

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

1. Manufactured and certified by BROMLEY MECHANICAL SERVICES (1985) LTD, 925 - 23 STREET S.W. MEDICINE HAT ALBERTA CANADA T1A 8R1  
 (Name and address of manufacturer)

2. Manufactured for Tundra Engineering Ltd., 1800, 250 - 6 Avenue SW, Calgary, AB T2P 3H7  
 (Name and address of purchaser)

3. Location of installation Anadarko - Graham Field  
 (Name and address)

4. Type: Horizontal Slug Catcher 112973 P6381.2 14217-REG Rev.0 2001  
 (Horiz. or vert. tank) (Mfg's 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

to 2000 Addenda (Date) n/a Code Case Nos. n/a Special Service per UG 120(d) n/a

6. Shell: SA-516-70N 1.00" 0.125" 42" o.d. 10' s/s  
 Matl. (Spec No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: Single Full 100% 1150°F 1hr 15mins Single Full 1  
 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, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-516-70N (b) Matl. SA-516-70N  
 (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	0.9375"	0.125"	-	-	2:1	-	-	-	Concave
(b)	Bottom	0.9375"	0.125"	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings) n/a

9. MAWP 720 (Matl., Spec. No., Gr., Size, No.)  
 psi at max. temp. 100 °F  
 Min. design metal temp. -20 °F at 720 psi. Hydro. ~~test~~ test pressure 936 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
Manway	1	20"	CL300 RFHB	SA-105N, SA-516-70N	300	-	UW..16.1(a)(e)	Left Head
Boot	1	20"	Boot	SA-106B, SA-516-70N	1.031"	-	UW..16.1(a)(e)	Boot
Inlet, Outlet	2	6"	CL300 RFLWN	SA-105N	1.0625"	-	UW..16.1(a)(e)	Shell
Dump	1	4"	CL300 RFWN	SA-105N, SA-106B	0.531"	-	UW..16.1(a)(e)	Boot
PSV, Bridle	2	2"	CL300 RFWN	SA-105N, SA-106B	0.344"	-	UW..16.1(a)(e)	Shell
Bridle, Dump	2	2"	CL300 RFWN	SA-105N, SA-106B	0.344"	-	UW..16.1(a)(e)	Boot
TI, PI, Blowdown	3	2"	CL300 RFWN	SA-105N, SA-106B	0.344"	-	UW..16.1(a)(e)	Shell

11. Supports: Skirt No Lugs 2 Legs 2 Other - Attached Shell/Weld  
 (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: -  
Volume = 2.9 cu m or 102 cu ft Construction Drawing Cad No. 14217-VESSEL Rev.2  
 (Name of part, item number, Mfg's name and identifying stamp)

M.D.M.T. = -20°F at 720 psi  
 C.A. = 0.125  
 Impact Testing Exempt per UCS66 (a), (b) & UG20f(1-5)

**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 vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 30.634 expires 10/26, 2004

Date Oct 29/01 Co. Name BROMLEY MECHANICAL SERVICES (1985) LTD Signed [Signature]  
 (Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by BROMLEY MECHANICAL SERVICES (1985) LTD at 925 - 23 STREET S.W. MEDICINE HAT, ALBERTA CANADA T1A 8R1  
 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Alberta and employed by Alberta Boilers Safety Association have inspected the component described in this Manufacturer's Data Report on \_\_\_\_\_, 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 Oct 29/01 Signed [Signature] Commissions ALTA 61(R)  
 (Authorized Inspector) (Nat'l Board (incl. endorsements) State, Prov. and No.)