

GENERAL NOTES:

- QUALITY CONTROL PROGRAM NUMBER: AQP-1317(S)
- WELDING PROCEDURE REGISTRATION NUMBER: WP1970.2
- HEAD, SHELL & REPAD MATERIAL: SA-516-70N, IMPACTS EXEMPT AS PER TABLE UCS-66 CURVE D
- FLANGE MATERIAL: SA-350-LF2 CL.1, IMPACTS EXEMPT AS PER UCS-66(g)
- PIPE MATERIAL: SA-333-GR6, IMPACTS EXEMPT AS PER UCS-66(g)
- BOLTING MATERIALS: SA-193-B7M / SA-194-2HM, IMPACTS EXEMPT AS PER FIG. UCS-66 NOTE (c)
- PRODUCTION IMPACTS: EXEMPT AS PER UCS-67(9)(3), FILLER QUALIFIED AS IMPACT TESTED AT TEMPERATURE $\leq -49^{\circ}\text{F}$
- ULTRASONIC TESTING: 100% CAT D WELDS PRIOR TO PWHT ONLY
- MAGNETIC PARTICLE TESTING: WFMT OF BACKGOUGES, WFMT OF INTERNAL FILLETS BEFORE & AFTER PWHT, WFMT OF TEMP. ATTACHMENTS
- AIR SOAP LEAKS: WFMT OF BACKGOUGES, WFMT OF INTERNAL FILLETS BEFORE & AFTER PWHT, WFMT OF TEMP. ATTACHMENTS
- PWHT: YES, AS PER UCS-56
- HEAT FROM ROOM TEMPERATURE TO 800°F AT A MODERATE RATE
- HEAT FROM 800°F TO 1150°F $\pm 25^{\circ}\text{F}$ FOR 60 MINUTES
- COOL TO 800°F @ RATE OF 500°F/HR MAX
- HARDNESS TEST: YES, AS PER KDA-0800-MEC-SPC-CB4-0000-00004 REV 6
- HARDNESS TEST - MIC 10, 200 HBW MAX. ONE HARDNESS TEST SHALL BE PERFORMED ON EACH WELD OR EACH 3m(10 FT) OF WELD, WHICHEVER IS MORE FREQUENT.
- ALL WEAR PADS & REPADS TO HAVE 1/4" NPT WEEP HOLE LOCATED AT LOWEST ELEVATION PLUGGED WITH STIFF GREASE.
- EXTERNAL SANDBLAST: SSPC-SP6
- EXTERIOR COATING:
PRIMER: EPOXY PRIMER
TOPCOAT: URETHANE TOPCOAT, QC8315 TAN COLOUR, ON UNINSULATED AREAS ONLY
- INTERNAL SANDBLAST: SSPC-SP5
- INTERNAL COATING: DEVOC 253 AS PER MANUFACTURER'S SPECS: 10 - 18 MILS DFT
- INSULATION: 1-1/2" TAN RIGID URETHANE INSULATION BETWEEN VESSEL SADDLES,
2" MINERAL WOOL C/W S.E.A. CLADDING ON VESSEL
- ALL BOLT HOLES TO STRADDLE CENTERLINE
- ALL OUTSIDE PROJECTIONS ARE TO BE MEASURED ALONG CENTERLINE OF NOZZLE
- ALL INSIDE PROJECTIONS ARE TO BE MEASURED ALONG THE SHORTSIDE OF THE NOZZLE
- FABRICATION TOLERANCES AS PER BW&ML DWG: TOL2002
- VESSEL REGISTRATION: N/A
- VESSEL SERIAL NUMBER: 18061
- AS PER KDA-0800-MEC-SPC-CB4-0000-00004 7.11 POINT 15, DIE STAMPING OF WELDS IS NOT PERMITTED. ONLY LOW STRESS STAMPS USED.
- MARKING/STAMPING SHALL MEET ASME SECTION VIII DIVISION 1 REQUIREMENTS
- MATERIALS ARE NACE MR0175 AS PER CHEVRON SELECT CHEMISTRY (SOUR SERVICE) AND PER AML REQ'T.

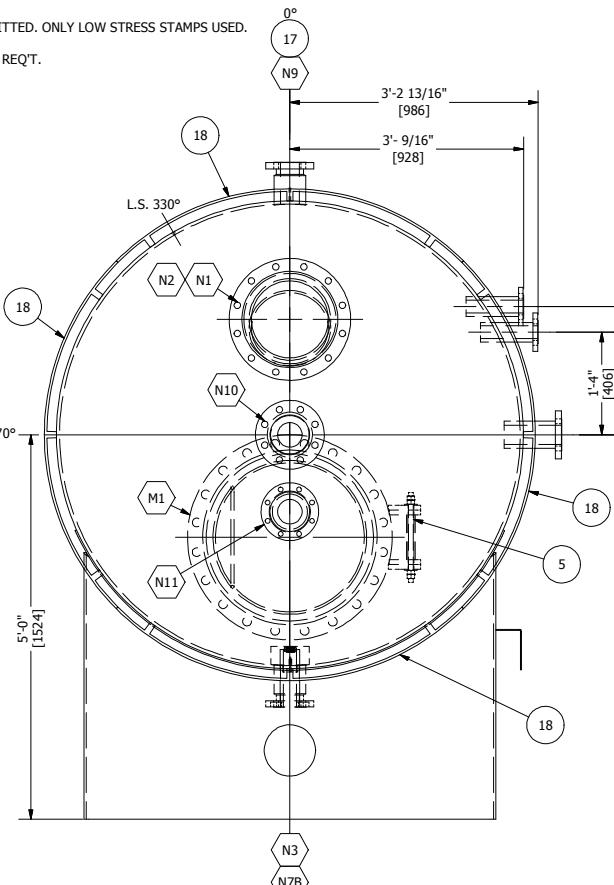
SELECT CHEMISTRY: CHEMISTRY LIMITS (Max. wt %):

VESSEL PLATE PRODUCTS SELECT CHEM:
MUST MEET CHEVRON AML KDA-0300-PUR-LST-CBU-0000-00001 AML REV3
SELECT CHEM: As per KDA-0800-PIP-SPC-CBU-0000-00004 RB1
DILLINGER PLATE SHALL BE PROVIDED FOR HEAD & SHELL MATERIAL
VALUES ARE MAX %

CE = 0.42 MAX, C = 0.23, B = 0.0005, V + Nb = 0.020, P = 0.010, S = 0.003

VESSEL FORGED PRODUCTS SELECT CHEM:
MUST MEET CHEVRON AML KDA-0300-PUR-LST-CBU-0000-00001 AML REV3
SELECT CHEM: As per KDA-0800-PIP-SPC-CBU-0000-00004 RB1
MUST MEET NACE MR0175/ISO 15156 VALUES ARE MAX%
CE = 0.43, C = 0.23, B = 0.0005
V max = See Table 2 of KDA-0800-PIP-SPC-CBU-0000-00004 RB1
Nb max = See Table 2 of KDA-0800-PIP-SPC-CBU-0000-00004 RB1
P = 0.020, S = 0.025

VESSEL SEAMLESS PRODUCTS SELECT CHEM:
MUST MEET CHEVRON AML KDA-0300-PUR-LST-CBU-0000-00001 AML REV3
SELECT CHEM: As per KDA-0800-PIP-SPC-CBU-0000-00004 RB1
MUST MEET NACE MR0175/ISO 15156 VALUES ARE MAX%
CE = 0.43, C = 0.23, B = 0.0005
V max = See Table 2 of KDA-0800-PIP-SPC-CBU-0000-00004 RB1
Nb max = See Table 2 of KDA-0800-PIP-SPC-CBU-0000-00004 RB1
P = 0.020, S = 0.010

**VIEW A-A****NOZZLE SCHEDULE**

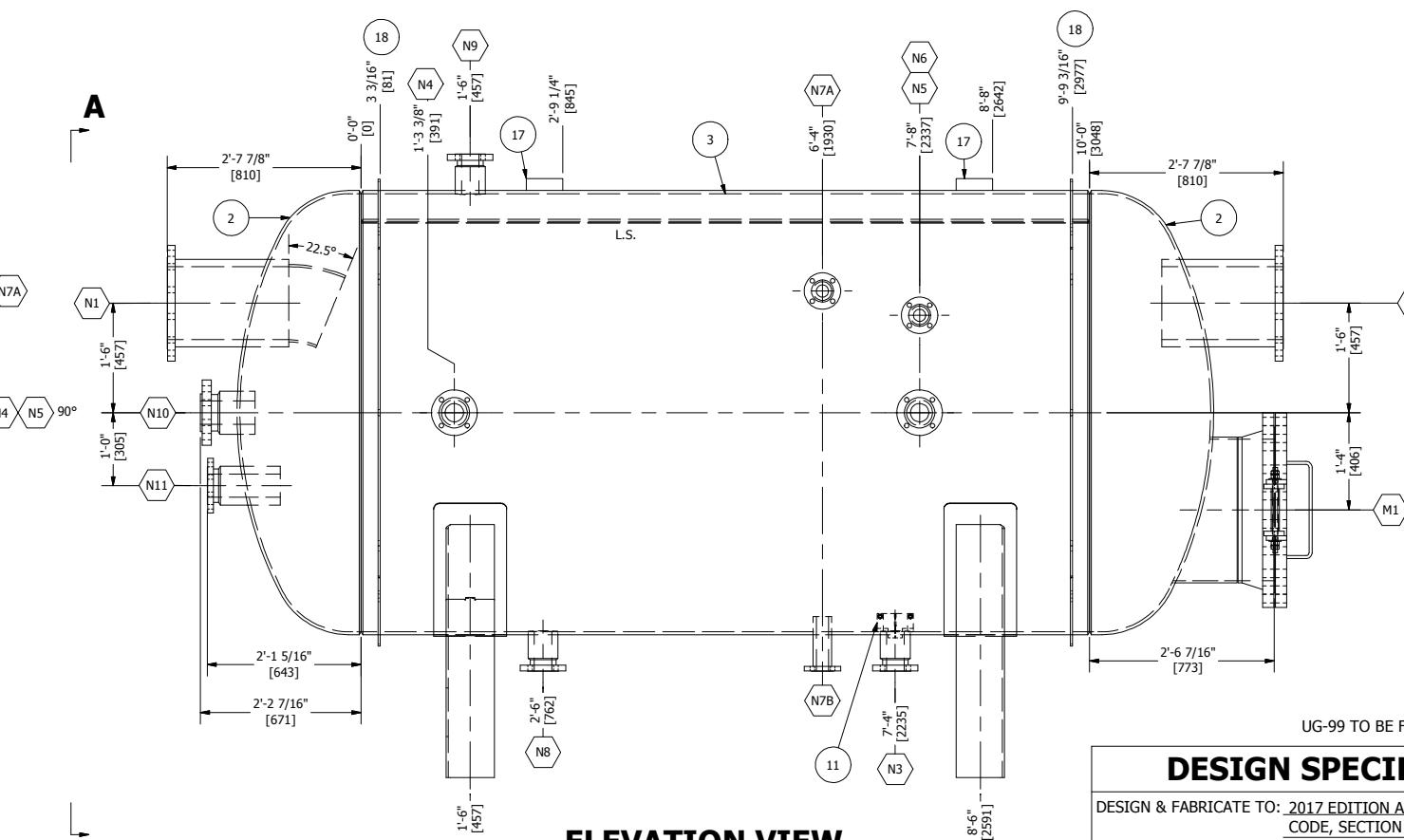
MARK	QTY	DESCRIPTION	NPS	CLASS	TYPE	IS PROJ	OS PROJ	DETAIL	WELD A	WELD B	REPAD C	REPAD D	BOM ITEM	ITEM	QTY	REF.	PART No.	
N1	1	INLET	12	150	RFLWN	*0"	14"	2	3/8"	-	-	-	-	9,10	1	1	-	SADDLE ASSEMBLIES (SEE DRAWING -203 FOR DETAILS)
N2	1	OUTLET	12	150	RFLWN	*0"	14"	2	3/8"	-	-	-	-	9	2	2	HEAD	1-023224 1/2" THK x 72" ID 2.1 S.E. HEAD (0.4375 MIN)
N3	1	DRAIN	3	150	RFHB	FLUSH	6"	3	3/8"	-	-	-	-	11,12	3	1	SHELL	1-023225 1/2" THK x 120" W, ROLLED TO 72" ID
N4	1	FUEL GAS INLET	3	150	RFLWN	*1"	6"	2	3/8"	-	-	-	-	13	4	1	M1	1-000077 1/2" MANWAY HANDLE ASSEMBLY
N5	1	LEVEL SWITCH	3	150	RFLWN	*1"	6"	2	3/8"	-	-	-	-	13	5	1	M1	1-015153 24" CLASS 150 MANWAY HINGE ASSEMBLY
N6	1	SPARE	2	150	RFLWN	*1"	6"	2	3/8"	-	-	-	-	14	6	1	M1	1-001002 24" CLASS 150 RF BLIND FLG
N7A	1	LG	2	150	RFLWN	*1"	6"	2	3/8"	-	-	-	-	14	7	1	M1	1-001001 24" CLASS 150 RFWN FLG SCH STD
N7B	1	LG	2	150	RFLWN	*1"	6"	2	3/8"	-	-	-	-	14	8	1	M1	1-003449 24" PIPE SCH STD/20 (BOE,COE)
N8	1	FUTURE DRAIN	3	150	RFHB	FLUSH	6"	3	3/8"	-	-	-	-	12	9	2	N1,N2	1-024284 12" x CLASS 150 RFLWN FLG
N9	1	VENT	3	150	RFHB	FLUSH	6"	3	3/8"	-	-	-	-	10	1	N1	1-014851 12" x 45" LR BW ELBOW SCH STD (TRIM TO 22.5")	
N10	1	INLET	4	600	RFHB	*1"	6"	2	3/8"	-	-	-	-	15	11	1	N3	1-004298 3" 304SS REMOVABLE VORTEX BREAKER ASSEMBLY
N11	1	INLET	4	150	RFHB	*1"	6"	2	3/8"	-	-	-	-	16	12	3	N3,N8,N9	1-019020 3" x CLASS 150 RFHB FLG x TRIM TO 6-5/8" LG
M1	1	MANWAY	24	150	RFWN	FLUSH	12"	3,5	1/4"	-	-	-	-	4,5,6,7,8	13	2	N4,N5	1-008319 3" x CLASS 150 RFWN FLG

* INSIDE PROJECTIONS MAY BE LONGER

BILL OF MATERIALS

ITEM	QTY	REF.	PART No.	DESCRIPTION	LENGTH	MATERIAL	WEIGHT (lbs)
				SADDLE ASSEMBLIES (SEE DRAWING -203 FOR DETAILS)			666.31
				SA-516-70N			1769.34
				SA-516-70N			3870.18
				SA-36			1.27
				SA-36			13.91
				SA-350-LF2 CL.1			408.55
				SA-350-LF2 CL.1			261.68
				SA-333-GR6			55.30
				SA-350-LF2 CL.1			640.69
				SA-420-WPL6			58.95
				SA-350-LF2 CL.1			1.83
				SA-350-LF2 CL.1			51.70
				SA-350-LF2 CL.1			44.74
				SA-350-LF2 CL.1			85.40
				SA-350-LF2 CL.1			76.58
				SA-516-70N			1.71
				SA-516-70N			22.95

8116.19

CHEVRON DOC # KDU-FKOD440003-TEC-REC-BIL-4400-00096**ELEVATION VIEW**

STANTEC DOCUMENT PROCESSING STAMP	
<input checked="" type="checkbox"/> A - PROCEED	<input type="checkbox"/> I/O - DATA ACCEPTED FOR INFORMATION ONLY
<input type="checkbox"/> B - PROCEED, CHANGE AS NOTED AND RESUBMIT BY:	<input type="checkbox"/> C - DO NOT PROCEED, CHANGE AS NOTED AND RESUBMIT BY:
RESUBMIT DATE FOR STATUS B	RESUBMIT DATE FOR STATUS C
SIGN: M.Y. DATE SIGNED: 2019-11-11	
VDR CODE(S): DM02	
AUTHORIZATION TO PROCEED DOES NOT WAIVE SUPPLIER'S RESPONSIBILITY OR LIABILITY UNDER THE CONTRACT/PURCHASE ORDER FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS	

SOUR SERVICE

This drawing is property of BILTON WELDING AND MANUFACTURING LTD and is lent to the recipient for their confidential use only. In consideration of the loan of this drawing, the recipient promises and agrees that it shall not be used in any way detrimental to the interests of BILTON WELDING AND MANUFACTURING LTD, that it shall be returned upon request, and shall not be reproduced, copied, lent, or otherwise disposed of, directly or indirectly, without the written consent of BILTON WELDING AND MANUFACTURING LTD.

BOX 6106
5815 37 Street
INNISFAIL, AB
CANADA
T4C 2T9
1-888-227-4923
FAX 227-7796

QUOTE NUMBER: 10794B	SALE ORDER: 005676
PURCHASE ORDER: 11862693	JOB ORDER: D5250
LOCATION: 06-07-062-23 W5M (WASX-W039)	SIZE D
DATE: 11/4/2019	REV. 0
SHEET: 3 OF 8	DRAWING NO.: D5250-201
CRN DWG: BMW-688-18 R2	REV. 0
CRN NUMBER: Y6379.2	0

REGISTERED WELDING PROCEDURE NUMBER			
WELD DETAIL	ROOT	HOT PASS	FILL AND CAP
1	BWM-16</		