Observers: jcl

Center for Snow and Avalanche Studies

Profile # 1

Time: 1300

Snowpack Profile

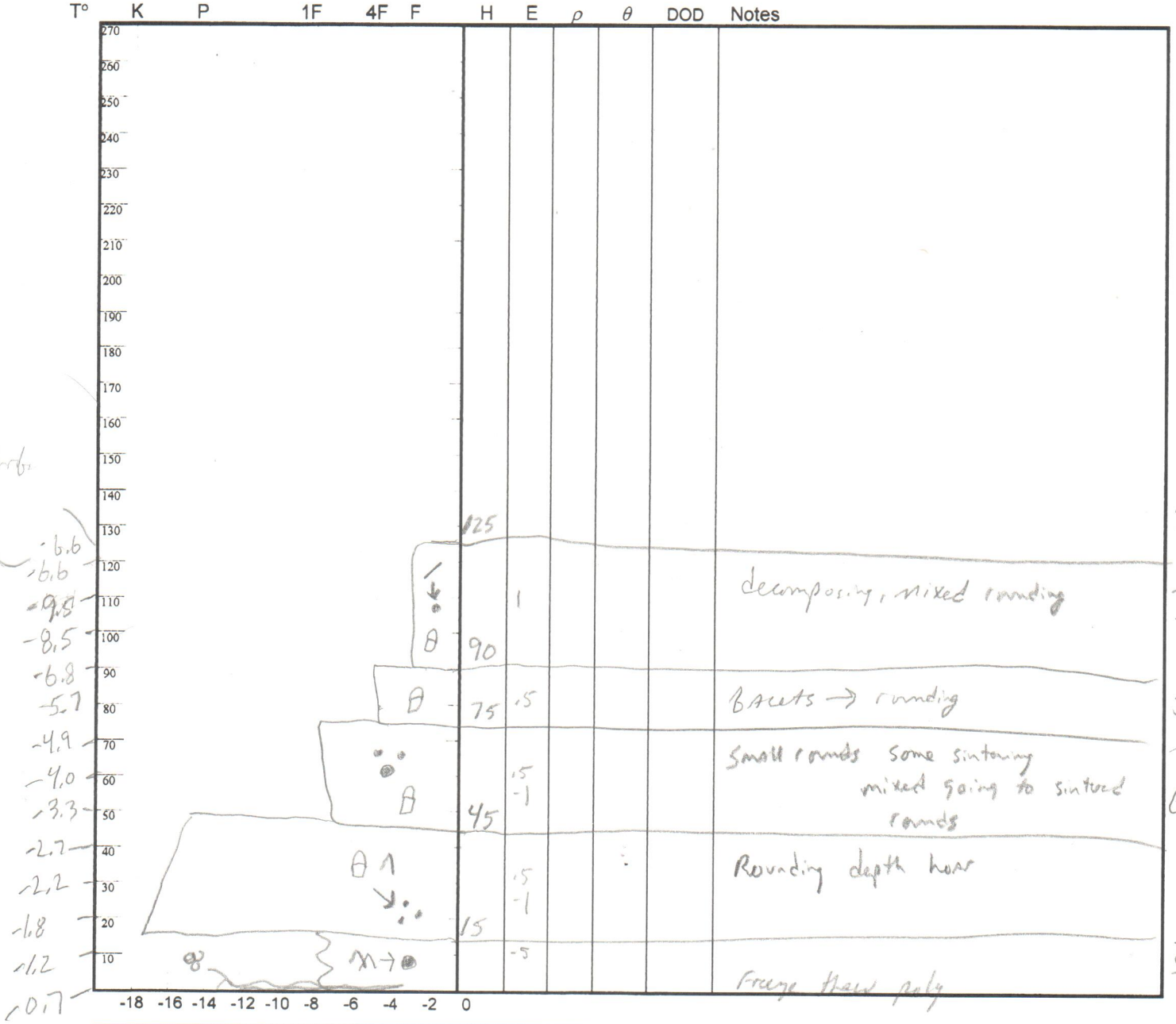
Date: 1/14/20

Location: SASP

Elev. 11,060' Aspect: SE Boot Pen: 25 cm ∠: 1 °

Air T: -4 °C Sky: O Precip: nil Wind: mod Prior Pit: # —; / /

Total Snowpack SWE: 335 mm H_2O HS Norm: 1.25 m Mean ρ: 268 kg/m³ Notes: No visible dust



Notes:

V. 12/4/15

Observers: JD, RD

Center for Snow and Avalanche Studies

Profile # 2

Time: 12:30 MST

Snowpack Profile

Date: 02/11/2020

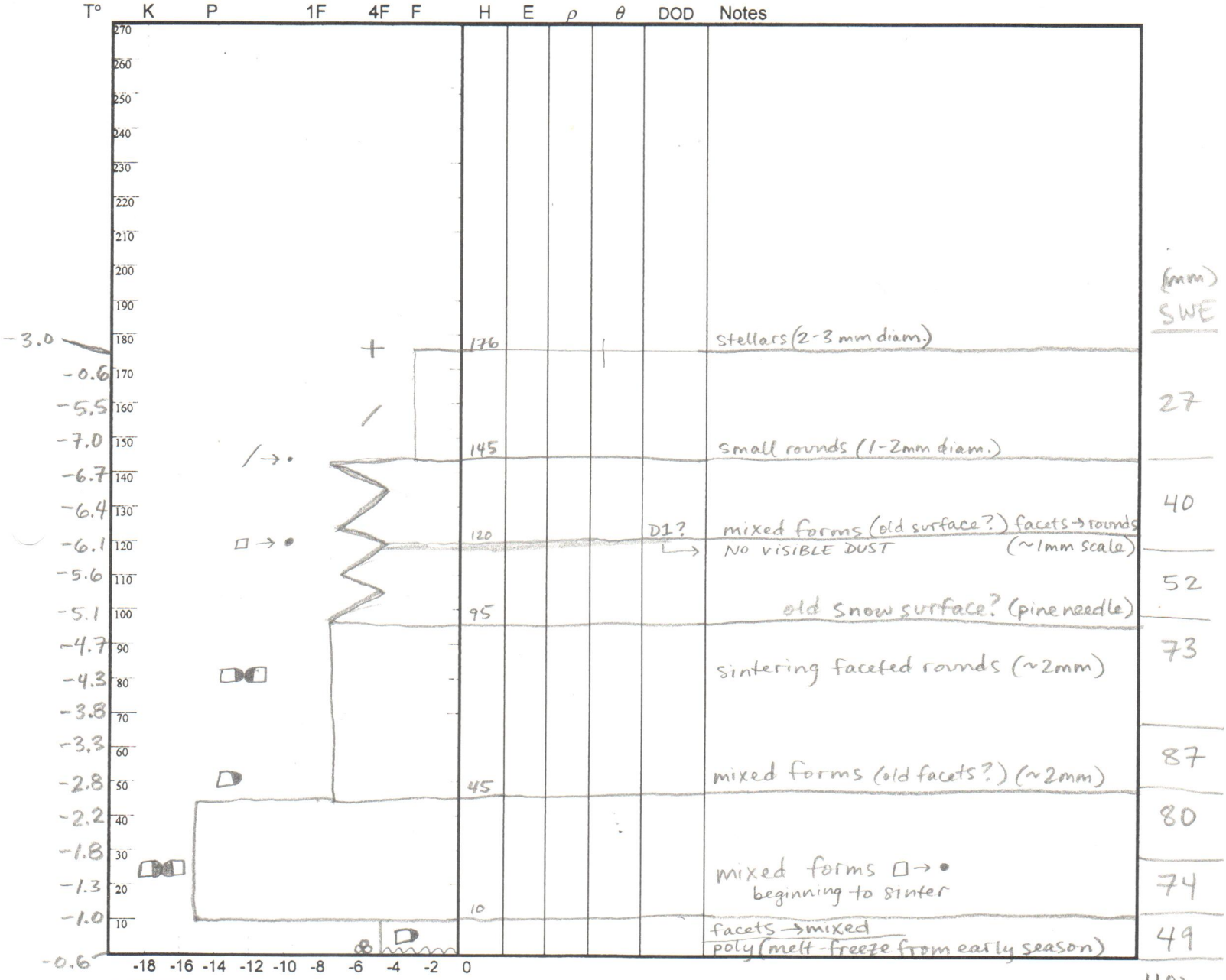
Location: SASP

Elev. 11,600 ft. Aspect: SE Boot Pen: 37 cm ∠: 2 °

Air T: -4.2 °C Sky: ◔ Precip: NIL Wind: calm Prior Pit: # 1 ; 1/14/2020

Total Snowpack SWE: 482 mm H_2O HS Norm: 1.75 m Mean ρ: 275 kg/m³ Notes:

Possible DI AT 1.2 m



Notes:

V. 12/4/15

Observers: JD, AR

CODOS Snowpack Profile

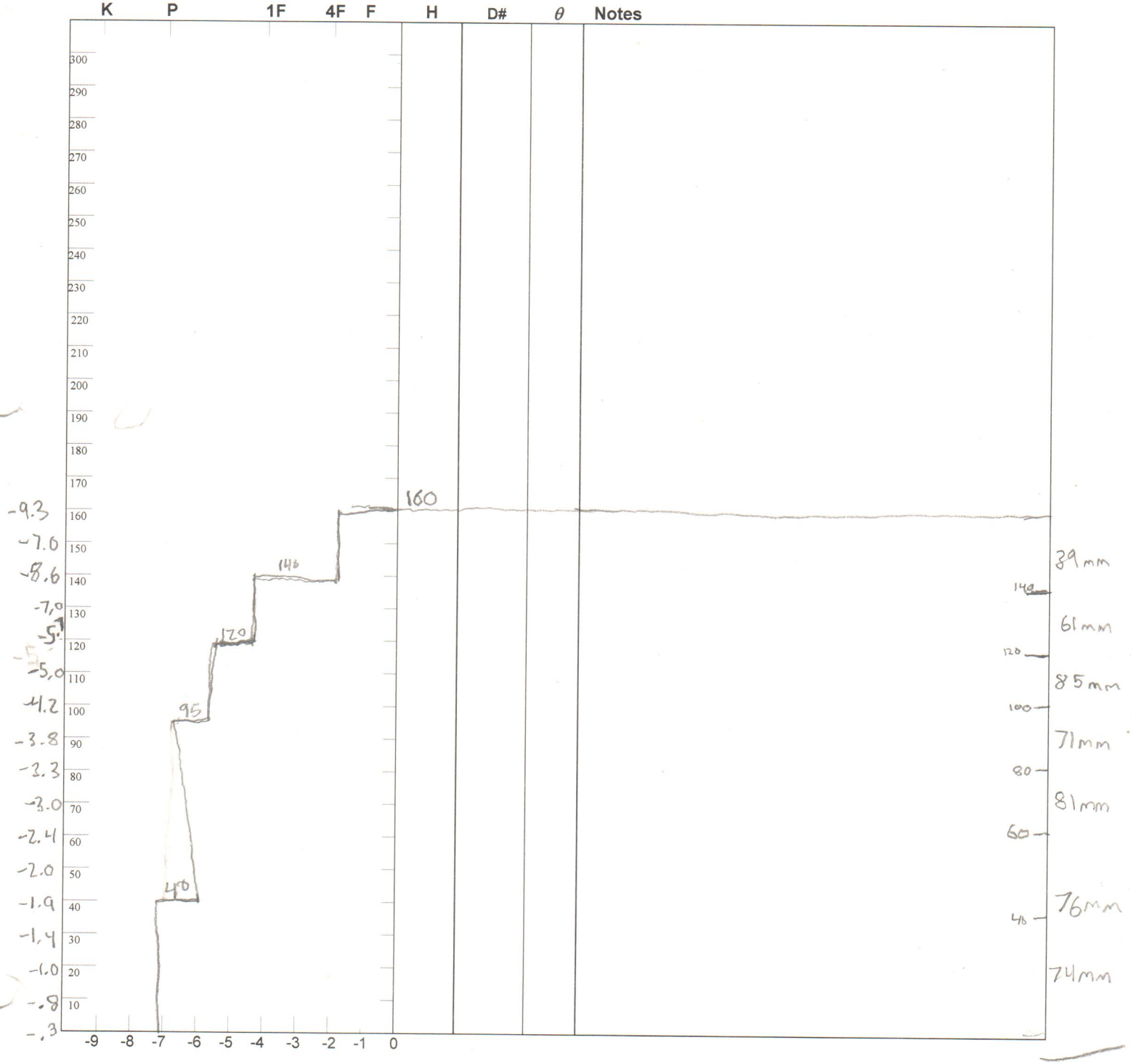
Date: 2/20/2020

Location: SASP Elev. 1060 Aspect: SE Boot Pen: 21 cm ∠: 2° Time: 2:38 PM MDT

Prior Obs: ___/___/___ Air T: -3 °C Sky: O Precip: NO Wind: C Notes:

No dust observed. 1.6 slope normal

Snow School



487

Observers: Jed/[illegible]/Kaylee

Center for Snow and Avalanche Studies

Profile # 4

Time: 9:43

Snowpack Profile

Date: 3 / 5 / 2020

Location: SASP

Elev. 11,060'

Aspect: SE

Boot Pen: 25 cm

∠: 2 °

Air T: -1.3 °C

Sky: O

Precip: Nil

Wind: Nil

Prior Pit: # 3 ; 2 / 20 / 2020

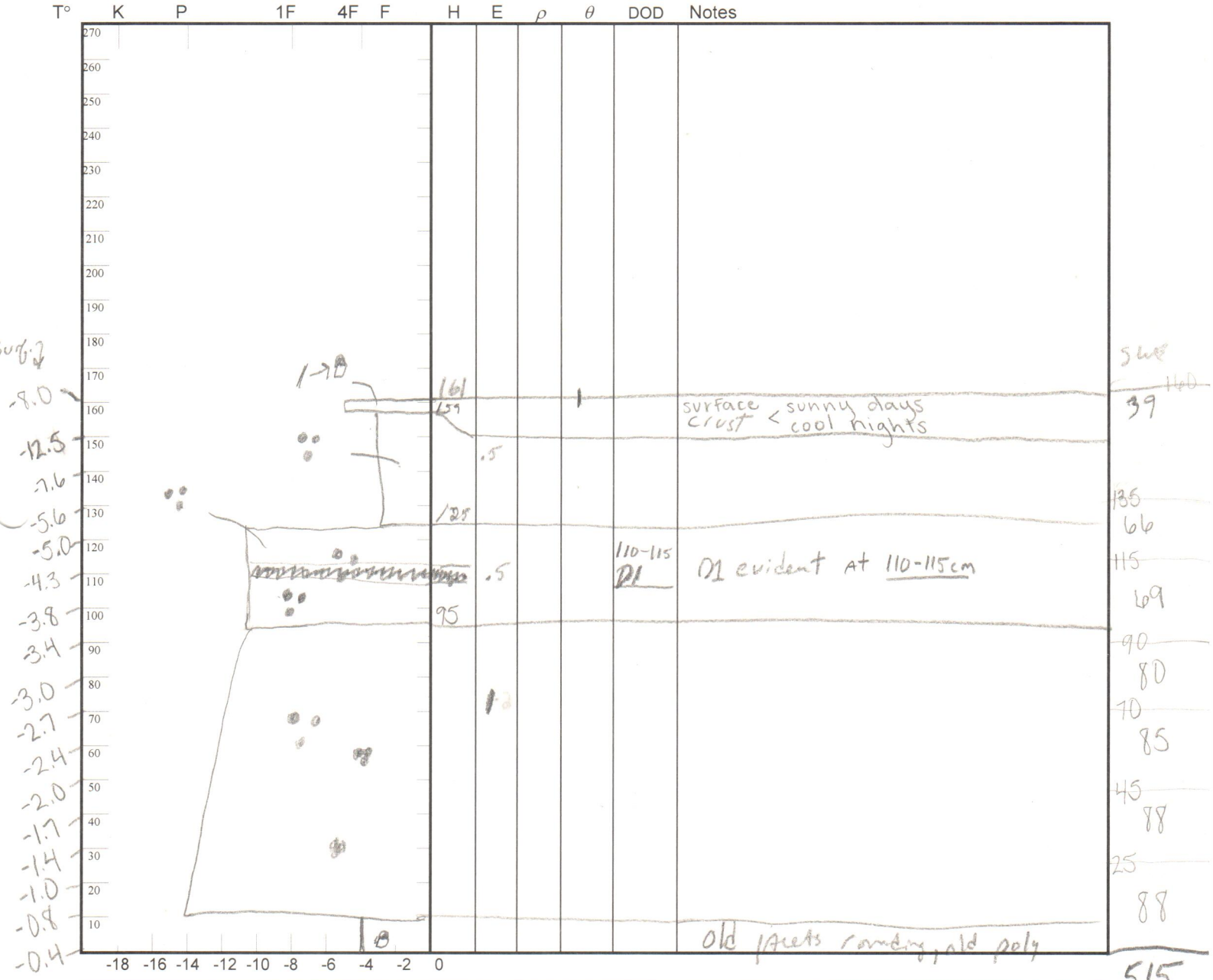
Total Snowpack SWE: 515 mm H_2O

HS Norm: 1.6 m

Mean ρ 322 kg/m³

Notes:

D1 = 110-115 cm



Notes:

Observers: g.d

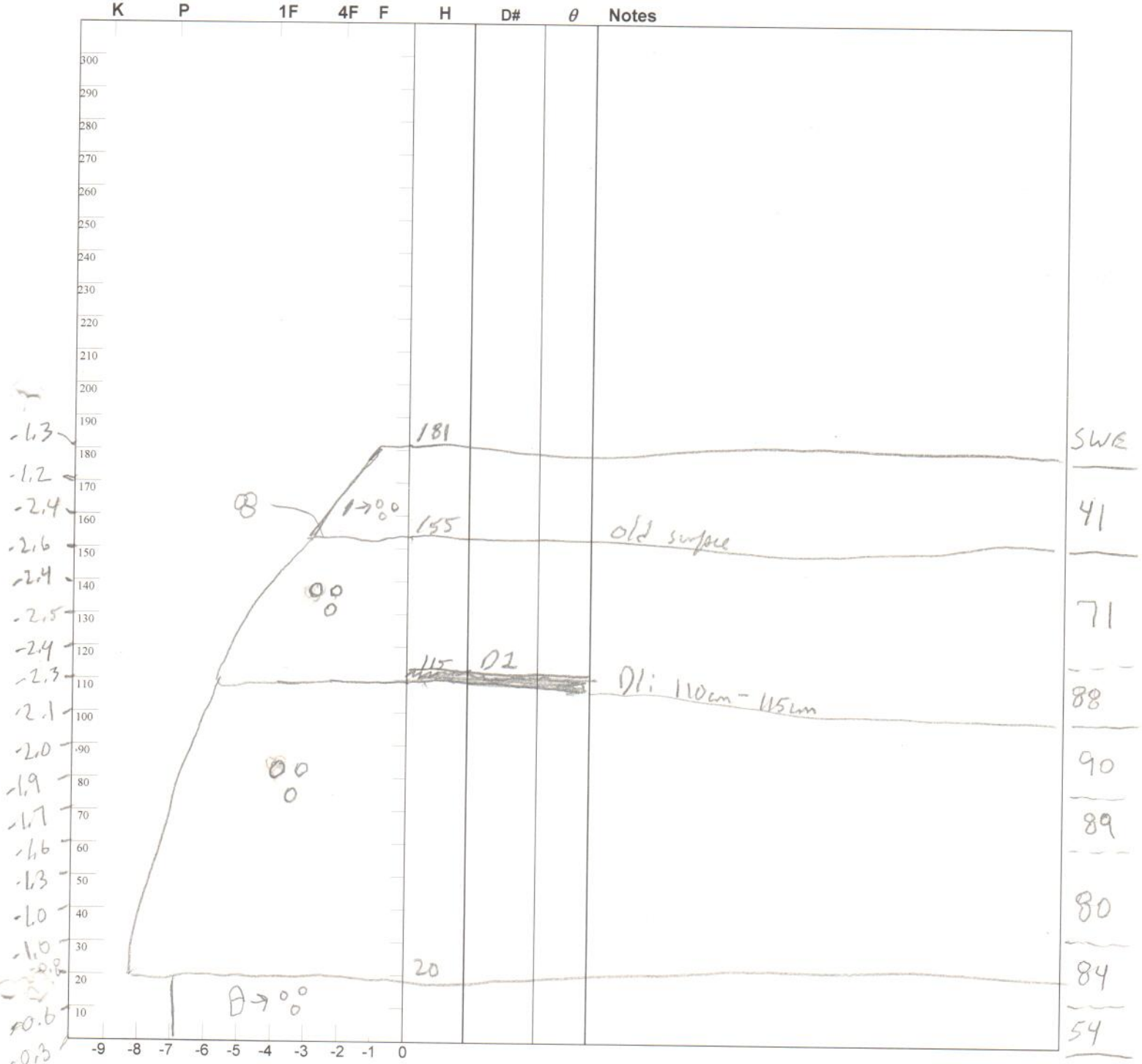
CODOS Snowpack Profile

Date: 3/15/2020

Location: SASP Elev. _____ Aspect: ____ Boot Pen: 22 cm ∠: ___° Time: 2:00 MDT

Prior Obs: ___/___/___ Air T: ____°C Sky: ⊗ Precip: Nil Wind: calm Notes: _____

SH = 1.77m



Observers: AT + EO

Center for Snow and Avalanche Studies

Profile # _____

Time: 1200

Snowpack Profile

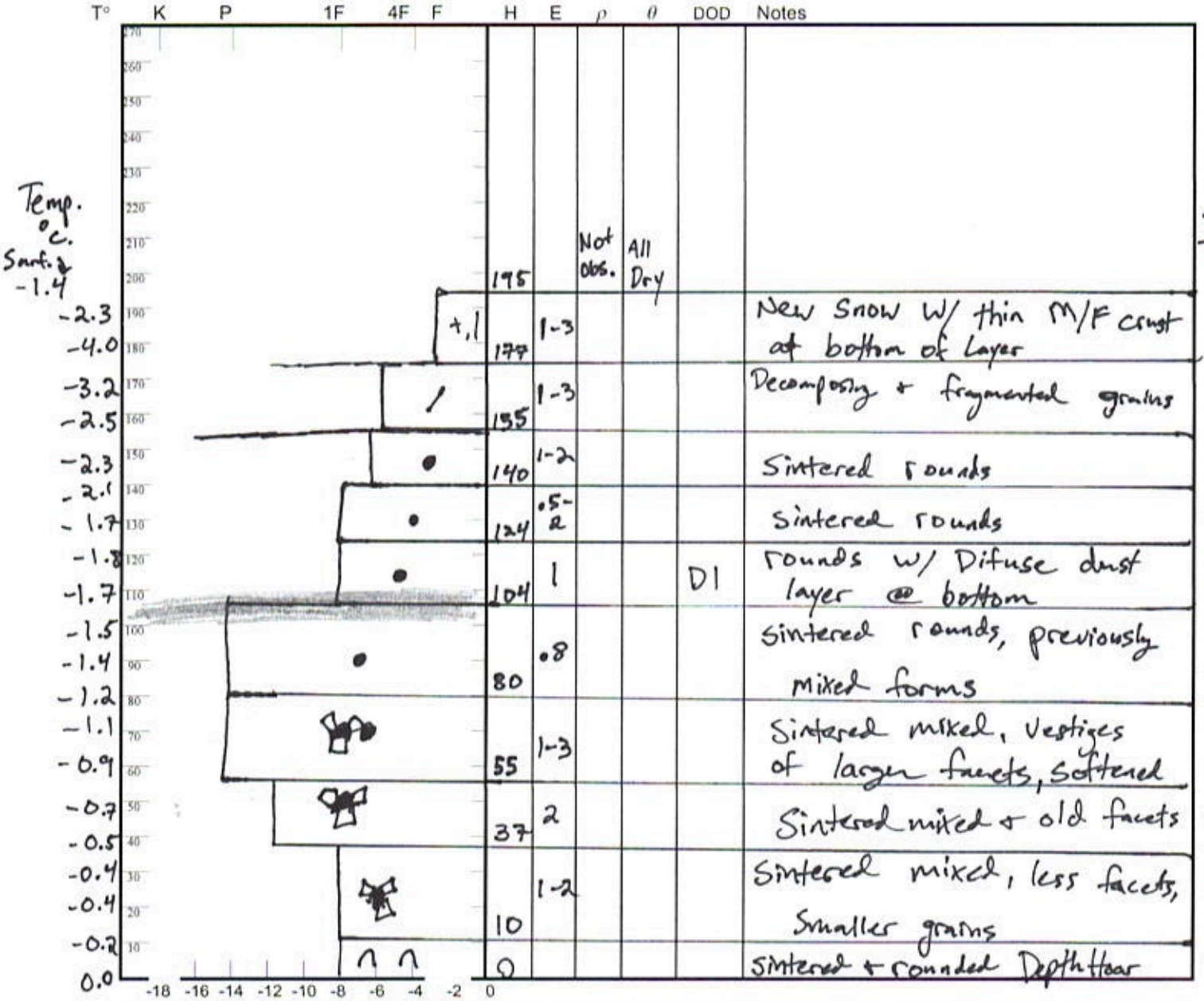
Date: 3/23/20

Location: SASP

Elev. 11,050' Aspect: NE Boot Pen: 45 cm ∠: 3 °

Air T: -2 °C Sky: ⊕ Precip: S-1 Wind: Lt. Prior Pit: # ____; ___/___/___

Total Snowpack SWE: 595 mm H_2O HS Norm: 1.96 m Mean ρ: 303.6 kg/m³ Notes: _____



Notes:

V. 12/4/15

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # _____

Time: 0942

Snowpack Profile

Date: 01 / 04 / 2020

Location: SASP

Elev. 11,060'

Aspect: NE

Boot Pen: 24 cm

∠: 2°

Air T: ~5°C

Sky: SCT - BKN

Precip: no

Wind: L-SW

Prior Pit: # _____; ___/___/___

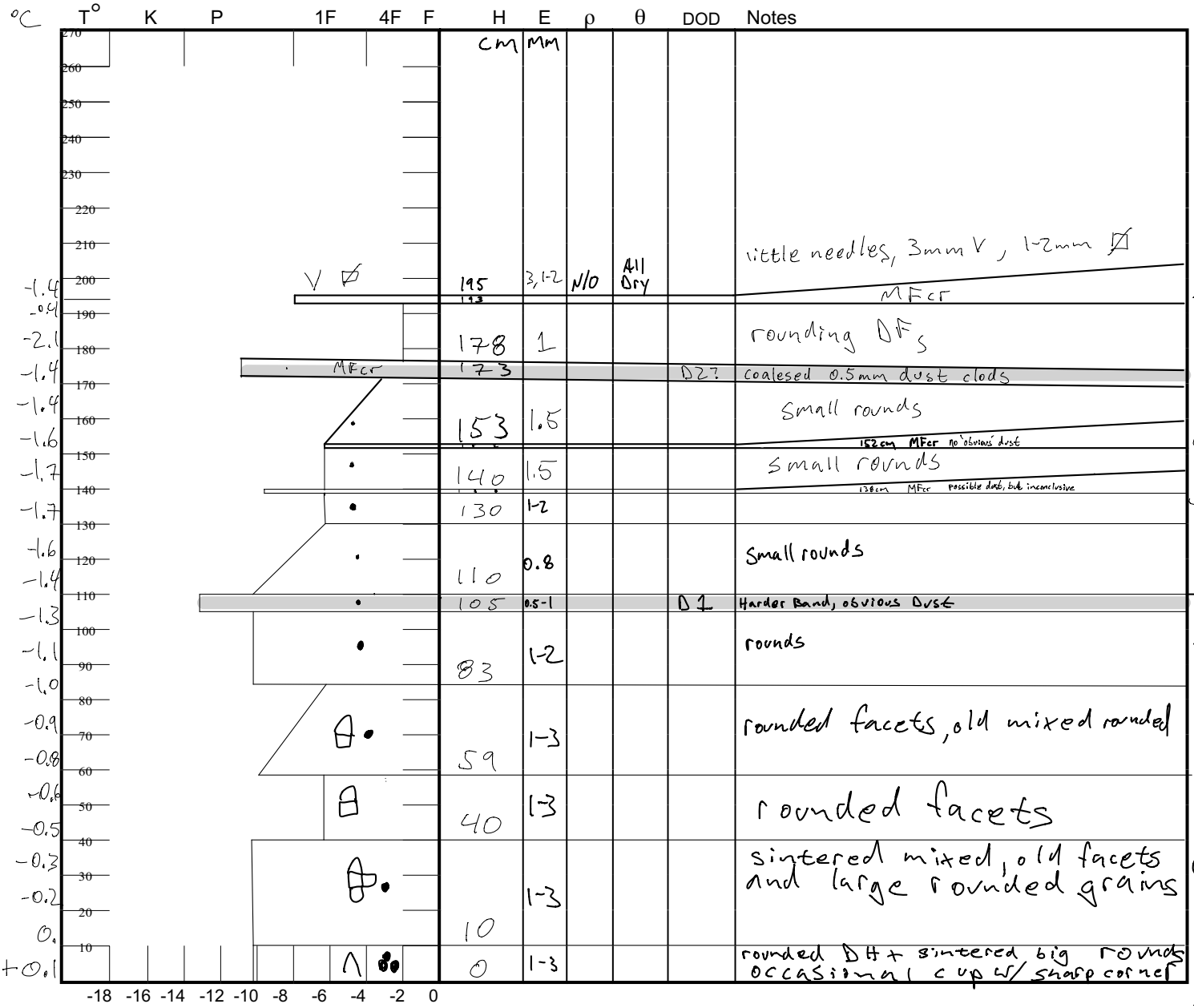
Total Snowpack SWE: 680 mm H_2O

HS Norm: 1.92 m

Mean ρ: N/O kg/m³

Notes: _____

Stakes: N-198cm E-193cm S-196cm W-201cm



Notes: We still have a winter snowpack with primarily dry snow, but it will soon become moist and is almost moist near ground. Dust at 105 cm + 173cm is obvious. There is a possibility for dust in MFcr at 138cm + 152cm but it is not currently observable. E-S slopes below treeline are rumled suggesting dust may be present in near surface snow, though it has not been directly observed.

V. 12/4/15

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # _____

Time: 0953

Snowpack Profile

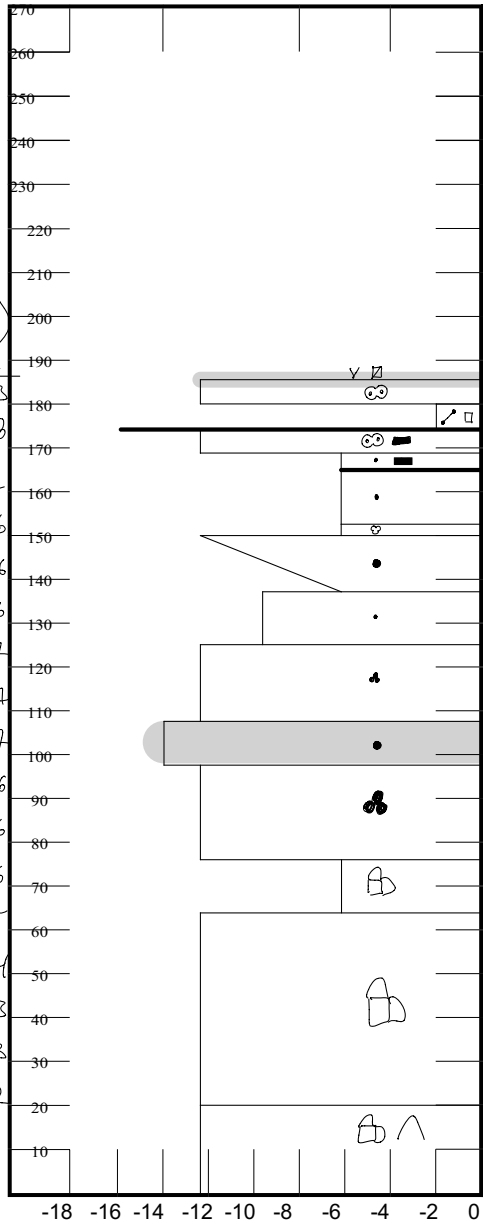
Date: 2020 / 04 / 06

Location: SASP

Elev. 11,060' Aspect: NE Boot Pen: none cm ∠: 2 °

Air T: ~3 °C Sky: FEW Precip: no Wind: L-N Prior Pit: # _____; 20200401

Total Snowpack SWE: 681 mm H_2O HS Norm: 1.85 m Mean ρ: N/O kg/m³ Notes: Supportable crust caused Boot Pen to go from 0 - 20cm. Stakes: N-188cm E-183cm S-187cm W-144cm



Temp (°C)	(cm)	(mm)	ρ	θ	DOD	Notes	SWE (mm)
-1.2	186		N/O		D3?	Diffuse dust, possibly from 20200402 precip event, firn spiegel and rusty surface color at SASP. Report of dust from TSP on 20200403.	
-2.3	180					laminate of melt freeze layers	
-2.8	173	1				Rounding DF and facets Ice Lens at 173cm	36
	169						
-1.2	165	0.5-1				small rounds, 1cm ice lens at 165cm from percolation	32
-0.6	152	1				little rounds	
	150					polycrystals, very moist	35
-0.6	138	1-2				rounds	
-0.6	125	0.5-1				rounds	50
-0.7	108	1				sintered rounds	40
-0.7	98	1.5			D1	D1 Band Dusty Rounds	58
-0.6	76	1-2				sintered rounds	86
-0.6	64	1-3				sintered mixed	73
-0.5							59
-0.4		1-3				sintered mixed	
-0.3							67
-0.2	20						60
-0.1		1-3				sintered mixed with rounding depth hoar	
0.1							85
							681 mm

Notes: No clear evidence of D2. Snowpack will likely become isothermal this week. The midpack temperatures have increased about 1°C since the last pit 6 days ago. SWE is very similar to last week, despite a small precip event, which produced 8mm, begining 20200402 1000 MST. Telluride ski patrol (off duty) reported 'mocha' colored snow on 20200403 at TMR.

V. 12/4/15

Observers: JT AT

CODOS Snowpack Profile

Date: 2020/04/13

Location: SASP Elev. 11,060 Aspect: NE Boot Pen: 9 cm ∠: 2° Time: 1315 MDT

Prior Obs: 2020/04/06 Air T: -5 °C Sky: ⊕ Precip: no Wind: M-S Notes:

A nice refresh of snow on Easter. Dust is visible under new snow, but unclear if it is event 3 or 4. D2 is possibly at 141cm, but does not stand out. D1 is obvious at 104cm. Snowpack is isothermal.

H	D#	θ	Notes	SWE mm
177			very small sastrugi small SH + NSF	
168	D3/4?		Dust leeching into polycrystals below	14mm
158			Ice at 165 cm	
150			small polycrystals, Ice at 158cm	68 mm
141	D2		Possible dust at 141cm, Ice at 149cm	
135				78 mm
110			sintered rounds	83 mm
104	D1		D1 is obvious, very wet	
83			sintered rounds going to polycrystals	108mm
60			sintered rounds	109mm
36			sintered rounds going to polycrystals	84 mm
15			Sintered rounds	94mm
0			rounds at ground	44mm

Temp °C: -3.3°C, 0.0°C, -0.5°C, -0.1°C, 0°C, 0°C

K P 1F 4F F

687mm

Observers: AT, JT

Center for Snow and Avalanche Studies

Profile # —

Time: 0947

Snowpack Profile

Date: 2020 / 04 / 20

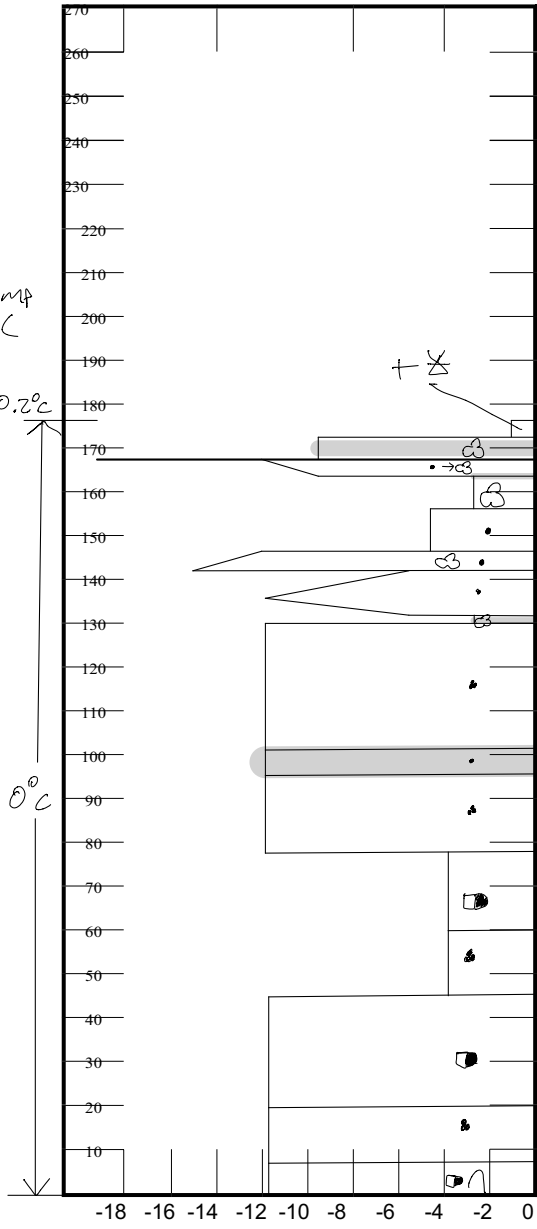
Location: SASP

Elev. 11,060' Aspect: NE Boot Pen: 7 cm ∠: 3 °

Air T: N/0 °C Sky: BKN Precip: S - 1 Wind: L-NW Prior Pit: # — ; 2020/04/13

Total Snowpack SWE: 675 mm H_2O HS Norm: 1.75 m Mean ρ: N/0 kg/m³ Notes:

Mostly cloudy morning with some blue patches, clouds moving quickly with west wind aloft



H (cm)	E (mm)	ρ	θ	DOD	Notes	SWE (mm)
	mm					
176		N/0				
173	1-2mm				precipitation particles, graupel, rime; layer becomes moist	
167				D4 or 5?	Dust present	
164					Cleaner snow than above layer, Ice lens on top	30
156	1-4mm			D3 or 4?	Top of layer has dust, larger polycrystals.	44
147	2mm				moist rounds	
142					wetting front	46
132	0.5-1mm				Small rounds	
130				D2	Possible Dust, but hard to see, polycrystals	45
						58
102	1mm				moist sintered rounds	48
97				D1	Diffuse D1, small sintered rounds	
78	1.5mm				sintered rounds	58 / 37
60	1-3mm				sintered mixed forms	65
45	1-3mm				sintered rounds	64
20					sintered mixed w/ old facets	76 / 67
7	1-2mm				sintered rounds	
0	1-3mm				sintered mixed w/ rounding depth hoar	37

Total: 675mm

Notes: D1 is obvious at 97-102cm. D2 is possible at 130, but not confirmed; it does relate to suspected dust on April 1 at about 140cm and observed dust from April 13. A thin layer of of dust, likely D3, is visible at 164. Dust is also visible under the new snow at 167-173cm and is likely D4. Snow is isothermal. 404mm of SWE is below all visible dust.

V. 12/4/15

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # —

Time: 0937

Snowpack Profile

Date: 2020/04/27

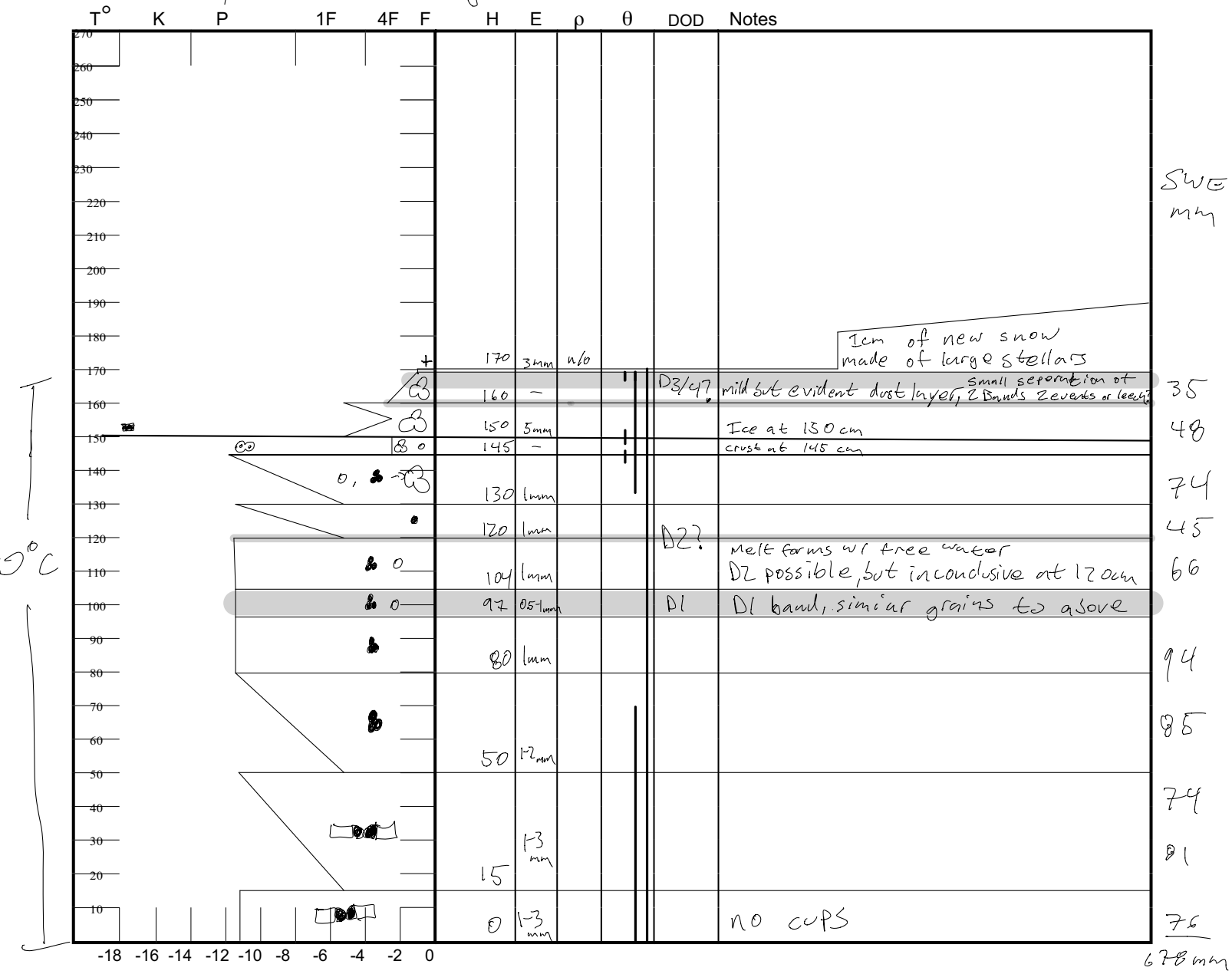
Location: SASP

Elev. 11,060' Aspect: NE Boot Pen: 10 cm ∠: n/a °

Air T: 9 °C Sky: clr→few Precip: no Wind: L-SW Prior Pit: # — ; 2020/04/26

Total Snowpack SWE: 678 mm H_2O HS Norm: 1.066 m Mean ρ: n/a kg/m³ Notes: Stakes: N:167, E:169S: 182 W:170

Warm day with increasing clouds, Air T from station data



Notes: Dust is prevelent at the surface and just below a trace of new snow. This may be a new event or a merging of previous events. D2 may exist around 120cm but inconclusive. D1 is obvious around 100cm. Snowpack is isothermal. Snow is mostly moist, with wet snow near surface and near ground with some very wet areas at interfaces in upper snowpack.

V. 12/4/15

Observers: JT AT

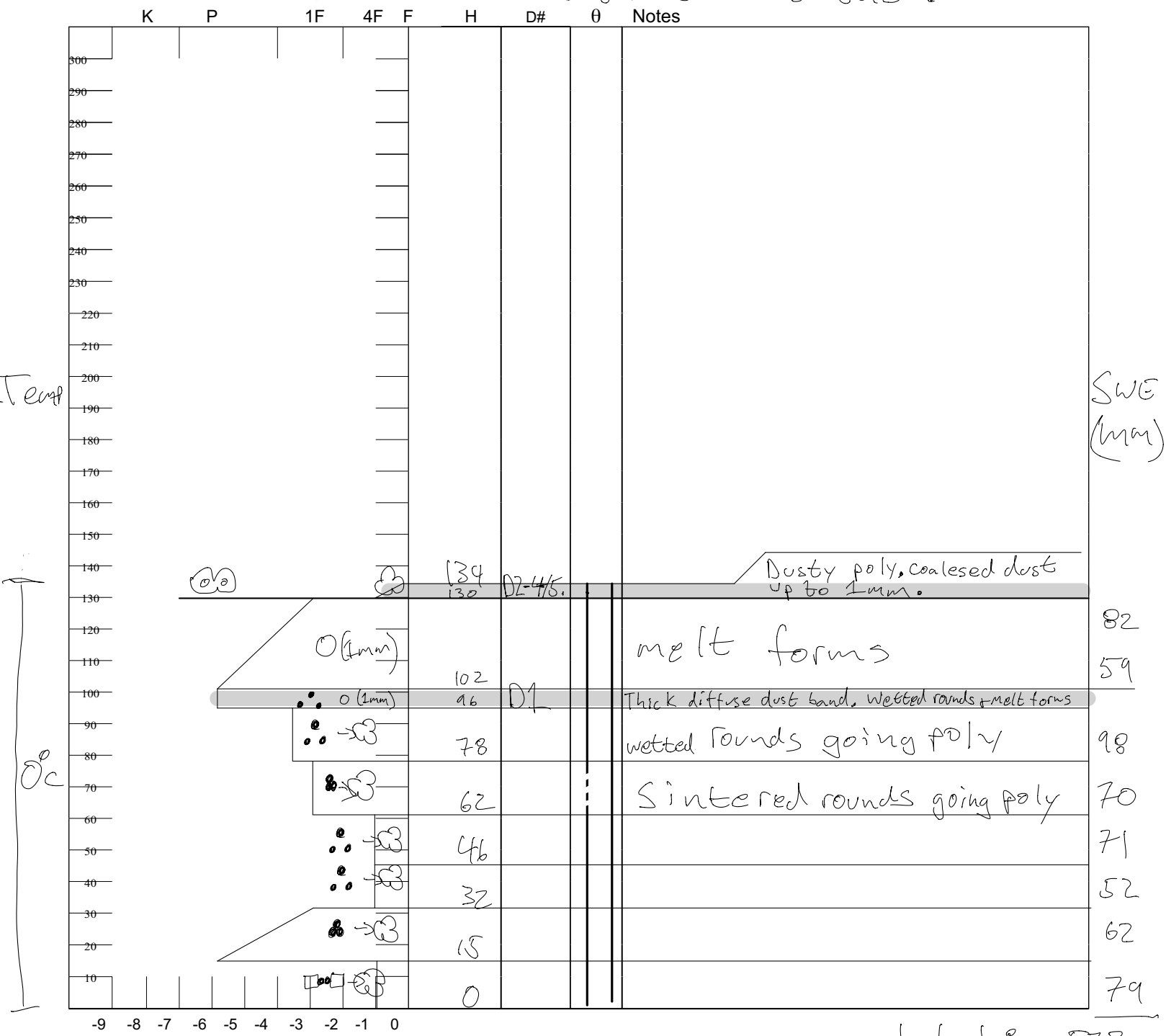
CODOS Snowpack Profile

Date: 2020 / 05 / 04

Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 1 cm ∠: 3° Time: 0944 MDT

Prior Obs: 2020 / 04 / 27 Air T: — °C Sky: Few Precip: no Wind: L-S Notes: Slope normal: 1.33m

The snow surface is dusty with 1mm particles. D1 is still below the surface. The dust is widespread and the snow change is dramatic week to week. The stream is as full as it has been this season. The snow will support the weight of a skier thanks to crust just below surface.



total: 573mm

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # _____

Time: 0955

Snowpack Profile

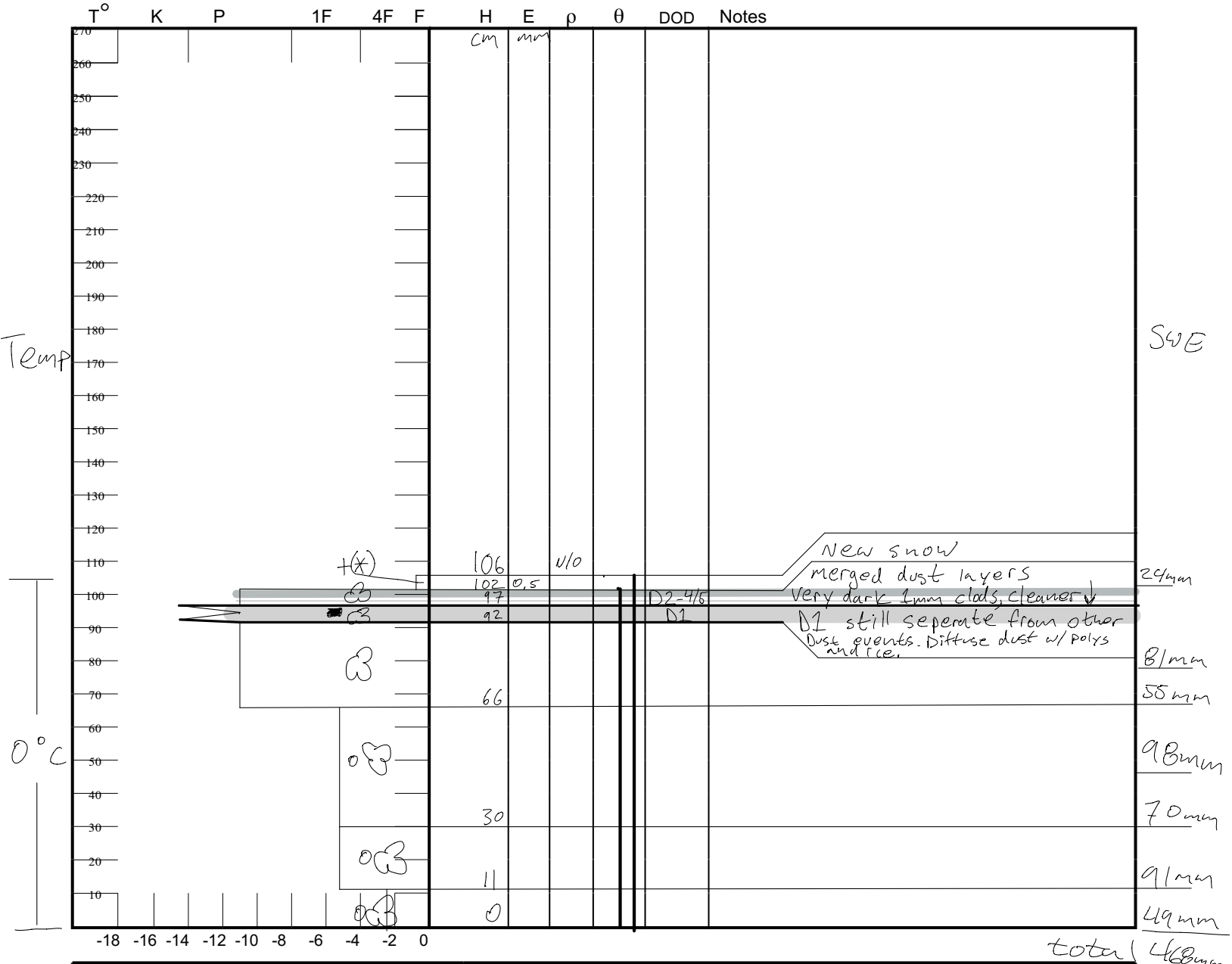
Date: 2020/05/11

Location: SASP

Elev. 11,060' Aspect: NE Boot Pen: 3 cm ∠: 3 °

Air T: 3 °C Sky: OVC Precip: S1 Wind: L-SE Prior Pit: # – ; 2020/05/04

Total Snowpack SWE: 468 mm H_2O HS Norm: 107 m Mean ρ: n/0 kg/m³ Notes: First snowfall in weeks. Initially S-1 with calm wind went to S1 with SE wind



Notes: Dust events from D2 and later are becoming more concentrated in the surface/near-surface snow. The merged layers appear cleaner with increased depth, and there is a small 'clean' band. D1 is several centimeters deeper, within a ice laminate and is more diffuse than the above merged layers. Based on rate of melt, we expect all layers to merge within the next 3 days. Winter is back with 4cm of moist snow at SASP.

V. 12/4/15

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # _____

Time: 1140

Snowpack Profile

Date: 2020 / 05 / 19

Location: SASP

Elev. 11,060'

Aspect: NE

Boot Pen: 2 cm

∠: 3 °

Air T: 11 °C

Sky: Few

Precip: very light

Wind: m-south

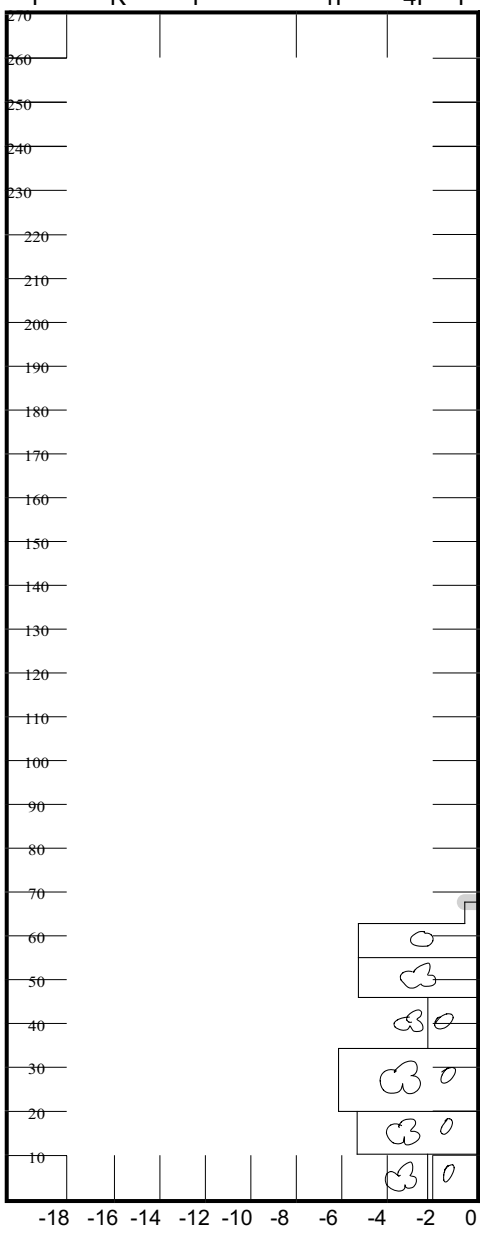
Prior Pit: # – ; 2020 / 05 / 11

Total Snowpack SWE: 302 mm H_2O

HS Norm: 0.67 m

Mean ρ: n/a kg/m³

Notes: A few rain drops fell under mostly clear sky.



H	E	ρ	θ	DOD	Notes	SWE mm
68	N/A	n/a			small coalesced dust dods staying	
55				ALM	at snow surface	81
48					wet snow at interfaces.	60
33						74
20						
10						
0						87

total: 302 mm

Notes: All layers merged at surface. Snowpack is melting quicker than polycrystals can grow. Nothing in the snow structure to hold back water leading to free drainage. Creek is just about entirley melted out through Swamp Angel clearing, portions of Swamp angel are melted to bare ground, we expected to still see snow at SASP next week. Spent some time digging out creek upstream of SASG for gauging tomorrow.

V. 12/4/15

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # —

Time: 1145

Snowpack Profile

Date: 2020 / 05 / 26

Location: SASP

Elev. 11,060

Aspect: NE

Boot Pen: 2 cm

∠: n/a °

Air T: 9 °C

Sky: clr

Precip: no

Wind: L-E

Prior Pit: # — ; 2020/05/19

Total Snowpack SWE: 126 mm H_2O

HS Norm: 0.32 m

Mean ρ: n/a kg/m³

Notes: Less wind than above treeline. North: 25cm East: 30cm South: 25cm West 15cm

T°	K	P	1F	4F	F	H	E	ρ	θ	DOD	Notes
						30	NA	n/a			Suncups over 15cm SWE
											Dusty surface
						22				ALM	
						10					
						0					

Temp

0°C

-18 -16 -14 -12 -10 -8 -6 -4 -2 0

Notes: All layers merged. Large suncups. Some suncups between SASP and SBSP were around 50cm deep. Still snowy at SASP but much of meadow is melted out.

V. 12/4/15

Observers: JT, AT

Center for Snow and Avalanche Studies

Profile # _____

Snowpack Profile

Time: 1123

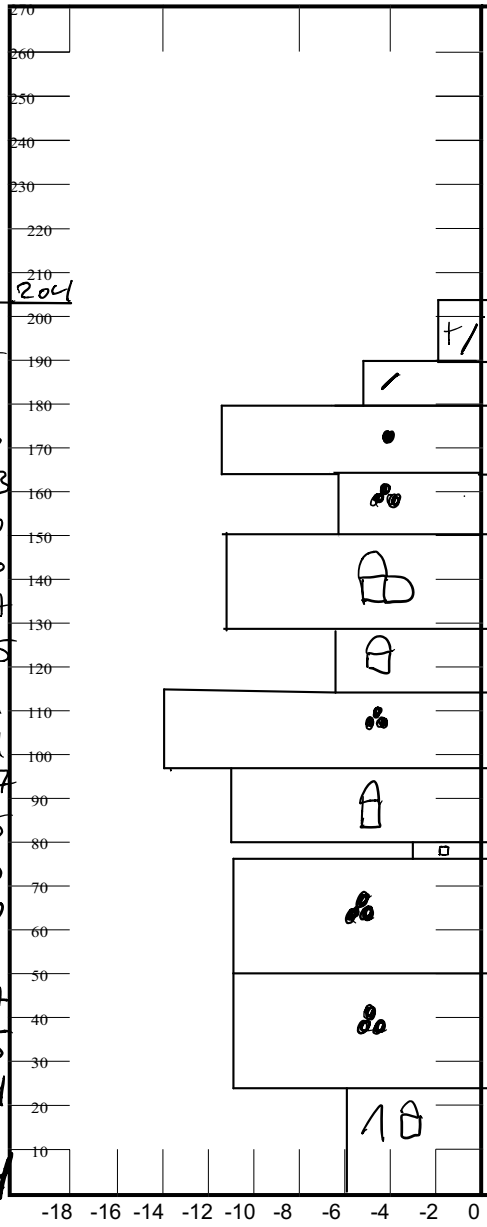
Date: 31/03/2020

Location: SBSP

Elev. 12,186' Aspect: NE Boot Pen: 17 cm ∠: 4°

Air T: 1.°C Sky: CLR Precip: no Wind: L-NE Prior Pit: # – ; 24/03/2020

Total Snowpack SWE: 719 mm H_2O HS Norm: 1.98 m Mean ρ: — kg/m³ Notes: _____



Temp °C	(cm)	(mm)	ρ	θ	DOD	Notes	SWE (mm)
-2.9	204		N/o	All Dry	None	Sastrugi	
-1.2 / -5.7	190	0.3 0.5				new snow and DFs	15
-5.9	180	1.				sintering DFs	24
-5.6	165	0.8				small rounds, wind slab	55
-5.3 / -5.0	150	1.				sintered rounds	40
-4.6 / -3.7	130	1.-2.				sintered rounds w/ occasional facet	64
-3.5	113	2.-3.				larger rounded facets	50
-3.1 / -2.9	97	1.				small sintered rounds, wind slab very hard, Jan/Feb wind?	77
-2.7 / -2.5	80	2.-3.				rounding facets	68
-2.3	77	N/o				weak facets	
-2.0 / -1.9	50	2.				sintered rounds	118
-1.7 / -1.5	22	1.5				sintered rounds	163
-1.4 / -1.1 / -0.4	0	3				DH and rounding facets	45
							719 mm

Notes: No dust observed. 2020 snowpack came in good & deep with little exposure to atmosphere until January. A nice day with clear sky and generally light wind from W-E, occasional gust. A bank of amber colored clouds to the south built through the day.

V. 12/4/15

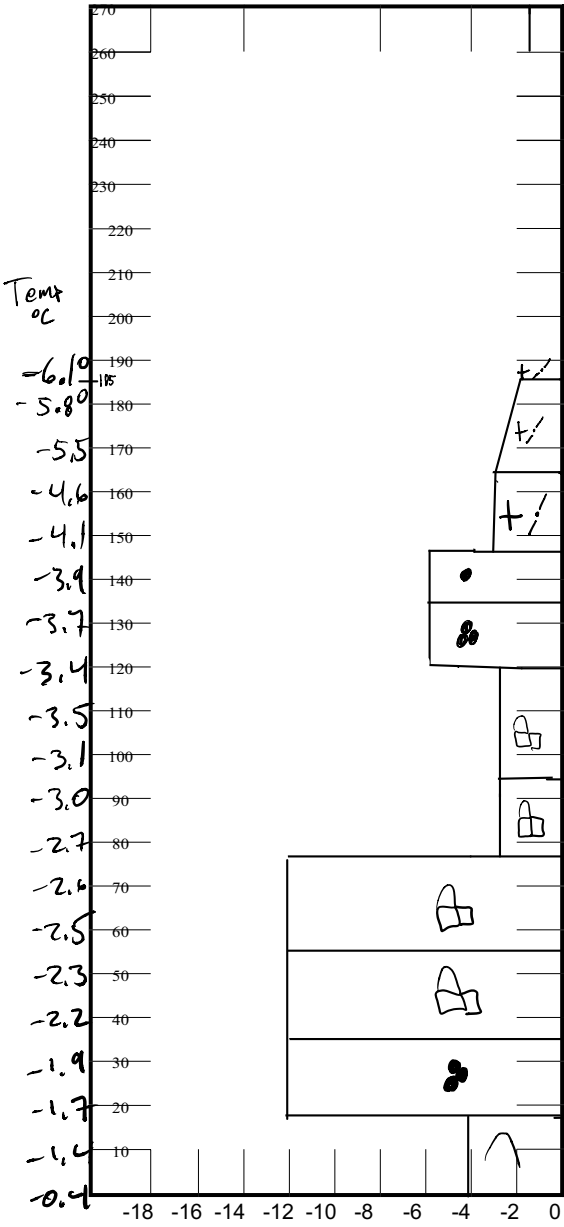
Observers: AT JT | Center for Snow and Avalanche Studies | Profile # _____

Time: 1120 | Snowpack Profile | Date: 24/03/20

Location: SBSP | Elev. 12,186' | Aspect: NE | Boot Pen: 26 cm | ∠: 3°

Air T: -4.4 °C | Sky: O | Precip: no | Wind: M - SW | Prior Pit: # ____; ___/___/___

Total Snowpack SWE: 590 mm H_2O | HS Norm: 1.85 m | Mean ρ: N/O kg/m³ | Notes: _____



H (cm)	E (mm)	ρ	θ	DOD	SWE mm	Notes
185	0.5	N/O	All Dry			wind worked w/etching
165	0.5				31	wind worked
147	0.5-1				46	rounding of DF
135	0.3				34	small rounds
120	0.8				58	sintered rounds 'perfect necking'
95	0.5-2				73	sintered, mixed form, occasional sharp corner
77	2				59	same as above but bigger
55	1-3				72	large, sintered, mixed
35	1-3				93	sintered, mixed
18	1-3				76	sintered rounds, large, no facets
0	1-4				48	small rounded DH
					590	

Notes: Inconclusive evidence of D1, possibly due to extensive wind transport, it may exist in upside of 120 layer. Snow is stiff downlow! Lots of rounding, especially 120cm and below.

V. 12/4/15

Observers: JT, AT

Center for Snow and Avalanche Studies

Profile # —

Time: 1024

Snowpack Profile

Date: 2020/04/07

Location: SBSP

Elev. 12,186'

Aspect: NE

Boot Pen: 6 cm

∠: N/O °

Air T: ~1 °C

Sky: CLR

Precip: no

Wind: L-SW

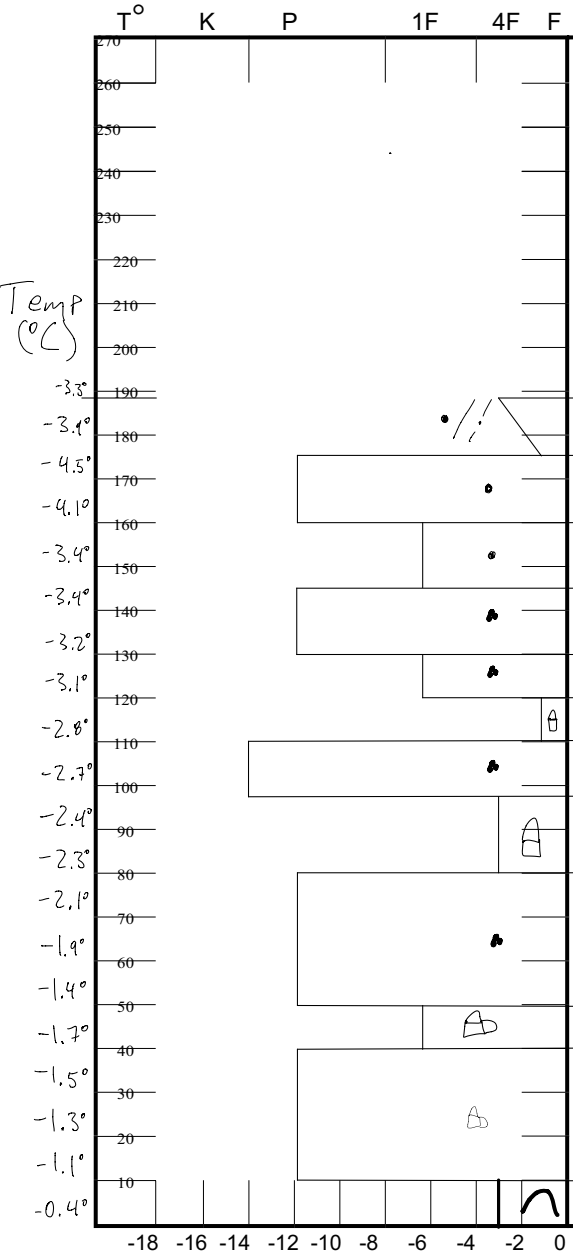
Prior Pit: # — ; 2020/03/31

Total Snowpack SWE: 677 mm H_2O

HS Norm: 1.86 m

Mean ρ: N/O kg/m³

Notes: Cloudless sky. Yellow hue on SE horizon.



H (cm)	E (mm)	ρ	θ	DOD	Notes	SWE (mm)
189		N/O	All Dry		Widespread small sastrugi	
176	0.7				rounds, DFs, windworked snow	42
160	0.4				small rounds	53
145	0.5				small rounds	52
130	0.5				sintered rounds	52
120	1				sintered rounds	
110	1-2				mixed rounding facets possibly february surface	63
97	1-2				sintered rounds possibly from wind event	75
80	1-3				rounded facets	47
50	1-2				sintered rounds	86
40	1-3				sintered mixed	113
10	1-2				sintered mixed	115
0	3				Rounding DH w/ cups to 3mm and smaller	31

677mm

Notes: No clear sign of D1 or D2. D3 is prevelent on surface from SASP to SBSP as dirty snow and dramatized melt patterns (firnspiegel + runnels) as well as in wet loose avalanches. It is not prevelent at SBSP but visible in many other areas of SBB. CAIC Forecasters + CDOT Staged at SASP for explosive mission to Blue Point Cornice. CAIC welcomed us and explained our work to CDOT.

V. 12/4/15

Observers: JT AT

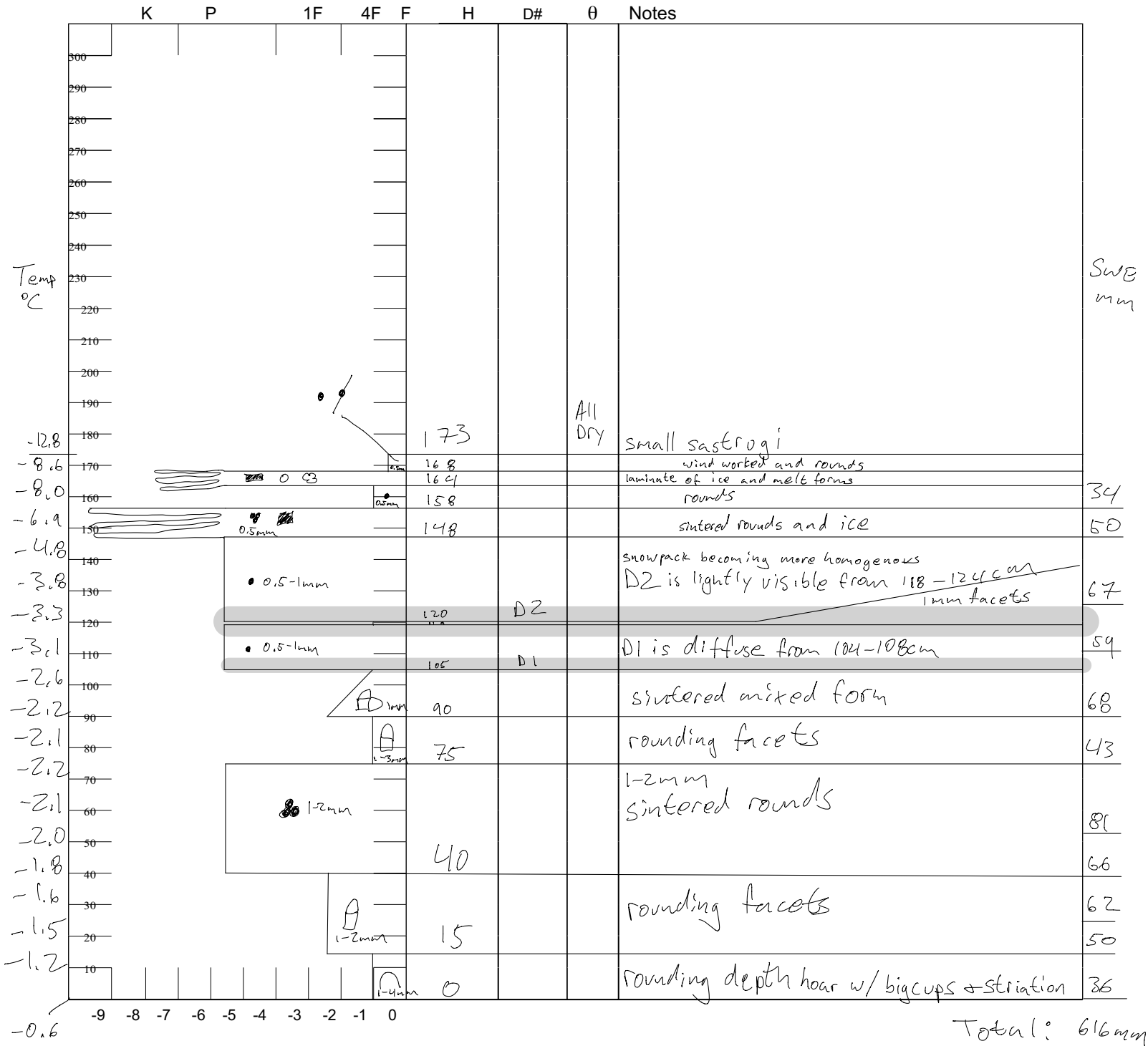
CODOS Snowpack Profile

Date: 2020/04/13

Location: SBSP Elev. 12,186' Aspect: NE Boot Pen: 2 cm ∠: 5° Time: 1130 MDT

Prior Obs: 2020/04/07 Air T: -13.5°C Sky: few Precip: no Wind: M-SW Notes:

D1 is visible from 104-108cm. D2 is light, but visible from 118-124cm. The snowpack at SBSP is very cold and winter-like today, but it has had liquid water move through it. It was a very chilly day, especially with wind.



Total: 616mm

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # —

Time: 11 11

Snowpack Profile

Date: 2020/04/21

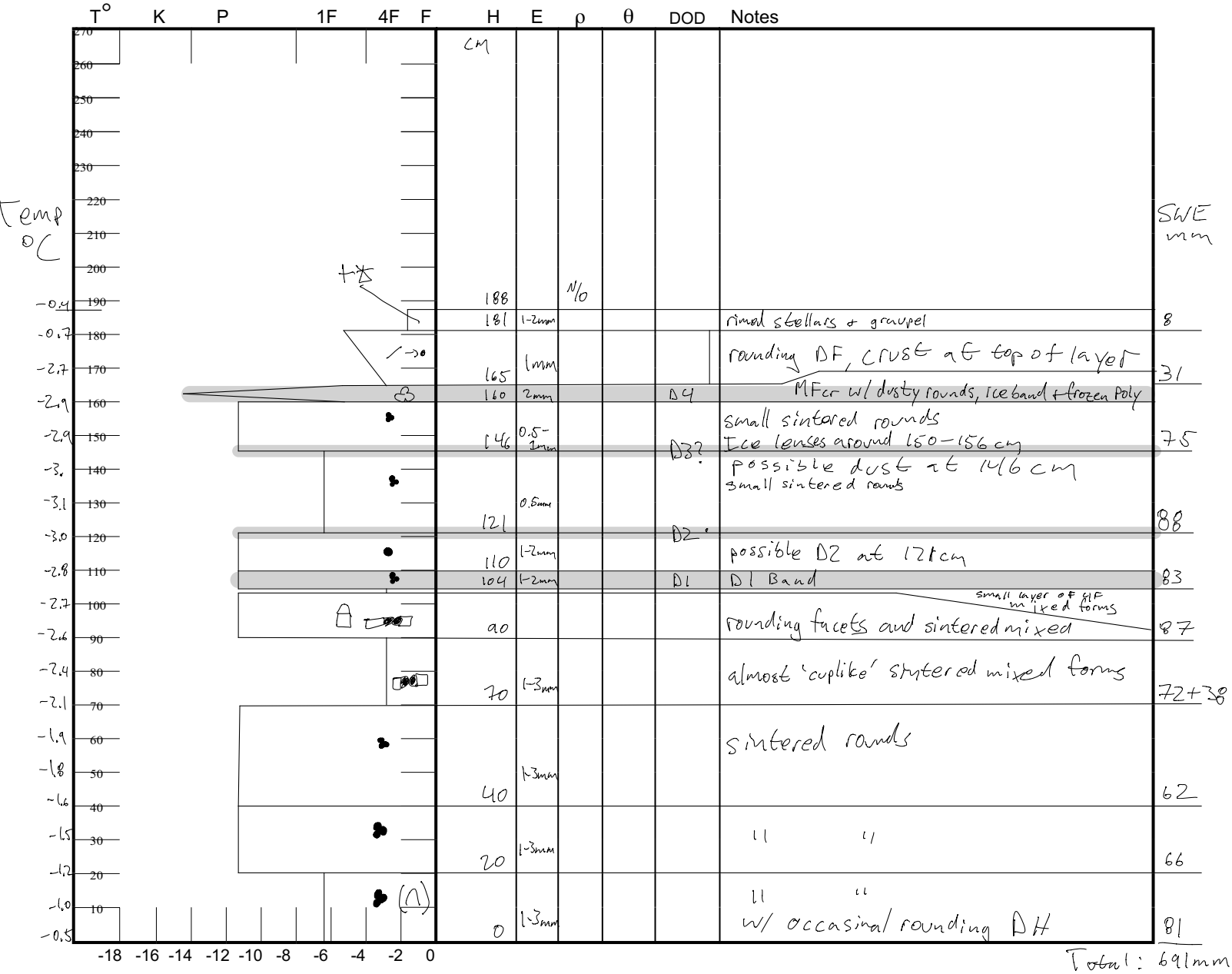
Location: SBSP

Elev. 12,186' Aspect: NE Boot Pen: 15 cm ∠: 3 °

Air T: 2 °C Sky: OVC Precip: S-1 to S1 Wind: L-SW Prior Pit: # —; 2020/04/14

Total Snowpack SWE: 691 mm H_2O HS Norm: 1.84 m Mean ρ: N/O kg/m³ Notes:

Intermitent very light to light snowfall and sky clearings,



Notes: This was the first time we have clearly seen dust in a profile at SBSP in WY2020. This may be because the pit was located in a spot with more deposition, or because water has moved through the snow possibly consolidating dust. In addition the lighting was that which may have provided more contrast from clean to dusty snow. There was moist snow near the surface, generally the snow was still "winter like".

V. 12/4/15

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # —

Time: 1037

Snowpack Profile

Date: 2020/04/28

Location: SBSP

Elev. 12,186'

Aspect: NE

Boot Pen: 3 cm

∠: 3°

Air T: 2 °C

Sky: OVC ~

Precip: ND

Wind: S-NW

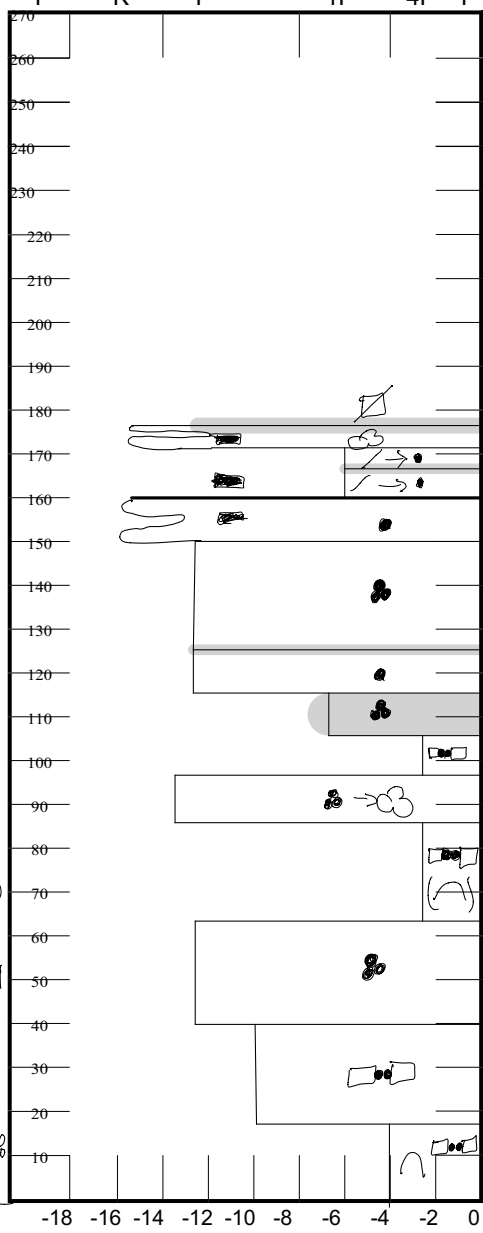
Prior Pit: # — ; 2020/04/21

Total Snowpack SWE: 691 mm H_2O

HS Norm: 1.73 m

Mean ρ: N/D kg/m³

Notes: Sustained strong winds, thin overcast cloudcover, slight haze in sky lots of insects on surface with birds eating



H (cm)	E (mm)	ρ	θ	DOD	Notes	SWE (mm)
176	1mm	N/D		D3/4/5?	Dusty surface	
171	—				polys w/ ice lenses	
167	0.5			?		
160	0.5				possible dust at 167 D3/4?	45
150	1				rounds w/ ice lenses	63
125	1				sintered rounds	55
115	1			D2	D2 at 125cm	78
106	1-2			D1	D1 106-115cm	
98	1-3				sintered mixed	64
87	1-2				wetting front w/ pooling at 87cm	
63	1-4				sintered mixed w/ odd cups	88 43
40	1-2				sintered rounds	80
18	1-4				sintered mixed	73 74
0					Rounding DH + sintered mixed	28
						691mm

Notes: Dust is widespred on snow surface in SBB. It is more concentreted in 'eddies' and lee slopes. There are many wet loose avalanches that show contrast of dusty surface and clean snow. There are also some 'corn slab' avalanches on easterly slopes. Surface dust may be a merging of D3/4 or new events from small April storms. D1 and D2 are obvious in snowpack. There is a possible dust layer at 167 but inconclusive.

V. 12/4/15

Observers: JT AT

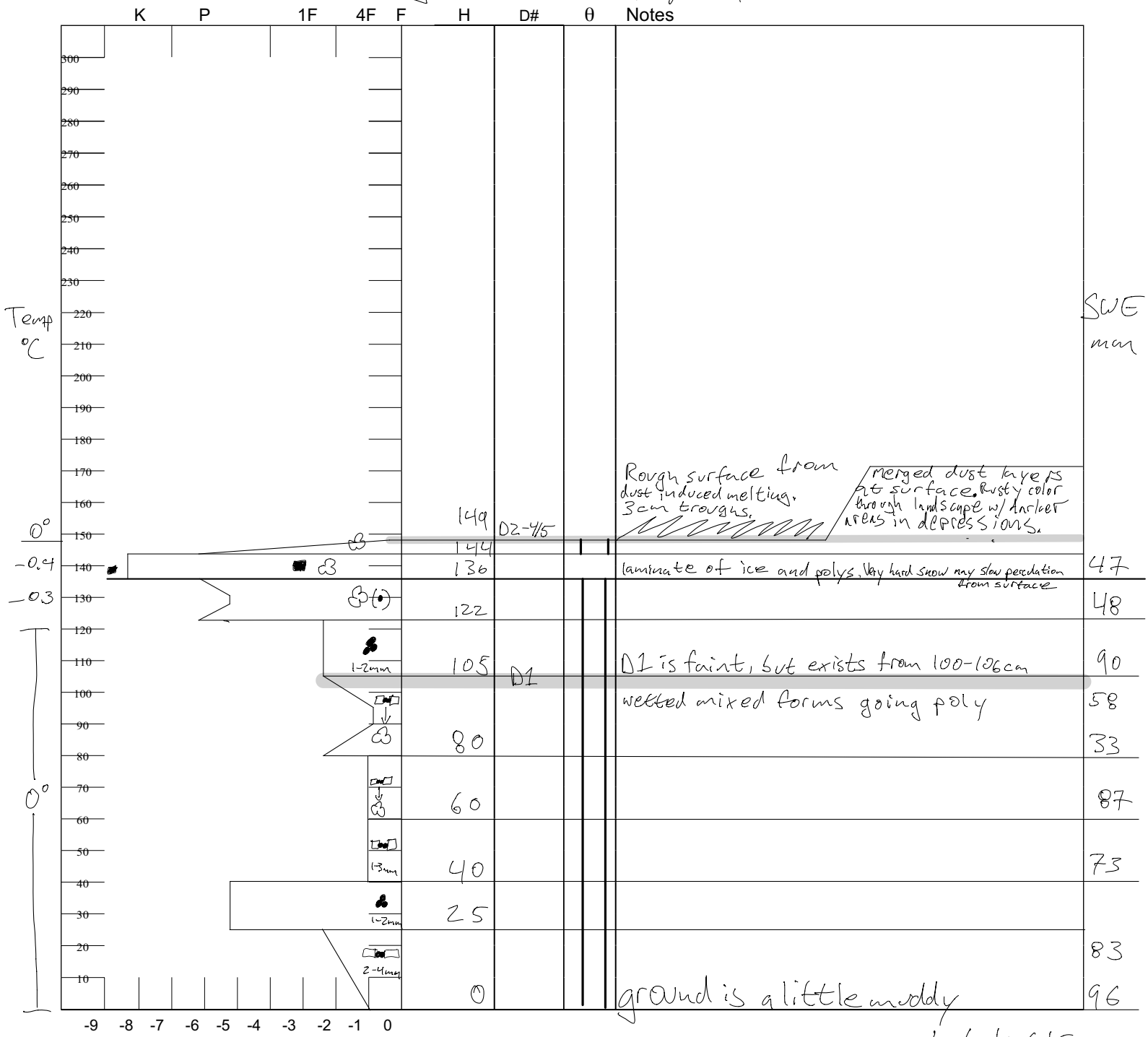
CODOS Snowpack Profile

Date: 2020 / 05 / 05

Location: SBSP Elev. 12,186 Aspect: NE Boot Pen: 1 cm ∠: 3° Time: 0944 MDT

Prior Obs: 2020/04/28 Air T: – °C Sky: clr Precip: no Wind: L-NW Notes: Slope normal: 1.5/m

What a difference from last week, SBSP has transitioned into a melting snowpack. Surface dust has become more dramatic with 'melt troughs' around 3cm deep. D1 is still buried and is faint. A very hard near surface layer may prevent surface melt from percolating into the midpack.



total: 615mm

above D1: 185mm

Observers: JT, AT

Center for Snow and Avalanche Studies

Profile # —

Time: 1025

Snowpack Profile

Date: 2020 / 05 / 12

Location: SBSP

Elev. 12,186 Aspect: NE Boot Pen: 5 cm ∠: 2 °

Air T: 4 °C Sky: Few Precip: no Wind: L-SW Prior Pit: # — ; 2020 / 05 / 05 (CDOS)

Total Snowpack SWE: 557 mm H_2O HS Norm: 1.36 m Mean ρ: N/O kg/m³ Notes: pleasent day. Marmots and coyotes out. Challenging descent below treeline.

Notes: 4cm of fresh snow left the surface looking clean, with the exception of elevated snow features, wind scoured areas, and wetter surface snow. Dust events after D3 are merged at 135cm. D2 is not obvious, it may exist by itself at 123cm or may be merging with above layers. D1 is not merged and present at 100-108cm. We do not expect all layers to merge in the next 2 weeks. The snowcover is dramatically different week by week with expanding bare areas, and shallow snow around vegitation.

V. 12/4/15

Observers: JT, AT

Center for Snow and Avalanche Studies

Profile # _____

Time: 11:00

Snowpack Profile

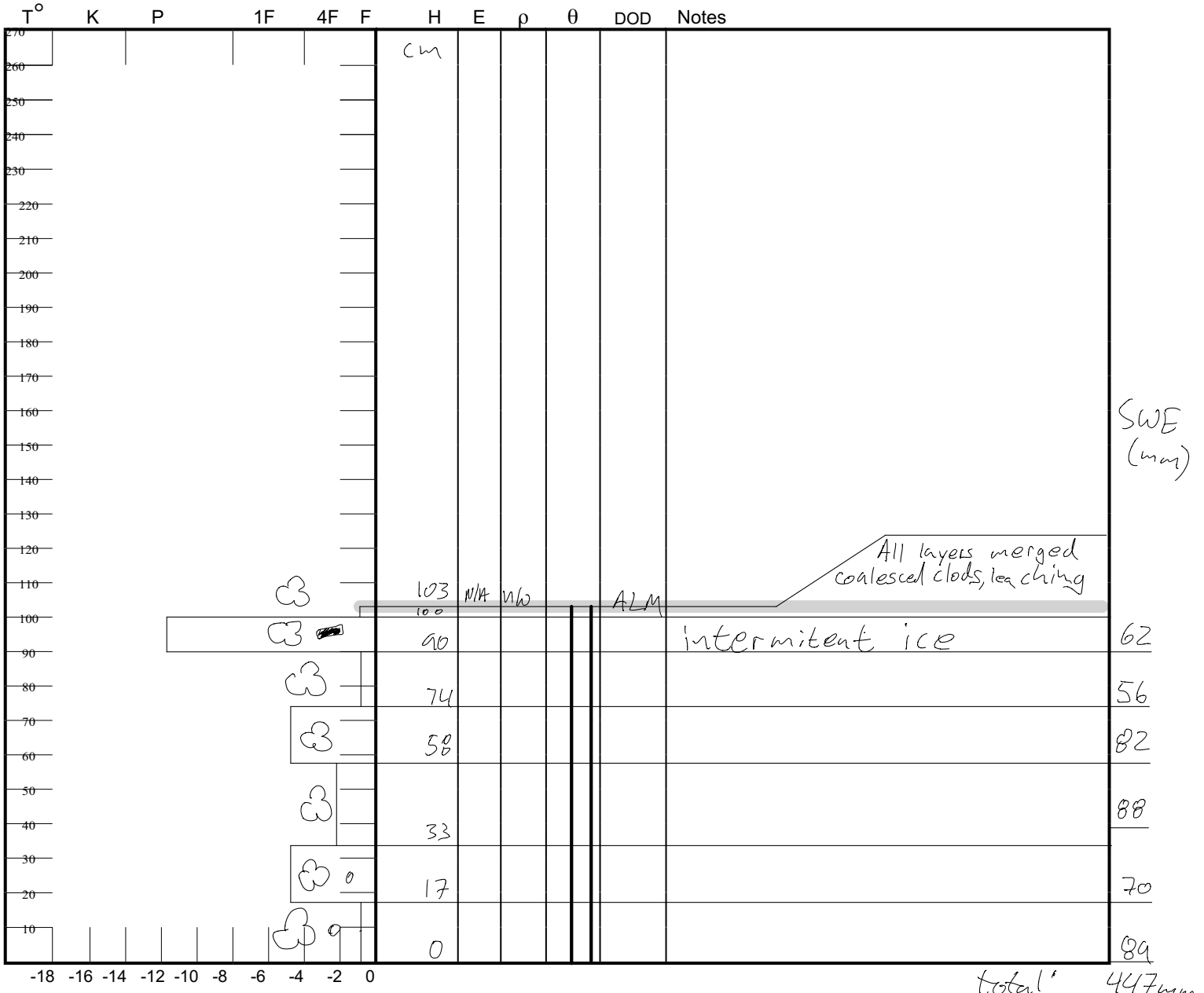
Date: 2020/05/19

Location: SBSP

Elev. 12,186 Aspect: NE Boot Pen: 2-40 cm ∠: 3 °

Air T: 7 °C Sky: SCT Precip: no Wind: S-South Prior Pit: # – ; 2020/05/12

Total Snowpack SWE: 447 mm H_2O HS Norm: 1.03 m Mean ρ: n/a kg/m³ Notes: Fast moving clouds, significant increase in windspeed at treeline. Coyote at SBSP.



Notes: All dust layers are merged at snow surface. The surface is sun cupped and dusty. Snow is melting quickly with large areas melted out and no continuous snow on southerly aspect of SBB from SASP to SBSP. Snow is continuous between study plots on northerly aspects. Drainage is well established allowing water to freely drain. Fortunately snow is supportive for foot travel in the morning.

V. 12/4/15

Observers: JT AT

Center for Snow and Avalanche Studies

Profile # —

Snowpack Profile

Time: 1040

Date: 2020 / 05 / 26

Location: SBSP

Elev. 12,186

Aspect: NE

Boot Pen: 2-Full cm

∠: n/o °

Air T: 5 °C

Sky: few

Precip: no

Wind: N-NW

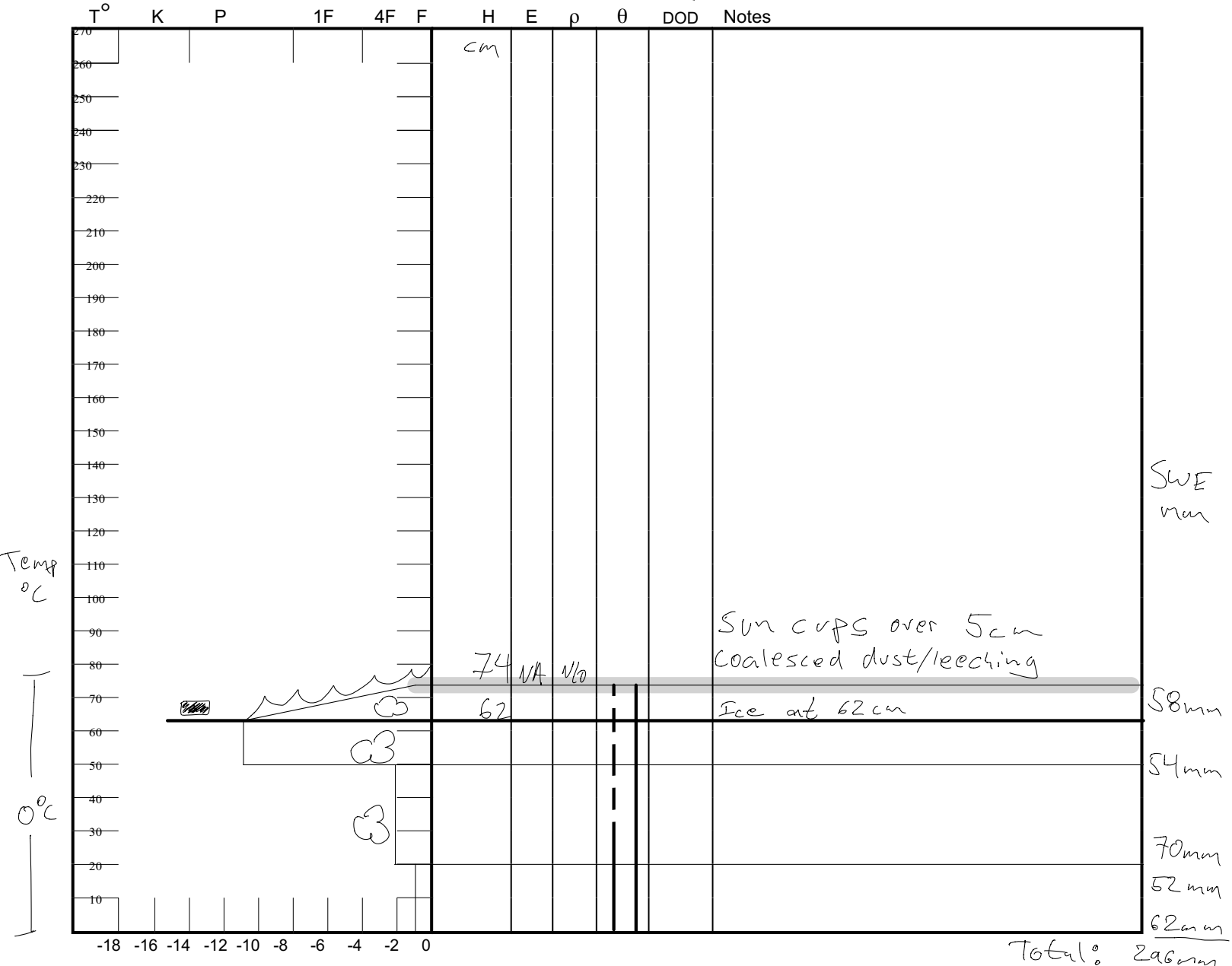
Prior Pit: # —; 2020/05/19

Total Snowpack SWE: 296 mm H_2O

HS Norm: 0.70 m

Mean ρ: n/o kg/m³

Notes: a few high clouds to the east, wind speed much higher above treeline



Notes: All layers merged and leeching. Heavily suncupped surface throughout SBB. Suncups are larger below treeline. Large areas melted out. Travel on bareground to approx 11,500' on southerly aspect. Descent route engages show travel to SASP with minimal bareground on north aspect. Elk have been moving through basin. Mushrooms and flowers are begining to appear on southerly aspects.

V. 12/4/15