

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

As required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1 Manufactured and certified by: R.C. Technical Welding & Fabrication Inc., 12814 Mula Lane, Stafford, Texas 77477
(Name and address of Manufacturer)

2 Manufactured for: PROSEP TECHNOLOGIES, Inc. 5353 West Sam Parkway North, Houston TX 77041 P.O. 10741230-0019
(Name and address of Purchaser)

3 Location of Installation: Prudhoe Bay, Alaska; BP Exploration
(Name and address)

4 Type: Horizontal Vessel Separator 11380
(Horizontal, vertical, or sphere) (Tank, separator, jkt. Vessel, heat exch., etc.) (Manufacturer's serial number)

n/a RCT08-11380 483 2010
(CRN) (Drawing number) (National Board number) (Year Built)

5 ASME Code, Section VIII, Div 1 Edition 2007, Addenda 2008 n/a
Edition and Addenda (date) (Code Case number) Special Service per UG-120(d)

Items 6-11 inclusive to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6 Shell (a) No. course(s): 6 (b) Overall length (ft. & in.): 50 FT SEAM TO SEAM

No.	Course		Material Spec./Grade or Type	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & D)			Heat Treatment	
	Diameter, in.	Length (ft. & in.)		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	162.25"	13.25"	SA-516 70N	2.17"	0"	1	Full	1.00	1	Full	1.00	1,100 °F	4 Hr.
1	162.25"	120.625"	SA-516 70N	2.17"	0"	1	Full	1.00	1	Full	1.00	1,100 °F	4 Hr.
1	162.25"	120.625"	SA-516 70N	2.17"	0"	1	Full	1.00	1	Full	1.00	1,100 °F	4 Hr.
1	162.25"	120.625"	SA-516 70N	2.17"	0"	1	Full	1.00	1	Full	1.00	1,100 °F	4 Hr.
1	162.25"	120.625"	SA-516 70N	2.17"	0"	1	Full	1.00	1	Full	1.00	1,100 °F	4 Hr.
1	162.25"	104.25"	SA-516 70N	2.17"	0"	1	Full	1.00	1	Full	1.00	1,100 °F	4 Hr.

7 Heads: (a) SA-516 70N 2 Hrs. at 1,175 ° F (b) SA-516 70N 2 Hrs. at 1,175 ° F
(Mat'l Spec No., (Grade or Type) (H.T. - Time & Temp.) (Mat'l Spec No., (Grade or Type) (H.T. - Time & Temp.)

Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
	Min	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a) Top	2.1070"	0.0"	n/a	n/a	2:1	n/a	n/a	n/a		X	n/a	none	n/a
(b) Bottom	2.1070"	0.0"	n/a	n/a	2:1	n/a	n/a	n/a		X	n/a	none	n/a

If removable bolts used (describe fastening) n/a
(Mat'l Spec No., Grade, Size, No.)

8. Type of jacket N/A Jacket closure N/A
(Describe as ogee & weld, bar etc.)

If bar, give dimensions N/A If bolted, describe or sketch.

9. MAWP 514 psi 85.89 psi at max. temp. 300 300 °F Min. design metal temp. -50 °F at 514.63 psi.
(internal) (external) (internal) (external)

10. Impact test All vessel components at test temperature of -50 °F
(indicate yes or no and the component(s) impact tested)

11. Hydro, pneu., or comb. test press. 674 psi Proof test _____

Items 12 and 13 to be completed for tube sections.

12. Tubesheet: n/a n/a n/a n/a n/a
Stationary (Mat'l Spec. No.) Dia., in (subject to press.) Nom. Thk., in. Corr. Allow., in. Attachment (welded or bolted)

13. Tubes: n/a n/a n/a n/a n/a
Floating (Mat'l Spec. No.) Dia., in. Nom. Thk., in. Corr. Allow., in. Attachment

13. Tubes: n/a n/a n/a n/a n/a
Mat'l Spec No., Grade or Type O.D., in. Nom. Thk., in. or gauge Number Type (Straight or U)

Items 14-18 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell (a) No. of course(s): n/a (b) Overall length (ft & in.): n/a

No.	Courses		Material Spec./Grade or Type	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
	Diameter, in.	Length (ft. & in.)		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

15. Heads: (a) n/a (b) n/a
(Mat'l Spec No., Grade or Type) H.T. - Time & Temp. (Mat'l Spec No., Grade or Type) H.T. - Time & Temp.

Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Dia.	Side to Pressure		Category A		
	Min	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a) n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
(b) n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

If removable, bolts used (describe other fastenings) n/a
(Mat'l Spec No., Grade, Size, No.)

FORM U-1 (Back)

16. MAWP n/a (internal) n/a (external) psi at max. temp. n/a (internal) n/a (external) °F Min. design metal temp. n/a °F at n/a psi.
17. Impact test N/A at temperature of n/a °F
18. Hydro., pneu., or comb. test press n/a Proof test N/A
19. Nozzles, inspection, and safety valve openings

Purpose (Inlet, Outlet, Drain, etc.)	No	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Inspect. Opens.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
INLET	1	35.75" ID	CL. 300# RF CUSTOM	SA-350 LF2	SA-350 LF2	5.625"	0.00"	N/A	UW-16.1(e)	N/A	Shell
LIQUID OUTLET	1	23.375" ID	CL. 300# RF CUSTOM	SA-350 LF2	SA-350 LF2	4.8125"	0.00"	N/A	UW-16.1(e)	N/A	Shell
VAPOR OUTLET	1	29" ID	CL. 300# RF CUSTOM	SA-350 LF2	SA-350 LF2	4.250"	0.00"	N/A	UW-16.1(e)	N/A	Shell
VENT	1	3.83" ID	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.395"	0.00"	N/A	UW-16.1(e)	N/A	Shell
PSV	1	20"	CL. 300# RF V3/13	SA-350 LF2	SA-350 LF2	4.625"	0.00"	N/A	UW-16.1(e)	N/A	Shell
SANDJET INLETS	8	2"	CL. 300# RFLWN	SA-350 LF2	SA-350 LF2	0.655"	0.00"	N/A	UW-16.1(e)	N/A	Shell
SANDJET OUTLETS	8	3"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.240"	0.00"	N/A	UW-16.1(e)	N/A	Shell
NUCLEONIC POINT LT	4	4"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.395"	0.00"	N/A	UW-16.1(e)	N/A	Shell
NUCLEONIC POINT LT	3	6"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.8125"	0.00"	N/A	UW-16.1(e)	N/A	Shell
LT/LG BRIDLE	2	3"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.24"	0.00"	N/A	UW-16.1(e)	N/A	North Head
LT/LG BRIDLE	1	4"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.395"	0.00"	N/A	UW-16.1(e)	N/A	Shell
PRESSURE DIFFERENTIAL	2	3"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.24"	0.00"	N/A	UW-16.1(e)	N/A	Shell
TEMP. TRANSMITTER	1	2"	CL. 300# RFLWN	SA-350 LF2	SA-350 LF2	0.655"	0.00"	N/A	UW-16.1(e)	N/A	Shell
PRES. TRANSMITTER	4	2"	CL. 300# RFLWN	SA-350 LF2	SA-350 LF2	0.655"	0.00"	N/A	UW-16.1(e)	N/A	North Head
DRAIN	4	6"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.81"	0.00"	N/A	UW-16.1(e)	N/A	Shell
LEVEL TRANSMITTER	1	4"	CL. 300# RFHB	SA-350 LF2	SA-350 LF2	1.395"	0.00"	N/A	UW-16.1(e)	N/A	Shell
FLUSHING CONN.	1	2"	CL. 300# RFLWN	SA-350 LF2	SA-350 LF2	0.655"	0.00"	N/A	UW-16.1(e)	N/A	Shell
DP. XM TRANS.	1	2"	CL. 300# RFLWN	SA-350 LF2	SA-350 LF2	0.655"	0.00"	N/A	UW-16.1(e)	N/A	Shell

20. Supports: Skirt n/a (Yes or No) Lugs n/a (No) Legs n/a (No) Others TWO SADDLES (Describe) Attached Shell and Welded (Where and how)
21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (List the name of part, item number, mfg's. name and identifying number)
22. Remarks:
 1) Pressure vessel was hydro tested in the horizontal position
 2) Tag: VSP-Z6011
 3) Safety Valve per UG-125(a)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this pressure vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1

U Certificate of Authorization No 26130 Expires 4-Feb 2010

Date 2/11/10 Name R.C. Technical Welding & Fabrication Inc. Signed Fermin Sandoval (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TEXAS and employed by ONE BEACON AMERICA INSURANCE COMPANY of Lynn, MA have inspected the pressure vessel described in this Manufacturer's Data Report on 02.11.10 and state that, to the best of knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection

Date 02.11.10 Signed [Signature] (Authorized Inspector) Commissions B3604AB TX925 (Nat'l Board incl. Endorsements, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1

U Certificate of Authorization No _____ Expires _____

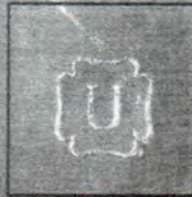
Date _____ Name _____ Signed _____ (Assembler) (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data item: _____, not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or concerned with this inspection

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board incl. Endorsements, State, Province and No.)

NAT'L BD. 463



W
RT-
II

CERTIFIED BY:

R.C. TECHNICAL WELDING & FAB., INC.

STAFFORD, TEXAS

TEL. #: (281) 933-6004 FAX #: (281) 933-1548

MAWP: 514 PSIG: 300 °F

MDMT: 50 °F AT 514 PSIG

DES. PRES. 300 PSIG AT 300 °F

EXT. PRES. 15 PSIG AT 300 °F

SERIAL NO.: 11380 WEIGHT: 330106 LBS

YEAR BUILT: 2010 PROJ.: 0901

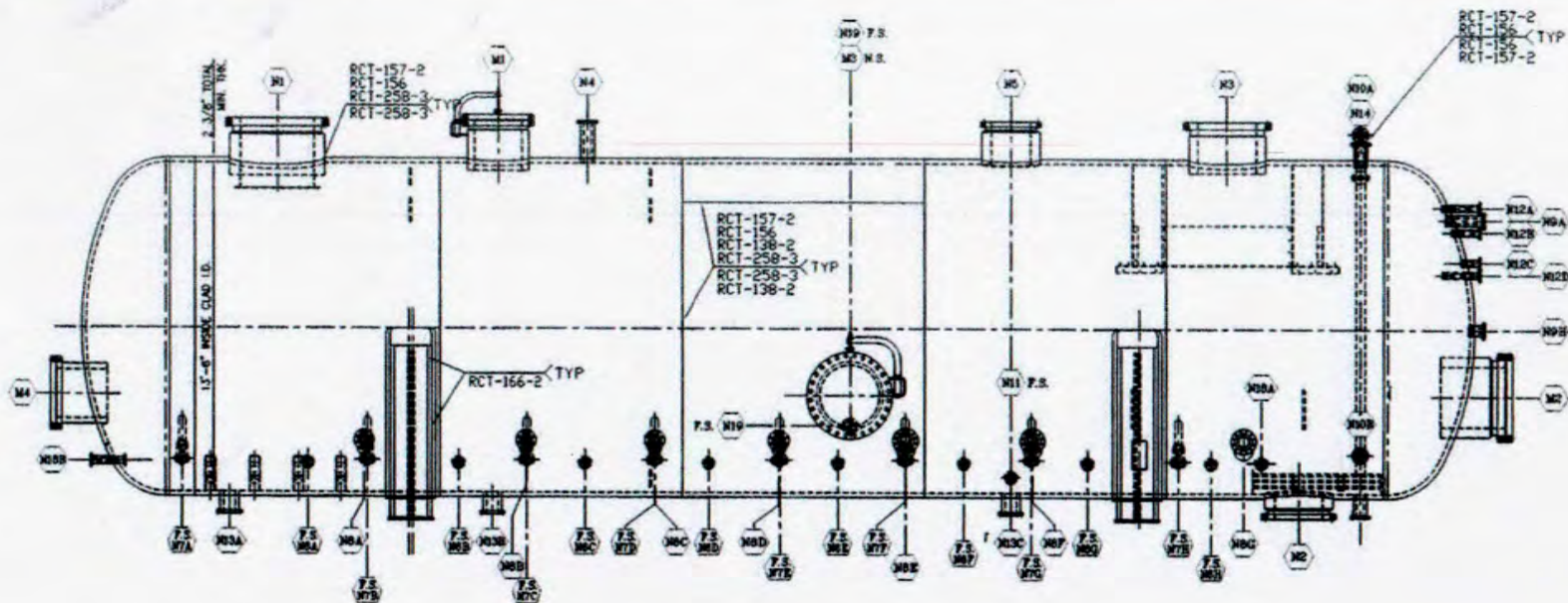
P.O. NO.: 2597

EQUIPT.: 858-7601

PLANT: BPXA GPP

✓
Inspected
by R.A.
3-11-10





WELDMAP

FOR INTERNALS USE RCT-103-2 AND RCT-110-1

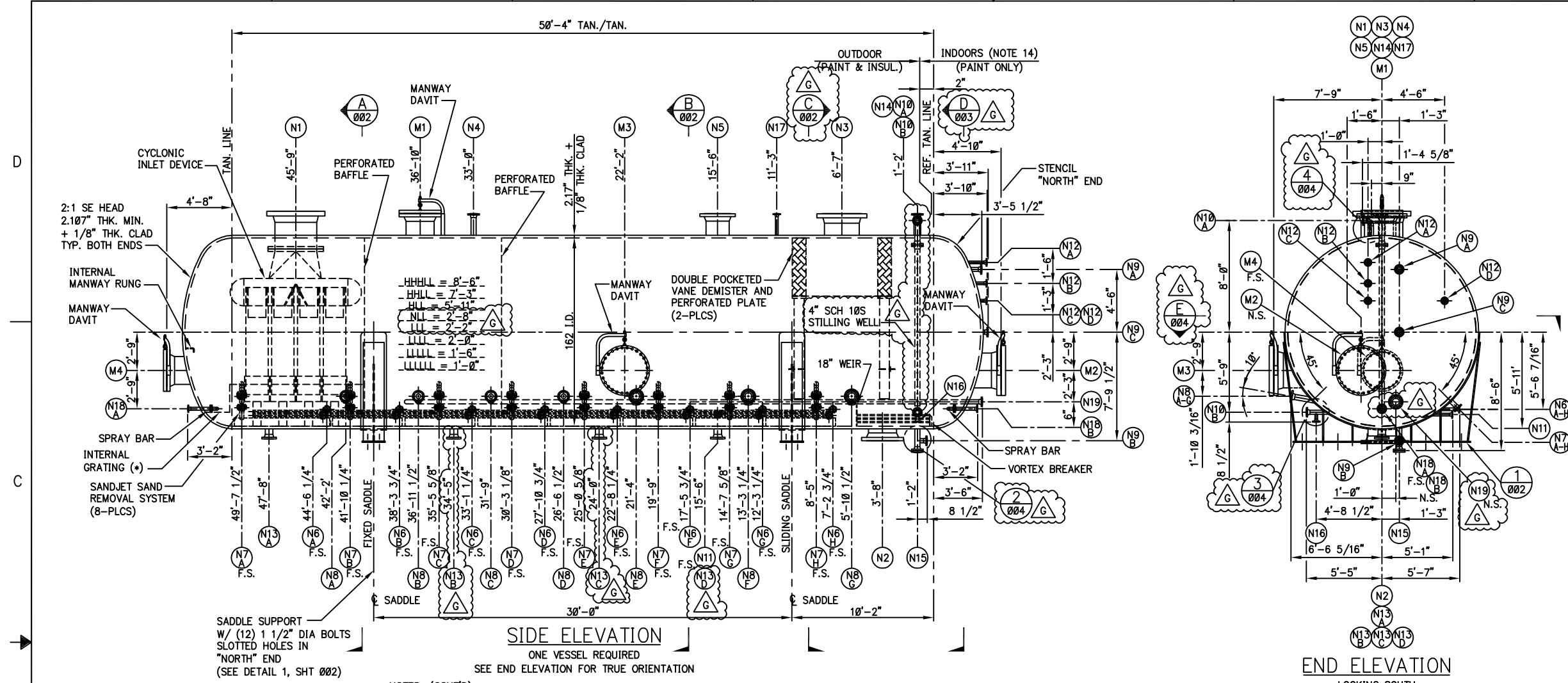
RCT-103-2	(GT+SM) ER316L + E316L	QUALIFIED
RCT-110-1	(FC) E316LT-1	QUALIFIED
RCT-138-2	(GMAW+SAW) ER70S-6+E7018+EM12K	QUALIFIED
RCT-156	(FC+SA) E309LT-1+ER309L	QUALIFIED
RCT-157-2	(FC) E316LT-1 (OVERLAY)	QUALIFIED
RCT-166-2	(FC+SA) E71T-1+EM12K	QUALIFIED
RCT-258-3	(FCAW+SAW) E71T-1+E7018	QUALIFIED

NOTE: USE RCT-156+RCT-157-2 TO OVERLAY INSIDE AND OUT SIDE OF NOZZLE WERE REQUIRED (NECK OF C.S. NOZZLES).

Reviewed
 Initials *RAL*
 Date *3-11-10*

0	ISSUED AS BUILT	02/16/10	SC	FS
1	RE-ISSUED FOR APPROVAL	07/2/08	SC	FS
2	ISSUED FOR APPROVAL		SC	FS

CODE: CUSTOMER P.O. No.: SHOP ORDER No.: 11380 DRAWN BY: Andrew Dwyer REVISED BY: DATE: CHK'D BY: FERMIN SANDOVAL DATE: APPR'D BY: FERMIN SANDOVAL DATE:		R.C. TECHNICAL WELDING & FABRICATION, INC. ALLOY METAL SPECIALIZERS 12814 WASA LANE STAFFORD, TEXAS 77477 CUSTOMER: PROSEP TECH. INC. CLIENT: ARCO ALASKA INC. PROJ. No. 0801 TITLE: INLET SEPARATOR VSP-Z6011 ITEM No.
SIZE / FILE NAME: D 211380-WM SCALE: N/A	DWG. No.: RCT08-11380-WM	REV: 0



CODE: ASME SECT. VIII, DIV. 1, LATEST EDITION					
CODE CERT. REQ'D: YES	CODE STAMP: YES				
NATIONAL BOARD REGISTRATION: YES					
OPR. PRESS: 350 PSIG @ 105° F					
DES PRESS. (INTL): 500 PSIG @ 300° F					
DES PRESS. (EXT): 15 PSI @ 300° F					
MIN. METAL DES TEMP: -50° F					
CA: SHELL = NOTE 10 HEADS = NOTE 10 NOZZ = NOTE 10					
SEISMIC PER: NOTE 8					
WIND PER: NOTE 9					
L.L. FOR DESIGN: 8'-6" @ SP. GR. 0.94					
MAWP: (+) PSIG @ 300° F LIMITED BY (*)					
MAP N&C: (+) PSIG @ 60° F LIMITED BY (*)					
SHOP HYD: (+) PSIG @ 60° F					
FIELD HYD N&C: (+) PSIG @ 60° F					
FIELD HYD CORR.: (+) PSIG @ 60° F					
PWHT: YES	RADIOGRAPH RT - 1				
JOINT EFF.: 100%					
ALLOW. STRESS: 20,000 PSIG @ 300° F					
MATERIALS					
SHELL: SA-516-70 N + 1/8" THK 316L CLAD (NOTE 12)					
HEADS: SA-516-70 N + 1/8" THK 316L CLAD (NOTE 12)					
SUPPORTS: SA-516-70 N					
INTERNALS: 316L SS	TRAYS: N/A				
BOLTS INT.: SA-193-B8M	NUTS: SA-194-8M				
BOLTS EXT.: SA-320-L7	NUTS: SA-194-4				
FLANGES: SA-350-LF2	NOZZ NECK: SA-333-6				
GSKT: NOTE 18					
CAPACITY: 7,801 CU. FT.					
FAB. WT.: 343,000 LBS.	EMPTY WT.: 367,000 LBS.				
TRAY WT.: N/A	INTERNAL WT.: 16,700 LBS.				
OPR. WT.: 672,000 LBS.	TEST WT. (SHOP): 816,000 LBS.				
PAINTING: NOTE 11					
INSULATION: NOTE 12					
FIREPROOFING: NO					
ACCESSORIES BY FABRICATOR					
VESSEL DAVIT MARK No.	YES NO				
LADDER & PLATFORM CLIPS	X				
PIPE SUPPORTS AND PIPE GUIDE CLIPS	X				
INSULATION SUPPORTS	X				
FIREPROOFING SUPPORTS	X				
GROUNDING LUGS	X				
LIFTING LUGS	X				
NOZZLE SCHEDULE					
ITEM	No.	SIZE	PROJ	RATING	SERVICE
N1	1	36"	8'-7"	CL-300	INLET
N2	1	24"	7'-9 1/2"	CL-300	LIQUID OUTLET
N3	1	30"	8'-6"	CL-300	VAPOR OUTLET
N4	1	4"	8'-6"	CL-300	VENT
N5	1	20"	8'-6"	CL-300	PSV
N6A-N6H	8	2"	END ELEV.	CL-300	SANDJET INLET
N7A-N7H	8	3"	7'-9"	CL-300	SANDJET OUTLET
N8A-N8D	4	4"	END ELEV.	CL-300	LEVEL XMTR (NULEONIC)
N8E-N8G	3	6"	END ELEV.	CL-300	LEVEL XMTR (NULEONIC)
N9A-N9C	3	3"	SIDE ELEV.	CL-300	LG/LT BRIDLE
N10A-N10B	2	3"	END ELEV.	CL-300	DIFFERENTIAL PRESS. XMTR
N11	1	2"	END ELEV.	CL-300	TEMP XMTR
N12A-N12D	4	2"	SIDE ELEV.	CL-300	PRESS. XMTR
N13A-N13D	4	6"	7'-8"	CL-300	DRAIN
N14	1	4"	8'-6"	CL-300	LEVEL XMTR (NCR)
N15	1	4"	END ELEV.	CL-300	ROD OUT CONN. W/ B.F.
N16	1	2"	END ELEV.	CL-300	FLUSHING CONN.
N17	1	2"	8'-6"	CL-300	DIFF. PRESS. TRANSDUCER
N18A-N18B	2	2"	SIDE ELEV.	CL-300	HEAD SANDJET
N19	1	3"	SIDE ELEV.	CL-300	AUX. SANDJET
M1	1	24"	8'-6"	CL-300	MANWAY W/ B.F. & DAVIT
M2	1	30"	SIDE ELEV.	CL-300	MANWAY W/ B.F. & DAVIT
M3	1	30"	END ELEV.	CL-300	MANWAY W/ B.F. & DAVIT
M4	1	24"	SIDE ELEV.	CL-300	MANWAY W/ B.F. & DAVIT
FLANGE: WNRF		FINISH: 125-250 AARH			

NOTES: (CONT'D)

- EXTERNAL COATING = PER SPC-MA-00002
OUTDOORS: PER TABLE 2
ABRASIVE BLASTCLEANING TO SSPC-SP10
(2) COATS CARBOLINE THERMOLINE 450, 6.0 MILS DFT PER COAT (OR LISTED EQUAL)
INDOORS: PER TABLE 1
ABRASIVE BLAST CLEANING TO SSPC-SP10
(2) COATS CARBOLINE THERMOLINE 450, 6.0 MILS DFT PER COAT (OR LISTED EQUAL)
- OUTDOOR SURFACES TO BE INSULATED PER SPC-MA-00007.
INSULATION THICKNESS: 4"
INSULATION MATERIAL: POLYSOCYANURATE/POLYURETHANE
- FOR THICK C.S. WELDS > 2", PREHEAT FOR WELD JOINT, SHALL BE MAINTAINED UNTIL PWHT OR INTERMEDIATE STRESS RELIEF (ISR). ISR SHALL BE PERFORMED AT 1,000° F FOR 1 HOUR MINIMUM BEFORE COOLING FROM PREHEAT. THIS REQUIREMENT APPLIES TO WELD REPAIR AND TO REPAIRS MADE TO LOCATIONS WHERE SAMPLES ARE REMOVED.
- IN LIEU OF ISR, DEHYDROGENATION HEAT TREATMENT (DHT), SHALL BE MADE AT 570° F FOR 1 HOUR MINIMUM FOR WELDS THAT ARE COOLED DOWN BEFORE PWHT. THE REQUIREMENT OF BOTH NOTE "13" & "14" ARE RECOMMENDED TO DRIVE OUT HYDROGEN FROM THE WELD METAL.
- ALL NOZZLES SHALL BE INTEGRALLY REINFORCED IN ACCORDANCE WITH ASME SECTION VIII, DIVISION 1, FIGURE UW16.1 (f3), UW16.1 (f4) OR UW16.1 (e) AND SHALL HAVE WELDS 100% RADIOGRAPHED PER PARAGRAPH 5.1. OR FULL U.T. WHEN R.T. NOT PRACTICAL. IN ADDITION, NOZZLES WITH A DIAMETER LESS THAN 3" AND NOT INTEGRALLY REINFORCED MAY BE IN ACCORDANCE WITH UW16.1 (c), AND SHALL HAVE THE WELDS 100% ULTRASONIC INSPECTED.
- ALL PRESSURE-CONTAINING WELDMENTS ARE TO BE CHECKED FOR HARDNESS OF WELD AND HEAT AFFECTED ZONE (HAZ), AFTER PWHT. THE MAXIMUM BRINELL HARDNESS (BHN) OF THE WELD AND BASE METAL IN HAZ SHALL NOT EXCEED 200 BHN.
- VESSEL TO BE DESIGNED TO HANDLE A MAXIMUM SLUG OF 580 BBL W/ SLUG DENSITY OF 56 LBM/FT³ FLOWING AT 50 FT/SEC. FREQUENCY=0.35 PER MINUTE. VESSEL DESIGN LIFE=40 YEARS.
- GASKET: SPIRAL WOUND NON-ASBESTOS FILLED, WITH 304 SS WINDING & 1/8" OUTER C.S. CENTERING RING & S.S. INNER RING, CL-300 B16.20 FS CGI OR EQUAL.

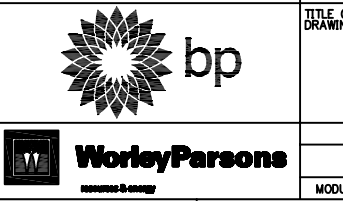
STANDARDS AND SPECS	
DRAWING NO.	TITLE
CRT-AK-46-01	CRITERIA FOR NEW PRESSURE VESSELS
SPC-AK-46-010	SPECIFICATION FOR NEW PRESSURE VESSELS
SPC-AK-46-020	SPECIFICATION FOR STANDARD VESSEL DETAILS
SPC-MA-00007	INSULATION FOR MODULE PIPING AND EQUIPMENT
SPC-MA-00002	EXTERNAL COATINGS FOR MODERATELY CORROSIVE SERVICE

REFERENCE DRAWINGS	NO.	DATE	REVISION	BY	CHK	APPD	NO.	DATE	REVISION	BY	CHK	APPD
STD-VS-230												
	A	01/07	ISSUED FOR IN-HOUSE REVIEW PER EPT 37305244-02	YLT	PP	RHK						
	B	02/07	ISSUED FOR CLIENT REVIEW PER EPT 37305244-02	YLT	RHK	RHK						
	C	08/07	ISSUED FOR APPROVAL PER EPT 37305244-02	KST	RHK	RHK						
	D	01/08	ISSUED AS INDICATED, IFA PER EPT 37305244-02	KST	RHK	RHK						
	E	04/08	ISSUED AS INDICATED, IFA PER EPT 37305244-02	NH	RHK	RHK						
	F	11/08	ISSUED FOR APPROVAL PER EPT 37305244-02	KST	RHK	RHK						
	G	12/08	ISSUED FOR SQUAD CHECK PER EPT 37305244-02	KST	RHK	RHK						

- NOTES:
- ALL DIMENSIONS ARE FROM REFERENCE TANGENT LINE UNLESS NOTED OTHERWISE.
 - NOZZLES MANWAYS, ETC. SHALL HAVE THE SAME DESIGNATION AS SHOWN ON THIS DRAWING.
 - BOLT HOLES SHALL STRADDLE VESSEL NATURAL CENTERLINES, EXCEPT AS NOTED.
 - ALL REMOVABLE INTERNALS SHALL PASS THROUGH VESSEL MANWAY.
 - ALL ATTACHMENTS WELDED TO THE PRESSURE PARTS SHALL BE THE SAME MATERIAL "P" GROUP AS THE PRESSURE PART, UNLESS OTHERWISE NOTED.
 - FABRICATOR SHALL PROVIDE AND INSTALL CLIPS WELDED TO THE VESSEL. CLIPS SHALL HAVE CONTINUOUS SEAL WELD.
 - VESSEL SHALL BE THOROUGHLY CLEANED INSIDE AND OUTSIDE AND SHALL BE FREE FROM RUST, SCALE, SLAG, WELD SPATTER AND FOREIGN MATTER FOR SHOP HYDROTEST AND SHALL BE THOROUGHLY DRIED BEFORE SHIPPING.
 - SEISMIC DESIGN PER IBC 2006
SITE CLASS: B
IMPORTANT FACTOR I_p: 1.5
SPECTRAL RESPONSE ACC. @ SHORT PERIODS, S_s: 38.00%
SPECTRAL RESPONSE ACC. @ 1 SEC. PERIOD, S₁: 10.00%
RESPONSE MODE FACTOR, R_p: 2.5
z/h RATIO: 1
AMPLIFICATION FACTOR, a_p: 1
 - WIND DESIGN PER IBC 2006
BASIC WIND SPEED: 110 MPH
EXPOSURE: D
IMPORTANCE FACTOR, I: 1.15
WIND DIRECTIONALITY FACTOR, K_d: 0.95
TOPOGRAPHIC FACTOR, K_z: 1
 - BASE METAL SHALL BE SA-516-70N W/ 1/8" THICK SA-246-316L CLADDING OR WELD OVERLAY. ALL NOZZLES AND FLANGE FACES SHALL INCLUDE WELD OVERLAY.

ENGINEERING RECORD	DATE
DRN:	YLT 12/06
DSGN:	YLT 12/06
CHK:	PP 12/06
APP:	RHK 12/06
SCALE:	NONE

DSGN/CNST



* BY FABRICATOR			
TITLE OF DRAWING: Z PAD VESSELS GENERAL ARRANGEMENT INLET SEPARATOR VSP-Z6011			
WORK ORDER	DRAWING NUMBER	REV	SHEET
37305244-02	VS-WPZ-00010	G	001
MODULE: 601	JOB NUMBER:		OF 006