



PSV DATA
 MFG: ADERSON
 MODEL: 45310L46/S1/NACE
 SERIAL: B07-06461
 SET PRES: 2813 kPa
 CAPACITY: 2259 GAL/min WATER
 SERVICED BY: PENTAIR
 SERVICE DATE: 06/2013
 SIZE: 4"x4"
 CODE STAMP: UV/NB
 BLOCK VALVE: NO
 CRN: N/S
 LOCATION: N/S
 TAG: N/S

Equip. No. _____ Prov. Reg. No. 435016 C.R.N. A-2352.32 Serial No. 2040V100 Yr. Inst. _____
 Code/Div. ASME VIII, Div 1 Size: 96in x 32ft Manufacturer: PLAINS OIL LTD. Yr. Bld. 1990
 C. Stamp: _____ Service: SWEET PWHT: HT Radiography: RT1 Insulated: 50%

Design & Materials Data
HEAD:
 Top Mat'l. SA 516 70N Top Nom. 30.7mm Top C.A. 3.2mm
 Btm. Mat'l. _____ Btm. Nom. _____ Btm. C.A. _____
CHANNEL:
 Material: _____ Nominal: _____ C.A. _____
BOOT
 Head Mat'l. _____ Head Nom. _____ Head C.A. _____
 Shell Mat'l. _____ Shell Nom. _____ Shell C.A. _____
SHELL
 Material: SA 516 70N Nominal: 31.7mm C.A. 3.2mm
 MAWP Shell Side: 2778 kPa @ Temp. 38°C
 MAWP Tube Side: _____ @ Temp. _____

CLIENT	CANADIAN NATURAL RESOURCES		
FACILITY	HAMBURG WATER INJECTION LSD 13-20-96-09 W6M		
ITEM	FREE WATER KNOCKOUT		
BY: NR	DATE: 06/2013	DWG.#	10

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: FREE WATER KNOCKOUT
CRN#: A-2352.32
PROV REG: A 435016
TESTED ON STREAM

FACILITY: HAMBURG WATER INJECTION
SERVICE: SWEET
LOCATION: 13-20-96-09 W6M
RTD JOB #: 10.113190
REFER TO DRAWING: 10

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
1062												
Description:	2" 90° NOZZLE											
	2013 6											
Min. Thick.	5.4	4.80	1.6	.7	5.50				0	0		
Average:	5.7											
Analysis:	2013/06 RETIREMENT DATE: 2887											
1064												
Description:	2" 90° NOZZLE											
	2013 6											
Min. Thick.	5.2	4.80		.7	5.50				0	0		
Average:	5.3											
Analysis:												
1066												
Description:	2" 90° NOZZLE											
	2013 6											
Min. Thick.	5.7	4.80		.7	5.50				0	0		
Average:	5.9											
Analysis:												
1068												
Description:	BOOT - SHELL											
	2013 6											
Min. Thick.	6	0.00							0	0		
Average:	6.2											
Analysis:												
1070												
Description:	BOOT - HEAD											
	2013 6											
Min. Thick.	5.9	0.00							0	0		
Average:	6.5											
Analysis:	2013/06 MIN SCAN @ KNUCKLE.											

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: FREE WATER KNOCKOUT PIPING
CRN#:
PROV REG:
TESTED ON STREAM

FACILITY: HAMBURG WATER INJECTION
SERVICE: SWEET
LOCATION: 13-20-96-09 W6M
RTD JOB #: 10.113190
REFER TO DRAWING: 10

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
1072												
Description: 4" 90° ELBOW												
2013 6												
Min. Thick.	5.3				5.25	.8	6.00					
Average:	5.6							0	0			
Analysis:												
1074												
Description: 3" 90° ELBOW												
2013 6												
Min. Thick.	4.9				4.81	.7	5.50					
Average:	5.1							0	0			
Analysis:												
1076												
Description: 3" 90° ELBOW												
2013 6												
Min. Thick.	4.8				4.81	1.6	.7	5.50				
Average:	5.1							0	0			
Analysis: 2013/06 RETIREMENT DATE: 2118												
1080												
Description: FLOAT COLUMN - SHELL												
2013 6												
Min. Thick.	7.1				0.00							
Average:	7.5							0	0			
Analysis:												
1081												
Description: FLOAT COLUMN - HEAD												
2013 6												
Min. Thick.	7.2				0.00							
Average:	8							0	0			
Analysis: 2013/06 MIN SCAN @ KNUCKLE.												
1082												
Description: 2" 90° ELBOW												
2013 6												
Min. Thick.	9.6				7.61	1.1	8.70					
Average:	9.8							0	0			
Analysis:												

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: FREE WATER KNOCKOUT PIPING
CRN#:
PROV REG:
TESTED ON STREAM

FACILITY: HAMBURG WATER INJECTION
SERVICE: SWEET
LOCATION: 13-20-96-09 W6M
RTD JOB #: 10.113190
REFER TO DRAWING: 10

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
1083												
Description: 2" 90° ELBOW												
2013 6												
Min. Thick.	9.2				7.61		1.1	8.70			0	0
Average:	9.5											
Analysis:												
1084												
Description: 6" 90° ELBOW												
2013 6												
Min. Thick.	7.1				6.21		.9	7.10			0	0
Average:	7.4											
Analysis:												
1087												
Description: 4" 90° ELBOW												
2013 6												
Min. Thick.	5.8				5.25		.8	6.00			0	0
Average:	6.4											
Analysis:												
1088												
Description: 6" 90° ELBOW												
2013 6												
Min. Thick.	7.5				6.21		.9	7.10			0	0
Average:	7.8											
Analysis:												
1089												
Description: 3" 90° ELBOW												
2013 6												
Min. Thick.	4.1				4.81	1.6	.7	5.50			0	0
Average:	4.8											
Analysis: 2013/06 PITTING GENERAL CORROSION. RETIREMENT DATE: 2054												
1090												
Description: 3" 90° ELBOW												
2013 6												
Min. Thick.	4.9				4.81		.7	5.50			0	0
Average:	5.1											
Analysis:												

UTS DATA

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EQUIPMENT: FREE WATER KNOCKOUT PIPING
CRN#:
PROV REG:
TESTED ON STREAM

FACILITY: HAMBURG WATER INJECTION
SERVICE: SWEET
LOCATION: 13-20-96-09 W6M
RTD JOB #: 10.113190
REFER TO DRAWING: 10

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
1091												
Description: 4" 90° ELBOW												
2013 6												
Min. Thick.	5.1	5.25	1.6	.8	6.00				0	0		
Average:	5.3											
Analysis: 2013/06 RETIREMENT DATE: 2102												
1092												
Description: 4" 90° ELBOW												
2013 6												
Min. Thick.	5.3	5.25		.8	6.00				0	0		
Average:	5.5											
Analysis:												
1093												
Description: 4" 90° ELBOW												
2013 6												
Min. Thick.	5.2	5.25	1.6	.8	6.00				0	0		
Average:	5.5											
Analysis: 2013/06 RETIREMENT DATE: 2117												
1094												
Description: 12" 90° ELBOW												
2013 6												
Min. Thick.	9.4	8.31		1.2	9.50				0	0		
Average:	9.6											
Analysis:												
1095												
Description: 12" 90° ELBOW												
2013 6												
Min. Thick.	9.4	8.31		1.2	9.50				0	0		
Average:	9.9											
Analysis: 2013/06 MIN SCAN @ MID ELBOW MID APEX.												
1096												
Description: 4" 90° ELBOW												
2013 6												
Min. Thick.	5	5.25	1.6	.8	6.00				0	0		
Average:	5.2											
Analysis: 2013/06 RETIREMENT DATE: 2091												