			GENERA	L PRESSURE	VESSEL INFO	RMATION				
District:	Slave Lake				Skid No.:					
Facility:	12-12 Boney	ard			Location (LSD): 12-12-000-00W0					
Name & Equip	No: SWE	ETNING TOV	VER - N/S		Orientation:	Vertical				
Company:	CNRL				Cost Code:					
Status:	Stock				Operating Pro	vince: Alberta				
Unit:										
				A	BSA					
Plant:					Vessel:					
Process:					Special:					
Amount(\$):										
			PRES	SSURE VESSE	L NAMEPLAT	E DATA				
Registration Nu	mber: 05	42589			Registration Nu	mber (Other):				
Serial Number:	3821-V1				CRN Number: R8092.231					
MAWP: 1,480.00 (psi) 10204.30 (Kpa) AT temperature: 100.00 (F) 37.78 (C)								(C)		
Size (diam. x le	ngth):	24.00 x	120.00(In) 609.60	x 048.00 (mm)	Manufacturer: PLAINS OIL LTD.					
X-Ray: [RT1				Lining Or Coate	d:				
Year Built:	2005				Heat Treatment	:: Yes				
Code paramete	rs: UW12	Α			Corrosion allowance: 0.13 (In) 3.18 (mm)					
					Manway:	No				
				PIPING NAM	MEPLATE DAT	Ά				
Primary Flange	Rating:	600			ASME B16.5 - T	able 2-1.1 @ 150F:		1480	(psi)	
Pressure Use Fo	or TMin:	Vess Design	Press		Piping Operating Press: 1480 (psi)					
Stress Value:	20000	(psi)			E Value:			1		
Comments:										
		_	SERVICE CO	ONDITIONS-1	INDICATE AL	L THAT APPLY				
Sweet		Sour		Oil		Gas		Water		
Amine		LPG		Condensate		Air		Glycol		
Other (Describe):									
	_		i	СОМР	ONENTS	į				
Name	Joint Ef	ficiency	Outside Diameter(in.)	He	ad Type	Material Type	Str Value	ess (PSI)	Nominal Thickness(Incl	
SHELL		1.00	24.00			Unknown	1	7500		
HEAD	1	1.00	24.00	l Elli	psoidal	Unknown	1	7500		

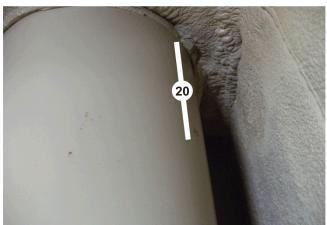
PICS: 287 - 293.

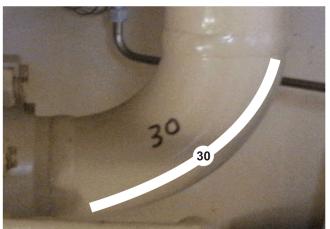


TOTAL INTEGRITY MANAGEMENT SOLUTIONS











OWNER		EQUIPMENT #	N/S
EQUIPMENT NAME	SWEETENER TOWER	SERIAL#	3821-V1
REGISTRATION #	0542589	INSPECTION DATE	APRIL 06, 2011
NOTES			

ULTRASONIC CORROSION SURVEY REPORT

EQUIP NAME: SWEETNING TOWER SERIAL #: 3821-V1 DISTRICT: Slave Lake
PROV REG: 0542589 CRN: R8092.231 FACILITY: 12-12 Boneyard
EQUIP #: N/S LSD: 12-12-000-00W0

SUMMARY

TYPE	LAST INSPECTION	INSPECTION INTERVAL (YEARS)			REMAINING HALF LIFE (YEARS)	GOVERNING INSPECTION INTERVAL	NEXT INSPECTION DATE
VESSEL	Apr 6, 2011	4.0	0.0000	0.0000	99.0	REGULATORY	Apr 6, 2015
PIPING	Apr 6, 2011	4.0	0.0000	0.0000	99.0	REGULATORI	Api 0, 2013

VESSEL SURVEY READINGS

		POINT DATA (INCH)			SURVEY READINGS				CALCULATIONS		
POINT	TYPE	NOM.	C.A.	NOM-CA	DATE	LOW	AVG	T Req	short term	long term	remaining
NUMBER								(inch)	corr rate	corr rate	half life
05	Head	0.0000	0.1250	-0.1250	Apr 6/11	1.104	1.130	0.943	0.0000	0.0000	99.0
10	Shell	0.0000	0.1250	-0.1250	Apr 6/11	1.018	1.025	0.982	0.0000	0.0000	99.0
15	Shell	0.0000	0.1250	-0.1250	Apr 6/11	1.031	1.035	0.982	0.0000	0.0000	99.0
20	Shell	0.0000	0.1250	-0.1250	Apr 6/11	1.030	1.035	0.982	0.0000	0.0000	99.0

PIPING SURVEY READINGS

		POINT DATA (INCH)			SURVEY READINGS			CALCULATIONS			
POINT			Mill	NOM-				T Req	short term	long term	remaining
NUMBER	TYPE	NOM.	Tol./CA	CA	DATE	LOW	AVG	(inch)	corr rate	corr rate	half life
25	90L 2 160	0.3440	0.0430	0.3010	Apr 6/11	0.325	0.340_	0.088_	0.0000	0.0000	99.0
30	_90L 3 XS	0.3000	0.0375	0.2625	Apr 6/11	0.282	0.295	0.129	0.0000	0.0000	99.0
35	90L 3 XS	0.3000	0.0375	0.2625	Apr 6/11	0.295	0.305	0.129	0.0000	0.0000	99.0

0542589 Registration #: **Equipment Name:** SWEETNING TOWER Province: Alberta

District: Slave Lake LSD: 12-12-000-00W0 Location: 12-12 Boneyard

CRN: R8092.231 Skid Number: Service:

Manway: Coating: **Equipment Number:** N/S Serial Number: MAWP (psi): 3821-V1 1480.00 (psi) Temp: 100.00 (F)

Outstanding NCR's: No No.: 0

General:

Safety Valves

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

Shell 1480.00 10204.30 1212-2W 1440.00 9928.51 5180.00 SCFM

Examination Methods: Access: EXTERNAL Status: Stock Cleaning:

External Inspection

Inspection Date:	Apr 6, 2011	Inspection Interval:	48	Next Insp. Date:	Apr 6, 2015	
<u>Item</u>	Condition	Inspection Comments				
Insulation	Accept	IN GOOD CONDITION.				
External Condition	Accept	IN GOOD CONDITION, MINOR SURFACE COR	ROSION AROUND O	UTLET PIPE.		
Leakage	Accept	NO VISIBLE LEAKS.				
Skirt/Saddle	Accept	IN GOOD CONDITION.				
Anchor Bolts	N/A	WELDED.				
Concrete Foundation	N/A					
Ladder/Platform	N/A					
Nozzle	Accept	IN GOOD CONDITION.				
Gauges	Accept	IN GOOD CONDITION.				
External Piping	Accept	IN GOOD CONDITION.				
Valving	Accept	NO LEAKS, IN GOOD CONDITION.				
PSV	Reject	NO OUTLET PIPING, SET DATE- 05/2005.				
NDE Methods	Accept	UT/VT.				
Other	N/A					
Recommendations:	INSTALL OUTLE SERVICE PSV B	et pipe on PSV. Efore USE.	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: **Date:** Apr 6, 2011 Jamey Tanasichuk ABSA PESL #: 000411

Pressure Safety Valve Summary

PSV Static Data

Client: CNRL

District: Slave Lake Facility: 12-12 Boneyard Location: 12-12-000-00W0 PSV Number: 1212-2W

Description:

Serial Number:

22328-4

CRN: OG1316.2C Manufacturer:

Model: T-8200-1

Code Stamp:

TAYLOR

1

Inlet Size: Side (Shell or Tube): Shell Outlet Size:

PSV Service/Inspection

Set Date: 1 May, 2005 Service Interval: 36 Set Pressure (psig): 1440 5180 Capacity (scfm):

Service Sealed Intact: Yes Block Valve Inlet: No

Block Valve Inlet Locked Open: Block Valve Outlet Locked Open:

Block Valve Outlet: Service Company: Condition:

Ref Number: Prepopped Results:

Installed Date:

Next Service Date: 1 May, 2008

No

Comments:

Service Type:

Equipment Protected

Equip # Type **Status MAWP** 1480.00 0542589 N/S Pressure Vessel SWEETNING TOWER Stock

PSV Summary

PSV service is past due.



TOTAL INTEGRITY MANAGEMENT SOLUTIONS





NAMEPLATE







OVERALL

TOP/PSV

OWNER	CNRL	NOTES
EQUIPMENT NAME	SWEETENER TOWER	
REGISTRATION #	0542589	
EQUIP NUMBER	N/S	
SERIAL NUMBER	3821-V1	