

1. QUALITY CONTROL PROGRAM NUMBER: AQP-1317
2. WELDING PROCEDURE REGISTRATION NUMBER: WP1970.2
3. SHELL AND HEAD MATERIAL: SA-516-70N
4. FLANGE MATERIAL: SA-105-N
5. PIPE MATERIAL: SA-106-B
6. PLATE MATERIAL: SA-36
7. BOLTING MATERIAL: SA-193-B7M/SA-194-2HM
8. EXTERNAL SANDBLAST: SSPC-SP6 (COMMERCIAL)
9. EXTERNAL COATING: ONE COAT ZINC PRIMER
TWO COATS BLACK MATTE
0. CATADYNE HEATER IS c/w REGULATOR, TEMP CONTROLLER, HOSE, &
CABLE FOR 12-VOLT PROPANE, CLASS 1, DIV 1
1. OPENINGS N5,N7 SHALL BE FLUSH WITH THE INSIDE OF VESSEL
2. ALL BOLT HOLES TO STRADDLE CENTERLINE
3. ALL OPENINGS TO BE COVERED PRIOR TO SHIPPING
4. ALL OUTSIDE PROJECTIONS ARE TO BE MEASURED ALONG THE CENTERLINE
OF THE NOZZLE
5. ALL INSIDE PROJECTIONS ARE TO BE MEASURED ON THE SHORT SIDE OF
THE NOZZLE
6. DIMENSIONS ARE CERTIFIED WITHIN TOLERANCE $\pm 1/8"$
7. 3" THK SPRAY FOAM INSULATION UNDERSIDE OF SKID
8. SERIAL NUMBER: 12928

MARK	NO. REQ'D	DESCRIPTION	SIZE	ANSI	TYPE	PROJECTION		WELD DETAIL	WELD		REPAD		BILL OF MATERIALS ITEM NUMBER
						INSIDE	OUTSIDE		A	B	C	D	
N1	1	INLET/OUTLET	6"	150#	RFWN	2"	4"	1,4	1/4	3/16	—	—	9,10,11,12,13
N2	1	INLET/OUTLET	6"	150#	RFWN	2"	4"	1,4	1/4	3/16	—	—	9,10,11,12,13
N3	1	GAUGE	4"	150#	RFWN	SHOWN	3/8 1/4"	1,4	1/4	3/16	—	—	14,15,16,17,18
N4A/B	2	LEVEL GAUGE	2"	150#	RFWN	2"	8 1/2"	1,4	1/4	1/4	—	—	18,19,20,21,22,23,24,2
N5	1	TRUCKOUT	3"	150#	RFSO	FLUSH	5"	2,5	3/16	—	—	—	17,18,26–37
N6	1	VAPOR	3"	150#	RFWN	2"	8 1/2"	1,2,4	3/16	3/16	—	—	17,18,26–33,38–42
N7	1	SPARE	6"	150#	RFSO	FLUSH	5"	2,5	1/4	—	—	—	43,44,45,46,47,48
C1	1	SUCKOUT	1/2"	3000#	TOL	—	—	3	3/8	—	—	—	49,50,51,52,53
C2A/B	2	PURGE GAS	1"	3000#	SOL	—	—	3	3/8	—	—	—	54
M1	1	MANWAY	24"	150#	RFSO	2"	8 1/2"	2,4	5/8	1/2	—	—	55,56,57,58,59,60,61

ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	WEIGHT
1	1	SHELL	3/8" THK x 120" W ROLL TO 72" ID x 19'-0 1/2" LG	SA-516-70N	2900#
2	2	HEAD	3/8" THK (0.3130" MIN) x 72" ID 2:1 S.E.	SA-516-70N	1191#
3	2	SADDLE	60 BBL SADDLE (SEE DWG A662-2 FOR DETAIL)	-	660#
4	1	SKID	SKID (SEE DWG A662-2 FOR DETAIL)	-	2200#
6	2	HEATER	12" x 24" CATADYNE HTR 12 VOLT PROPANE	-	-
7	2	HEATER	GALV. VENT FOR AIR OUTLET	-	-
9	2	N1,N2	6" x 150# RFWN FLG SCH XH	SA-105-N	48#
10	2	N1,N2	6" x 150# FLG PROTECTOR	POLY	-
11	2	N1,N2	6" x 90" SR BW ELBOW SCH XH	SA-234-WPB	54#
12	2	N1,N2	6" PIPE SCH XH x 6 1/2" LG	SA-106-B	28#
13	2	N1,N2	6" PIPE SCH XH x 3'-3 1/2" LG	SA-106-B	126#
14	1	N3	4" x 150# RFWN FLG SCH XH	SA-105-N	15#
15	1	N3	4" x 150# RF BLIND FLG	SA-105-N	-
16	1	N3	4" PIPE SCH XH x 8' 5 5/8" LG (SEE DOWNCOMER DWG)	SA-106-B	96#
17	28	N3,N5,N6	5/8" DIA x 3 1/2" LG STUD	SA-193-B7M	-
18	72	N3,4,5,6	5/8" DIA NUT	SA-194-2HM	-
19	2	N4A/B	2" x 150# RFWN FLG SCH 160	SA-105-N	12#
20	2	N4A/B	2" x 150# RF BLIND FLG TAPPED TO 3/4"	SA-105-N	10#
21	2	N4A/B	2" x 150# RF FLEXITALIC GASKET	304SS	-
22	1	N4A/B	60" PENBERTHY FLAT GLASS GAUGE c/w GAUGE VALVES	-	-
23	8	N4A/B	5/8" DIA x 3" LG STUD	SA-193-B7M	-
24	1	N4A	2" PIPE SCH 160 x 8 3/8" LG	SA-106-B	7#
25	1	N4B	2" PIPE SCH 160 x 9 5/16" LG	SA-106-B	9#
26	4	N5,N6	3" x 150# RFSO FLG	SA-105-N	48#
27	6	N5,N6	3" x 150# RF FLEXITALIC GASKET	304SS	-
28	5	N5,N6	3" x 90" LR BW ELBOW SCH XH	SA-234-WPB	18#
29	2	N5,N6	SPOOL BRACE (SEE DRAIN PIPE SPOOL BRACE DWG)	SA-36	-
30	2	N5,N6	3" x 150# RFTO FLG	SA-105-N	18#
31	2	N5,N6	3" x 150# RF RP NACE TY BALL VALVE	SA-105-N	-
32	2	N5,N6	3" MALE/MALE CAMLOCK c/w CAP	-	-
33	1	N5,N6	24 x 36 CONTAINMENT TRAY	SA-36	-
34	1	N5	3" PIPE SCH XH x 2'-2 1/2" LG	SA-106-B	24#
35	1	N5	3" x 8" LG NIPPLE SCH XH	SA-106-B	7#
36	1	N5	3" PIPE SCH XH x 5" LG	SA-106-B	3#
37	1	N5	VORTEX BREAKER	SA-36	3#
38	2	N6	3" x 150# RFWN FLG SCH XH	SA-105-N	30#
39	1	N6	3" PIPE SCH XH x 8 3/16" LG	SA-106-B	9#
40	1	N6	3" PIPE SCH XH x 2'-7 1/8" LG	SA-106-B	25#
41	1	N6	3" PIPE SCH XH x 7'-5 1/2" LG	SA-106-B	86#
42	1	N6	3" PIPE SCH XH x 3" LG (TOE)	SA-106-B	3#
43	1	N7	6" PIPE SCH XH x 5" LG	SA-106-B	8#
44	1	N7	6" x 150# RF BLIND FLG	SA-105-N	26#
45	1	N7	6" x 150# RFSO FLG	SA-105-N	20#
46	1	N7	6" x 150# RF FLEXITALIC GASKET	304SS	-
47	8	N7	3/4" DIA x 4" LG STUD	SA-193-B7M	-
48	16	N7	3/4" DIA NUT	SA-194-2HM	-
49	1	C1	1/2" x 3000# TOL	SA-105-N	1#
50	2	C1	1/2" x CLOSE NIPPLE SCH XH	SA-106-B	1#
51	1	C1	1/2" x 2000# 90° THRD ELBOW	SA-105-N	1#
52	1	C1	1/2" PIPE SCH XH x 10" LG TOE	SA-106-B	1#
53	1	C1	1/2" x 2000# THRD BALL VALVE	SA-105-N	-
54	2	C2	1" x 3000# SOL	SA-105-N	1#
55	1	M1	24" x 150# RFSO FLG	SA-105-N	220#
56	1	M1	24" x 150# RF BLIND FLG	SA-105-N	430#
57	1	M1	24" x 150# RF FLEXITALIC GASKET	304SS	-
58	1	M1	24" PIPE SCH STD x 12 1/2" LG	SA-106-B	82#
59	1	M1	24" STANDARD DAVIT ARM (SEE 24 DAVIT DWG)	-	37#
60	20	M1	1 1/4" DIA x 6 3/4" LG STUD	SA-193-B7M	-
61	40	M1	1 1/4" DIA NUT	SA-194-2HM	-
62	1	N6	3" x 90" STREET ELBOW	SA-105-N	-



BILTON

BOX 6106
5815 37 Street
INNISFAIR, AB
CANADA
403-227-7799
1-888-227-4923
FAX 227-7796

Welding & Manufacturing Ltd.

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DESIGN & FABRICATE TO: ASME BOILER & PRESSURE VESSEL CODE SEC VIII, DIV 1, 2000 ADDENDA			
DESIGN PRESSURE & TEMPERATURE: 50 PSI @ 100°F			
MINIMUM DESIGN METAL TEMP: -20°F			
IMPACT TESTS: NONE AS PER UG20(f)(1-5)			
RADIOGRAPHY: NONE AS PER UW-11(c)			
POST WELD HEAT TREATMENT: NONE AS PER UCS-56			
HYDROSTATIC TEST PRESSURE: 75 PSI PREHEAT: N/A			
CORROSION ALLOWANCE: 1/8" MAWP: 14.9 PSI			
HEAD THK. MIN.: 0.3130" VOLUME: 340 CuFt, 9.6 CuM			
WEIGHT EMPTY: 9,000 LBS WEIGHT FULL: 30,000 LBS			
BP CANADA ENERGY			
60 BBL ABOVE GROUND SINGLE WALL FLARE KNOCKOUT DRUM 72" ID X 10'-0" S/S 50 PSI DESIGN, 14.9 MAWP (REGISTERED)			
DATE: 06/20/03		SHEET: 1 OF 4	
SCALE: N.T.S.		JOB NO.:	
DRAWN BY: DSG		A662	
PURCHASE ORDER:		SIZE	
LOCATION: 10-07 COMPRESSOR		D	
CRN DWG NO.: BWN-033-01 REV 0		DRAWING NO.:	
CRN NUMBER: 7899.2		A662-1	
APPD:		REV.	
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