



Observers: JD/AT/PS

Center for Snow and Avalanche Studies

Profile # 2

Time: 1044

Snowpack Profile

Date: 12/15/2016

Location: SASP

Elev. 11,060 Aspect: N

Boot Pen: 33 cm  $\angle$ : 3 °

Air T: 4 °C Sky: ☉

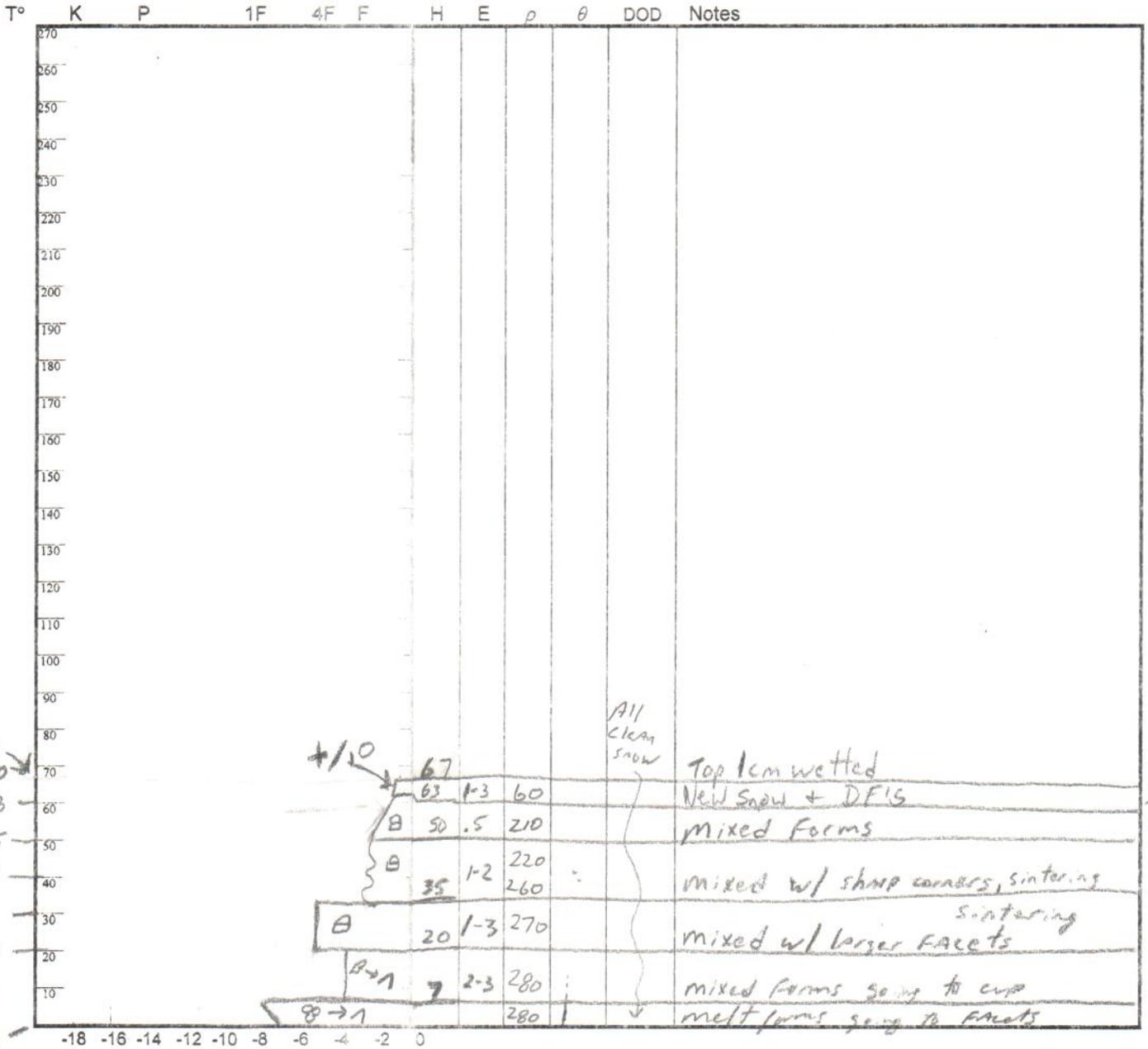
Precip: Nil Wind: Mod

Prior Pit: # 1; 12/4/2016

Total Snowpack SWE: 162 mm H<sub>2</sub>O

HS Norm: 0.68 m Mean  $\rho$ : 238 kg/m<sup>3</sup>

Notes: No Dust



Notes:

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Observers: AT

Center for Snow and Avalanche Studies

Profile # 3

Time: 12:20

Snowpack Profile

Date: 1/2/17

Location: SASP

Elev. 11,050 Aspect: N

Boot Pen: 38 cm 4:3 °

Air T: -4 °C Sky: ⊕

Precip: NO

Wind: LT

Prior Pit: #    ; 1/1

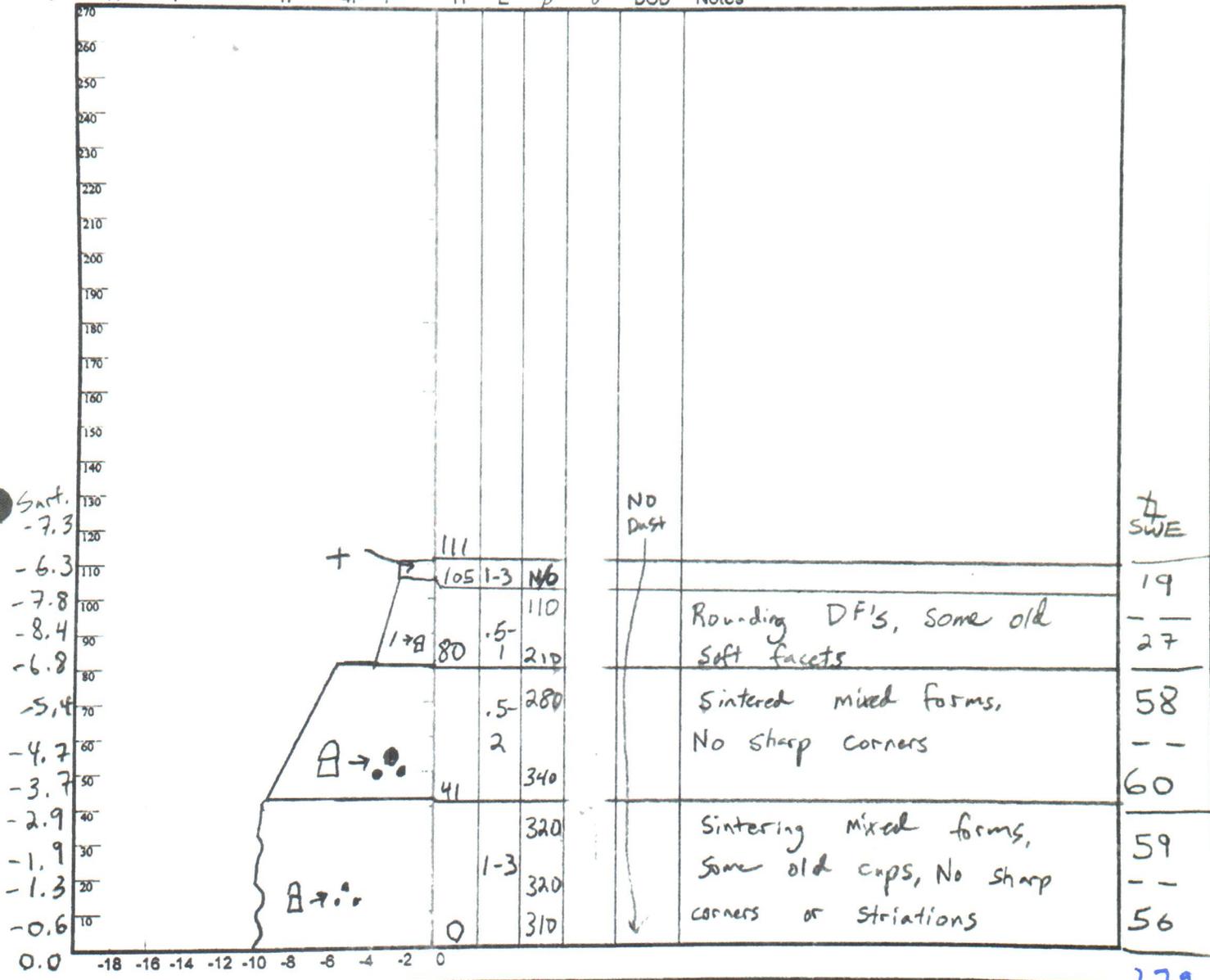
Total Snowpack SWE: 279 mm H<sub>2</sub>O

HS Norm: 1.08 m

Mean ρ: 301.32 kg/m<sup>3</sup>  
258

Notes:    

T° K P 1F 4F F H E ρ θ DOD Notes



Notes:

Observers: PS

Center for Snow and Avalanche Studies

Profile # 4

Time: 1025

Snowpack Profile

Date: 2/1/17

Location: SASP

Elev. 11050

Aspect: SE

Boot Pen: 35 cm

∠: 3°

Air T: -2 °C

Sky: ☉

Precip: no

Wind: SW

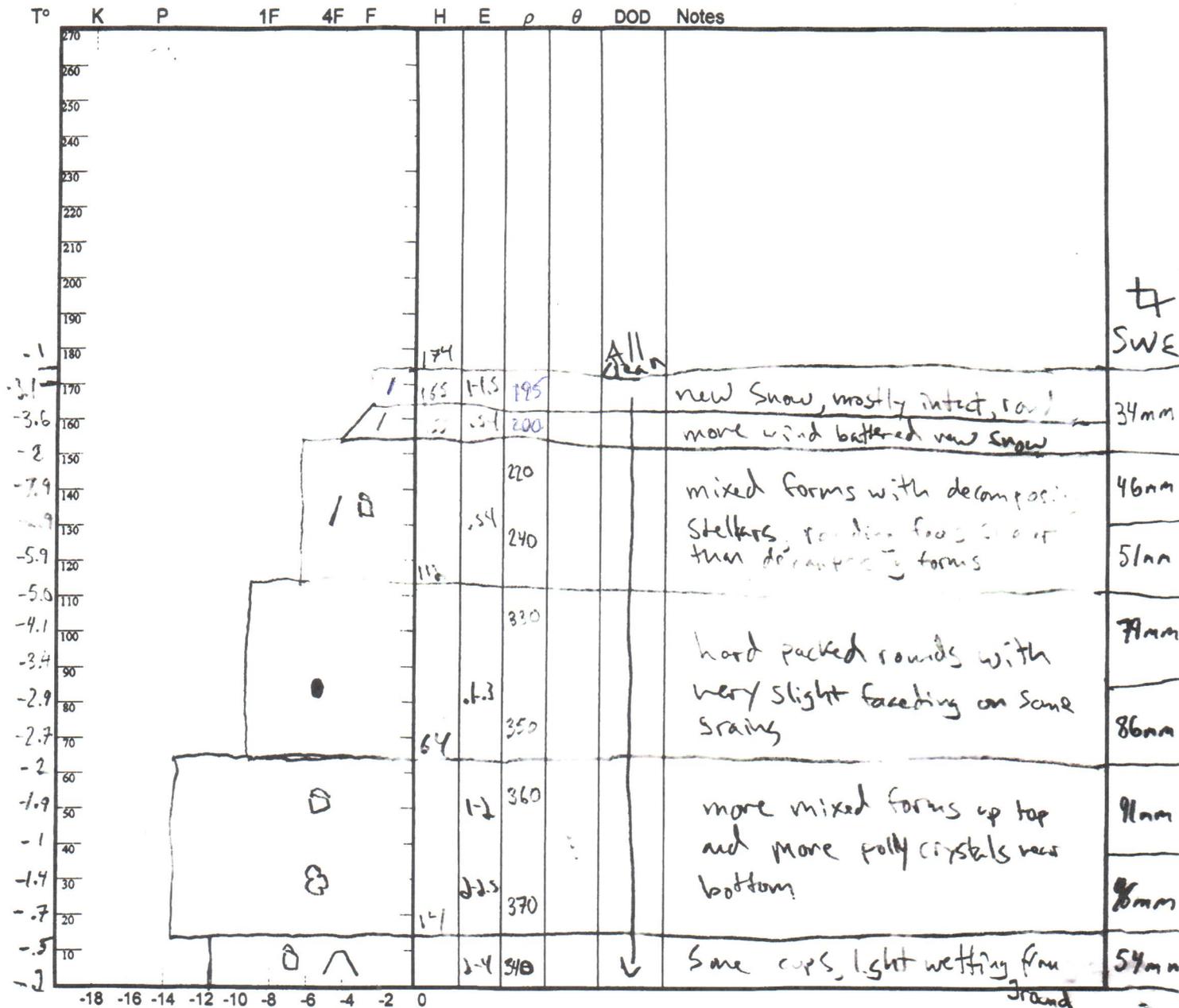
Prior Pit: # 3; 1 / 1

Total Snowpack SWE: 539 mm H<sub>2</sub>O

HS Norm: 174 m

Mean ρ: 304 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



Notes: measured SWE is 69mm more than Array YTD precip, although snow height matches at pit and SR. Density agrees with SWE measured at SASP in pit today. Both instruments checked/calibrated prior to use.

Observers: JD + PS

Center for Snow and Avalanche Studies

Profile # 5

Time: 1130

Snowpack Profile

Date: 2/25/17

Location: SASP

Elev. 11050

Aspect: N

Boot Pen: 25 cm

∠: 3 °

Air T: -11 °C

Sky: ☉

Precip: no

Wind: calm

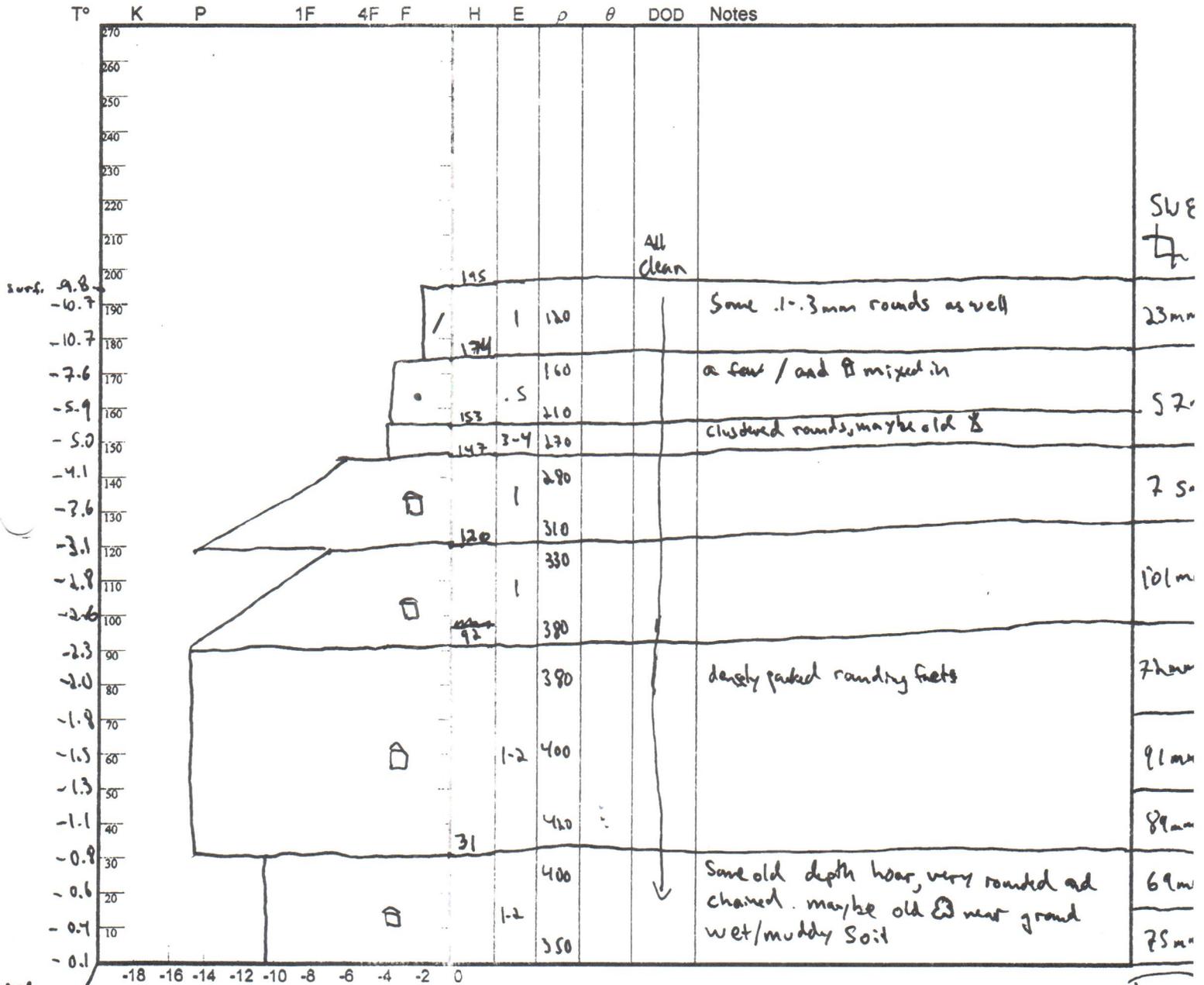
Prior Pit: # 4; 2/1/17

Total Snowpack SWE: 652 mm H<sub>2</sub>O

HS Norm: 1.95 m

Mean ρ: 334 kg/m<sup>3</sup>

Notes: No Dust observed



temp 3-4 cm below surf. 0.0

Notes: Started snowing very lightly at approx. 1200

Federal sampler: 1<sup>st</sup> sample = 27g = 27" = 686mm  
 2<sup>nd</sup> sample = 22g = 22" = 559mm  
 3<sup>rd</sup> sample = 25g = 25" = 635mm  
 25g = 25" = 635mm } 627mm Average

652



Observers: JD

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Profile # 7

Time: 1453

Snowpack Profile

Date: 3/22/11

Location: SASP

Elev. 11,060'

Aspect: N

Boot Pen: 7 cm

$\angle$ : 3 °

Air T: 7 °C

Sky: ☉

Precip: Nil

Wind: Mod

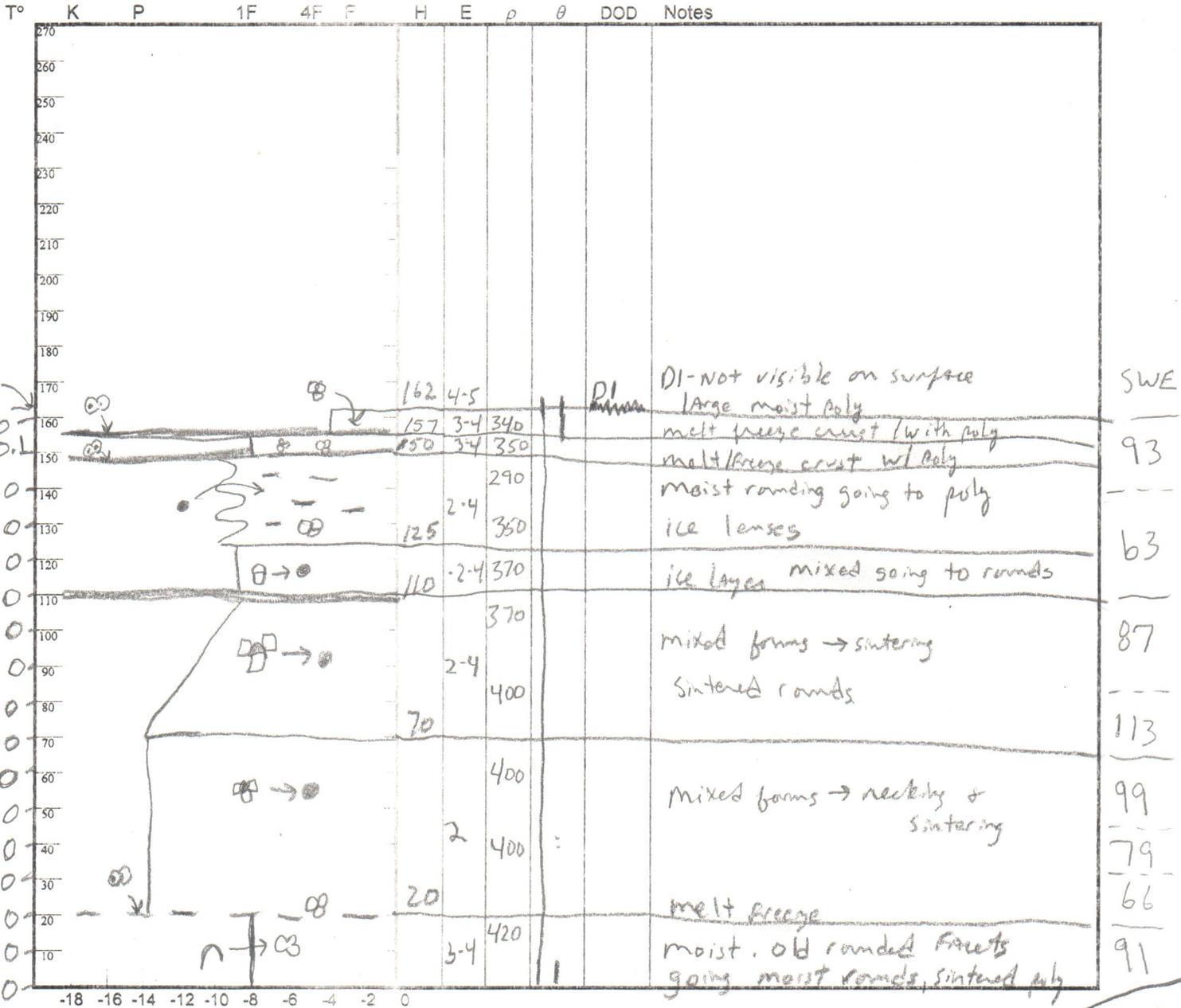
Prior Pit: # 6; 3/11/2011

Total Snowpack SWE: 691 mm H<sub>2</sub>O

HS Norm: 1.61 m

Mean  $\rho$ : 429 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



Notes:

DI at surface, not visible in snow profile, dust very noticeable across landscape.

Observers: JD

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Profile # 8

Time: 1040

Snowpack Profile

Date: 3/30/2017

Location: SASP

Elev. 11,060 Aspect: N

Boot Pen: 40 cm  $\angle$ : 3 °

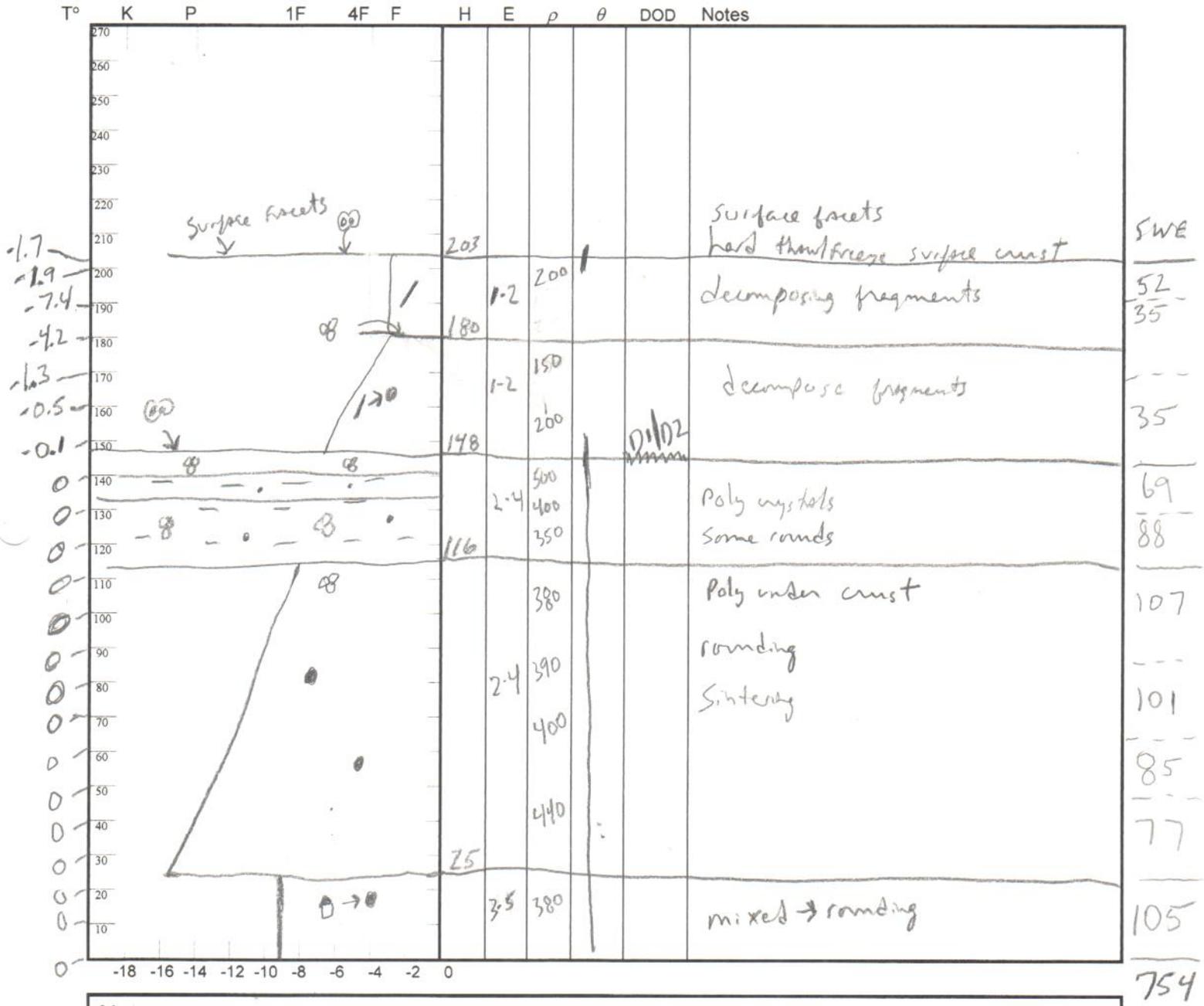
Air T: 5.5 °C Sky: 0

Precip: nil Wind: calm

Prior Pit: # 7; 3/22/2017

Total Snowpack SWE: 754 mm H<sub>2</sub>O

HS Norm: 199 m Mean  $\rho$ : 379 kg/m<sup>3</sup> Notes: \_\_\_\_\_



Notes:

0.5 meter of new snow on top of D1/D2 which is very mild.

Observers: PS & AT

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Profile # 9

Time: 1330

Snowpack Profile

Date: 4/16/17

Location: SASP

Elev. 4050

Aspect: N

Boot Pen: 20 cm  $\angle$ :     °

Air T: 9 °C Sky: ☉

Precip: No

Wind: NONE

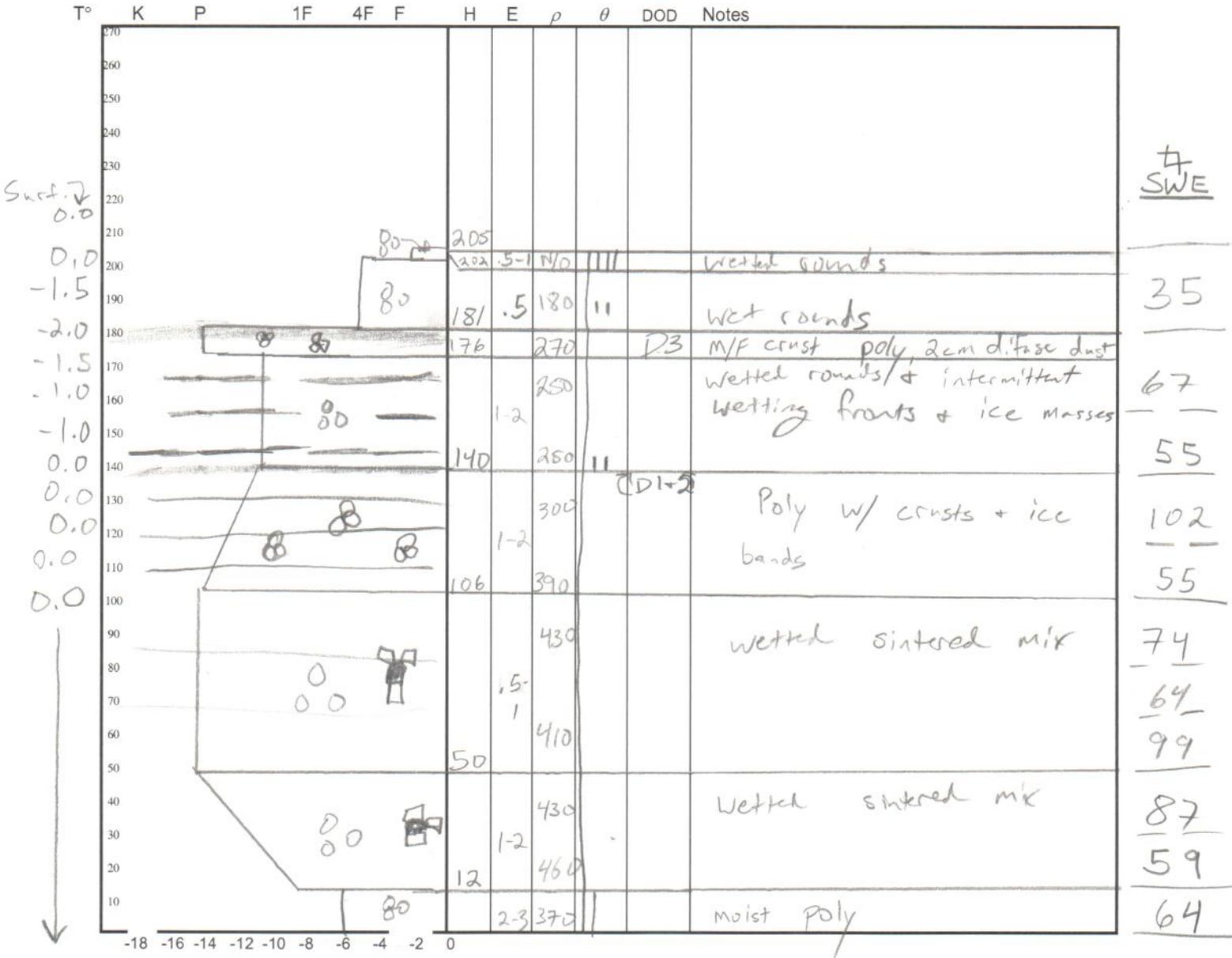
Prior Pit: # 8; 1-1

Total Snowpack SWE: 761 mm H<sub>2</sub>O

HS Norm: 2.03 m

Mean  $\rho$ : 374.9 kg/m<sup>3</sup>

Notes:     



Notes:

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Observers: PS

Center for Snow and Avalanche Studies

Profile # 10

Time: 1015

Snowpack Profile

Date: 04/18/2017

Location: SASP

Elev. 11050

Aspect: SE

Boot Pen: 1 cm  $\angle$ :     °

Air T: 7 °C

Sky: ☁

Precip: no

Wind: light

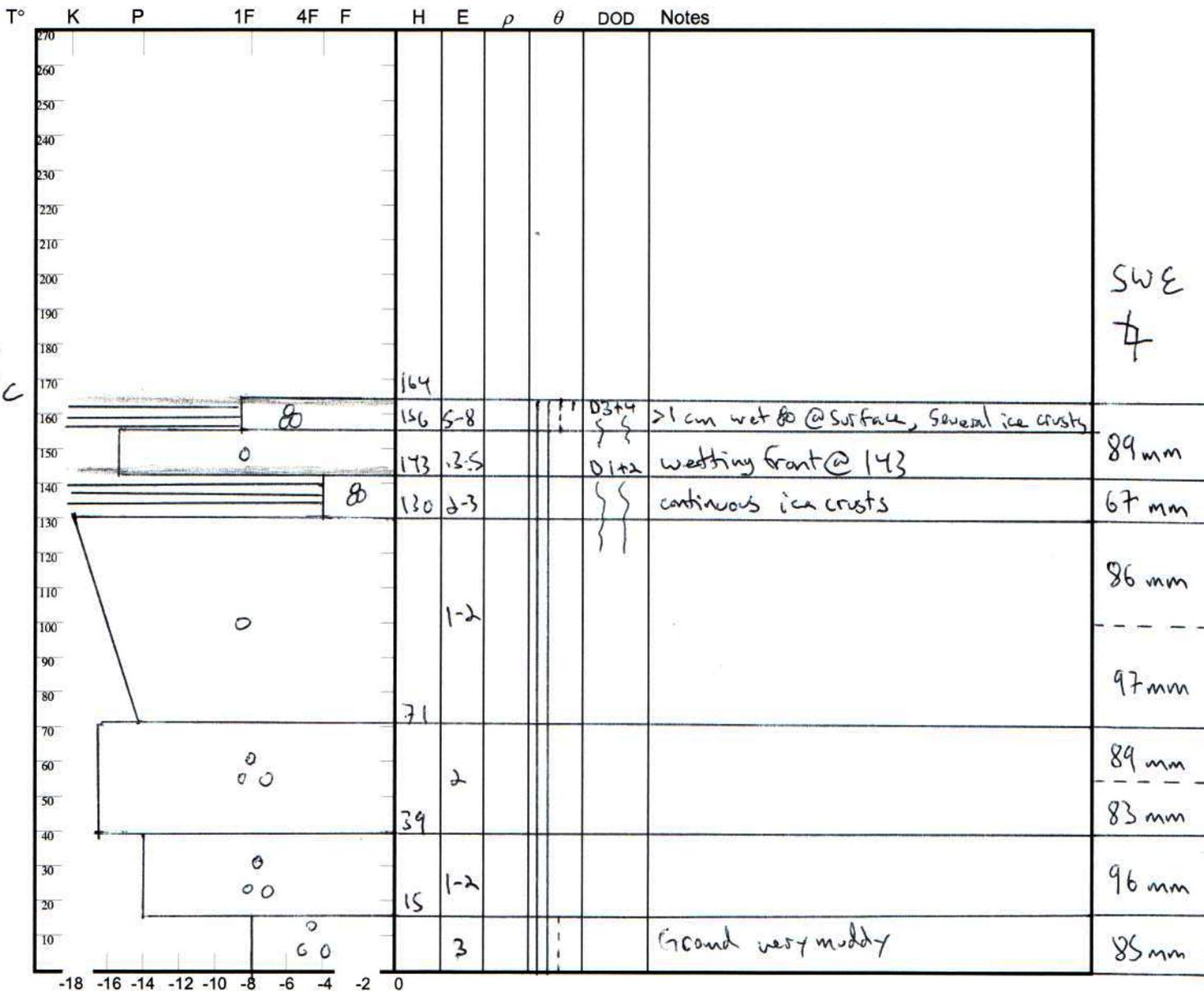
Prior Pit: # 9; 04/06/17

Total Snowpack SWE: 692 mm H<sub>2</sub>O

HS Norm: 161 m

Mean  $\rho$ : 429.8 kg/m<sup>3</sup>

Notes:     



Temps all 0°C

SWE 7

Notes: D3+4 are merged on surface. Dust is leeching through snow pack, especially D1+2.

Observers: JD/PS  
 Time: 1338

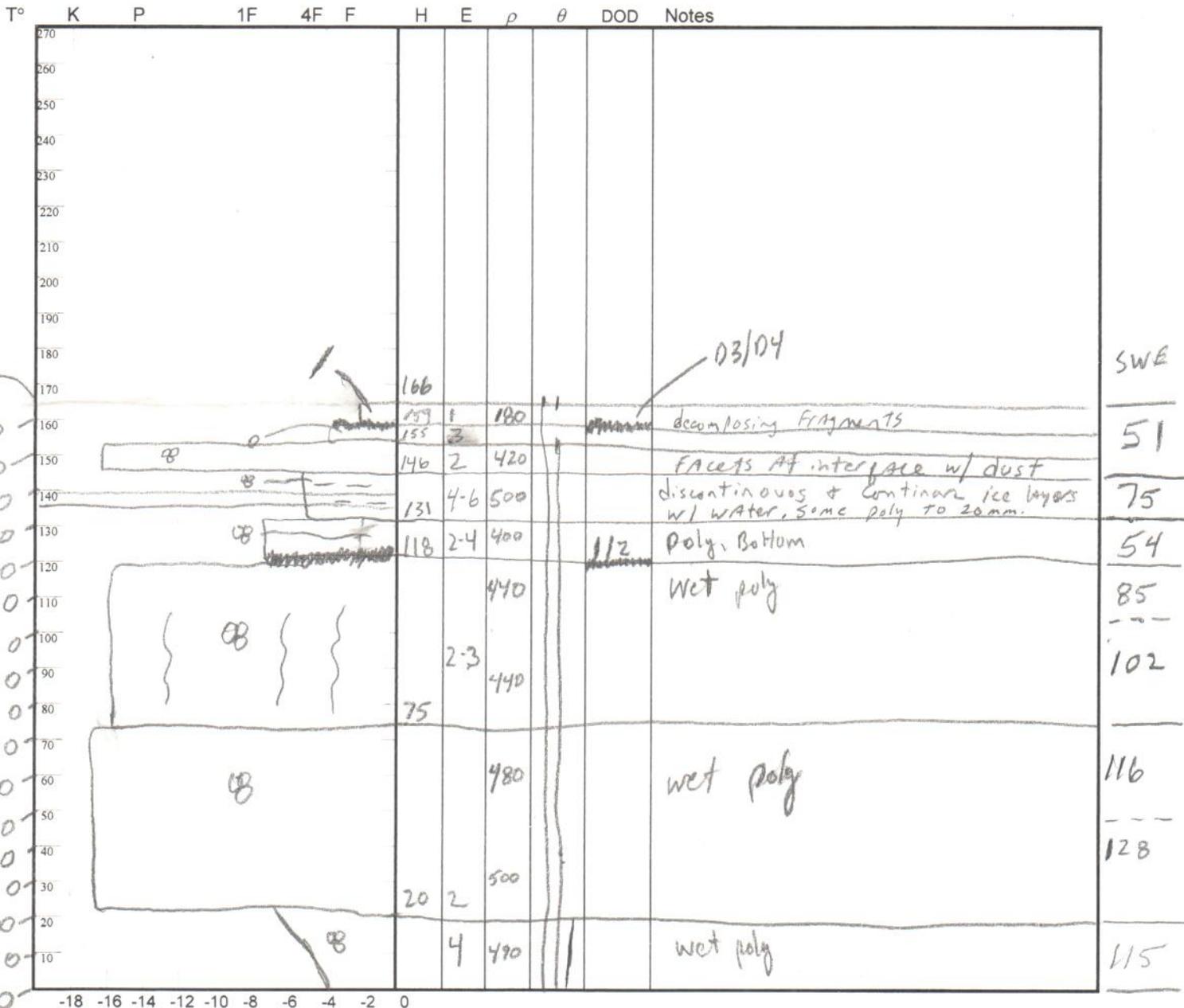
Center for Snow and Avalanche Studies

Profile # 11

Snowpack Profile

Date: 4/26/2017

Location: SASP Elev. 11,060' Aspect: N Boot Pen: 5 cm  $\angle$ : 3 °  
 Air T: 2 °C Sky: ☉ Precip: Nil Wind: calm Prior Pit: # 10; 4/18/2017  
 Total Snowpack SWE: 726 mm H<sub>2</sub>O HS Norm: 1.64 m Mean  $\rho$ : 443 kg/m<sup>3</sup> Notes: \_\_\_\_\_



Notes:  
 Pooling of dust at various layers, 110cm, 75cm, 55cm, 35cm.  
 Dust 1-4 observed, about 7cm of new snow on 03/04  
 Average density =  $\frac{3850}{9} = 428$

Observers: JD

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Profile # 12

Time: 1120

Snowpack Profile

Date: 5/3/2017

Location: SASP

Elev. 11,060' Aspect: N

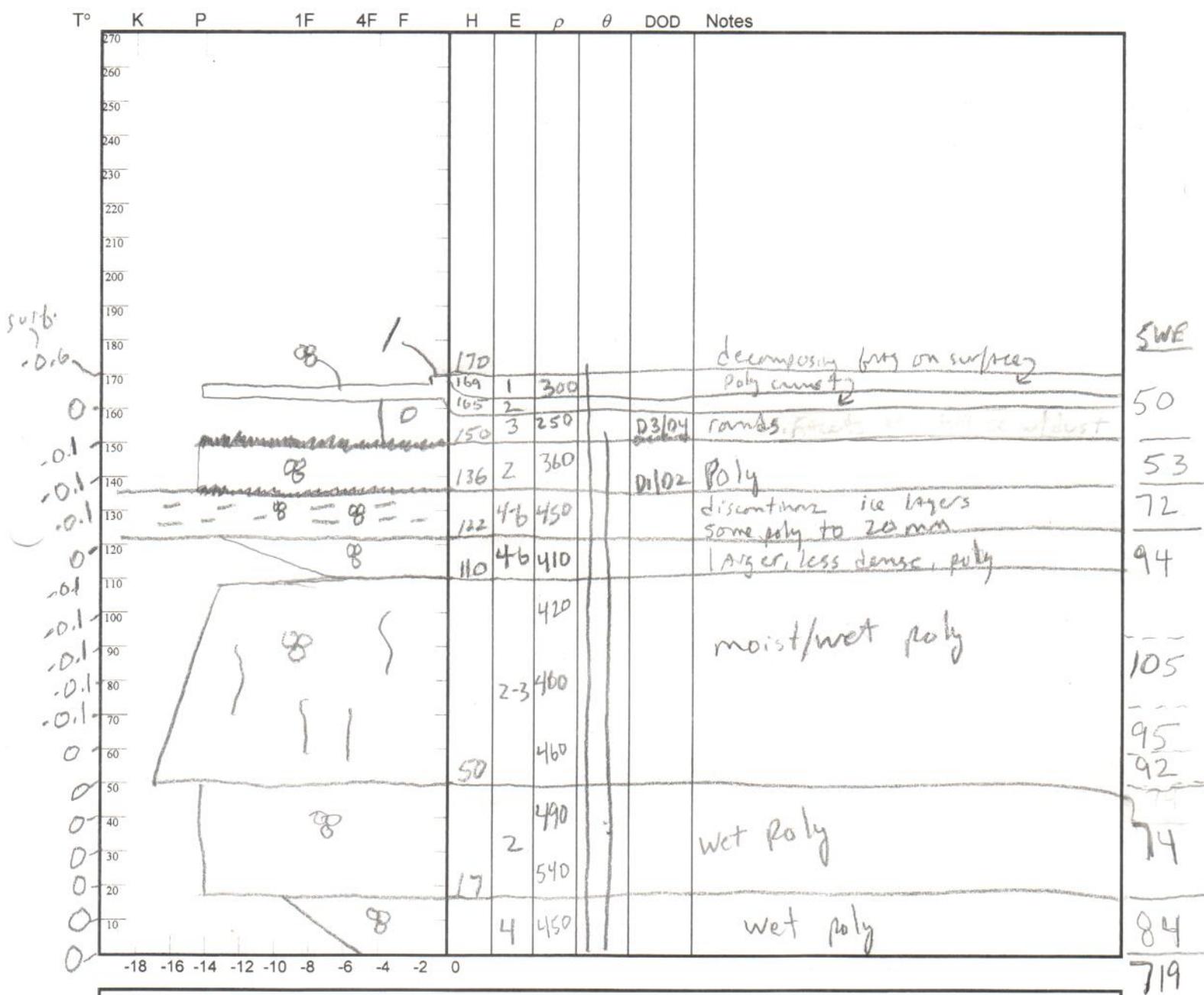
Boot Pen:      cm  $\angle$ : 3 °

Air T: 5.2 °C Sky: ⊕

Precip: Nil Wind: mild

Prior Pit: # 11; 4/26/2017

Total Snowpack SWE: 719 mm H<sub>2</sub>O HS Norm: 1.65 m Mean  $\rho$ : 436 kg/m<sup>3</sup> Notes:     



Notes:

D1/02 very light, a bit of leaching down snowpack

D3/04 very distinct dust layer

D2/05 20cm (8") beneath surface

Observers: PS

Center for Snow and Avalanche Studies

Profile # 13

Time: 0745

Snowpack Profile

Date: 5/9/17

Location: SASP

Elev. 11050

Aspect: ESE

Boot Pen: 0 cm

$\alpha$ : 2°

Air T: 0 °C

Sky: ☉

Precip: no

Wind: C

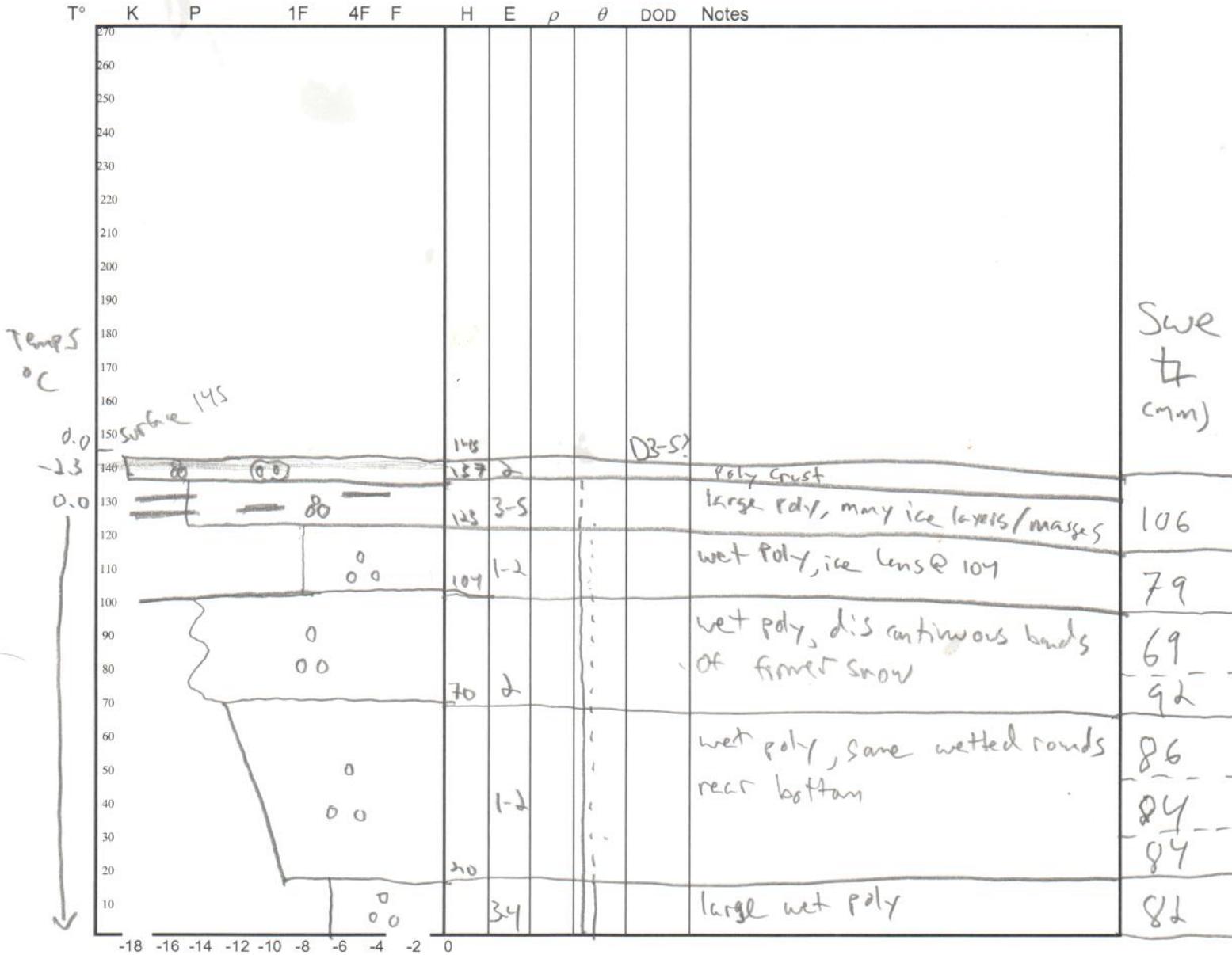
Prior Pit: # 12: 5/3/17

Total Snowpack SWE: 622 mm H<sub>2</sub>O

HS Norm: 141 m

Mean  $\rho$ : 483.7 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



Notes: possible DS not discernable from profile

D4 layers on surface of snow. Snowpack is isothermal except for top layer from overnight freeze.

Observers: JD+PS

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Profile # 14

Time: 1400

Snowpack Profile

Date: 5/19/17

Location: SASP

Elev. 11050

Aspect: ESE

Boot Pen: 20 cm

$\angle$ : 3 °

Air T: 1.8 °C

Sky: ⊙

Precip: no

Wind: light

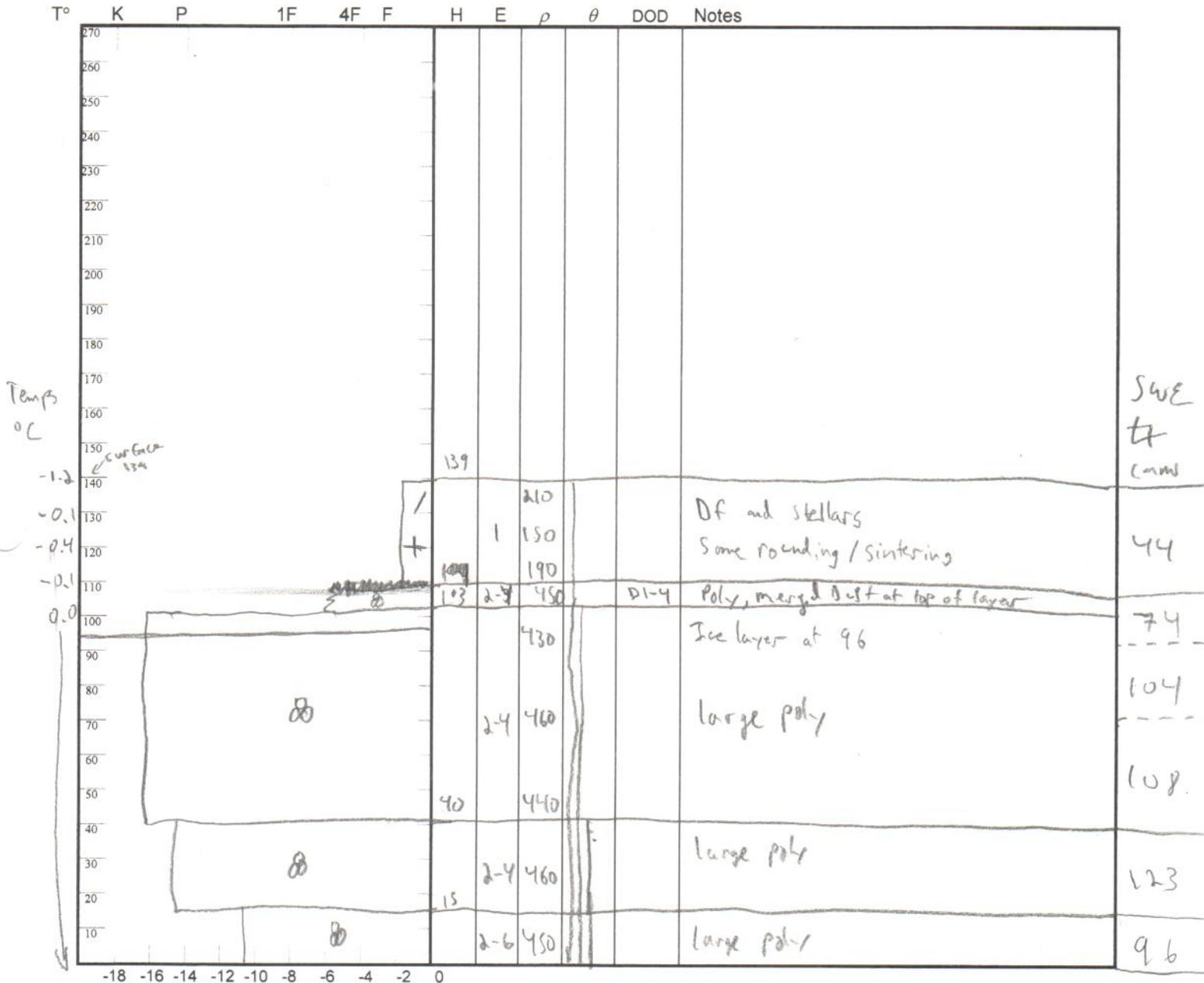
Prior Pit: # 13; 5/19/2017

Total Snowpack SWE: 549 mm H<sub>2</sub>O  
21.6"

HS Norm: 1.365 m

Mean  $\rho$ : 402 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



SWE  
+  
cm

44

74

104

108

123

96

549

Notes:  
 D1-D4 is 17" below snow surface

Observers: PS

### Center for Snow and Avalanche Studies

Profile # 18

Time: 0800

### Snowpack Profile

Date: 5/26/17

Location: S Asp

Elev. 11050

Aspect: ESE

Boot Pen: 2 cm

$\angle$ : 2 °

Air T: 3 °C

Sky: ①

Precip: no

Wind: light

Prior Pit: # 14; 5/19/17

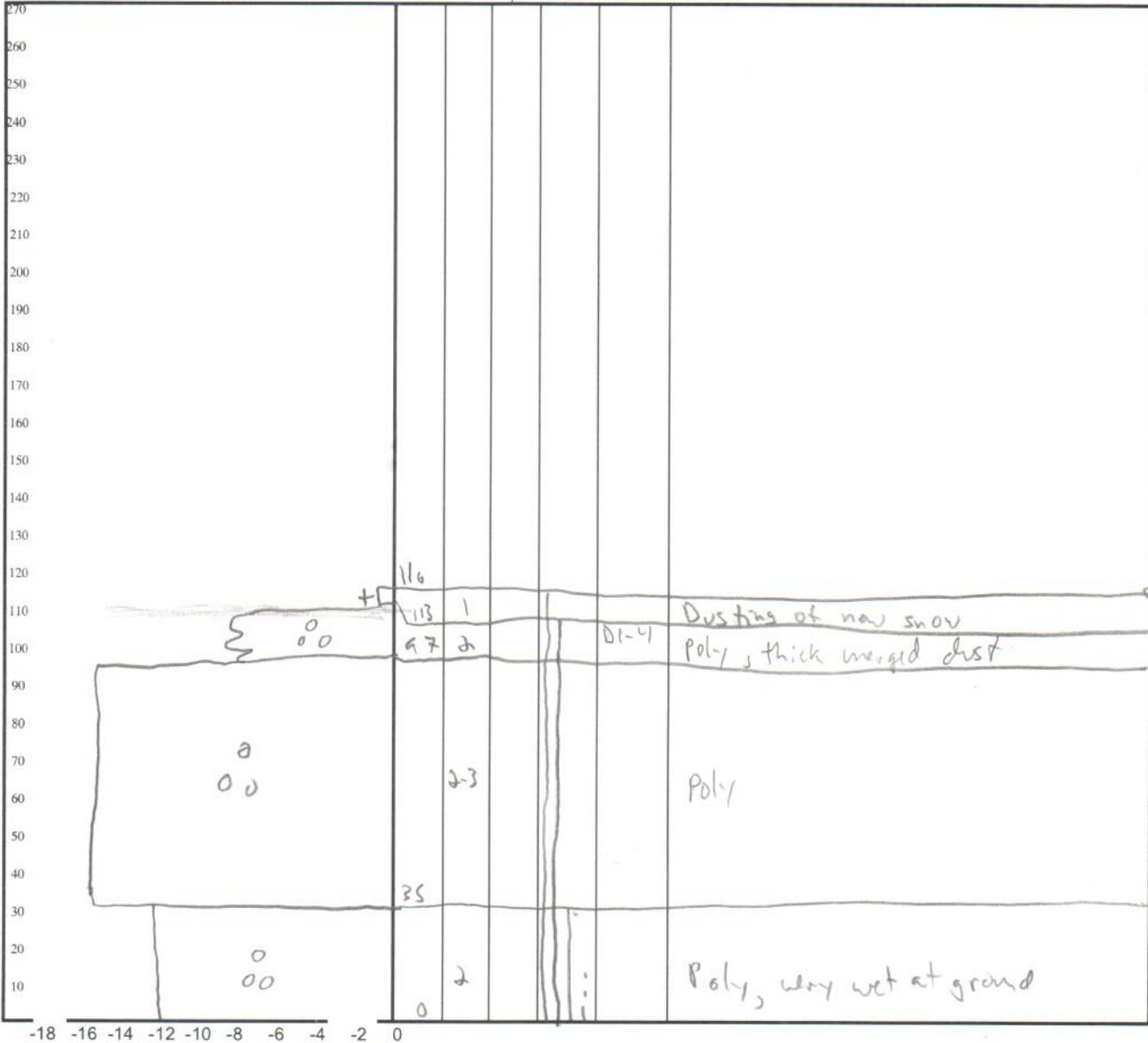
Total Snowpack SWE: 518 mm H<sub>2</sub>O

HS Norm: 1.12 m

Mean  $\rho$ : 462.5 kg/m<sup>3</sup>

Notes: \_\_\_\_\_

T° K P 1F 4F F H E  $\rho$   $\theta$  DOD Notes



Temps  
All 0.0°C  
↓

SWE

67  
103  
68  
46  
88  
77  
69

Notes:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Observers: AT

Center for Snow and Avalanche Studies

Profile # 16

Time: 0900

Snowpack Profile

Date: 5/31/17

Location: SASP

Elev. 11,100 Aspect: N

Boot Pen: 1 cm 4.3°

Air T: -5.8°C

Sky: ☉

Precip: ND

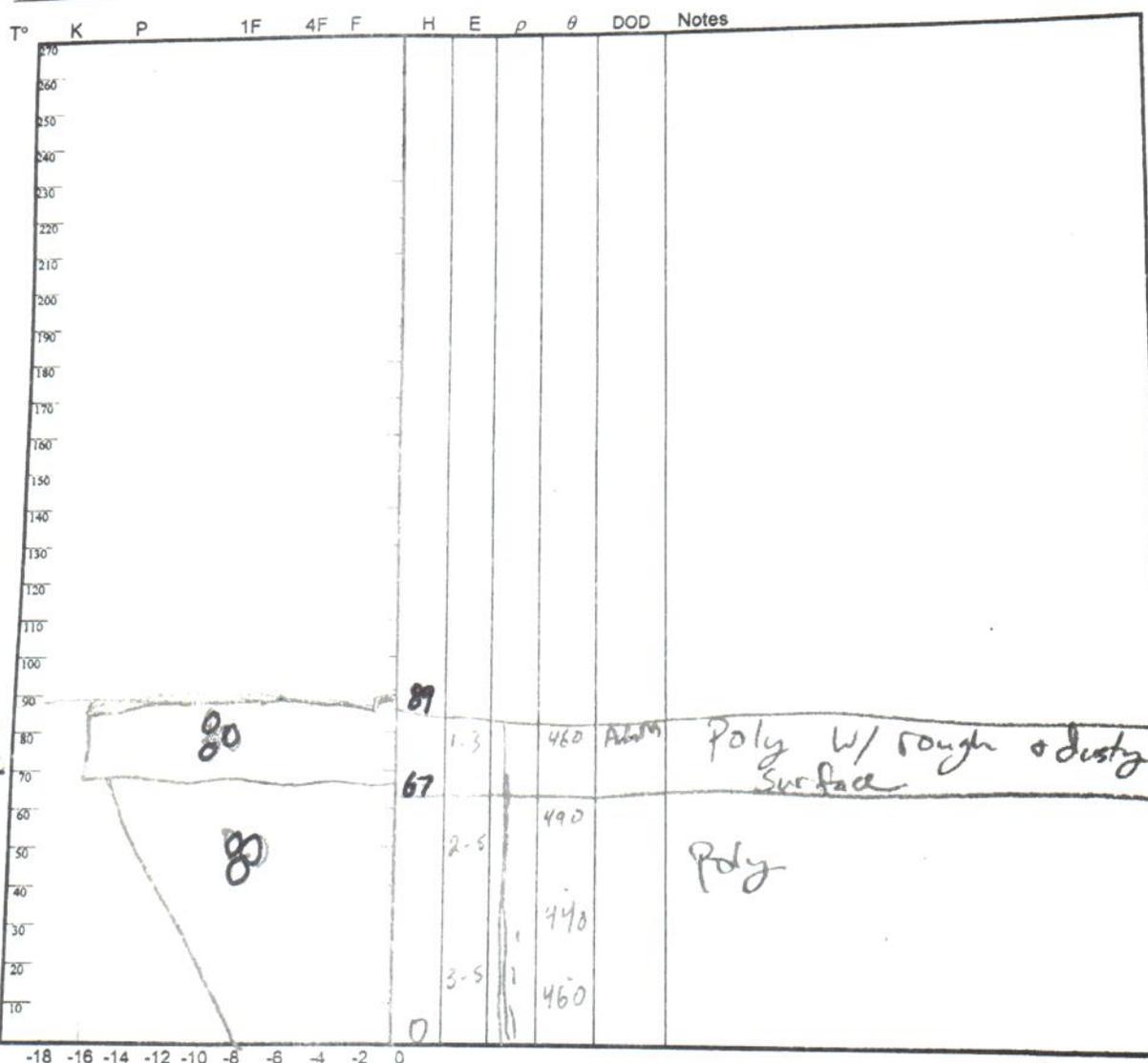
Wind: LT

Prior Pit # 15; 5/26/2017

Total Snowpack SWE: 465 mm H<sub>2</sub>O

HS Norm: 0.91 m Mean ρ: 510 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



All 0.0°C  
↓

4  
SWE

104  
 85  
 81  
 82  
 113  
 465

Notes:

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Observers: JD

Center for Snow and Avalanche Studies

Profile # 17

Time: 1300

Snowpack Profile

Date: 6/6/2017

Location: SASP

Elev. 11,100'

Aspect: ESE

Boot Pen: 3-4 cm

$\angle$ : 3 °

Air T: 12 °C Sky: ☉

Precip: slight

Wind: calm

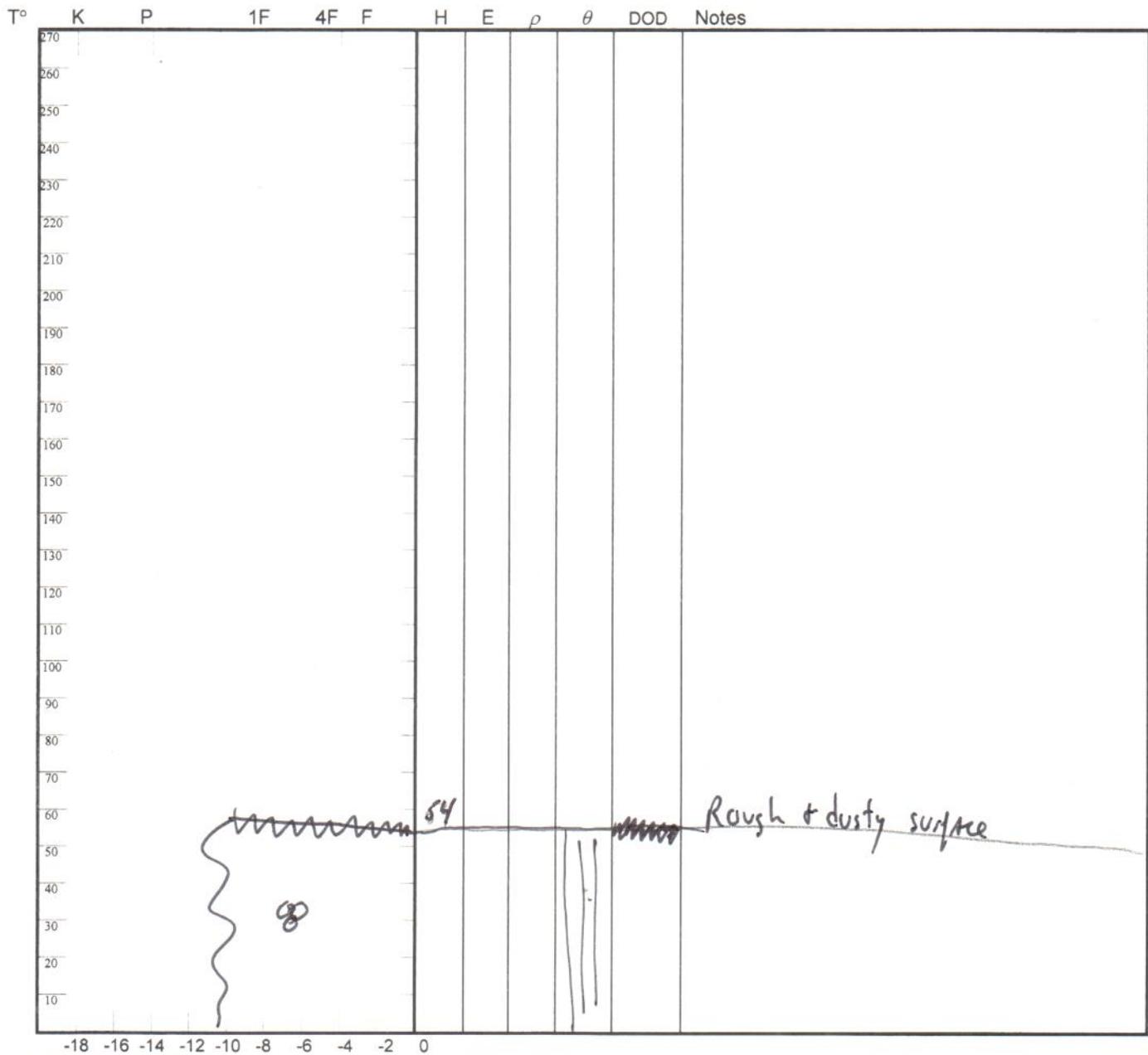
Prior Pit: # 16; 5/31/2017

Total Snowpack SWE: 291 mm H<sub>2</sub>O

HS Norm: 0.55 m

Mean  $\rho$ : 529 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



SWE  
 89  
 102  
 100  
 291

Notes:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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Observers: PS+AT

Center for Snow and Avalanche Studies

Profile # 3

Time: 1120

Snowpack Profile

Date: 4/6/17

Location: SBSP

Elev. 12200

Aspect: NE

Boot Pen: 24 cm

∠: 3°

Air T: 9 °C

Sky: ☉

Precip: NO

Wind: LT

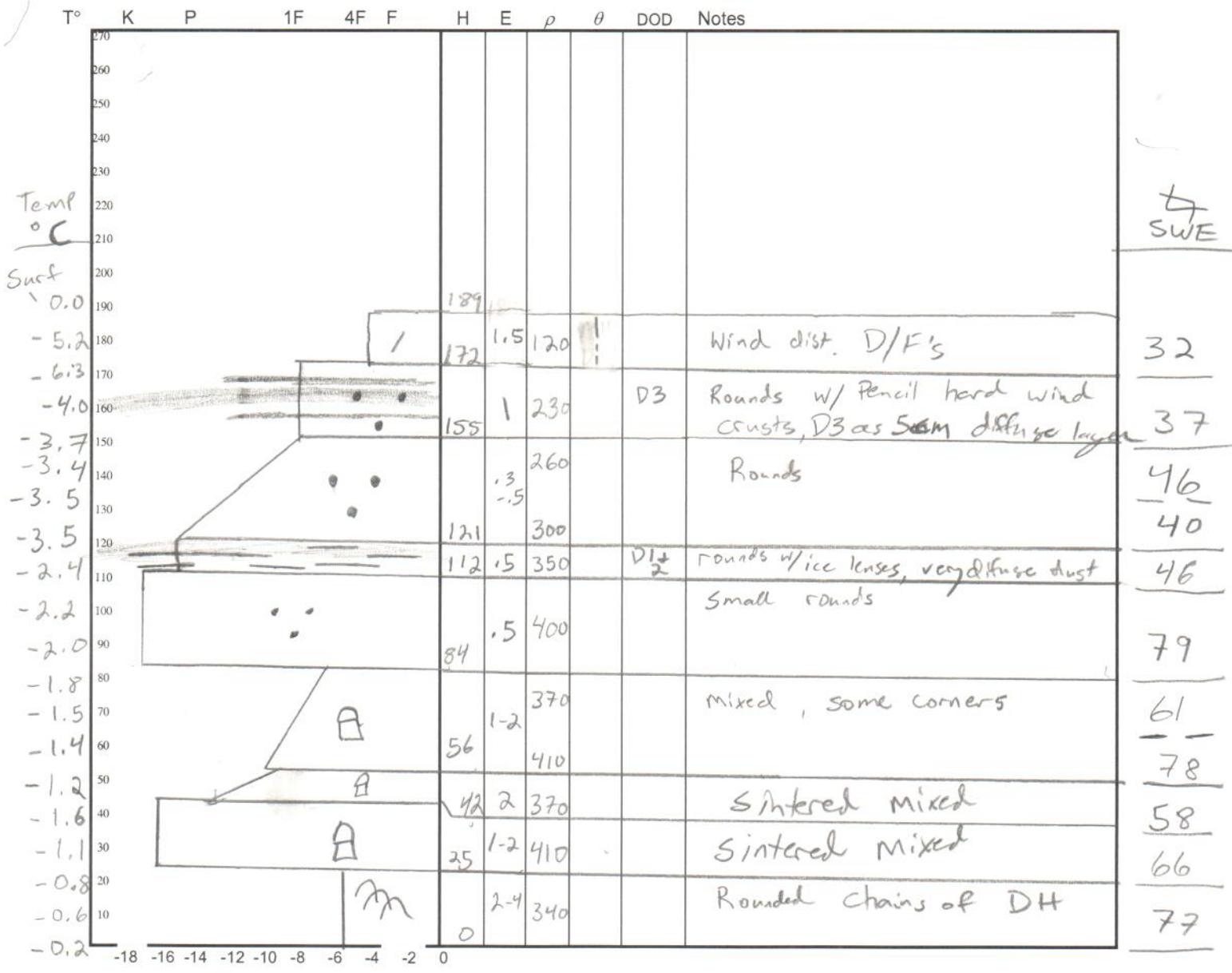
Prior Pit: # 2; 1 1

Total Snowpack SWE: 620 mm H<sub>2</sub>O

HS Norm: 1.88 m

Mean ρ: 329.8 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



Notes:

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Observers: AT + PS

Center for Snow and Avalanche Studies

Profile # 4

Time: 1050

Snowpack Profile

Date: 4/23/17

Location: SBSP

Elev. 2100

Aspect: NE

Boot Pen: 1 cm

∠:     °

Air T: >0 °C

Sky: ☉

Precip: NO

Wind: LT

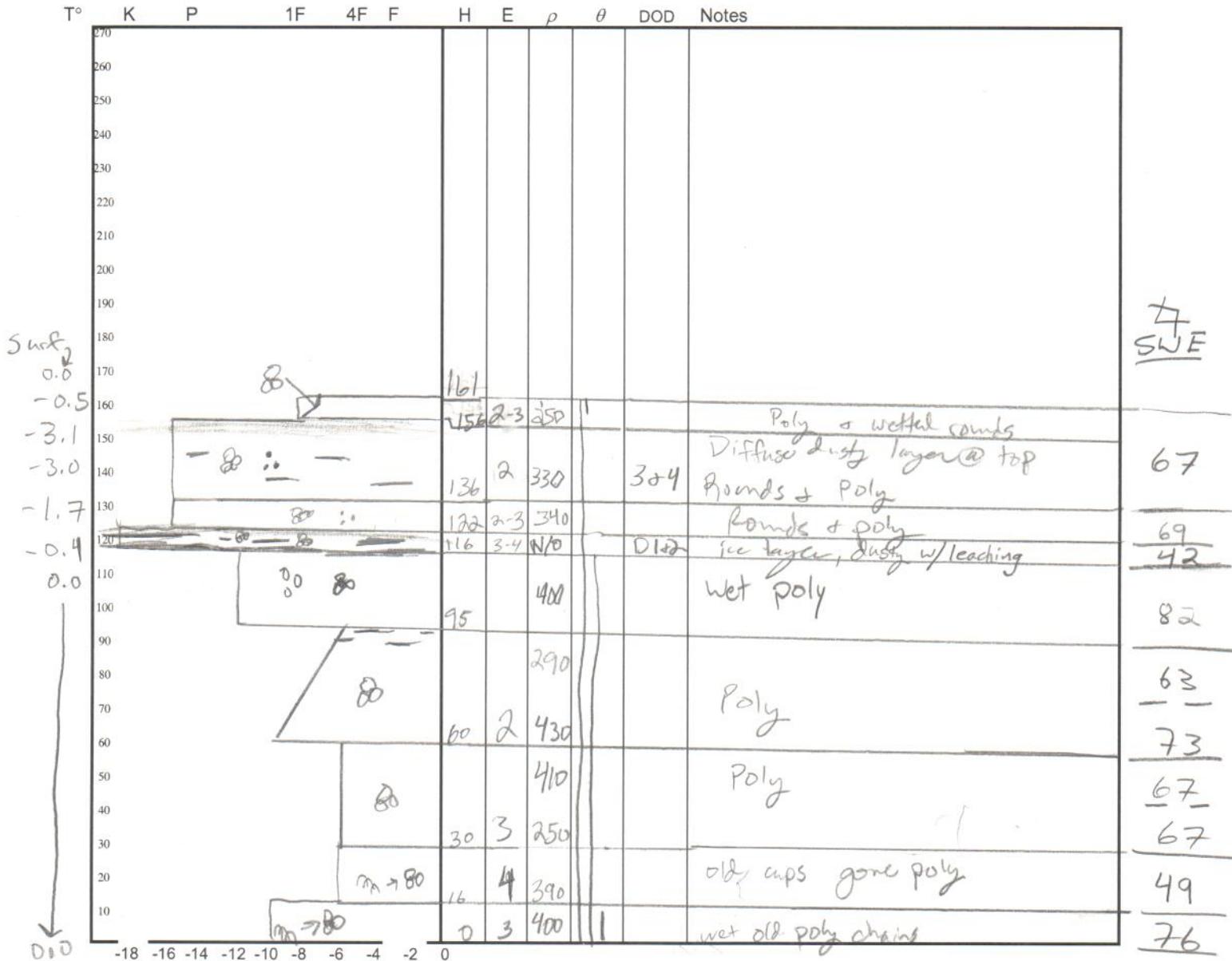
Prior Pit: # 3; 4/6/17

Total Snowpack SWE: 655 mm H<sub>2</sub>O

HS Norm: 1.63 m

Mean ρ: 401.8 kg/m<sup>3</sup>

Notes:     



Notes:

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Observers: gd/ps

Center for Snow and Avalanche Studies

Profile # 5

Time: 1100

Snowpack Profile

Date: 5/4/2017

Location: SBSP

Elev. 12,060 Aspect: NE

Boot Pen: 10 cm  $\angle$ : 6 °

Air T: +10 °C Sky: 0

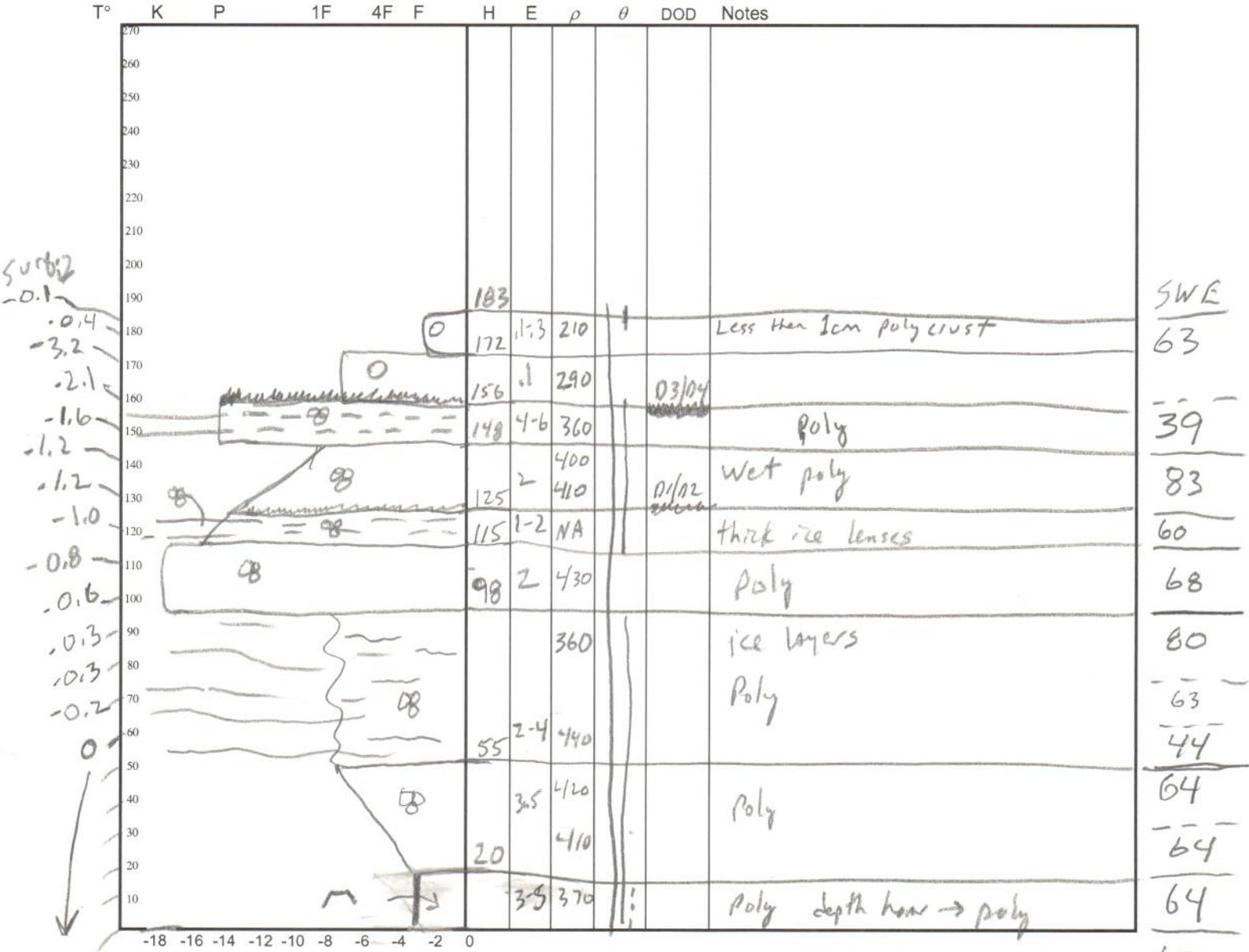
Precip: Nil Wind: mild

Prior Pit: # 4; 4/23/2017

Total Snowpack SWE: 692 mm H<sub>2</sub>O

HS Norm: 1.79 m Mean  $\rho$ : 387 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



SWE  
63  
39  
83  
60  
68  
80  
63  
44  
64  
64  
64  
692

Notes:  
 D13-D14 = under surface by  $\rightarrow$  27 cm. At SBSP  
 D3/04 visible on North aspects + wind scoured areas

Observers: go/AT

Center for Snow and Avalanche Studies.

Profile # 6

Time: 1020

Snowpack Profile

Date: 5/20/2017

Location: SBSP

Elev. 12,060' Aspect: NE

Boot Pen: 16 cm  $\angle$ : 6 °

Air T: 0 °C

Sky: ⊕

Precip: Nil

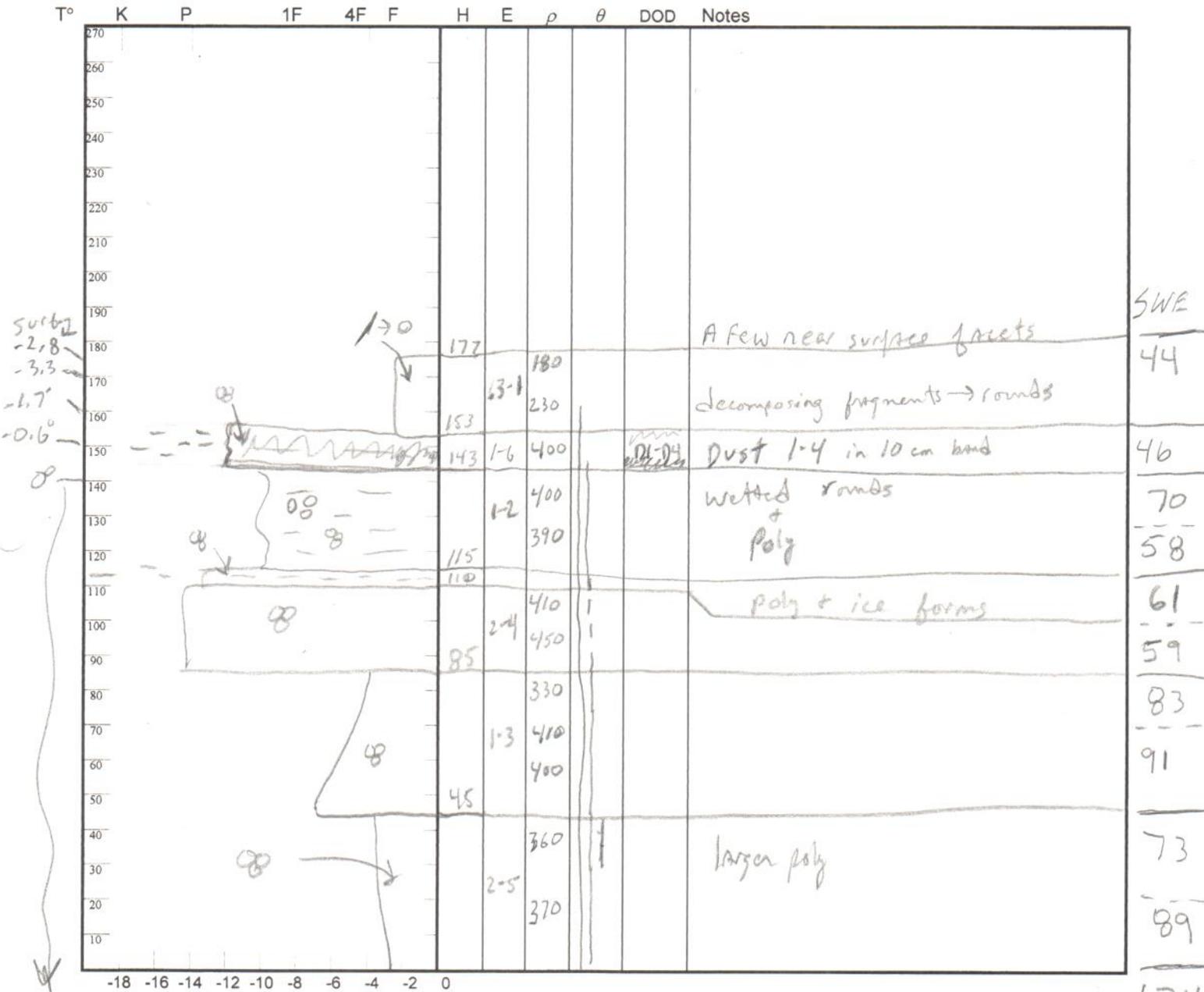
Wind: CALM

Prior Pit: # 5; 514/2017

Total Snowpack SWE: 674 mm H<sub>2</sub>O

HS Norm: 1.77 m Mean  $\rho$ : 380 kg/m<sup>3</sup>

Notes: \_\_\_\_\_



SWE  
44  
46  
70  
58  
61  
59  
83  
91  
73  
89  
674

Notes:  
Dust events D1-D4 are located 24cm beneath surface in a 10cm band.