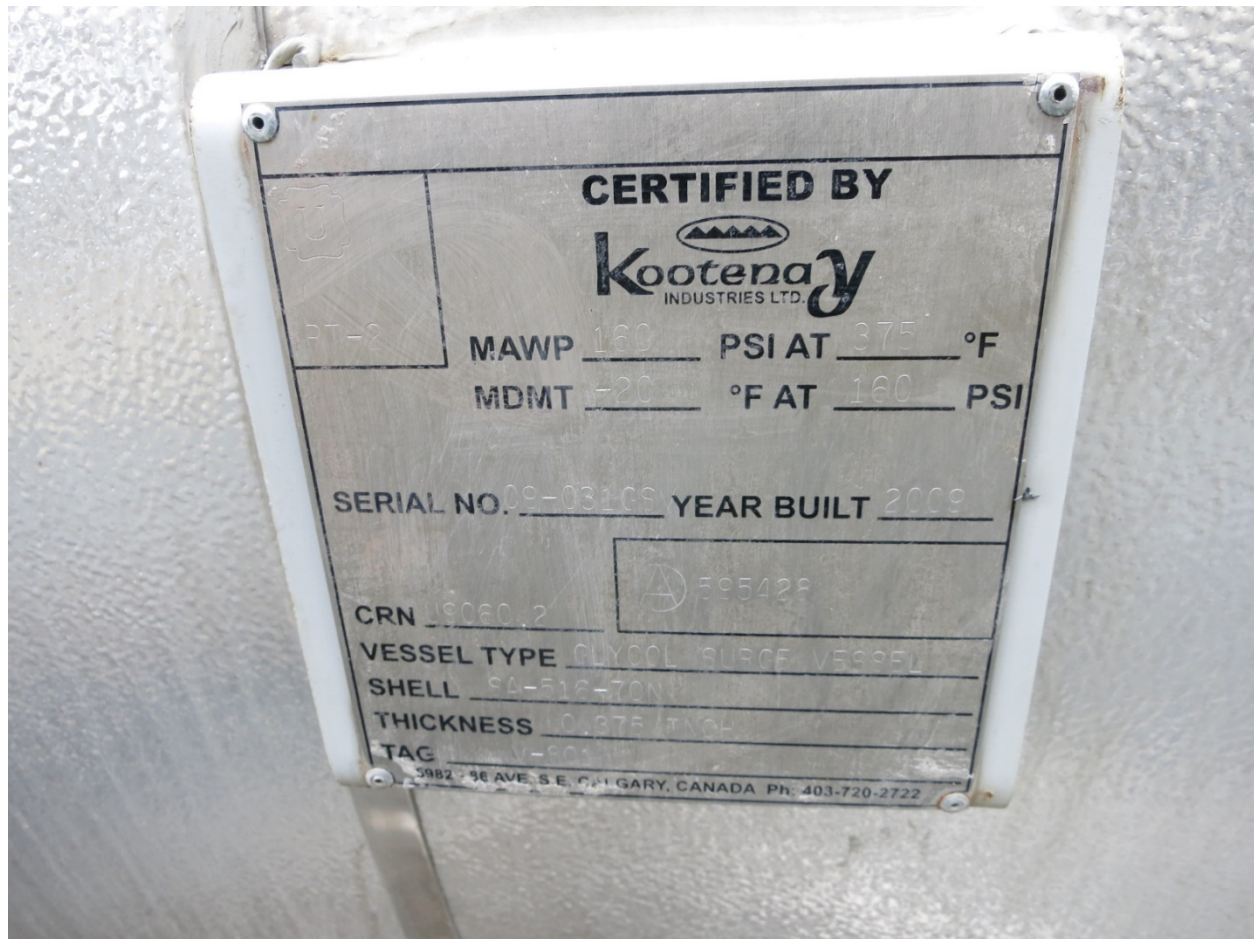
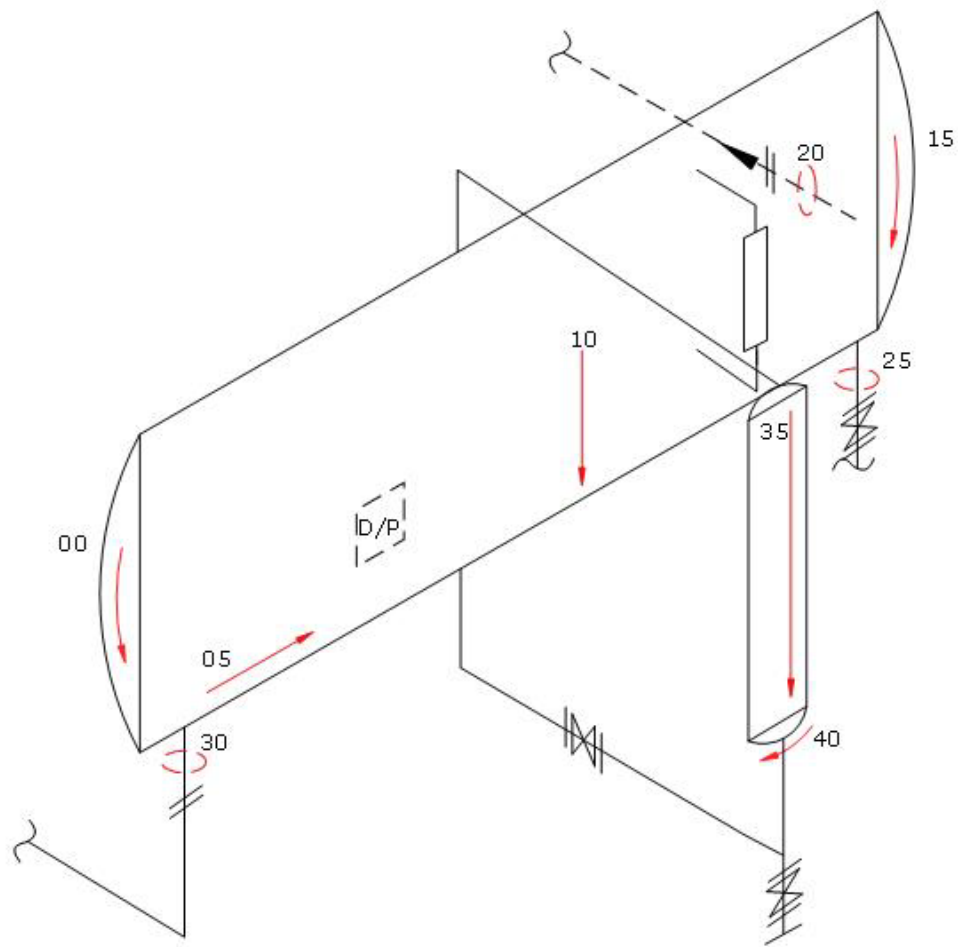




Location Name:	ANSELL FIELD	LSD:	16-15-50-20W5
A#:	A0595428	Equipment/Tag No.	V-801
Equipment Description:	GLYCOL ACCUMULATOR	Serial Number:	09-031GSV
MAWP:	160 PSI	CRN: (or other ID#)	U9060.2
Shell Material:	SA 516 70N	Design Temp:	375°F
Shell Thickness:	0.375"	Head Material:	SA 516 70N
Corrosion Allowance:	0.0625"	Head Thickness:	0.350"
Size:	INS	Date Built:	2009
RT:		Manufacturer:	KOOTENAY
		Pipe / Rolled Plate:	ROLLED PLATE

Notes:









Ultrasonic Corrosion Survey

Survey Name: Husky Energy

Date: Jun 10, 2014

Inspector: W. Gill

LSD: 16-15-050-20W5 Area: Ansell Location: Field
A #: A0595428 Tag Number: V-801 Vessel Name: Glycol Accumulator
CRN: U9060.2 Year Built: 2009 Serial Number: 09-031GVS
Vessel CA: 1.5875 mm Manufacturer: Kootenay
Shell MAWP: 160psi MAWTF: 375°F Tube MAWP: MAWTF:

TML Description		Baseline				Material:	SA-516-70N
00 Head		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape: Ellipsoidal	Min	9.450	7.303	1.588	8.890		
OD:	Avg	9.730					Remaining Life:
Spec: ASME VIII Div.1	Comments:						Retirement Date:

TML Description		Baseline				Material:	SA-516-70N
05 Shell		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape: Cylindrical	Min	9.550	7.938	1.588	9.525		
OD:	Avg	9.680					Remaining Life:
Spec: ASME VIII Div.1	Comments:						Retirement Date:

TML Description		Baseline				Material:	SA-516-70N
10 Shell		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape: Cylindrical	Min	9.420	7.938	1.588	9.525		
OD:	Avg	9.700					Remaining Life:
Spec: ASME VIII Div.1	Comments:						Retirement Date:

TML Description		Baseline				Material:	SA-516-70N
15 Head		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape: Ellipsoidal	Min	9.140	7.303	1.588	8.890		
OD:	Avg	9.650					Remaining Life:
Spec: ASME VIII Div.1	Comments:						Retirement Date:



Ultrasonic Corrosion Survey

Survey Name: Husky Energy

Date: Jun 10, 2014

Inspector: W. Gill

LSD: 16-15-050-20W5	Area: Ansell	Location: Field
A #: A0595428	Tag Number: V-801	Vessel Name: Glycol Accumulator
CRN: U9060.2	Year Built: 2009	Serial Number: 09-031GVS
	Vessel CA: 1.5875 mm	Manufacturer: Kootenay
	Shell MAWP: 160psi	Tube MAWP: MAWTF: 375°F

TML Description	Baseline	Material: A-234-WPB
20 Nozzle	2014	Corr. Rate
Shape: 360° Circ	Min 14.680	Flag 11.113
OD: 8.625"	Avg 14.990	CA 1.588
Spec: ASME VIII Div.1	Comments:	Nominal 12.700
		Assumed
		Remaining Life:
		Retirement Date:

TML Description	Baseline	Material: A-234-WPB
25 Nozzle	2014	Corr. Rate
Shape: 360° Circ	Min 8.610	Flag 7.623
OD: 2.375"	Avg 8.990	CA 1.089
Spec: ASME VIII Div.1	Comments:	Nominal 8.712
		Assumed
		Remaining Life:
		Retirement Date:

TML Description	Baseline	Material: A-234-WPB
30 Nozzle	2014	Corr. Rate
Shape: 360° Circ	Min 10.740	Flag 9.601
OD: 6.625"	Avg 11.150	CA 1.372
Spec: ASME VIII Div.1	Comments:	Nominal 10.973
		Assumed
		Remaining Life:
		Retirement Date:

TML Description	Baseline	Material: A-234-WPB
35 Shell	2014	Corr. Rate
Shape: Bridle	Min 5.940	Flag 5.267
OD: 4.5"	Avg 6.200	CA 0.752
Spec: ASME B31.3	Comments:	Nominal 6.020
		Assumed
		Remaining Life:
		Retirement Date:



Ultrasonic Corrosion Survey

Survey Name: Husky Energy

Date: Jun 10, 2014

Inspector: W. Gill

LSD: 16-15-050-20W5	Area: Ansell	Location: Field
A #: A0595428	Tag Number: V-801	Vessel Name: Glycol Accumulator
CRN: U9060.2	Year Built: 2009	Serial Number: 09-031GVS
	Vessel CA: 1.5875 mm	Manufacturer: Kootenay
	Shell MAWP: 160psi	Tube MAWP: MAWTF:
	MAWTF: 375°F	

TML Description	Baseline	Material: A-234-WPB
40 Head	2014	
Shape: Bridle	Min 5.000	Flag 5.267
OD: 4.5"	Avg 6.050	CA 0.752
Spec: ASME B31.3	Comments: No corrosion found	Nominal 6.020
		T Min 2.032
		Corr. Rate 0.204
		Remaining Life: 15.9 Years
		Retirement Date: 5/6/2030

①595428

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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Kootenay Industries Ltd. 5982-86 Ave.S.E. Calgary, AB T2C 4L7
(Name and address of Manufacturer)

2. Manufactured for Husky Oil Operations Ltd. 707-8 Ave.S.W. Calgary, AB T2P 1H5
(Name and address of Purchaser)

3. Location of installation ANSELL GAS PLANT 07-27-051-19 W5M
(Name and address)

4. Type HORIZONTAL 09-031GSV U9060.2 09-031-A REV.3 N/A 2009
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing Number) (National Board number) (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
(Year)

to 2008 N/A N/A
(Addenda (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell SA-516-70N 0.375" 0.0625" 4'-11 1/4" 28'-6"
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

7. Seams TYPE 1 FULL 100% N/R N/R TYPE 1 SPOT 70% 3
(Long. (welded, dbl., singl., lap, butt)) (R.T. (spot or full)) (Eff., %) (H.T. temp.) (Time, hr) (Girth (welded, dbl., singl., lap, butt)) (R.T. (spot or full)) (Eff., %) (No. of courses)

8. Heads: (a) Material SA-516-70N (b) Material 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)	END	0.350"	0.0625"			2:1				CONCAVE
(b)	END	0.350"	0.0625"			2:1				CONCAVE

If removable, bolts used (describe other fastenings) N/A
(Material spec. number, grade, size, number)

9. MAWP 160 PSIG N/A at max. temp. 375°F N/A
(Internal) (External) (Internal) (External)

Min. design metal temp. -20°F at 160 PSI. Hydro., pneu., or comb. test pressure 208 PSI.

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	Number	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
		SEE	ATTACHED	SUPPLEMENTARY	FORM	U-4		

11. Supports: Skirt NO Lugs 2 Legs NO Other SADDLES Attached TOP & BTM / WELDED
(Yes or no) (Number) (Number) (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, Manufacturer's name and identifying stamp)
VOL.16.60 Cu. M.(586.65 Cu. Ft.) REPLACEMENT GLYCOL SURGE VESSEL RADIOGRAPHY AS PER PARA UW-11(a)5(b)
IMPACT TEST EXEMPT AS PER UG-20(f)1-5, UCS-66(b)(1)(a), UCS-66(c) & UCS-66(b)(1)(c). (SWEET SERVICE)
MANUFACTURE DRAWING# 09-031-A REV.3 Manway Cover 20"CL150 RF Blind Flange- 1 1/8" Studs & Nuts- SA193-B7M & SA-194-2HM

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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 38,258 expires February 11, 2012

Date June 17/09 Co. name Kootenay Industries Ltd. Signed Sirgy
(Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by Kootenay Industries Ltd. at 5982-86 Ave.S.E. Calgary, AB T2C 4L7
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
have inspected the component described in this Manufacturer's Data Report on JUN 17 2009, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her 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 JUN 17 2009 Signed [Signature] Commissions ALA #11
(Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)

① 595428
VHL Division 1

- [illegible]

Certificate of Authorization: Type "U" No. 38,258 Expires February 11, 2012
 Date June 17/09 Name Kootenay Industries Ltd. Signed 
 (Manufacturer) (Representative)
 Date JUN 17 2009 Name  Commissions BCFA # 11
 (Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)