

VS-101

VENT STACK

NPS 8 x 25 FT ABOVE GRADE, HELICAL STRAKES ON TOP 8 FT
(PRO-CAL-008)
SPEC S1: CLASS 150 304L / 316L SS, MIN. DESIGN -150 F
OPEN VERTICAL DISCHARGE, NO RAIN CAP FLAPPER

HEADER 1070

STATION VENT HEADER

8"-V-1070-S1, CLASS 150 STAINLESS
OPEN TO ATMOSPHERE THROUGH VS-101, NO BLOCK VALVES
SLOPE 1:200 MIN. CONTINUOUS TO VS-101

NOTES

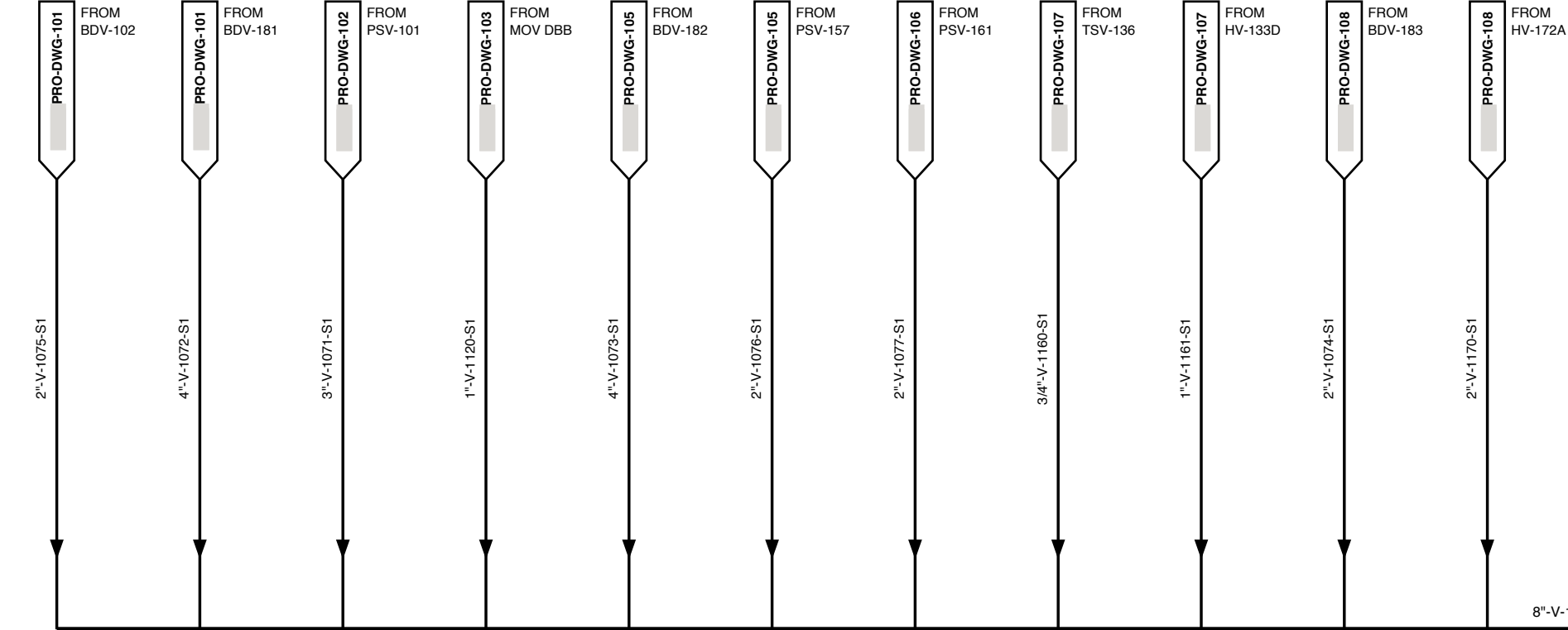
- HEADER 1070, VS-101 AND ALL BRANCHES DOWNSTREAM OF THEIR PSV / TSV OR RO ARE SPEC S1: CLASS 150 304/304L OR 316/316L STAINLESS, MIN. DESIGN -150 F. GAS DOWNSTREAM OF THE ROS REACHES -121 F. A6 / S1 SPEC BREAKS ARE AT THE RO AND PSV OUTLETS ON THE SOURCE SHEETS. NO BLOCK VALVES IN THE HEADER OR STACK.
- BRANCHES CONNECT TO THE TOP OF THE HEADER (45 DEG LATERAL WHERE PRACTICAL). HEADER SELF-DRAINS TO THE VS-101 BASE; NO POCKETS.
- VS-101 NPS 8 x 25 FT WITH HELICAL STRAKES ON THE TOP 8 FT, CONFIRMED BY PRO-CAL-008. LOCATION PER PLOT PLAN MEC-DWG-001.
- BLOW DOWN ONE SECTION AT A TIME (O&M PROCEDURE REQUIREMENT). SIMULTANEOUS BLOWDOWN OF SECTIONS WOULD NEED A 43 FT STACK. BLOWDOWNS ARE MANUAL AFTER AN ESD; NO AUTOMATIC BLOWDOWN (BASIS 9.3).
- NO SNUFFING STEAM. A 1 IN PLUGGED CONNECTION AT THE STACK BASE ALLOWS NITROGEN PURGE OR PORTABLE SNUFFING OF A LIGHTNING-IGNITED VENT.
- STACK BASE DRAIN HV-180A (2 IN, NC, PLUGGED) DRAINS RAINWATER / CONDENSATE INTO A PORTABLE COLLECTION PAN, EMPTIED BY VACUUM TRUCK. THERE IS NO DRAIN LINE TO T-101 (LINE 1180 DELETED).
- LINES 1072 AND 1073 ARE NPS 4; PSV-161 DISCHARGES THROUGH NEW LINE 2"-V-1077-S1 (REPLACES 1150). BACKPRESSURE PER PRO-CAL-007.

D

C

B

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BRANCHES ENTER TOP OF HEADER (NOTE 2)
SLOPE 1:200 TO VS-101

CAUTION: BLOW DOWN ONE SECTION AT A TIME (NOTE 4).
VS-101 IS SIZED FOR ONE BLOWDOWN SOURCE; SIMULTANEOUS BLOWDOWN
NEEDS A 43 FT STACK.

VENT HEADER BRANCH SCHEDULE

LINE	SOURCE	SERVICE	FROM DWG
2"-V-1075-S1	BDV-102	PR-101 BARREL VENT (RO-102)	PRO-DWG-101
4"-V-1072-S1	BDV-181	INLET SECTION BLOWDOWN (RO-181)	PRO-DWG-101
3"-V-1071-S1	PSV-101	V-101 RELIEF, FIRE CASE, SET 1,440 PSIG	PRO-DWG-102
1"-V-1120-S1	MOV DBB	METER SKID DBB BODY BLEEDS	PRO-DWG-103
4"-V-1073-S1	BDV-182	METER / HEATER SECTION BLOWDOWN (RO-182)	PRO-DWG-105
2"-V-1076-S1	PSV-157	H-101 COIL RELIEF, SET 1,440 PSIG	PRO-DWG-105
2"-V-1077-S1	PSV-161	FUEL GAS RELIEF, SET 250 PSIG	PRO-DWG-106
3/4"-V-1160-S1	TSV-136	THERMAL RELIEF SDV-102 / SDV-103	PRO-DWG-107
1"-V-1161-S1	HV-133D	LINE 1033 MAINTENANCE VENT	PRO-DWG-107
2"-V-1074-S1	BDV-183	OUTLET SECTION BLOWDOWN (RO-183)	PRO-DWG-108
2"-V-1170-S1	HV-172A	OUTLET LATERAL BLOWDOWN (RO-172B)	PRO-DWG-108

NOTES / REFERENCES

REF: PRO-DWG-100 SH 1-2 (LEGEND)
REF: GEN-DB-001 SECTIONS 8, 9.3, 10
REF: PRO-CAL-008 BLOWDOWN AND VENT STACK
REF:

REVISIONS

REV	DATE	DESCRIPTION	BY	CHK	APP
A	2026-09-29	ISSUED FOR REVIEW (IFR)			

PRELIMINARY - ISSUED FOR REVIEW - NOT FOR CONSTRUCTION

ENGINEER OF RECORD SEAL

NOT SEALED
PRELIMINARY

PE NO. _____

PROJECT

120 MMSCFD RECEIPT INTO
COUNTY,
DISCIPLINE: PROCESS
SCALE: NTS

P&ID VENT AND BLOWDOWN

VENT HEADER 1070 AND VENT STACK VS-101
DRAWN: ____ CHECKED: ____ APPROVED: ____
DWG NO. PRO-DWG-109
SHEET 1 OF 1 REV A