

**FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS**  
 (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) V430

as required by the provisions of the ASME Code rules, Section VIII, Division 1

1. Manufactured and certified by UCI Construction, Inc., 3900 Fruitvale Ave., Bakersfield, CA 93308  
(name and address of manufacturer)

2. Manufactured for Ivanhoe Energy, 5060 California Ave., Suite 400, Bakersfield, CA 93309 USA  
(name and address of purchaser)

3. Location of installation HLT Plant, Belridge Field, Kern County, California  
(name and address)

4. Type: Vert. 56030-29 N/A SK-06194-01 29 2006  
(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 Code, Section VIII, Division 1: 1998  
1999 N/A N/A  
(addenda (date)) (Code Case no.) (special service per UG-120(d)) (year)

6. Shell: SA106GB 3/8" 0.1250 2'0" 5'9"  
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: Type 1 S 85% N/A N/A Type 1 Spot I  
(long. (welded, dbl., singl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., singl., lap, butt)) (RT (spot, partial, or full)) (no. of courses)

8. Heads: (a) SA234WPB (b) SA234WPB  
(mat'l. (spec. no., grade)) (mat'l. (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	0.3281	0.1250			2:1				Concave
(b)	Bottom	0.3281	0.1250			2:1				Concave

If removable, bolts used (describe other fastenings): \_\_\_\_\_  
(mat'l., spec. no., gr., size, no.)

9. MAWP: 50psi at max. temp. 750°F Min. temp. -20 Hydro., pneu. or comb. test pressure 85psi  
(psi) (°F) (when less than -20°F) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
Inlet	N-1	4"	150RFWN	SA106B105	.2370	Inherent	UW16.1(c)	Top Head
Outlet	N-2	3"	150RFWN	SA106B105	.2160	Inherent	UW16.1(c)	Bottom Head
PSV	N-3	2"	150RFWN	SA106B105	.2180	Inherent	UW16.1(c)	Top Head
LT/Inspection	N-4	3"	150RFWN	SA106B105	.2160	Inherent	UW16.1(c)	Shell

11. Supports: Skirt No Lugs 2 Legs 3 Other \_\_\_\_\_ Attached Shell/Welded  
(yes or no) (no.) (no.) (describe) (where & how)

12. Remarks: Manufacturers' 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 Test exempt per UG20(f)  
Relief Device by others

**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. 3053 expires 2, 2008  
 Date 5-10-06 Name UCI CONSTRUCTION INC Signed [Signature]  
(manufacturer) (representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by UCI Construction Inc at Bakersfield, CA  
 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of California and employed by HSB-CT  
 of Hartford, CT have inspected the component described in this Manufacturers' Data Report on 5-8, 2006 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 the Manufacturers' 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 5-15, 2006 Signed [Signature] Commissions NB10442A; CA 1699  
(Authorized Inspector) (Nat'l. Bd. (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

1. Manufactured and certified by UCI Construction, Inc., 3900 Fruitvale Ave., Bakersfield, CA 93308  
(Name and address of Manufacturer)

2. Manufactured for Invanhoe Energy, 5060 California Ave., Ste 400, Bakersfield, CA 93309 USA  
(Name and address of Purchaser)

3. Location of installation HLT Plant Belridge Field, Kern County, California  
(Name and address)

4. Type: Vert Middle Product Reservoir 56030-29  
(Horiz., vert., or sphere) (Tank, separator, heat exch., etc.) (Mfg's. serial No.)

N/A SK-06194-01 29 2006  
(CRN) (Drawing No.) (Mat'l. Bd. No.) (Year built)

Data Report Item Number	Remarks							
Purpose	No.	Diam.	Type	Mat'l	Thickness	Re-Pads	How Att.	Location
IT Inspection	N-5	3"	150RFWN	SA106B105	.2160	Inherent	UW16.1(c)	Shell
Level Gauge	N-6	1"	3000#Coup	SA106b105	.2175	Inherent	UW16.1(c)	Shell
Level Gauge	N-7	1"	3000#coup	SA106b105	.2175	Inherent	UW16.1(c)	Shell
Temp Indicator	N-8	1"	3000#Coup	SA106B105	.2175	Inherent	UW16.1(c)	Shell
Spare	N-9	1"	3000#Coup	SA106B105	.2175	Inherent	UW16.1(c)	Shell

Certificate of Authorization: Type U No. 23053 Expires 2/12/2008

Date 5-10-06 Name UCI construction Inc. Signed Kenn W... (Representative)

Date 5-15-2006 Name [Signature] (Authorized Inspector) Commission NB10442A CA1699 (Nat'l Board incl. endorsement, State, Province and No.)

This form (E00118) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300