

113932

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

#230971

- 1. Manufactured and certified by HAMMCO, INC.: 6901 N. 115th EAST AVE.: OWASSO, OKLAHOMA 74065
(Name and address of manufacture)
- 2. Manufactured for WILLIAMS - NORTHWEST GAS PIPELINE GROUP; TULSA, OKLAHOMA
(Name and address of purchaser)
- 3. Location of installation WILLIAMS - NORTHWEST GAS PIPELINE GROUP; RANGLEY, COLORADO
(Name and address)
- 4. Type HORIZONTAL 12-1141-1 ----- 12-1141-10 4812 2012
(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 2010
(Year)
to 2011 ADDENDUM NONE N/A
Addenda (Date) Code Case Nos. (Special Service per UG-120 (d))
- 6. Tube & Plug Shell SA-516-70N 1-1/4" 1/8" 5" X 8-3/4" 8'-10-1/2"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & inch)
- 7. Seams: CORNER ----- 1175 1-1/4 ----- -----
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-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, BOT. & ENDS	1"	1/8"	-----	-----	-----	-----	-----	-----	FLAT
(b)	STAY PLATES	5/8"	1/8"	-----	-----	-----	-----	-----	-----	FLAT

If removable, bolts used (describe other fastenings) HEADER PLUGS: SA-105, 1-3/8" DIA. X 1-1/4" LG.; QTY. 324
(Matl., Spec. No., Gr., Size, No.)

- 9. MAWP 852 N/A psi at max. temp. 300 N/A °F
(Internal) (External)
Min. design metal temp. -20 °F at 852 psi. Hydro. test pressure 1508 psi.
(Internal) (External)
- 10. Nozzles, inspection and safety valve openings: *

Purpose (Inlet, Outlet, Drain)	No.	Diam. or size	Type	Material	Nom. Thk.	Reinforcement Matl.	How Attached	Location
INLET	3	10"-600#	RFWN	SA-105 / SA-234-WPB	.844	WELD METAL	WELDED	-----
OUTLET	2	10"-600#	RFWN	SA-105 / SA-234-WPB	.844	WELD METAL	WELDED	-----
AUX CONN.	5	1"-6000#	CPLG.	SA-105	.500	WELD METAL	WELDED	-----
VENT CONN.	2	1"-6000#	CPLG.	SA-105	.500	WELD METAL	WELDED	-----

- 11. Supports: Skirt ----- Lugs ----- Legs ----- Othe ----- Attached -----
(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, Mfg's name and identifying stamp)
* SAFETY VALVES BY OTHER, PER UG-125 (a) (3) & (g) (2), INSPECTION OPENINGS PER UG-46 (D)
(162) - 1-1/4" O.D. X .135 MW X 30'-0" LG. TUBES; MATERIAL SPEC. SA-214 WELDED CARBON STEEL TUBES
EXEMPT FROM IMPACT TESTING PER UCS-66 (CURVE B & D), UCS-66(c), UG-20(f) ITEM NO.: E-100A

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>17343</u> Expires <u>FEB 12, 2015</u>	
Date <u>7/31/12</u> Co. Name <u>HAMMCO, INC.</u> Signed <u>[Signature]</u>	<small>(Manufacture) (Representative)</small>
CERTIFICATE OF SHOP / FIELD INSPECTION	
Vessel constructed by <u>HAMMCO, INC.</u> at <u>OWASSO, OKLAHOMA</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>OKLAHOMA</u> and employed by <u>ONE BEACON AMERICA INSURANCE CO</u>	
have inspected the component described in this Manufacturer's Data Report on <u>7/31/12</u> and state that, to the best of my knowledge and belief, the Manufacture 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>7-31-12</u> Signed <u>[Signature]</u> Commissions <u>168223A 0126B</u>	<small>(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)</small>