

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 591088

1. Manufactured and certified by G.L.M. INDUSTRIES L.P. 1508 - 8TH STREET, NISKU, ALBERTA T9E 7S6
(Name and address of manufacturer)

2. Manufactured for HUSKY ENERGY, 707-8TH AVENUE SW, CALGARY, AB, T2P 3G7
(Name and address of purchaser)

3. Location of installation MACMILLAN COMPRESSOR STATION, 208 CARIBOU TRAIL NW, SLAVE LAKE, AB T0G 2A0
(Name and address)

4. Type VERTICAL PE-08-197-1 U6482.2 PE-08-197-1-1, REV 0 N/A 2008
(Horiz. or vert. tank) (Mfr'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 2007 EDITION
Year

to N/A ADDENDA N/A N/A
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-516 70N 1.25" 0.0625" 5'-6" 10'-0" S/S
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: TYPE 1 FULL 100 N/A N/A TYPE 1 SPOT 70 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 or Full) Eff. (%) 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	1.25"	0.0625"	-	-	2:1	-	-	-	CONCAVE
(b)	BOTTOM	1.25"	0.0625"	-	-	2:1	-	-	-	CONCAVE

If removable, bolts used (describe other fastenings) N/A
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 650 15 psi at max. temp. 150 150 °F
(internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 650 psi. Hydro., pneu., or comb. test pressure 845 (HYDRO) 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
				SEE ATTACHED U-4 FORM				

11. Supports: Skirt NO Lugs N/A Legs N/A Other N/A Attached N/A
(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: _____
(Name of part, item number, Mfr's name and identifying stamp)

IMPACT TESTING NO: EXEMPT UCS 66 (a)(b)(c) UG 20f(1-5). RADIOGRAPHY UW11 (a)(5)(b) VOLUME = 289 CU FT. CONSTRUCTED TO DWG PE-08-197-1-1, REV 2 PSV PROVIDED BY OTHERS. VESSEL HYDROTESTED IN THE HORIZONTAL POSITION.

MANWAY (M1) C/W SA-105N CL 300 RFBF & (24) 1 1/4" DIA x 8" LG SA-193 B7 STUDS & (48) SA-194 2H NUTS.

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. 18052 expires October 21, 2009.
 Date OCT 10 2008 Co. name G.L.M. INDUSTRIES L.P. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by G.L.M. INDUSTRIES L.P. at 1508 - 8TH STREET, NISKU, ALBERTA T9E 7S6
 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 ABSA have inspected the component described in this Manufacturer's Data Report on OCT 10 2008, 2008, and state that, to 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 10 2008 Signed [Signature] Commissions AB95A
(Authorized Inspector) (Nat'l Board, (incl. endorsements) State, Prov. and No.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 **A 591088**

1. Manufactured and certified by G.L.M. INDUSTRIES L.P. 1508 - 8TH STREET, NISKU, ALBERTA T9E 7S6
(name and address of manufacturer)

2. Manufactured for HUSKY ENERGY, 707-8TH AVENUE SW, CALGARY, AB, T2P 3G7
(name and address of purchaser)

3. Location of installation MACMILLAN COMPRESSOR STATION, 208 CARIBOU TRAIL NW, SLAVE LAKE, AB T0G 2A0
(name and address)

4. Type: VERTICAL SEPARATOR PE-08-197-1
(horiz., vert., or sphere) (tank, separator, heat exch., etc.) (mfg's serial no.)

U6482.2 PE-08-197-1-1, REV 0 N/A 2008
(CRN) (drawing no.) (Nat'l. Bd. no.) (year built)

Data Report
Item Number

Remarks

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. Or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
N1, INLET	1	12"	CL 300 RFWN	SA-160 GR B / SA-105N	0.5"	SA-516 70N	FIG. UW-16.1(c)	SHELL
N2, GAS OUTLET	1	12"	CL 300 RFWN	SA-106 GR B / SA-105N	0.5"	SA-516 70N	FIG. UW-16.1(c)	SHELL
C3/C4/C5, LEVEL CONTROLS	3	2"	CPLG	SA-105N	CL 6000	N/A	FIG. UW-16.1(c)	SHELL
N6A/B, LEVEL GAUGE	2	1 1/2"	CL 300 RFWN	SA-106 GR B / SA-105N	0.281"	N/A	FIG. UW-16.1(c)	SHELL
N7, SLUG OUTLET	1	4"	CL 300 RFWN	SA-106 GR B / SA-105N	0.337"	SA-516 70N	FIG. UW-16.1(c)	SHELL
N8, NORMAL LIQUID OUTLET	1	2"	CL 300 RFWN	SA-106 GR B / SA-105N	0.344"	N/A	FIG. UW-16.1(c)	SHELL
C9, PRESSURE GAUGE	1	1/2"	CPLG	SA-105N	CL 3000	N/A	FIG. UW-16.1(c)	SHELL
C10, TEMP GAUGE	1	3/4"	CPLG	SA-105N	CL 3000	N/A	FIG. UW-16.1(c)	SHELL
N11, RELIEF VALVE	1	2"	CL 300 RFWN	SA-106 GR B / SA-105N	0.344"	N/A	FIG. UW-16.1(c)	SHELL
C12, INSPECT. PORT	1	2"	CPLG	SA-105N	CL 6000	N/A	FIG. UW-16.1(c)	SHELL
N13, SAND STINGER	1	2"	CL 300 RFWN	SA-106 GR B / SA-105N	0.344"	N/A	FIG. UW-16.1(c)	SHELL
N14, DRAIN	1	3"	CL 300 RFWN	SA-106 GR B / SA-105N	0.438"	SA-516 70N	FIG. UW-16.1(c)	BOTTOM HEAD
M1, MANWAY	1	18"	CL 300 RFWN	SA-106 GR B / SA-105N	0.5"	SA-516 70N	FIG. UW-16.1(c)	SHELL

Certificate of Authorization: Type U No. 18052 Expires October 21, 2009

Date OCT 10 2008 Name G.L.M. INDUSTRIES L.P. Signed *Lianne Paul*
(manufacturer) (representative)

Date OCT 10 2008 Name *[Signature]* Commission *A095A*
(Authorized Inspector) (Nat'l. Board incl. Endorsement, state, province, and no.)