

Observers: jed

### CODOS Snowpack Profile

Date: 11 128 12020

Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 25 cm  $\angle$ : 3° Time: 12:17 MDT

Prior Obs: 1 1 Air T:     °C Sky: 0 Precip: Nil Wind: calm Notes: Pit #1

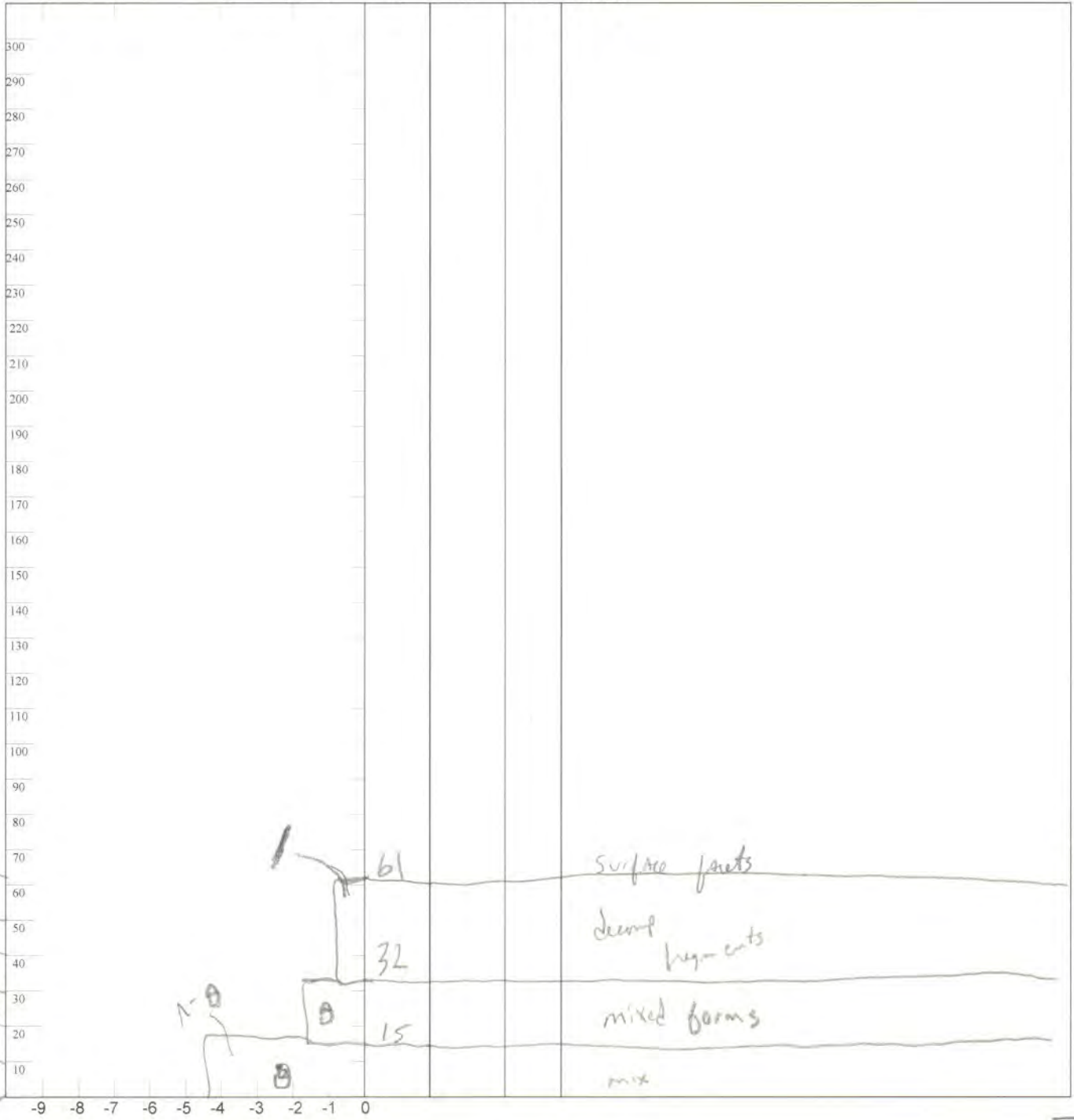
SWE = 141 mm, 5.6"

No dust observed

H<sub>34</sub> = 0.61 m

231 kg/m<sup>3</sup>

K P 1F 4F F H D#  $\theta$  Notes



SWE  
28  
19  
61  
33

141

Observers: AT

Center for Snow and Avalanche Studies

Profile # 2

Time: 1100

Snowpack Profile

Date: 1/2/21

Location: SASP

Elev. 11,060'

Aspect: NE

Boot Pen: 65 cm

∠: 3°

Air T: -7°C

Sky: ⊕

Precip: No

Wind: Lt

Prior Pit: # 1; 12/1/20

Total Snowpack SWE: 245 mm H<sub>2</sub>O

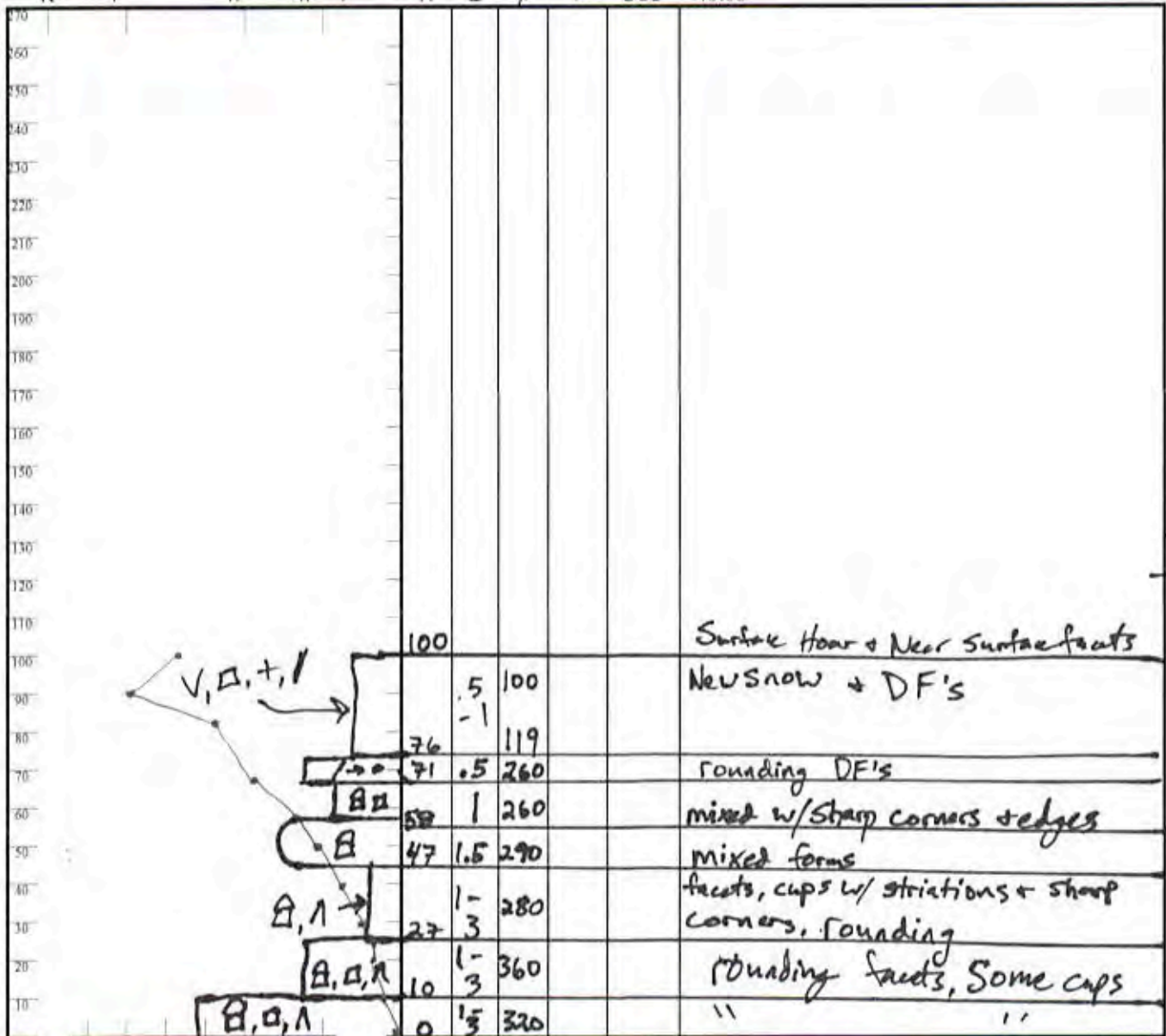
HS Norm: 0.98 m

Mean ρ: 250 kg/m<sup>3</sup>

Notes: No obvious

dust observed. After digging pit, entire meadow-wide collapse occurred

T° K P 1F 4F F H E ρ θ DOD Notes



Temp. °C.  
 Surf. ↓  
 -10.4  
 -13.4  
 -9.2  
 -7.2  
 -5.2  
 -4.0  
 -2.9  
 -1.8  
 -1.2  
 -0.7  
 0.0

7  
 SWE  
 32  
 10  
 34  
 28  
 51  
 51  
 39

Notes:

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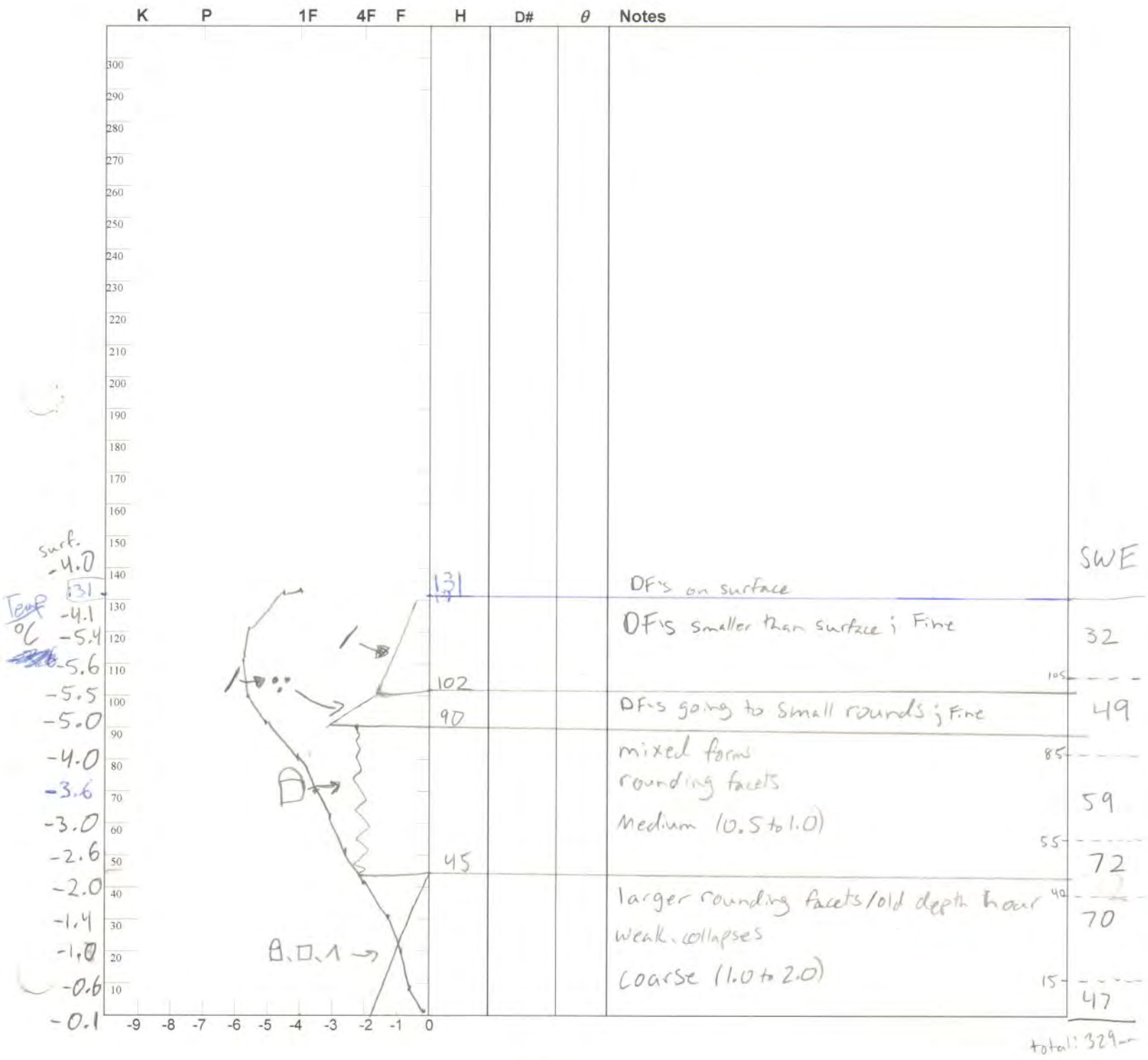


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Observers: ged/CB **CODOS Snowpack Profile** Date: 2/2/2021  
 Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 57 cm  $\angle$ : 3 ° Time: 11:48 MDT  
 Prior Obs: 1/2/2021 Air T: 3.7 °C Sky: ☉ Precip: NSL Wind: light Notes: \_\_\_\_\_  
HS  $\eta$  = 1.28 m SWE = 329 mm  
 $\bar{\rho} = 257 \text{ kg/m}^3$   
no dust observed



total: 329

Observers: AT

Center for Snow and Avalanche Studies

Profile # \_\_\_\_\_

Time: 0900

Snowpack Profile

Date: 3/3/21

Location: SASP

Elev. 11,070

Aspect: NE

Boot Pen: 25 cm

∠: 3 °

Air T: -1 °C

Sky: 0

Precip: NO

Wind: Lt.

Prior Pit: # \_\_\_\_\_; \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Total Snowpack SWE: 435 mm H<sub>2</sub>O

HS Norm: 1.5 m

Mean ρ: 290 kg/m<sup>3</sup>

Notes: No Dust

T°	K	P	1F	4F	F	H	E	ρ	θ	DOD	Notes
10.7	150					149	.5	1			NSF
-14	170					135	.5	1			DF's - rounding
-9.5	130					118	1	1			Small rounds
-7.6	120					83		1			Sm. rounds
-6.1	110					60	1-2				Sintered + rounded mixed
-5.1	100					37	1-2				Rounding mixed
-4.5	90					15					Chains of Depth Hoar
-3.9	88					0					rounding DA
-3.3	70										
-2.8	60										
-2.3	50										
-1.9	40										
-1.3	30										
-0.8	20										
-0.3	10										
0.0	0										

Temp  
°C

10.7  
-14  
-9.5  
-7.6  
-6.1  
-5.1  
-4.5  
-3.9  
-3.3  
-2.8  
-2.3  
-1.9  
-1.3  
-0.8  
-0.3  
0.0

7  
SWE

18  
45  
58  
57  
78  
62  
71  
46

Notes:

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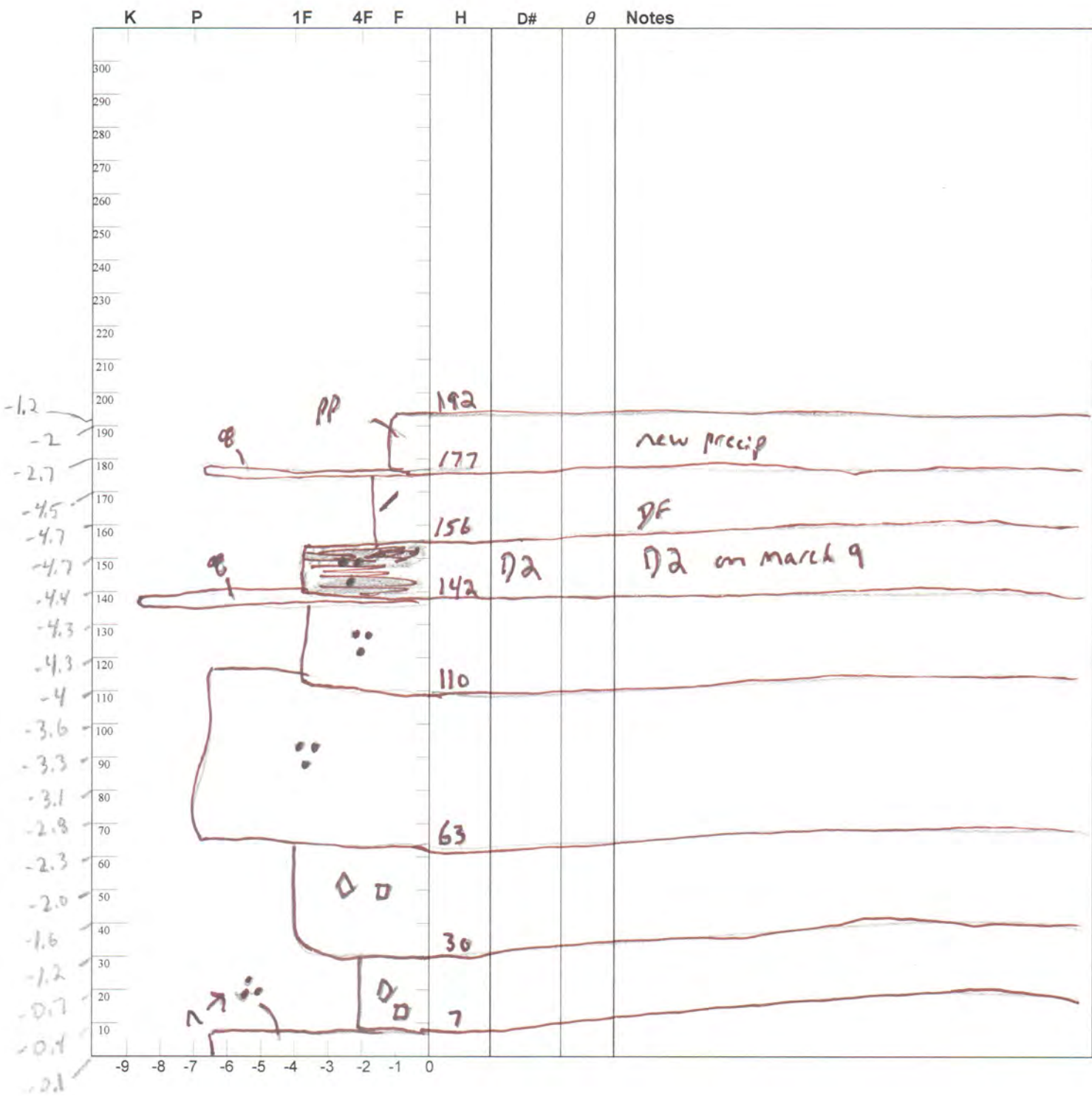
Observers: JO/SNOWEX CODOS Snowpack Profile Date: 3/17/2021  
 Location: SASP Elev. 11,070' Aspect: NE Boot Pen: 55 cm  $\angle$ : 3 ° Time: 1200 MDT  
 Prior Obs: 3/3/2021 Air T: -4 °C Sky: ☉ Precip: SI Wind: calm Notes: \_\_\_\_\_

Snowex Pit info.

density 1 = 284 kg/m<sup>3</sup> density 2 = 281 kg/m<sup>3</sup>

SWE = 542.4 mm depth 1.92 m

D2 mainly AT 1.56 m



Observers: god/AV

### CODOS Snowpack Profile

Date: 3/29/2021

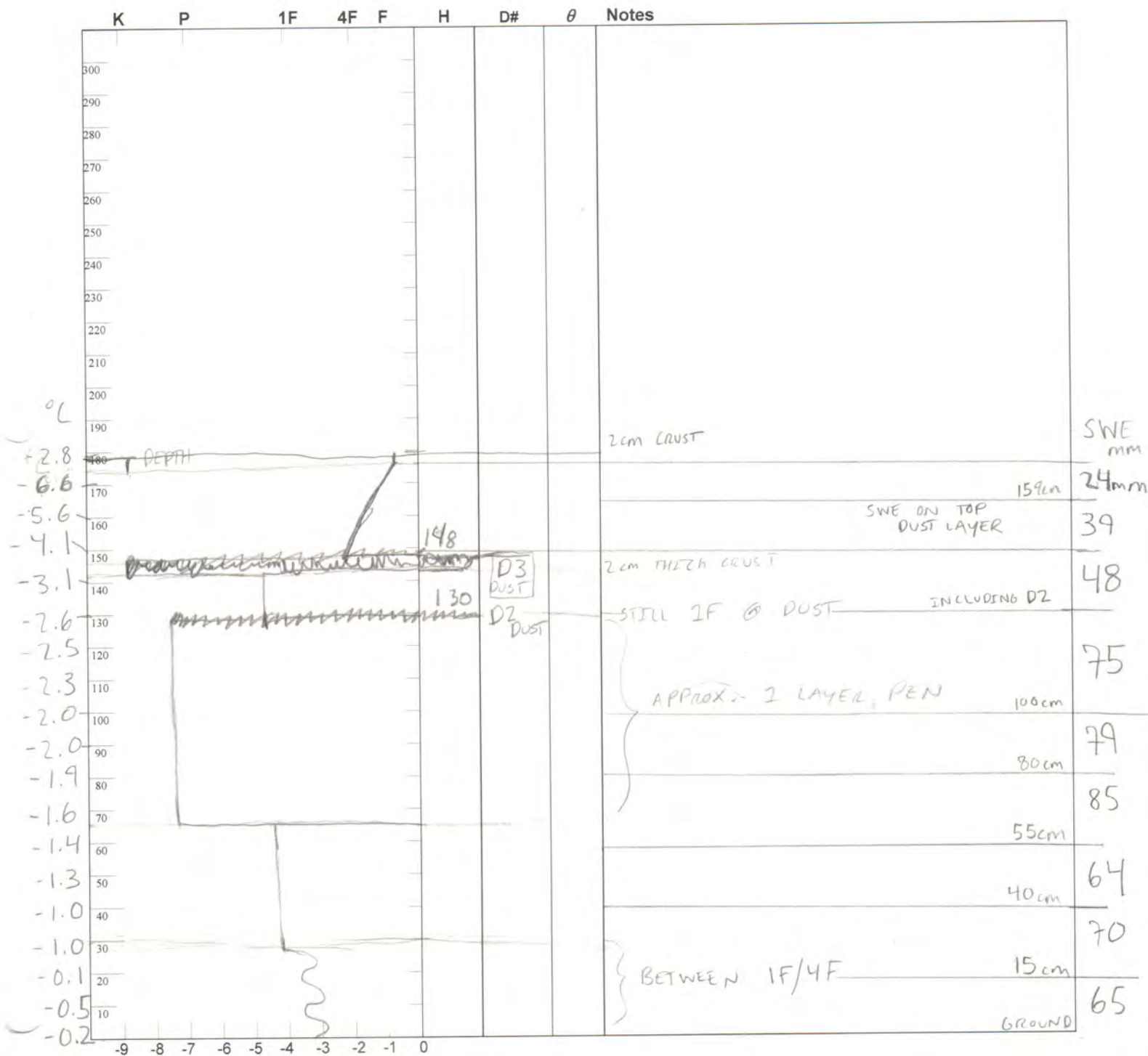
Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 27 cm  $\angle$ : 2° Time: 0930 MDT

Prior Obs: 1/1 Air T:     °C Sky: ☉ Precip: Nil Wind: Mod Notes:     

SLOPE NORMAL: 1.78 m

SWE = 549 mm

Density = 308 kg/m<sup>3</sup>



Observers: jed

### CODOS Snowpack Profile

Date: 4 / 8 / 2021

Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 5 cm  $\angle$ : 3 ° Time: 1400 MDT

Prior Obs: 3 / 29 / 2021 Air T: -10 °C Sky: ☉ Precip: Nil Wind: Mod Notes: \_\_\_\_\_

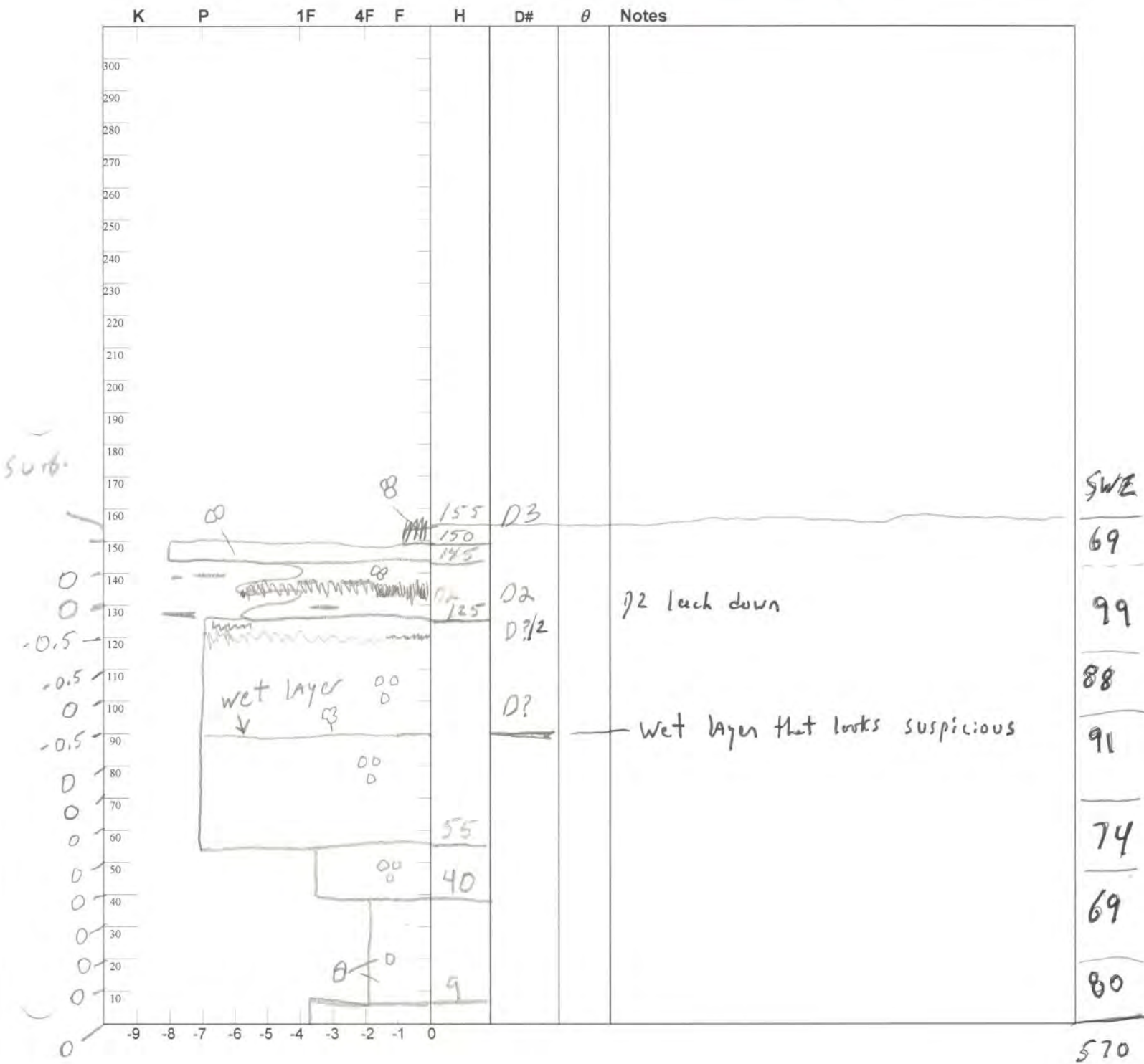
Dust event in progress?

SWE = 570 mm

snow  $\rho$  = 1.50 m

$\rho_2 = 130\text{cm} - 135\text{cm}$

density = 380 kg/m<sup>3</sup>



Observers: Jed

### CODOS Snowpack Profile

Date: 4 / 21 / 2021

Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 3 cm  $\angle$ : 3 ° Time: 1330 MDT

Prior Obs: 4 / 8 / 2021 Air T: \_\_\_\_\_ °C Sky: ☉ Precip: Nil Wind: mod Notes: \_\_\_\_\_

FLAT light

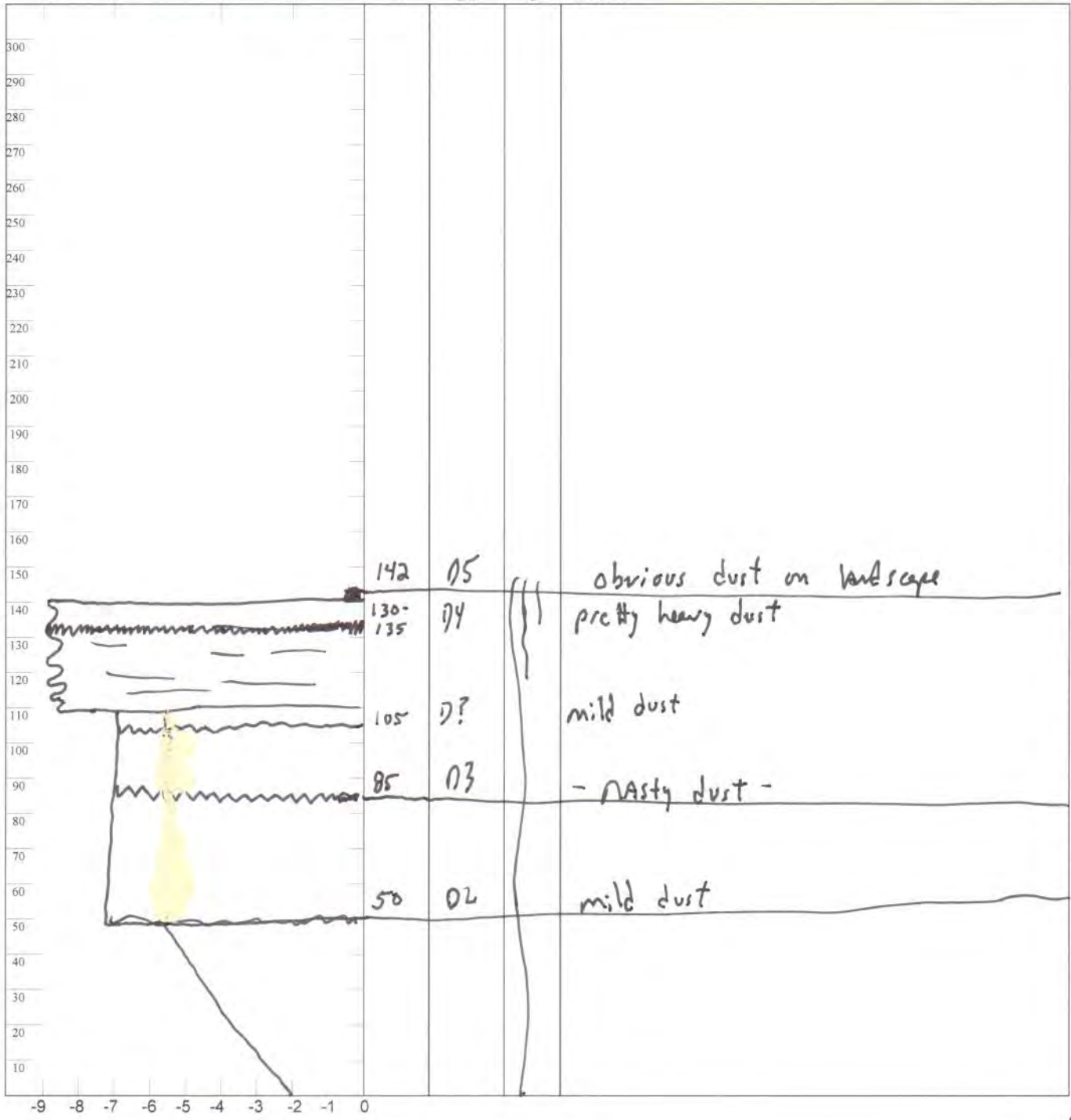
SWE = 547 mm

moist snowpack, not wet

depth  $\rho$  = ~~1.41~~ 1.41 m

density = 388 kg/m<sup>3</sup>

K P 1F 4F F H D#  $\theta$  Notes



SWE  
93  
 ---  
 90  
 ---  
 99  
 ---  
 97  
 ---  
 73  
 50  
 45  
547

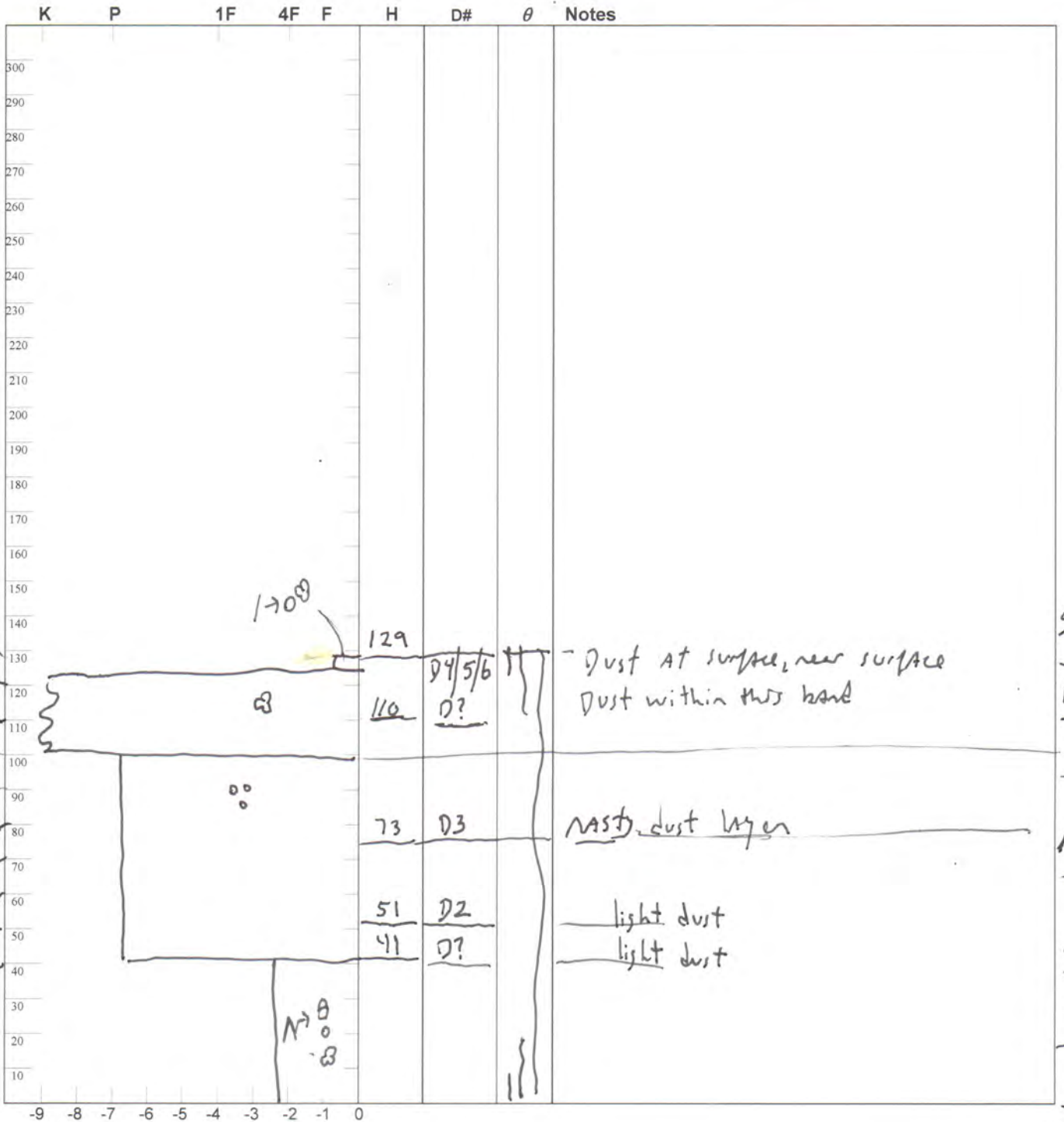


Observers: gp/TG **CODOS Snowpack Profile** Date: 4/29/2021  
 Location: SASP Elev. 11,060' Aspect: N Boot Pen: 4 cm  $\angle$ : 3° Time: 1350 MDT  
 Prior Obs: 4/21/2021 Air T: 10 °C Sky: ☉ Precip: Nil Wind: Calm Notes: \_\_\_\_\_

SWE = 588 mm

Snowdepth = 1.31 m, slope normal

$\rho$  = 449 kg/m<sup>3</sup>



SWE  
 101  
 82  
 105  
 105  
 85  
 110  
 588

Observers: jed

### CODOS Snowpack Profile

Date: 5 / 12 / 2021

Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 0 cm  $\angle$ : 3° Time: 9:30 ~~MT~~ local

Prior Obs: 4 / 29 / 2021 Air T: 5.6 °C Sky: ☉ Precip: Nil Wind: calm Notes: \_\_\_\_\_

depth at snow stakes: #1 = 92 cm

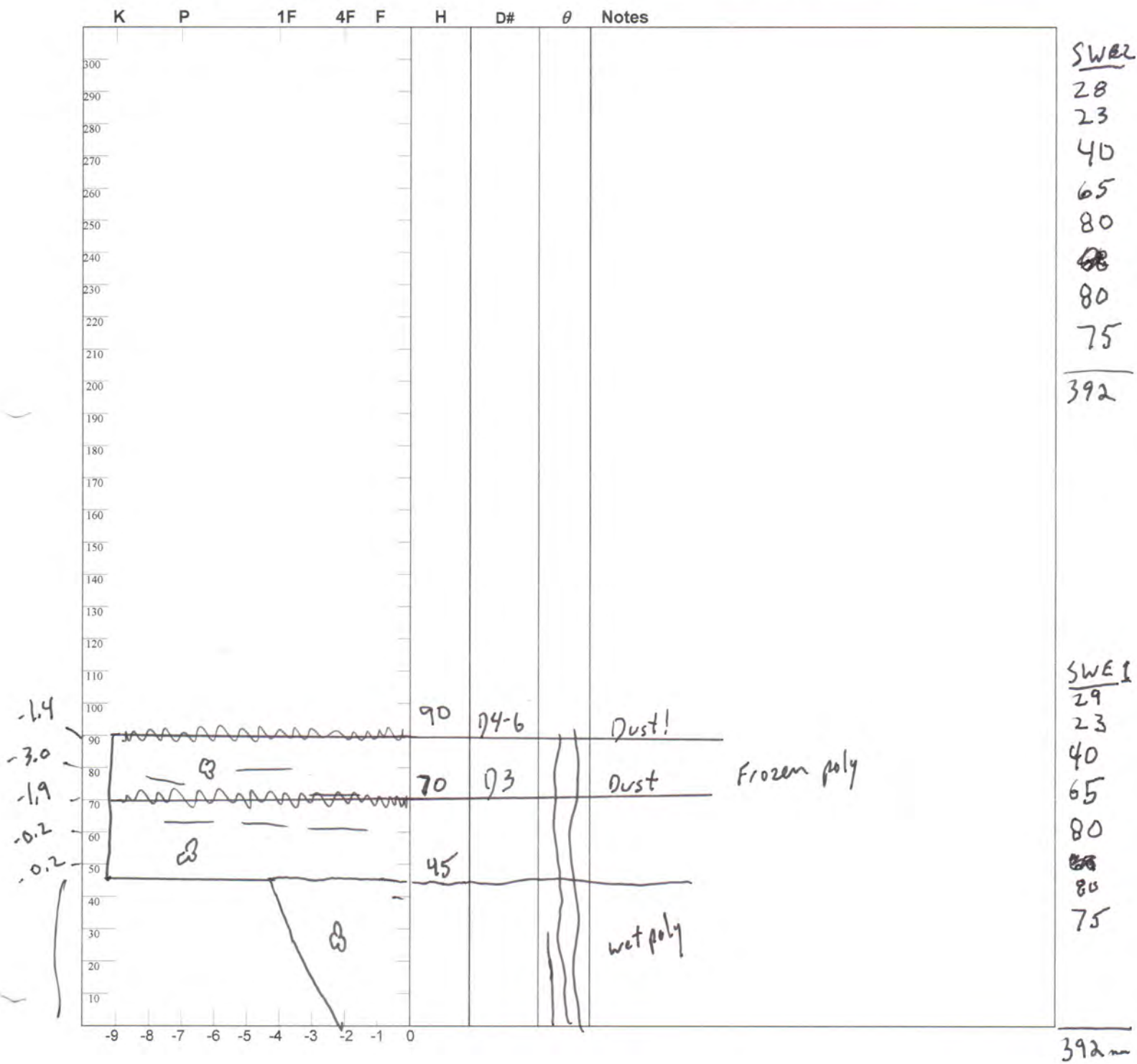
depth  $\phi$  = 0.90 m = 3'

#2 = 101 cm, #3 = 95 cm, #4 = 90 cm

density = 436 kg/m<sup>3</sup>

Top 10" of pack frozen.

SWE = 392 mm = 15.4"



Observers: jud

### CODOS Snowpack Profile

Date: 5/26/2021

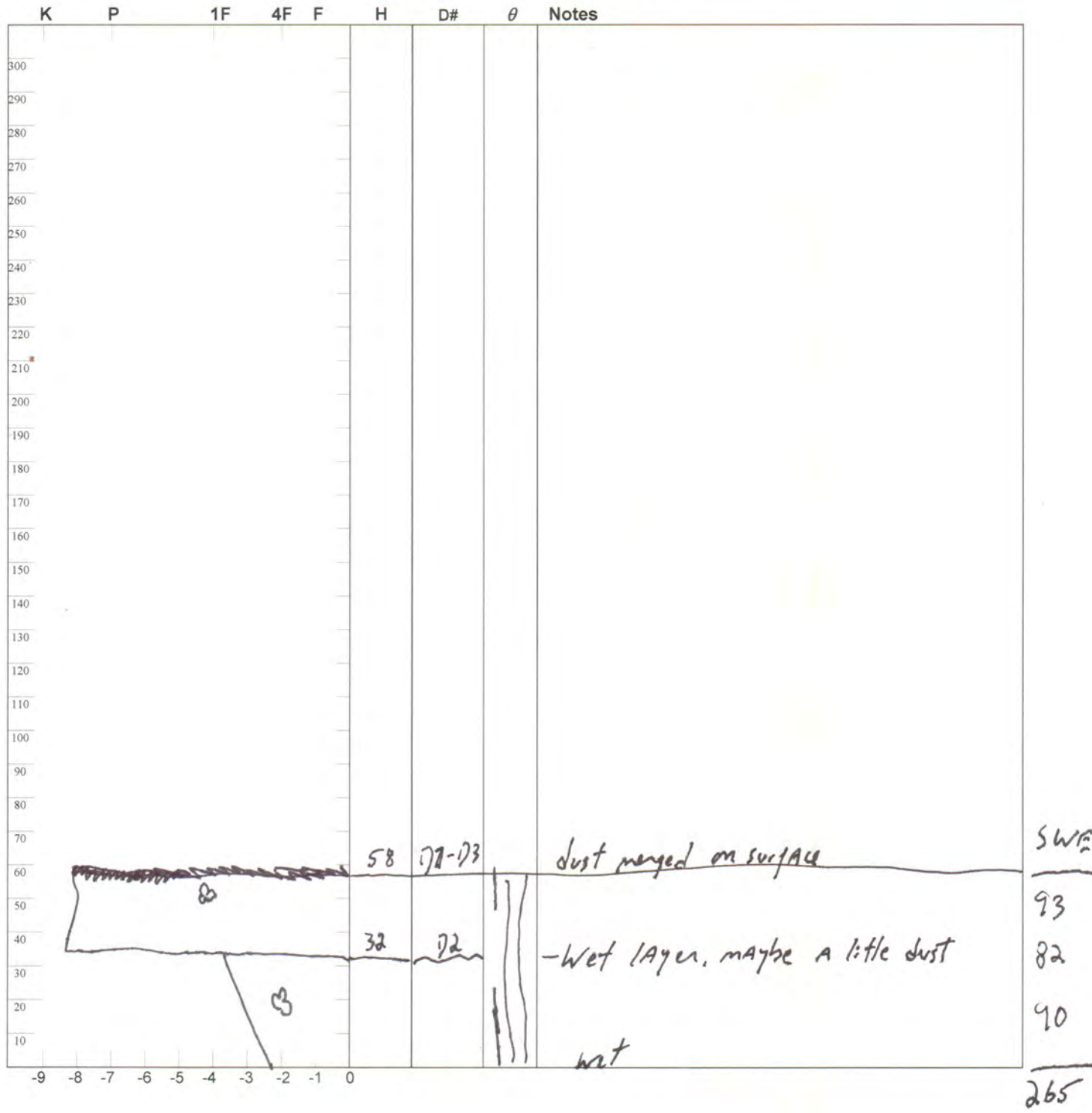
Location: SASP Elev. 11,060' Aspect: NE Boot Pen: 3 cm  $\angle$ : 3 ° Time: 11:00 MDT Local

Prior Obs: 5/12/2021 Air T: 11 °C Sky: Precip: Nil Wind: Mod Notes: \_\_\_\_\_

$$SWE = 265 \text{ mm} = 10.4''$$

$$\text{depth } \phi = 0.58 = 1.9'$$

$$\text{density} = 457 \text{ kg/m}^3$$



Observers: AT, JT, JO

**CODOS Snowpack Profile**

Date: 2021/04/10

Location: SBSP

Elev. 12,200' Aspect: NE Boot Pen: 0 cm  $\angle$ : 5° Time: 0940 MDT

Prior Obs: 2000/06/1- Air T: -5.1 °C Sky: FEN Precip: NO Wind: L,W Notes: xx: 1.42m

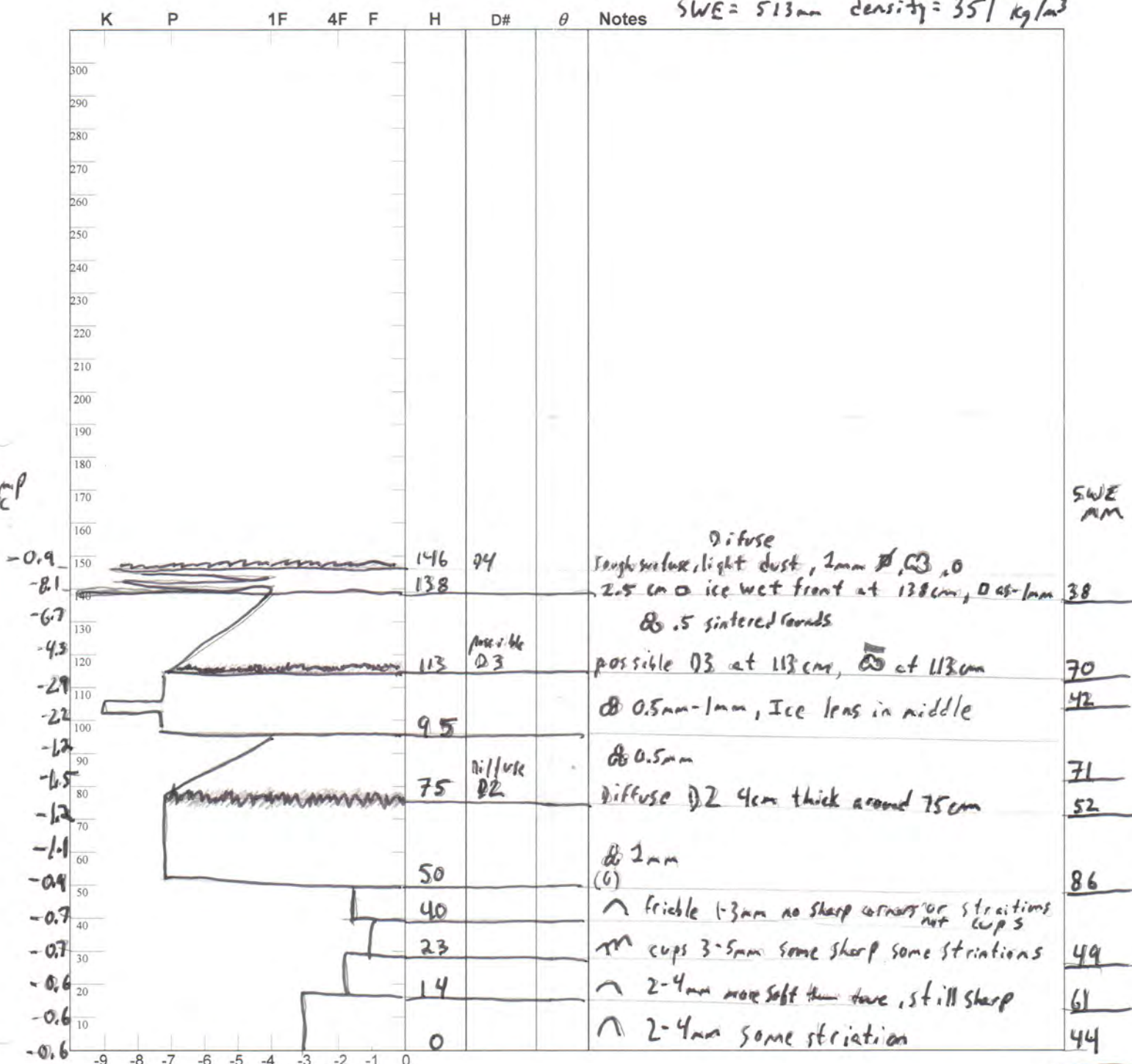
Nice day, whole team present, photos of tower, firm rough snow surface, diffuse surface dust, recent wet avalanche activity on dust layers

D1 not visible, D2 leached & diffuse at 75cm, possible D3 113cm, D4 present at surface

Stakes = 100cm, 72cm, 97cm, 139cm, 137cm, 147cm depth 1.42m

SWE = 513mm density = 351 kg/m<sup>3</sup>

Temp



513

Observers: JT AT

CODOS Snowpack Profile

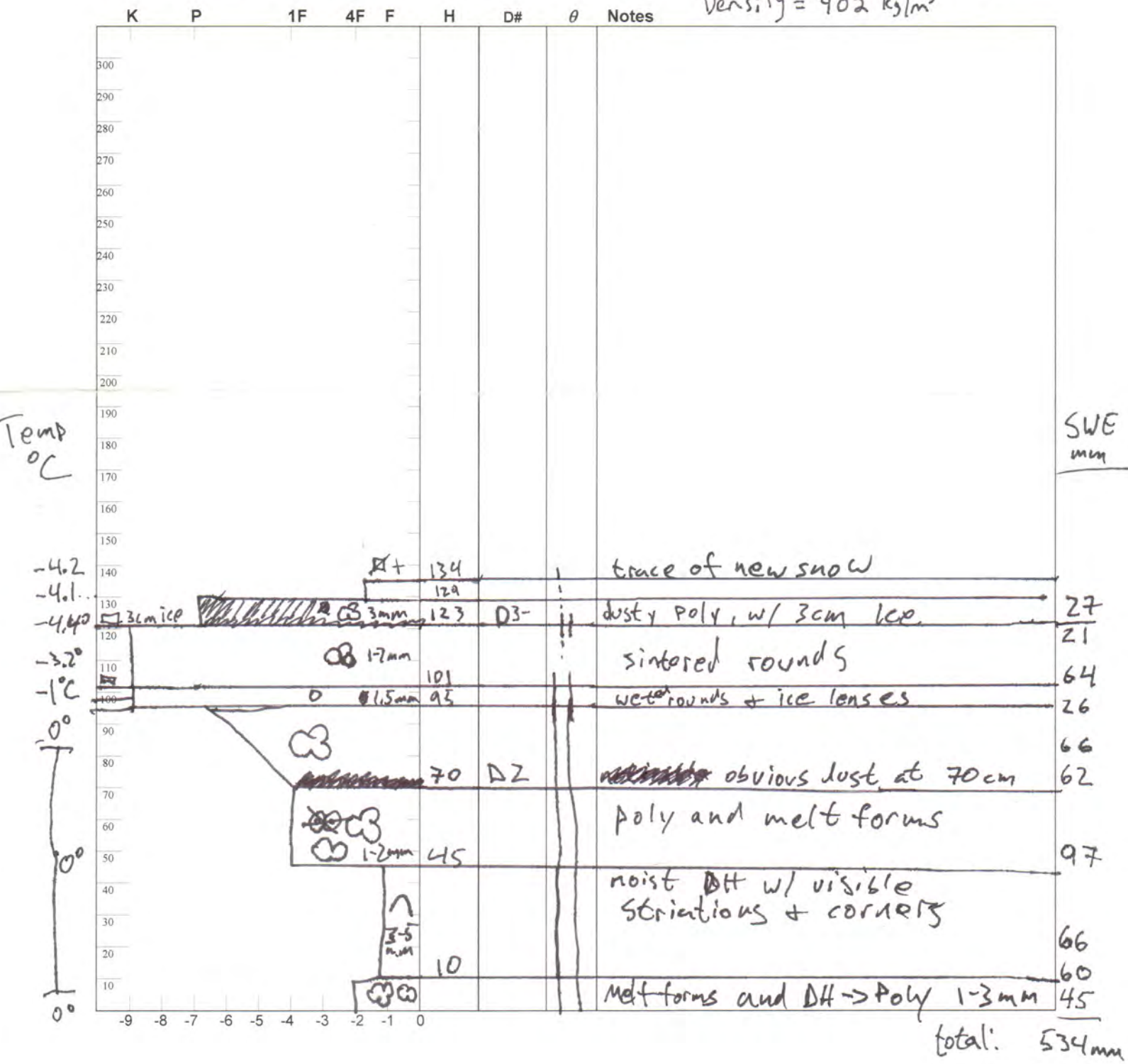
Date: 2021/05/12

Location: SBSP Elev. 12,200 Aspect: NE Boot Pen: 1 cm  $\angle$ : 87° Time: 0933 MDT

Prior Obs: 4/10/2021 Air T: 3 °C Sky: CLR Precip: ND Wind: L, SW Notes: HS & #': 1.33m

clean surface at study plot, SBB has widespread surface dust most prevalent on steeper slopes, D3 and later dust merged 170-179cm and within ice lens, D2 obvious at 70cm. Challenging SWE obs. due to ice lens stakes: NE: 64cm, E: 88cm, SE: 132cm, SW: 123cm, W: 135cm, NW: 88cm

Density = 402 kg/m<sup>3</sup>



total: 534mm