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 1. Manufactured and certified by Tornado Technologies Inc. 3236 50th Ave S.E. Caigary Alberta T2B 3A3 (Name and address of Manufacturer) Husky Energy LTD 300, 2749 - 39 AVE NE, Calgary AB T1Y 4T8, Canada 2. Manufactured for ____ (Name and address of Purchaser) 3. Location of installation LSD # b-049-C\093-P-02 Tumbler Ridge B.C. Canada (Name and address) Horizontal 007094-01 U 8368,213 CRN-60-5-S-T-02 Rev0 N/A 2009 (Horiz, Or vert., tank) (Mfgrs serial No.) (Drawing No.) 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE (Natl. Bd. No.) (Year built) VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section Vill, Division 1 Year Addenda (Date) Code Case Nos. Special Service per UG-120(d) SA 516-70N 0.375"0.125" Matt. (Spec. No., Grade) 4'-11-1/4" Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.) 7. Seams: TYPE 1 **FULL** 100% 1150 Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) TYPE 1 **FULL** Eff. (%) H.T. Temp. (°F) Time (hr) Girth, (Welded, Dbl., Sngl., f.ap, Butt) R.T. (Spot No. of Courses or Full) 8. Heads: (a) Metl. SA 516 70N (b) Matt. <u>SA 516 70N</u> (Spec. No., Grade) (Spec. No., Grade) Location (Top, Minimum Corrosion Crown Knuckle Elliptical Conical Bottom, Ends) Hemispherical Flat Thickness Side to Pressure Allowance Radius Radius Ratio Apex Angle Radius Diameter 1 (a) LEFT (Convex or Concave) 0.3125" 0.125" 2:1 (b) RIGHT 0.3125" Concave 0.125" If removable boits used (describe other fastenings) Concave N/A (Matl., Spec. No., Gr., Size, No.) 9. MAWP __ N/A __ psi at max, temp. __ (external) (external) Min. design metal temp. 49 _ °Fat _ 50 _ psi. Hydro., pneu., or comb. test pressuro Nozzies, inspection and safety valve openings: 65 Hydro Purpose Diam (Inlet, Oullet, Drain) Nom. Reinforcement No How or Size Type Matl. Thk. Material Inlet,Outlet 2 Attached 10" 150cl Location **RFWN** SA 105N\SA-106B 0.500INTEGRAL Bridle Conn, Spare UW16.1(c) 3 3" 150cl Left/Right Head RFWN SA 105N\SA-106B 0.300 INTEGRAL Pump Out 3" 150cl UW16.1(c) Shell RFWN SA 105N\SA-106B 0.300 INTEGRAL Anode, LSHH 4" 150cl <u>U</u>W16.1(c) 2 Shell REWN SA 105N\SA-106B 0.337 INTEGRAL 2" 150cl Left Head/Shell Blanket Gas 1 <u>UW1</u>6.1(c) RFWN SA 105N\SA-106B 0.343 INTEGRAL Vent 10" 150cf UW16.1(c) 1 Shell RFWN SA 105N\SA-106B 0.500 INTEGRAL UW16.1(c) Manway 30" 150cl Sheli SA 105N\SA 516-70N REWN 0.500 INTEGRAL UW16.1(c) Shell 11. Supports: Skirt _ NO Affached Shell-Welded (No.) (Describe) 12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissionad Inspectors have been furnished for the following items of the report: (Name of part, Item number, Mfgr's, name and identifying stamp) Sour Horizontal Flare Knockout Vessel, Construction Drawing: 007094-VES-01-02 R3, Volume is 267,896 cu.ft. Impact Testing No:Exempt as per UCS-66(b), RT-1:Full on circ per UW11(a)5(a) & UW51 Pressure Relief device to be installed as per UG-125 CERTIFICATE OF SHOP/FIELD COMPLIANCE We certify that the statements 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. ∉ expires January 19 2012 Tornado Technologies Inc. (Manufacturer) (Representative) CERTIFICATE OF SHOP/FIELD INSPECTION Tomado Technologies Inc. at 3236 50th Ave S.E. Calgary Alberta T2B 3A3 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 Alberta and employed by __ ABSA JUN Z 5 2009 the pressure vessel 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 properly damage or a loss of any kind arising from or connected with this inspection. DJUN 2 5 7009 Signed ___

___ Commissions _

[Nat'l Board (incl. endorsements), State, Prov. and No.)

(Authorized Inspector)