

# GENERAL NOTES

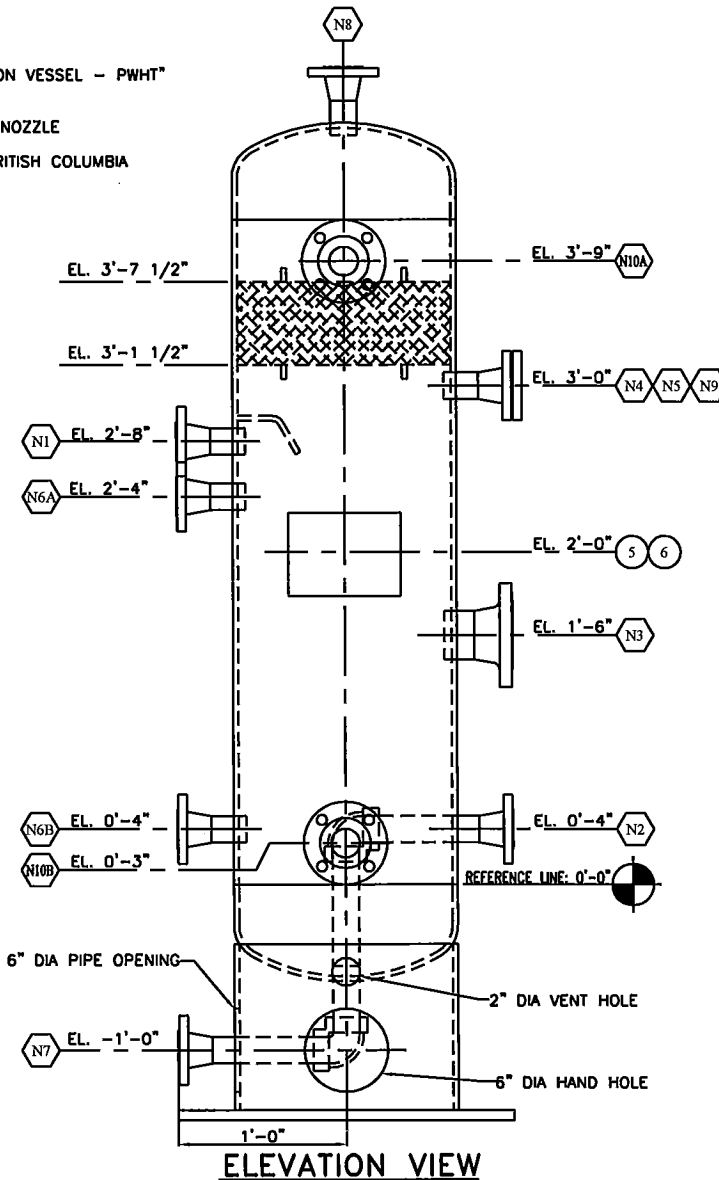
1. QUALITY CONTROL PROGRAM NUMBER: AQP-1317(S)
2. WELDING PROCEDURE REGISTRATION NUMBER: WP1970.2
3. ULTRASONIC TESTING: ALL CAT "D" WELDS PRIOR TO PWHT
4. MPI: INTERNAL CAT "D" FILLETS PRIOR TO PWHT ONLY  
& EXTERNAL CAT "D" FILLETS BEFORE AND AFTER PWHT
5. RT: 100% BEFORE AND AFTER PWHT
6. HARDNESS TEST: 210 HV MAX  
-5 POINT TRAVERSE ON LONG SEAM, (1) CIRC SEAM &  
(1) TEST EACH ON 10% OF NOZZLE CAT "C" & "D" WELDS
7. PWHT: ACCORDING TO UCS-56  
HEAT FROM AMBIENT TO 800°F AT A MODERATE RATE  
HEAT FROM 800°F TO 1150°F AT 400°F/Hr MAX  
SOAK AT 1150°F FOR 60 MIN  
COOL TO 800°F AT 500°F/Hr MAX  
FROM 800°F AIR COOL IN FURNACE
8. EXTERNAL SANDBLAST: SSPC-SP6 (COMMERCIAL)
9. EXTERNAL FINISH:  
PRIME: ONE COAT OF PRIMER  
FINISH: ONE COATS OF INDUSTRIAL ENAMEL (GREY)  
-PAINT IN VISIBLE AREA 3" HIGH LETTERS "DO NOT WELD ON VESSEL - PWHT"
10. ALL BOLT HOLES TO STRADDLE CENTERLINE
11. ALL OPENINGS TO BE COVERED PRIOR TO SHIPPING
12. ALL OUTSIDE PROJECTIONS MEASURED ALONG CENTERLINE OF NOZZLE
13. FABRICATION TOLERANCE AS PER BWML DWG: TOL2002
14. VESSEL TO BE REGISTERED IN ALBERTA, SASKATCHEWAN, & BRITISH COLUMBIA
15. VESSEL TO BE SUPPLIED WITH U-STAMP
16. VESSEL SERIAL NUMBER: 15233

# NOZZLE SCHEDULE

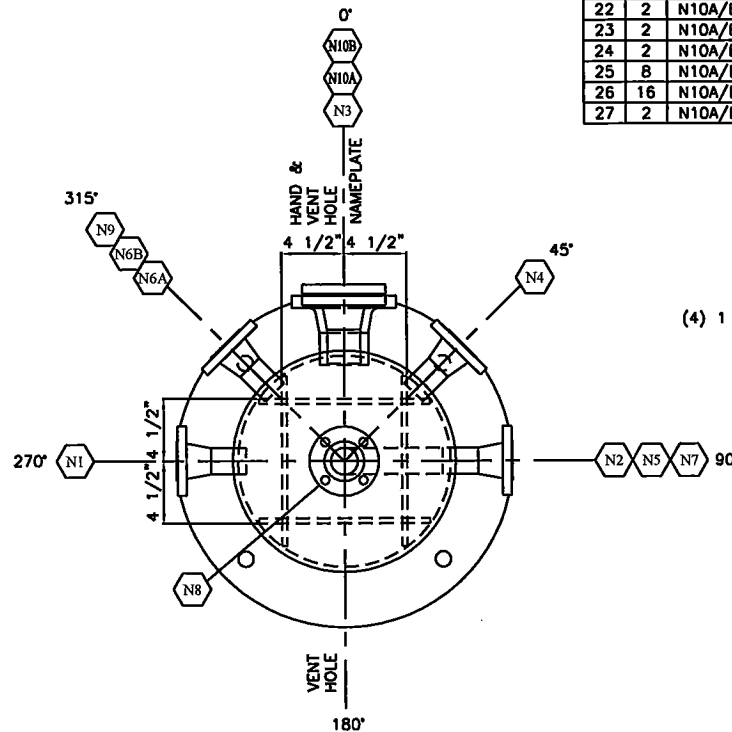
MARK	QTY	DESCRIPTION	NPS	CLASS	TYPE	PROJECTION		WELD	WELD		REPAD	BILL OF MATERIALS	
						INSIDE	OUTSIDE		A	B		ITEM NUMBER	
N1	1	INLET	1 1/2"	150	RFWN	1/2"	4"	1	1/4"	-	-	9,10,11	
N2	1	GLYCOL OUTLET	1 1/2"	150	RFWN	1/2"	4"	1	1/4"	-	-	9,12,13,14	
N3	1	LEVEL CONTROL	3"	150	RFWN	1/2"	4"	1	1/4"	-	-	15,16	
N4	1	PSV	1 1/2"	150	RFWN	1/2"	4"	1	1/4"	-	-	9,10	
N5	1	PI	1 1/2"	150	RFWN	1/2"	4"	1	1/4"	-	-	9,10,17,18,19,20	
N6A/B	2	LG	1 1/2"	150	RFWN	1/2"	4"	1	1/4"	-	-	9,10	
N7	1	DRAIN	1 1/2"	150	RFWN	FLUSH	SHOWN	1	1/4"	-	-	9,12,14,21	
N8	1	GAS OUTLET	1 1/2"	150	RFWN	1/2"	4"	1	1/4"	-	-	9,10	
N9	1	TI	1 1/2"	150	RFWN	1/2"	4"	1	1/4"	-	-	9,10	
N10A/B	2	INSPECTION	2"	150	RFWN	1/2"	4"	1	1/4"	-	-	22,23,24,25,26,27	

# BILL OF MATERIALS

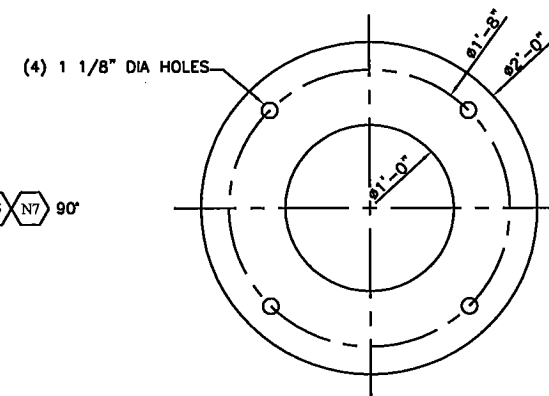
ITEM	QTY	REF.	PART No.	DESCRIPTION	MATERIAL	WEIGHT
1	2	HEAD	1-006800	16" x SCH STD (0.329" MIN) BW PIPE CAP	SA-234-WPB	84#
2	1	SHELL	1-003395	16" PIPE SCH STD x 4'-0" LG (BBE)	SA-106-B	283#
3	1	SKIRT	1-003395	16" PIPE SCH STD x 1'-0" LG (CBE)	SA-106-B	70#
4	1	BASERING	2-001067	3/4" THK x 24" OD x 12" ID c/w HOLES (SEE DETAIL)	SA-36	70#
5	1	NAMEPLATE	2-000219	6" x 8" NAMEPLATE BRACKET	SA-36	2#
6	1	NAMEPLATE	1-001701	6" x 8" ALUMINUM NAMEPLATE	ALUMINUM	-
7	1	MISTEX	1-008797	15 1/4" OD PETROMESH 5330 5/10.8/8/ 2 PIECE MISTEX PAD	316SS	-
8	4	MISTEX	1-003925	3/8" THK x 1" FLATBAR x 12 1/4" LG	SA-240-316L	5#
9	9	N1,N2,N3,N4,N5,N6,N7,N8,N9	1-008798	1 1/2" x CLASS 150 RFWN FLG SCH XXH	SA-105-N	36#
10	7	N1,N2,N3,N4,N5,N6,N7,N8,N9	1-003355	1 1/2" PIPE SCH XXH x 2 1/2" LG (BOE,ROE)	SA-106-B	4#
11	1	N1	2-001068	3/8" THK x 3/4"-2" INLET DEFLECTOR	SA-516-70N	3#
12	2	N2,N7	1-003355	1 1/2" PIPE SCH XXH x 7 3/4" LG (BOE,COE)	SA-106-B	3#
13	1	N2	1-003355	1 1/2" PIPE SCH XXH x 8" LG (CBE)	SA-106-B	1#
14	2	N2,N7	1-008863	1 1/2" x CLASS 6000 SW 90° ELBOW	SA-105-N	2#
15	1	N3	1-000898	3" x CLASS 150 RFWN FLG SCH XH	SA-105-N	10#
16	1	N3	1-003364	3" PIPE SCH XH x 2 1/4" LG (BOE,ROE)	SA-106-B	1#
17	1	N5	1-008799	1 1/2" x CLASS 150 RF HUB BLIND, TAPPED TO 3/4" NPT	SA-105-N	4#
18	4	N5	1-003958	1/2" DIA X 2 3/4" LG STUDS	SA-193-B7M	-
19	8	N5	1-001865	1/2" DIA NUTS	SA-194-2HM	-
20	1	N5	1-003957	1 1/2" x CLASS 150 RF GRAPHITE FILLED "CG" FLEX GASKET B16.20	316SS	-
21	1	N7	1-003355	1 1/2" PIPE SCH XXH x 3 1/2" LG (CBE)	SA-106-B	1#
22	2	N10A/B	1-000882	2" x CLASS 150 RFWN FLG SCH 160	SA-105-N	6#
23	2	N10A/B	1-003359	2" PIPE SCH 160 x 2 1/2" LG (BOE,ROE)	SA-106-B	1#
24	2	N10A/B	1-001292	2" x CLASS 150 RF GRAPHITE FILLED "CG" FLEX GASKET B16.20	316SS	-
25	8	N10A/B	1-002627	5/8" DIA X 3 1/2" LG STUDS	SA-193-B7M	-
26	16	N10A/B	1-001868	5/8" DIA NUTS	SA-194-2HM	-
27	2	N10A/B	1-000869	2" x CLASS 150 RF BLIND FLG	SA-105-N	8#



ELEVATION VIEW



ORIENTATION VIEW



BASERING DETAIL

WELD DETAIL NUMBER	REGISTERED WELDING PROCEDURE NUMBER			BACKWELD/GOUGE
	ROOT	HOT PASS	FILL & CAP	
1,2,5	BWM-5 (GMAW)	BWM-14 (SMAW)	BWM-14 (SMAW)	N/A
3	BWM-5 (GMAW)	BWM-6 (SAW)	BWM-6 (SAW)	N/A
6	BWM-12 (GMAW)	BWM-12 (GMAW)	BWM-12 (GMAW)	N/A

1	2	3	4	5	6
WELD NECK FLANGE	NOZZLE NECK	CIRC SEAM	ATTACHMENTS	SKIRT	SS ATTACHMENTS

REV. NO.	DATE	REVISION	BY	APP'D
A	06/25/09	ISSUED FOR APPROVAL	JAH	
B	07/02/09	REVISED AS PER CLIENT MARK-UPS	JAH	
0	07/08/09	ISSUED FOR FABRICATION	JAH	JAM
1	09/23/09	AS BUILT	JAH	

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**DESIGN SPECIFICATIONS**

DESIGN & FABRICATE TO: 2007 ASME BOILER & PRESSURE VESSEL CODE, SEC VIII, DIV 1

DESIGN PRESSURE & TEMPERATURE: 150 PSI [1034kPa] @ 130°F [54°C]

MINIMUM DESIGN METAL TEMP: -20°F [-29°C] @ 150 PSI [1034 kPa]

IMPACT TESTS: EXEMPT AS PER UG-20(f)(1-5)

RADIOGRAPHY: 100% AS PER UW-11(a)

POST WELD HEAT TREATMENT: YES AS PER UCS-56

HYDROSTATIC TEST PRESSURE: 1.5 x MAWP [150 PSI] PREHEAT: 50°F [10°C]

CORROSION ALLOWANCE: 1/8" [3.2mm] MAWP: 150 PSI [1034kPa] @ 130°F [54°C]

HEAD THK. MIN.: 0.3290" [8.356mm] VOLUME: 6.12 Ft3 [0.173 m3]

WEIGHT EMPTY: 500 LBS [227 kg] WEIGHT FULL: 880 LBS [400kg]

**HUSKY OIL OPERATIONS**

GLYCOL FLASH VESSEL - V-320  
16" OD x 4'-0" S/S - 150 PSI MAWP

DATE: 06/02/09 SALE ORDER: 001484

SHEET: 1 OF 1 JOB ORDER: D1033

DRAWN BY: JAH PURCHASE ORDER: 08146-007

LOCATION: b-49-C/93-P-12 DRAWING NO.: C840-1

CRN DWG: BWM-269-09 RD APP'D: JAM REV. 1

CRN NUMBER: U9461.2

CERTIFIED  
AS BUILT