Mandi is leaving mel is watching w/ Amy to @ the fire
8:30 P	605	Continued to feed fire w/ same sized logs Axing wood to make 2" ish logs (Sam & Alma) Bri & Amy on fire watch → 573° at 8:50, starting to throw in smaller logs more consistently.
9:00 P	553	Temp dropped, throwing wood in all at once makes temp fluctuate too much, going to start to consistently add smaller logs. Still splitting wood to make 1"-2" logs → 577° threw in small a mix of 2" logs and smaller ones → 600° Temp rose, letting it ride

9:30p

580°

2

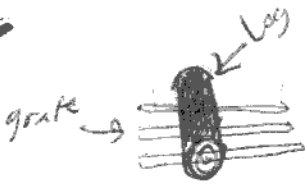
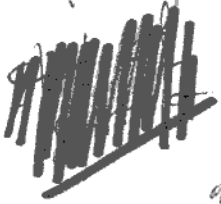
Damper @ 4" moved (dampers) 1" on each side. it was @ 6" before.

Brian visited w/ olive (he hunger :) feeding the fire more (Amy), still spitting trying to increase the temp

• Put a 5" log on ~~GRATE~~ to commence the transition - slowly burning (9:40 pm) (perpendicular)

→ 9:53 2nd log dropped on grate

→ 612°



10:00p

617°

✓ @ 10:15 we will drop another log grate

(adding 1 log to grate every 1/2 hour) we tried

→ Temp @ 635° when log was put in

* feeding @ bottom (8") ungrate

10:30p

640°

~~Temp @ 635°~~ Brian said if temp begins to stall/plateau we can fully switch to only logs in door. when we do that if temp jumps drastically it was too soon

→ 672°
10:51 → Added log to grate → 670° (still feeding bigger (more than 2") @ bottom)

11:00p

684

- Added log to grate
- still feeding @ bottom (3-4" ish pieces)
→ 682° spiked to 700°
→ 716° → Climbing slowly, put another log on top @ 11:22

11:30pm 738

Temp is climbing! → big drop to 720° (4 logs @ bottom)

→ Put 2 logs @ top 11:38

→ Temp rising slowly (720°) @ 11:41

→ 747° @ 11:45

→ 755° 11:51 → add 3/4 logs @ bottom

12:00 am 770° 3 Temp is slowly rising / steady
FRIDAY Start of shift 3 ↓ Added log on grate
→ 780°

12:11 am 786° Added 2 Branch logs @ bottom
→ Dropped log on grate (12:16 am)
↳ 780°
→ dropped another log on grate @ 12:21
(might start switch to top soon)
→ temp finally going up again!

12:28 am 788° → 2 logs on top grate
Temp not rising as much w/ previous ways
→ Temp now @ 800°
* adding wood @ bottom doesn't do much now as adding wood on top
→ 823° added log on grate 12:30
12:38 → placed 1 more log on grate → 840°

12:52 am 850° ← Added 2 logs on grate, 1 on bottom
It's climbing steadily
867° @ 12:54 am
867° 101 am → adding more 2" logs to bottom

1:00 875° Put 4 logs @ bottom
Alma is outtie :)

1:20 880° 2 logs added to grate
→ 1:31 one log to bottom @ one to top 890°
→ 1:40 am 910°

1:45 900° add one to grate, Jenny, Mel, Sam, Bri,

2 am 910° added 2 logs to grate, added two to bottom also (small ones)

2:20 916° added 2 bottom one to grate
Sam getting tired

2:33 900 Temp went ↓ a little; 2 in bottom (2" logs)
2 in grate (4" logs)

2:37 907 Temp stalling 2 on grate

2:43 917 "

2:54 917 " 3 more logs on grate

→ 2:58am temp at 930, finally climbing
no more logs to bottom?
Mel, Sam, Jenny, Ben

3am 932 watching pyrometer, if it stops climbing
steadily add a log to grate
coal bed is glowing orange

3:08 937 temp stall for two minutes so I threw
two logs on grate. I think we have
successfully switched from throwing to
the coal bed to ~~stacking~~ stacking on grate
only. (SP)

3:15 955 at 3:10am temp still at 955, added two
more logs to grate/firebox

3:22 964 temp increasing steadily ☺ ☺ ☺ ☺ ☺ ☺

3:33a 952 temp drop maybe because last two logs we
threw in fell to coal bed? letting those
burn while adding to grate every 10
mins


~~3:47~~ 954 added 5 logs to firebox/grate.

~~3:50~~ 3:56 985 added 5 logs to firebox. watching
pyrometer and if it stops climbing
we add logs to grate.

4a 1004 temp climbing steadily again ☺ ☺ ☺ ☺

4:05 1022 **4** Brian @ Mel on shift shift 4

4:12 1039 ↓ added 3 logs into grate

4:20 1047 closed primary air a little 

4:37 1080 added 3 logs

4:52 an 1115 added 3 logs

5:14 an 1152 added 3 logs, stoked 3 logs each time

5:35 an 1198 work glows in front / side peep, just barely starting to glow in middle. starting to see some flame going into middle of the kiln

6:00 am 1273 stoked, getting bright in front

6:15 am 1301 more flame in middle of kiln

6:23 am 1314

6:35 am 1349 middle of kiln glowing red flame going into back peep

6:43 an 1361 AOID dropped in front

7:10 am 1457 moving to lighter stokes because smoke is traveling to Ogle Center. Trying to make the kiln smoke less

7:20 an opened damper - to 6" (open), also opened middle 2 secondary air ports. Smoke is still headed straight to Ogle Center

7:30 an 1520 small stokes more frequently, kiln is smoking less. Stoked 1-2 pieces every couple of minutes. Looking to keep flame in the middle of kiln

AOID ↓ in first side peep on right side

8:56 am 1702 15 front stokes, 4 side stokes from
Shift 5 8 - 8:50, regulating stoke

9:30 am 1826° 2 side stakes, 25 front stakes

10:00 am 1878° 2 side stakes 18 front

10:33 am 1834° 1 side stake 18 front

11:06 1847° 3 side stakes 17 front

11:35 1917° ~~IV~~ side stakes 17 front
4 total

12:04 ^{shift 6} 1959° **6** ~~IV~~ side stakes 17 front
4 total

12:38 1881° **6** 6 side stakes 18 front

1:10 1965° 6 side stakes 18 front

1:51 1913° 6 side stake 18 front

2:14 2000° 5 side stake 17 front

2:39 2053° Add down back, left Δ 10 down, Δ 1 soft, right Δ 10 down, front bottom Δ 10, 11, 12 front top Δ 1 is soft
14 front, 7 side stakes

now 3 side stakes to every 1 front stake

3:35 1859° right Δ 1 soft,

4:00 pm ^{shift 7} 1996° **7** 18 pieces Side stake Averaged 30 pieces in front
"large"
Brian, Emma, Alma, Savannah, Charlynn, Sydney, Mandi
Chopping large pieces of wood for front stake
Cuts are same

Δ 0, 1, 6, 8, 9, 10, 11, 12

7:08

Ab is soft on Chimney
mid ~~Right~~
& back Right
still doing
6 logs & 3 Side stokes
Temp @ 2175°

7:25pm

still stoking 6 logs in front, 3 in each side
stoke, watching flame and when it disappears
we stoke again front top cones all are
down, back top cone pack
temp 2168
→ 7:30 Sydney rated coal bed (ish) made lil channel for air

7:50

↓ Same ^{as top}, Temp @ 2185°
Ab is falling in back Right

8:13

8
↓

Same process Start of shift 8
temp @ 2192°
→ Right side stoke ~~flame~~ flame is
lingering longer than chimney
flame (T) ~~left~~ left side stoke

8:40pm

Brian has Arrived! Packed coal bed to make
ramp, got that good Sunshine
Temp @ 2200° @ 8:46
Ab in middle is falling more

9:11

stoking as before
Ab is finally almost down in chimney

9:30

front Right Ab is down, D8 is soft
Back Right Ab is down, D8 is soft
Chimney (back) Ab is down, D8 is soft
temp is 2230°

4:15pm Stoking Rhythm is to clear the middle so flat only wispy flames are there, then stoke 2-3 pieces each side (side stoke), the wait 20 seconds or so and stoke 3-5 pieces. damper is at 6" open 2 secondary air are open/cracked. 2 primaries are open temp is 2048

4:42 pm Same stoking Rhythm - 3 on each side when flame has died down by 3-4 logs in front after 15 secs Temp is at 2095°
→ 2106°

5pm Same →
2147° Temp
2145° @ 5:15
~~Back Right Side Δ1~~
Δ1 is down in the side stoke
Δ1 is down in the back

5:41 2169/2170° Temp
2160° @ 5:48pm

6:05 5 logs @ front, 3 side stoke!
Plateu on temp, just ^{sticks} keep stoking!
Watch flame on chimney, begin the stoking when it starts to die down. Check the Peeps when there are no flames or small wisps & add the side stoke.
2165° - 6:10
Δ6 is soft in back

6:30 2192° - Temp!
same

front right - Δ6 soft
back right - Δ6 down
back - Δ6 soft

6:48 Δ12 is soft everything is down @ front
So uneventful! is ok, 6 pieces wood @ front - same 3 side stoke
closed the primary air temp @ 2127°

9:46 p raked coal bed

10:13 p

Temp @ 2230
middle $\Delta 8$ bending, $\Delta 9$ soft
(back) Chimney $\Delta 8$ still soft
Back Right

11:00

Temp @ 2218°
stoking more frequently
11" flame from chimney that's flickering
before stoking
- we are trying to slow down the fire
so that $\Delta 9$ isn't bending
 $\Delta 8$ is down in middle, $\Delta 9$ is soft
- Raked coal bed, some logs had fallen
Chimney (back) $\Delta 8$ is soft
Back Right $\Delta 8$ down $\Delta 9$ soft
middle $\Delta 8$ down $\Delta 9$ soft

12:00 am 9 Temp @ 2183°

Start of Shift 9

12:05 am ↓ Back right $\Delta 9$ down, 10 soft
temp 2183

1am

2165° lost flame coming out of side
ports, stoking more often to bring it
back

220a

coal bed keeps getting packed full
and temp has dropped to 2127. there
still no flame coming from side
ports, we keep stoking to in front
and 3 in sides when chimney
flame gets low. cones still same

230a

temp 2137, Kevie, Emily, Sam, Manti

~~320a~~
320a

2153° cones same (9 soft all over)
coal bed keeps getting full, there's
black/grey coals visible. Not as much
sunshine, no flame coming from
side stokes, not sure what to do to
fix this. (P)

334a

2151° firebox/grate is filling up but seems
to be burning slower. Needing
to stoke more often because
chimney flame is going low faster
→ we pulled out some of the darker
grey/black coals, opened up the
secondary air



temp 2160°

426a 2174° ¹⁰

start of shift 10

raked again, don't see much sunshine
coal bed seems so full

4:45a 2162°

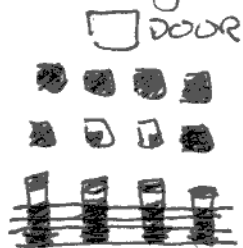
changed secondary air because
coal bed doesn't seem to be
allowing much air



any on shift
Emily @ Sam

5:02a 2150°

wood in firebox building up and not
burning. altered primary air



chimney cones → 10, 11, 12 still standing
back right → cones stuck to
surrounding work?
Right middle → not visible

530

2171°

Brian arrived!! cone 10 might be
soft in the middle but it is
hard to see. we have been only
been stoking 3 in front because the
logs are burning a bit slower.
trying to keep the firebox evenly level
and height just below the opening of the door.

8:45 2261 still continuing to side stoke 4 pieces
and ~~from~~ stoke 4-5 in front.

8:58 2284 saw wood was building up on grates,
opened up ~~to~~ secondary airs.
Using rake to make sure there
is air flow over coal bed

9:45 2260 $\Delta 10$ ~~down~~ is ~~down~~ in side stoke
chamber
moving around ~~at~~ 2260

10:15 am opened lamp to 10" open (was at 8")

10:45 am 2309

11:00 am 2315 $\Delta 11$ down in middle

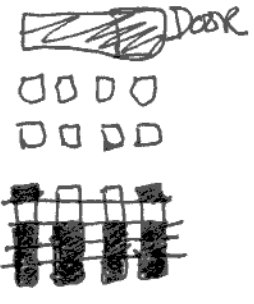
11:25 2340 secondary ports closed

11:33 2335 - Opened outside bottom holes
(two bricks out of all 4
bottom air holes)
- coals were building

11:45 2337

far back right hole tip of $\Delta 10$ is
~~parallel~~ ^{parallel} to surface (half bent)
wrapped clay around peephole to
keep air out / keep reading accurate

556a 2170°



side stoking 3 everytime the chimney flame gets low.
 Stoking front 4 lags about 1-2mins after side stoke, watching flame in between and waiting for the wispy flame → then stoke front when we see it
 → been raking coal bed periodically, if any coals fall out place them in metal bucket NOT DUMPSTER

640a 2206 aiming to keep steadily above 2200 moving forward

720a 2206 Side Stoking 3 when no flame is present from chimney, then Stoking 4 in front when flame drops again/is wispy

744a 2210 opened damper 1" on each side it is now 8" open total side stoke 10 soft

750a 2235° going to stoke 4 on the side and 5 in front. Because we opened the damper, wanted to give more fuel to the air ratio. We are aiming to cruise right around 2250° Bri is here now.

8:03 2227
 ↓ Emily @ Sam going home.
 Brown, Nancy, Bri on shift
 SUN IS OUT

Start of shift !!

8:06 2236
 Stoke 4 on side
 Stoke 5 in front

12:30 pm 12 2308 Started bundling the side stokes
- we drop 3 stokes in, then fill the side stoke
with a bundle
- then go to bundle half way in when fire burns
into wood, then bundle flush, then down
bundle
- stoking front with 4-6 pieces after clearing side
stoke

Start
of
Shift 12

2:11 pm 2329 $\Delta 12 \downarrow$ in front
 $\Delta 11 \downarrow$ in side stoke
 $\Delta 11$ half in back peep
 $\Delta 10$ flat in back / ~~down~~ top

~~2:00 pm~~ - start stoking with side stoke in the front.
- did a few more side stoke rhythms but
focusing on spiking heat in front

3:00 pm - last stoke - bundles of side stoke
in the front

shut down crew - Brian, Sydney, Emily,
Amy, + Bri

Finish shutdown around 4 pm