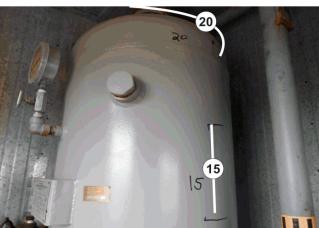
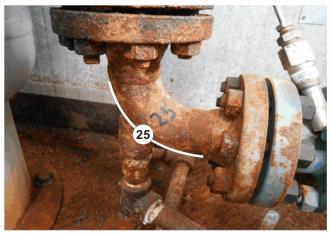
			GENERA	L PRESSURE	VESSEL INFO	RMATION			
District: L	LOYDMINST	ER			Skid No.:				
Facility: G	OLDEN LAK	E			Location (LSD): 06-28-048-23	W3		
Name & Equip N	o: SEPA	ARATOR			Orientation:	Vertical			
Company: C	NRL				Cost Code:				
Status: C	perating				Operating Pro	vince: Alberta			
Unit:					W.O/P.O No.:				
Registration Num	ber: 29	03442			Registration N	lumber (Other):	04364		
Serial Number:	94-03-23				CRN Number:	M2030.2.3			
National Board:					Unique ID:		0	NCOR ID:	147402
			PRE	SSURE VESSE	L NAMEPLAT	E DATA			
Internal Clad:			Painted:	Yes	Hand Hole:				
Insulated:	No				Support Type	Skirt			
Capacity:		М3			MDMT:	-20.00	(F) -28	.89	(C)
MAWP:		735.00 (psi) 5067.68	3 (Kpa)	AT temperature	: 100.00	(F)	37.78	(C)
Size (diam. x len	gth):	24.00 x	60.00(In) 609.60	x 524.00(mm)	Manufacturer:	UNIVERSAL/NUSC	00		
X-Ray: R	Γ3				Lining Or Coate	d:			
Year Built: 1	994				Heat Treatment	:: No			
Code parameters	:				Corrosion allowa	ance:	(In)	0.	00 (mm)
Nozzle Rating: Ib ANSI				I	Manway: No Manway Size:				
				PIPING NA	IEPLATE DAT	A			
Primary Flange R	ating:	300			ASME B16.5 - T	able 2-1.1 @ 150F:		740	(psi)
Pressure Use For	TMin:	Vess Design	Press		Piping Operating Press: 735 (psi)				
Stress Value:	20000	(psi)			E Value:			1	
Comments:									
			SERVICE C	ONDITIONS-1	INDICATE ALI	THAT APPLY		T	
Sweet		Sour		Oil		Gas		Water	
Amine		LPG		Condensate		Air		Glycol	
Other (Describe)									
	_			СОМР	ONENTS				
Name	Joint Eff	iciency	Outside Diameter(in.)	He	ad Type	Material Type		ress e (PSI)	Nominal Thickness(Inch)
SHELL		1.00	24.00			Unknown	1	15000	
HEAD		1.00	24.00	l Elli	psoidal	Unknown		15000	









EQUIPMENT NAME: SEPARATOR NB# REGISTRATION # 2903442 OWNER ID FOURMENT # 4364	OWNER: CNRL	SERIAL # 94-03-23	NOTES
	EQUIPMENT NAME: SEPARATOR	NB#	
FOURDMENT # 4364	REGISTRATION # 2903442	OWNER ID	
EQUIT III ENT TOOT	EQUIPMENT # 4364		

ULTRASONIC CORROSION SURVEY REPORT

EQUIP NAME: SEPARATOR SERIAL #: 94-03-23 DISTRICT: LLOYDMINSTER PROV REG: 2903442 CRN: M2030.2.3 FACILITY: GOLDEN LAKE EQUIP #: LSD: 06-28-048-23W3

SUMMARY

		INSPECTION INTERVAL	CORROSION RATE (IN/YR)		REMAINING	
TYPE	LAST INSPECTION	(YEARS)	SHORT TERM	LONG TERM	LIFE (YEARS)	NEXT INSPECTION DATE
VESSEL	Jun 25, 2013	0.0	0.0000	0.0000	198.0	Jun 25, 2013
PIPING	Jun 25, 2013	0.0	0.0009	0.0009	181.3	Juli 23, 2013

VESSEL SURVEY READINGS

		POIN	T DATA (I	NCH)	SURVE	READING	GS		CALCUL	ATIONS		
POINT NUMBER	TYPE	NOM.	C.A.	NOM-CA	DATE	LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining life	
05	HEAD	0.0000	0.0000	0.0000	Jun 25/13	0.630	0.645	0.563	0.0000	0.0000	198.0	
10	SHELL	0.0000	0.0000	0.0000	Jun 25/13	0.622	0.645	0.577	0.0000	0.0000	198.0	 _
15	SHELL	0.0000	0.0000	0.0000	Jun 25/13	0.650	0.660	0.577	0.0000	0.0000	198.0	
20	HEAD	0.0000	0.0000	0.0000	Jun 25/13	0.633	0.645	0.563	0.0000	0.0000	198.0	

PIPING SURVEY READINGS

		POIN	T DATA (II	NCH)	SURVE	Y READING	GS		CALCUL	ATIONS	
POINT			Mill	NOM-				T Req	short term	long term	remaining
NUMBER	TYPE	NOM.	Tol./CA	CA	DATE	LOW	AVG	(inch)	corr rate	corr rate	life
25	90L 2 XS	0.2180	0.0273	0.1907	Jun 25/13	0.201	0.220	0.044	0.0009	0.0009	181.3

Inspected By	Signature	CGSB Level	CGSB	Survey Date
Gordon Derewianko	lene	1	13896	06/25/2013

 Registration #:
 2903442
 Equipment Name:
 SEPARATOR
 Province:
 Alberta

 District:
 LLOYDMINSTER
 LSD:
 06-28-048-23W3
 Location:
 GOLDEN LAKE

CRN: M2030.2.3 Skid Number: Service:

Manway: No Coating: Equipment Number:

MAWP (psi): 735.00 (psi) **Temp:** 100.00 (F) **Serial Number:** 94-03-23

Outstanding NCR's: No No.:

General:

Safety Valves

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

Shell 735.00 5067.68 720.00 4964.26 4964.00 SCFM

Status: Operating Examination Methods: Access: Cleaning:

External Inspection

Inspection Date: Jun 25, 2013 **Inspection Interval:** Next Insp. Date: Condition **Inspection Comments** <u>Item</u> Insulation N/A **External Condition** Accept IN GOOD CONDITION NO SIGNS OF LEAKS FOUND Leakage Accept IN GOOD CONDITION Skirt/Saddle Accept Anchor Bolts Accept IN GOOD CONDITION Concrete Foundation N/A METAL FLOOR Ladder/Platform N/A Accept IN GOOD CONDITION Nozzle Accept IN GOOD WORKING CONDITION Gauges IN GOOD CONDITION **External Piping** Accept ALL APPEAR TO BE IN GOOD WORKING CONDITION Valving Accept SERVICED IN 2008 SERVICE SEAL IS GOOD PSV Accept NDE Methods Accept UT/VE 2013 Other N/A VESSEL IS FIT FOR SERVICE Recommendations: Inspected By: Jamey Tanasichuk ABSA PESL #:0004 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:

Inspector: Jamey Tanasichuk ABSA PESL #:000411 Signature: _____ Date: Jun 25, 2013

Pressure Safety Valve Summary

PSV Static Data

Client: CNRL

District: LLOYDMINSTER Facility: GOLDEN LAKE

Location: 06-28-048-23W3

Description:

Serial Number: 83668-10

TAYLOR

PSV Number:

CRN: OG1316.2C Manufacturer: Model: T-8200-1 Code Stamp:

Inlet Size: 1 Outlet Size: 1

Side (Shell or Tube): Shell

PSV Service/Inspection

Set Date: 25 Jan, 2008 Service Interval:

Set Pressure (psig): 720 Capacity (scfm): 4964

Service Sealed Intact:

Block Valve Inlet:

Block Valve Outlet:

Block Valve Outlet Locked Open:

Service Company: Ref Number:

Condition: Prepopped Results:
Service Type: Installed Date:

Next Service Date: Comments:

Equipment Protected

 Reg #
 Equip #
 Type
 Name
 Status
 MAWP

 2903442
 Pressure Vessel
 SEPARATOR
 Operating
 735.00

PSV Summary

PSV passes all summary checks.



TOTAL INTEGRITY MANAGEMENT SOLUTIONS





NAMEPLATE







OVERALL

PSV

OWNER: CNRL	SERIAL # 94-03-23	NOTES
EQUIPMENT NAME: SEPARATOR	NB#	
REGISTRATION # 2903442	OWNER ID	
EQUIPMENT # 4364	ONCOR ID	