LH-04
A#586342
BSC-1039

Y10-8

12 Dunham Close
Red Deer, AB
t4r 2j5
403-505-0378
carmacoltd@gmail.com

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Client:	BLUESTAR	***Units :***	LH-04
Inspection Date:	MAY 12,2026	***W0 #:***	
Client Rep:	WADE BRANDVOLD	***Technician:***	GEOFF FENTON

Flaw Detector/Thickness Gauge

Make: Dakota	Model: DFX-8	Serial #: 20193	Calibration: May 2026

Ultrasonic Transducer

Manufacturer: Olympus S/N 737AB	Size/Type: 0.250"/Lemo	Mhz: 5	Mode:Longitudinal P-ECT

Calibration Block

Type: Step Block	Material: Carbon Steel	Thickness: 0.100" - 0.500"	Serial #: 15-1035

Client Equipment Inspected: 3"5K LINEHEATER BUNDLE, carbon steel, the Temperature was approx. 21 Deg C.
Client should refer to applicable ASME Code or IRP for Guidelines on Pressure Rating for pipe.
Only small areas are tested for remaining wall thickness. Areas prone to erosion/corrosion are checked(IE. elbows,tee crotches,pipe and vessel walls).
Visual Corrosion in vessel and/or on steam coil is NOT a requirement of this report, that is the Owners responsibility.
Each area was scanned to determine the Minimum and Maximum value, therefore creating an average thickness for the scan.
Any CML found to be thin will be in yellow print, so the Owner can determine if its below their minimum specifications.
All components are coated/painted, approx. paint thickness: 0.001" - 0.050"
This report is information only, the Owner has the sole Responsibility to determine Minimum wall thickness allowable.

GEOFF FENTON, CGSB# 21365 UT 1
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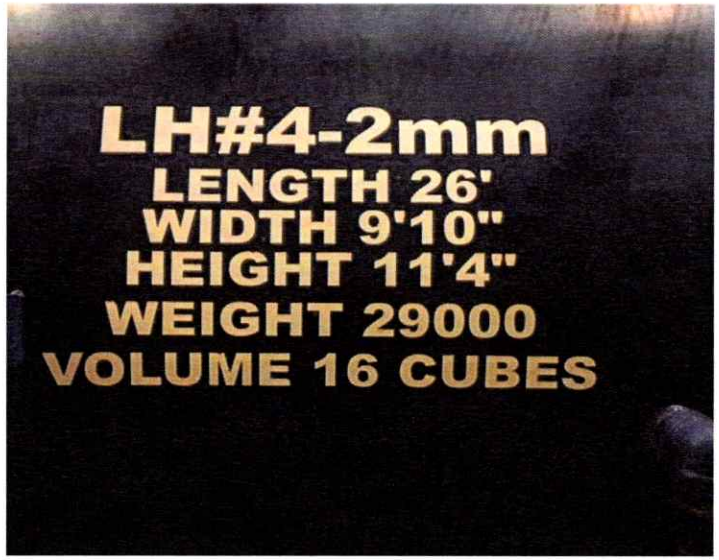

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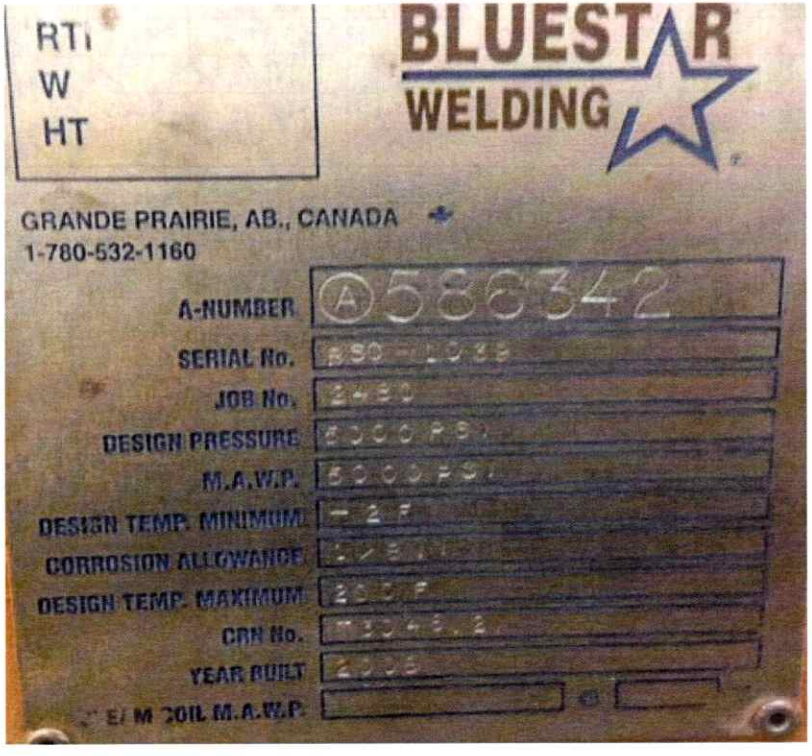





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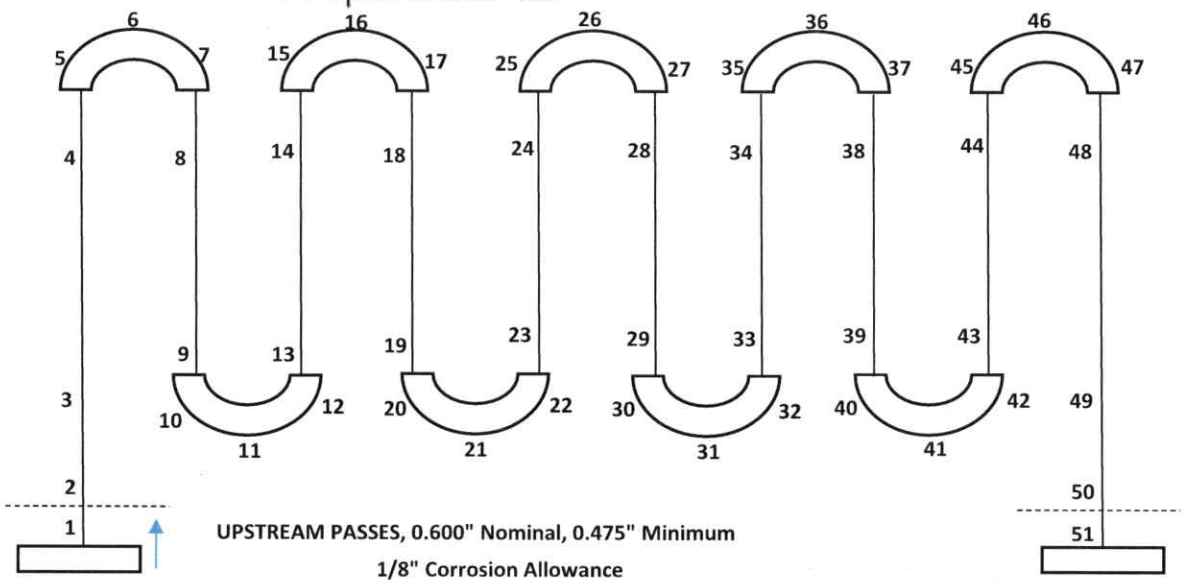
UPSTREAM



UPSTREAM PASSES, 0.600" Nominal, 0.475" Minimum

1/8" Corrosion Allowance

Loc #	Min. Inches	Avg. Inches
45	0.540	0.580
46	0.553	0.569
47	0.555	0.576
48	0.549	0.575
49	0.548	0.583
50	0.557	0.584
51	0.560	0.580

Loc #	Min. Inches	Avg. Inches	Loc #	Min. Inches	Avg. Inches	Loc #	Min. Inches	Avg. Inches	Loc #	Min. Inches	Avg. Inches
1	0.550	0.581	12	0.545	0.582	23	0.550	0.590	34	0.545	0.575
2	0.560	0.590	13	0.560	0.585	24	0.552	0.587	35	0.546	0.580
3	0.555	0.580	14	0.550	0.586	25	0.560	0.584	36	0.550	0.564
4	0.552	0.580	15	0.540	0.590	26	0.640	0.578	37	0.560	0.587
5	0.552	0.571	16	0.560	0.578	27	0.558	0.586	38	0.550	0.580
6	0.515	0.569	17	0.545	0.586	28	0.568	0.587	39	0.554	0.585
7	0.546	0.575	18	0.562	0.580	29	0.570	0.586	40	0.553	0.580
8	0.540	0.584	19	0.554	0.582	30	0.562	0.584	41	0.560	0.578
9	0.550	0.582	20	0.552	0.578	31	0.554	0.580	42	0.561	0.583
10	0.560	0.575	21	0.560	0.590	32	0.555	0.590	43	0.545	0.587
11	0.500	0.520	22	0.548	0.589	33	0.561	0.580	44	0.560	0.576

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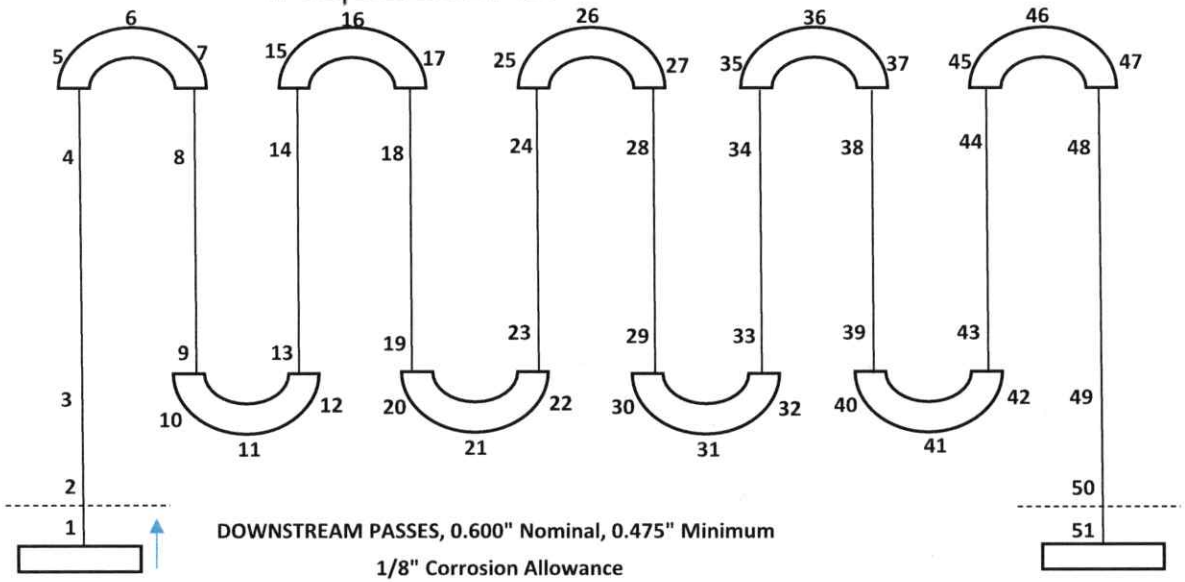
DOWNSTREAM



DOWNSTREAM PASSES, 0.600" Nominal, 0.475" Minimum

1/8" Corrosion Allowance

Loc #	Min. Inches	Avg. Inches
45	0.537	0.560
46	0.537	0.560
47	0.538	0.557
48	0.536	0.560
49	0.542	0.551
50	0.540	0.550
51	0.545	0.560

Loc #	Min. Inches	Avg. Inches	Loc #	Min. Inches	Avg. Inches	Loc #	Min. Inches	Avg. Inches	Loc #	Min. Inches	Avg. Inches
1	0.542	0.562	12	0.537	0.560	23	0.545	0.565	34	0.538	0.559
2	0.538	0.554	13	0.534	0.560	24	0.545	0.562	35	0.535	0.557
3	0.536	0.563	14	0.540	0.558	25	0.542	0.560	36	0.495	0.510
4	0.542	0.548	15	0.540	0.563	26	0.540	0.563	37	0.538	0.562
5	0.545	0.549	16	0.538	0.567	27	0.542	0.557	38	0.541	0.560
6	0.539	0.552	17	0.538	0.565	28	0.536	0.558	39	0.541	0.561
7	0.548	0.551	18	0.538	0.558	29	0.537	0.555	40	0.540	0.558
8	0.542	0.553	19	0.536	0.554	30	0.541	0.561	41	0.480	0.500
9	0.541	0.556	20	0.540	0.560	31	0.480	0.505	42	0.545	0.555
10	0.546	0.548	21	0.500	0.520	32	0.542	0.556	43	0.540	0.561
11	0.539	0.550	22	0.538	0.560	33	0.540	0.562	44	0.541	0.564

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Manifold Pipe Nominal Thickness 0.600" , Min. Thickness 0.475"

LOC #	Description	Min. Inches	Avg. Inches
1	TEE	0.680	0.700
2	PIPE	0.550	0.570
3	CAP	0.574	0.582
4	PIPE	0.562	0.575
5	PIPE	0.545	0.560
6	PIPE	0.550	0.564
7	CAP	0.545	0.563
8	PIPE	0.561	0.578
9	CROSS BRANCH	0.650	0.673
10	CAP	0.548	0.562
11	PIPE	0.540	0.560
12	TEE	0.625	0.654
13	CAP	0.543	0.578
14	PIPE	0.540	0.580
15	PIPE	0.550	0.575
16	CAP	0.710	0.740
17	TEE	0.634	0.660