			GENERA	L PRESSURE	VESSEL INFO	RMATION					
District:	St. Albert So	outh			Skid No.:						
Facility:	Ardmore				Location (LSD): 03-01-063-03W4						
Name & Equip	No: CO	NTACTOR - N/	S		Orientation:	Vertical					
Company:	CNRL				Cost Code:						
Status:	Operating				Operating Pro	ovince: Alberta					
Unit:											
				A	BSA						
Plant:					Vessel:						
Process:					Special:						
Amount(\$):											
			PRES	SURE VESSE	L NAMEPLAT	E DATA					
Registration Nu	ımber: 0	079998			Registration Nu	ımber (Other):					
Serial Number:	202102				CRN Number: B811.2						
MAWP:		1,200.00 (psi) 8273.76	(Kpa)	AT temperature: 450.00 (F) 232.22 (C)						
Size (diam. x length): 20.00 x 210.00(In) 508.00 x 334.00 (mm)					Manufacturer: MURDOCK PRODUCTION EQUIPMENT						
X-Ray:	Spot				Lining Or Coate	ed:					
Year Built:	1969				Heat Treatment	t: No					
Code paramete	ers: ASMI	Ī			Corrosion allowance: 0.00 (In) 0.00 (mm)						
					Manway: No						
				PIPING NAM	MEPLATE DAT	A					
Primary Flange	Rating:	600			ASME B16.5 - T	Table 2-1.1 @ 150F:		1480			
Pressure Use F	or TMin:	Vess Design	Press		Piping Operating Press: 1200 (psi)						
Stress Value:	20000	(psi)			E Value: 1						
Comments:											
		1	SERVICE CO	ONDITIONS-1	INDICATE AL	L THAT APPLY					
Sweet ✓	Sweet ✓ Sour Oil				Gas Water						
Amine LPG Condensate					Air Glycol						
Other (Describe	e):										
				COMP	ONENTS	1					
Name	Joint E	fficiency	Outside Diameter(in.)	He	ad Type	Material Type		ess (PSI)	Nominal Thickness(Inch)		
SHELL		0.85	20.00			SA-53 B SMLS	1	5000	0.94		
HEAD		1.00	20.00	Elli	psoidal	Unknown	1	5000	0.94		

GENERAL COMMENTS

ALTERATION MADE BY: BROOKS WELDING SERVICES LTD RT-3, YEAR ALTERED: 1998, DESIGN PRESSURE: 8274 KPA

HEAD MATERIAL: A212 PICS: 2361-2372.



TOTAL INTEGRITY MANAGEMENT SOLUTIONS













OWNER	CNRL	EQUIPMENT #	N/S
EQUIPMENT NAME	CONTACTOR	SERIAL#	202102
REGISTRATION #	0079998	INSPECTION DATE	AUGUST 10, 2011
NOTES		-	

ULTRASONIC CORROSION SURVEY REPORT

EQUIP NAME:CONTACTORSERIAL #:202102DISTRICT:St. Albert SouthPROV REG:0079998CRN:B811.2FACILITY:ArdmoreEQUIP #:N/SLSD:03-01-063-03W4

SUMMARY

TYPE	LAST INSPECTION	INSPECTION INTERVAL (YEARS)	CORROSION RATE (IN/YR) SHORT TERM LONG TERM		REMAINING HALF LIFE (YEARS)	GOVERNING INSPECTION INTERVAL	NEXT INSPECTION DATE
VESSEL	Aug 10, 2011	4.0	0.0000	0.0000	99.0	REGULATORY	Aug 10, 2015
PIPING	Aug 10, 2011	4.0	0.0000	0.0000	99.0	REGULATORT	Aug 10, 2013

VESSEL SURVEY READINGS

		POIN	T DATA (I	DATA (INCH) SURVE			YEY READINGS CALCULATIONS			ATIONS		
POINT NUMBER	TYPE	NOM.	C.A.	NOM-CA	DATE	LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining half life	Flag
05	Head	0.9375	0.0000	0.9375	Aug 10/11	0.929	0.960	0.746	0.0000	0.0000	99.0	LOW RDG IS BETWEEN NOM
10	Shell	0.9375	0.0000	0.9375	Aug 10/11	1.019	1.025	0.907	0.0000	0.0000	99.0	NO COMMENTS
15	Shell	0.9375	0.0000	0.9375	Aug 10/11	0.992	1.010	0.907	0.0000	0.0000	99.0	NO COMMENTS
20	Shell	0.9375	0.0000	0.9375	Aug 10/11	1.018	1.025	0.907	0.0000	0.0000	99.0	NO COMMENTS

PIPING SURVEY READINGS

		POINT DATA (INCH)		SURVEY READINGS			CALCULATIONS						
POINT			Mill	NOM-				T Req	short term	long term	remaining	Flag	
NUMBER	TYPE	NOM.	Tol./CA	CA	DATE	LOW	AVG	(inch)	corr rate	corr rate	half life	riag	
25	90L 2 XS	0.2180	0.0273	0.1907	Aug 10/11	0.223	0.230	0.071	0.0000	0.0000	99.0	NO COMMENTS	
30	BAND 3 STD	0.2160	0.0270	0.1890	Aug 10/11	0.232	0.240	0.105	0.0000	0.0000	99.0	NO COMMENTS	

Field Inspection Report

- CNRL

 Registration #:
 0079998
 Equipment Name:
 CONTACTOR
 Province:
 Alberta

 District:
 St. Albert South
 LSD:
 03-01-063-03W4
 Location:
 Ardmore

CRN: B811.2 Skid Number: Service:

 Manway:
 No
 Coating:
 Equipment Number:
 N/S

 MAWP (psi):
 1200.00 (psi)
 Temp:
 450.00 (F)
 Serial Number:
 202102

Outstanding NCR's: No No.: 0

General:

Safety Valves

Capacity Side: MAWP MAWP PSV No. **Set Press Set Press** Capacity **Imperial** Metric (psi) (kPa) (psi) (kPa) **Imperial** Units Metric Units

1200.00 8273.76 0.00 SCFM

Status: Operating Examination Methods: Access: EXTERNAL Cleaning:

External Inspection

Inspection Date:	Aug 10, 2011	Inspection Interval:	48	Next Insp. Date:	Aug 10, 2015	
<u>Item</u>	Condition	Inspection Comments				
Insulation	N/A					
External Condition	Accept	IN GOOD CONDITION.				
Leakage	Accept	NO VISIBLE LEAKS.				
Skirt/Saddle	Accept					
Anchor Bolts	Accept	VESSEL SECURE.				
Concrete Foundation	Accept					
Ladder/Platform	Concern	NO CAGE ON LADDER.				
Nozzle	Accept	IN GOOD CONDITION.				
Gauges	Accept	IN GOOD CONDITION.				
External Piping	Accept	MINOR EXTERNAL CORROSION ON PIPING, FLA	ANGE BOLTS.			
Valving	Accept	NO VISIBLE LEAKS.				
PSV	N/A	NO ACCESS(HEIGHT).				
NDE Methods	Accept	UT/VT.				
Other	N/A					
Recommendations:	FIT FOR SERVICE.		Inspected By:	Jamey Tanasichuk	ABSA PESL #:	000411

INSPECTOR: I have witnessed/done the above inspections and certify that they have been done in accordance with our

approved manual and that the information is accurate. I certify that the status of the Pressure equipment

detailed here is:

Suitable to be returned to service Repairs complete(AB-40 attached)

Repairs are still required: Suggested Inspection interval: 48

Inspector: Jamey Tanasichuk ABSA PESL #: 000411 Signature: _____ Date: Aug 10, 2011



TOTAL INTEGRITY MANAGEMENT SOLUTIONS





OVERALL



OVERALL



PSV

PSV

OWNER: CNRL	SERIAL # 202102	NOTES
EQUIPMENT NAME: CONTACTOR	NB#	
REGISTRATION # 79998	OWNER ID	
EQUIPMENT #		