

66175384  
A 602799

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Alco Gas & Oil Production Equipment LTD. 5203 75th St., Edmonton, Alberta T6E 5S5 Canada  
(Name and address of manufacturer)  
2. Manufactured for Husky Oil Operations Ltd c/o Excesior Engineering Ltd. - 400, 1110 Centre Street NE Calgary AB T2E2R2  
(Name and address of purchaser)  
3. Location of installation MINEHEAD COMPRESSOR STATION (LSD: 03-06-049-18 W5M)  
(Name and address)

4. Type: Horizontal 2011-8169-02 V-3992.2 D-2011-8169-02-001/1R0 N/A 2011  
(Horiz. or vert., tank) (Mfgs serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)  
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE  
VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2010 EDITION  
Year

to N/A N/A  
Addenda (Date) Code Case Nos. Special Service per UG-120(d)  
6. Shell: SA-516Gr.70MT 5/8" 1/16" 46 3/4" 16'-0"SM/SM  
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))  
7. Seams: TYPE I FULL 100% N/A N/A TYPE I SPOT 70% 2  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) No. of Courses  
8. Heads: (a) Matl. SA-516Gr.70MT (b) Matl. SA-516Gr.70MT  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	END	0.580"	1/16"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	END	0.680"	1/16"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings) N/A  
(Matl., Spec. No., Gr., Size, No.)  
9. MAWP: 400 PSI 0 PSI at max. temp. 300°F 300°F  
(internal) (external) (internal) (external)  
Min. design metal temp. -20°F at 400 PSI Hydro., pneu., or comb. test pressure Hydrostatic 520 PSI

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
COND INLET	1	6"	CL300RFWN	SA106B/105N	0.719"	N/A	UW 16.1(c)	SHELL
COND OUT	1	6"	CL300RFWN	SA106B/105N	0.719"	N/A	UW 16.1(c)	SHELL
Water Out/Drain	1	2"	CL300RFWN	SA333-6/234WPB*	0.344"	N/A	UW 16.1(c)	SHELL
PSV	1	2"	CL300RFWN	SA333-6/105N	0.344"	N/A	UW 16.1(c)	SHELL
WLB	1	2"	CL300RFWN	SA333-6/105N	0.344"	N/A	UW 16.1(c)	SHELL
WLB	1	2"	CL300RFWN	SA333-6/105N	0.344"	N/A	UW 16.1(c)	Boot Shell
MANWAY	1	20"	CL300RFWN	SA333-6/105N	1.031"	N/A	UW 16.1(c)	END HEAD
BOOT	1	12"	SMLS PIPE	SA106B	0.500"	SA-516Gr.70MT	UW 16.1(c)	SHELL

11. Supports: Skirt No Lugs NO Legs NO Other SADDLES Attached WELDED TO SHELL  
(Yes or no) (No.) (No.) (Describe) (Where and how)  
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

(Name of part, item number, Mfg's. name and identifying stamp)

IMPACT TEST EXEMPT PER UG 20 (f), FLANGES PER UCS-66(c), MANWAY NECK PER UCS-66(g) / RT PER UW-11(a)5(b)

CONDENSATE CONDITIONER CAP 214 FT' / AS BUILT DRAWING D-2011-8169-02-001/001 R1

PSV ON VESSEL / BOOT HEAD: 12.750"OD X 0.375" MTAf, SA516-70MT, 2:1 ELLIPTICAL RATIO, CONCAVE

**CERTIFICATE OF SHOP/FIELD COMPLIANCE**

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 14259 expires October 7, 2013  
Date MAR 22, 2011 Co. name Alco Gas & Oil Production Equipment LTD. Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Alco Gas & Oil Production Equipment LTD. at 5203 75th St., Edmonton, Alberta T6E 5S5 Canada  
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of ALBERTA and employed by ABSA have inspected the component described in this Manufacturer's Data Report on MARCH 22, 2011, and state that, to the best of my 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 a loss of any kind arising from or connected with this inspection.  
Date 03-22-11 Signed [Signature] Commissions MB2897 A/B AB245  
(Authorized Inspector) (Nat'l Board (incl. endorsements) State, Prov. and No.)

(A) 602799

• Nozzles, inspection, and safety valve openings:

[illegible]

Data Report Item Number	Remarks
<u>MANWAY BLIND</u>	<u>NPS 20 CL300 RF SA-105N</u>
<u>BOLTINGS</u>	<u>24pc - 1 1/4"DIA X 8 1/4"LG 8UN-2A SA-193-B7 STUDS c/w 2 SA-194-2H HEX NUTS EACH</u>
	<u>*FLANGE MATERIAL IS SA-105N</u>
Certificate of Authorization:	Type <u>U</u> No. <u>14259</u> Expires <u>October 7</u> <u>2013</u>
Date <u>3/22/2011</u> Name <u>Alco Gas &amp; Oil Production Equipment LTD.</u>	Signed _____
	(manufacturer)
Date <u>03-22-11</u> Name _____	(representative)
	Commission <u>NB12897 A/B AB245</u>
	(Nat'l. Board incl. endorsement, state, province and no.)