

66175401

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) **A** 602816
 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 Excelsior Engineering Ltd. - 400, 1110 Centre Street NE Calgary AB T2E 2R2
 (Name and address of purchaser)
3. Location of installation MINEHEAD COMPRESSOR STATION (LSD: 03-06-049-18 W5M)
 (Name and address)
4. Type: VERTICAL 2011-8169-04 V-4002.2 D-2011-8169-04-001/1R0 N/A 2011
 (Horiz. or vert., tank) (Mfrs 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 N/A
 Addenda (Date) Code Case Nos. Special Service per UG-120(d)
6. Shell: SA-106Gr.B 3/8" 1/16" 15 1/4" 34'-0"SM/SM
 (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))
7. Seams: SEAMLESS NONE 100% N/A N/A TYPE 1 SPOT 70% 4
 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)	TOP	0.280"	1/16"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	BOTTOM	0.280"	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. 500°F 500°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	3"	CL300RFWN	SA106B/105N	0.300"	N/A	UW 16.1(c)	SHELL
GAS OUTLET	1	2"	CL300RFWN	SA106B/105N	0.344"	N/A	UW 16.1(c)	TOP HEAD
COND OUT	1	4"	CL300RFWN	SA106B/105N	0.337"	N/A	UW 16.1(c)	SHELL
INLET	1	6"	CL300RFWN	SA106B/105N	0.432"	N/A	UW 16.1(c)	SHELL
OUT / DRAIN	1	2"	CL300RFWN	SA106B/234WPB*	0.344"	N/A	UW 16.1(c)	BOTTOM HD
PSV	1	2"	CL300RFWN	SA106B/234WPB*	0.344"	N/A	UW 16.1(c)	SHELL
LC CAGE	2	1 1/2"	COUPLING	SA105N	CL3000	N/A	UW 16.1(c)	SHELL
TEMP IND	1	3/4"	COUPLING	SA105N	CL3000	N/A	UW 16.1(c)	SHELL

11. Supports: Skirt Yes Lugs NO Legs NO Other ----- Attached Welded To Bottom Head
 (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, Mfr's. name and identifying stamp)

IMPACT TEST EXEMPT PER UG 20 (f), FLANGES PER UCS-66(c), STUDS & NUTS EXEMPT PER UCS-66 NOTE(c)

STABILIZER COLUMN CAP 44 FT³ / AS BUILT DRAWING D-2011-8169-04-001/001 R1 / RT PER UW-11(a)5(b)

PSV ON VESSEL / SEE ATTACHED U4 DATA REPORT / HYDROTESTED IN HORIZONTAL POSITION

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. <u>14259</u> expires <u>October 7</u> , 2013			
Date <u>APR 1, 2011</u>	Co. name <u>Alco Gas & Oil Production Equipment LTD.</u>	Signed <u>[Signature]</u>	(Representative)
CERTIFICATE OF SHOP/FIELD INSPECTION			
Vessel constructed by <u>Alco Gas & Oil Production Equipment LTD.</u> at <u>5203 75th St., Edmonton, Alberta T6E 5S5 Canada</u>			
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 <u>ALBERTA</u> and employed by <u>ABSA</u> have inspected			
the component described in this Manufacturer's Data Report on <u>APRIL 1</u> , 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 <u>04-01-11</u>	Signed <u>[Signature]</u>	Commissions <u>UB12897 AB</u>	<u>AB245</u>
(Authorized Inspector)		(Nat'l Board (incl. endorsements) State, Prov. and No.)	

① 602816

. Nozzles, inspection, and safety valve openings:

Data Report Item Number	Remarks
BREAK FLANGES	2pc - NPS 16 CL300 RFWN SA-105N SCH STD
BOLTINGS	20pc - 1 1/4" DIA X 7 1/2" LG 8UN-2A SA-193-B7 STUDS c/w 2 SA-194-2H HEX NUTS EACH
	* FLANGES MATERIAL ARE SA105N

Certificate of Authorization: Type U No. 14259 Expires October 7, 2013

Date 4/1/2011 Name Alco Gas & Oil Production Equipment LTD. Signed [Signature]
(manufacturer) (representative)

Date 04-01-11 Name [Signature] Commission NB12897 AB AB245
(Authorized Inspector) (Nat'l. Board incl. endorsement, state, province and no.)