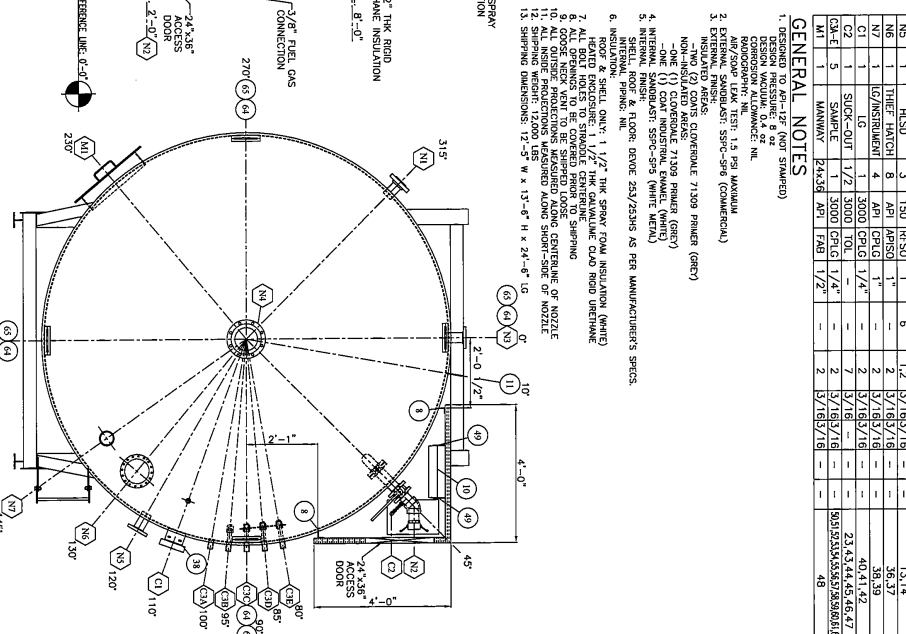
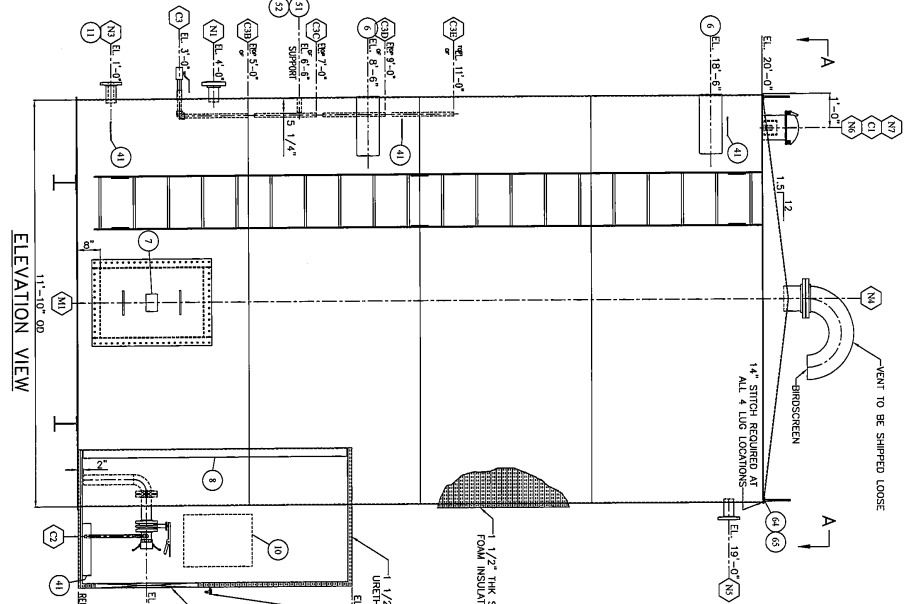


Table with 7 columns: NO., REGISTERED WELDING PROCEDURE NUMBER, ROOT, HOT PRESSURE, HILL & GAP, BACKWELD COUPLER, BACKWELD COUPLER. Includes diagrams for various weld types.

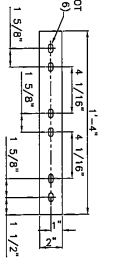


NOZZLE SCHEDULE table with columns: MARK, QTY, DESCRIPTION, WPS, CLASS TYPE, PROTECTION, WELD, INSIDE, WELD, REPAD, ITEM NUMBER. Lists nozzle specifications for various parts.

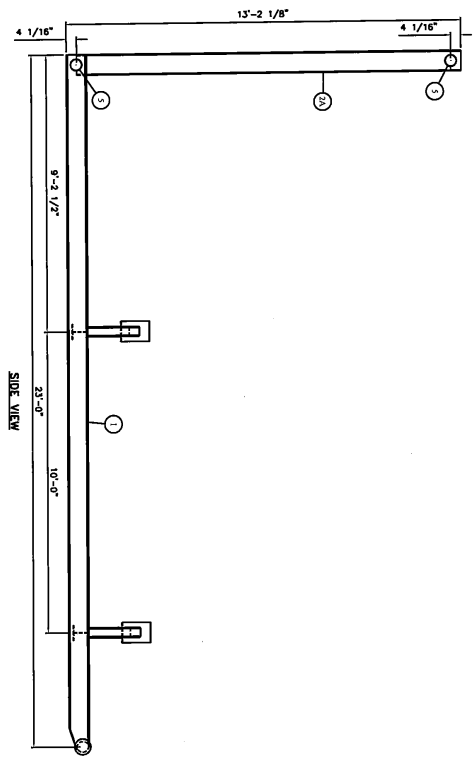
- GENERAL NOTES
1. DESIGNED TO API-11B (NOT STAMPED)
2. DESIGN PRESSURE: 4.0 PSIG
3. DESIGN TEMPERATURE: 200 F

BILL OF MATERIALS table with columns: ITEM, QTY, REF., PART No., DESCRIPTION, MATERIAL, WEIGHT. Lists materials for various components like shells, nozzles, and elbows.

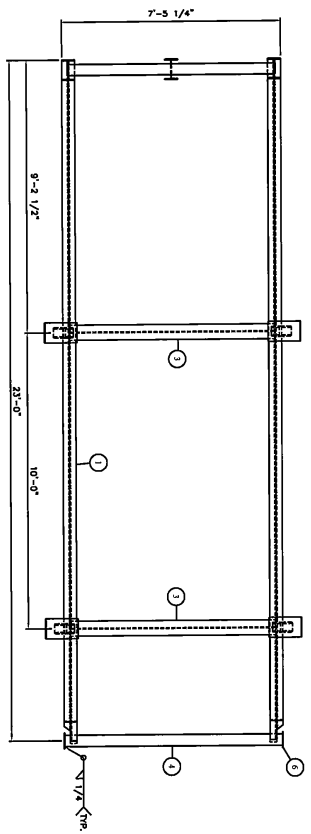
Revision table, drawing title, and contact information for Penn West Petroleum Ltd. Includes fields for REV., DATE, REVISION, BY, APP'D.



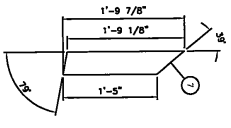
AS BUILT CERTIFIED



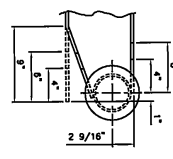
SIDE VIEW



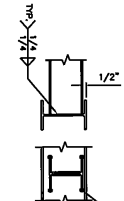
TOP VIEW



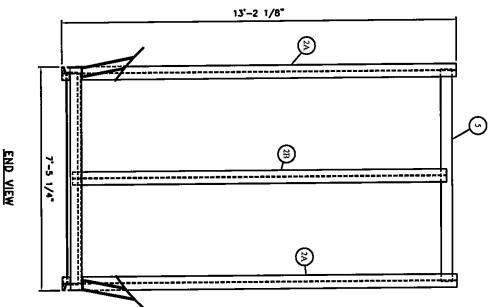
SAWTOOTH & REPAIR DETAIL



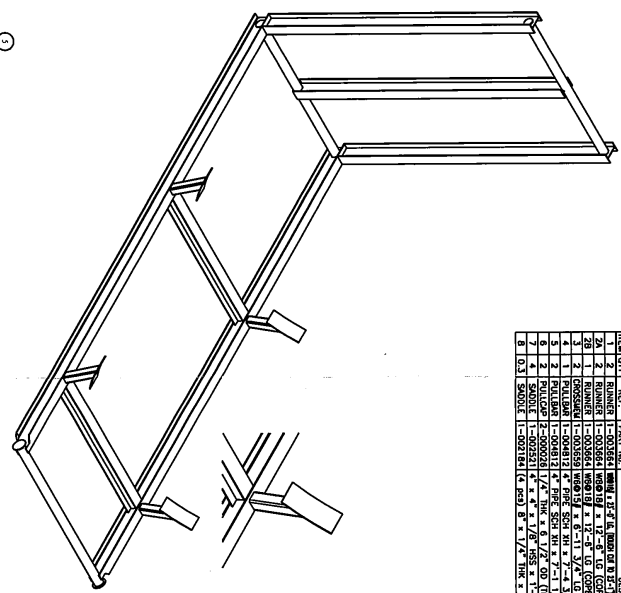
BILL COPE DETAIL



CROSSMEMBER DETAIL

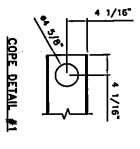


END VIEW

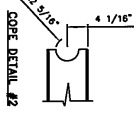


ITEM QTY		REF	ITEM NAME	DESCRIPTION	MATERIAL	WEIGHT
2	1	1	RUNNER	12" X 1/2" X 1/4"	SA-307	4.97
2	1	2	RUNNER	12" X 1/2" X 1/4"	SA-307	4.97
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12
1	1	1	PLATE	6" X 1/2" X 1/4"	SA-307	2.12

BILL OF MATERIALS



COPE DETAIL #1



COPE DETAIL #2

GENERAL NOTES:
 1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 2. WELD PROFILES TO MEET AS MECHANICAL FABRICATOR'S REQUIREMENTS.
 3. ALL WELDS TO BE FULL PENETRATION WELDS.
 4. EXTERNAL SANDBLAST, N/A.
 5. APPROXIMATE WEIGHT 2,000 LBS.

REV.	DATE	REVISION	BY	APP'D.
0	07/22/11	ISSUED FOR FABRICATION	DSD	

WELDING & MANUFACTURING LTD.
 400 BILTON INDUSTRIAL PARK
 BILTON, ONTARIO L7R 7N7
 905-271-7796
 905-271-7797
 905-271-7798
 905-271-7799
 905-271-7800
 905-271-7801
 905-271-7802
 905-271-7803
 905-271-7804
 905-271-7805
 905-271-7806
 905-271-7807
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 905-271-7818
 905-271-7819
 905-271-7820

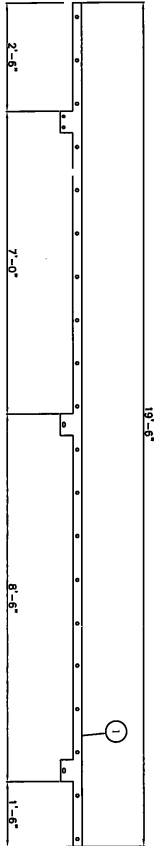
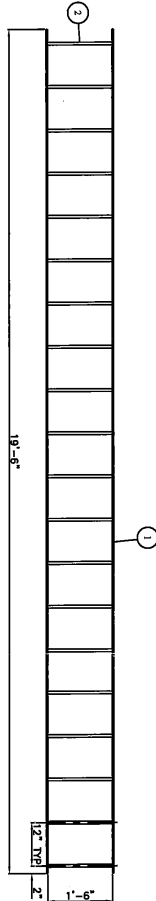
CERTIFIED AS BUILT

FILE PATH:

- GENERAL NOTES:**
1. LADDER DESIGNED & FABRICATED TO:
 2. WELD PROCEDURE: CW-1/MC-1
 3. EXTERNAL SANDBLAST: N/A
 4. EXTERNAL FINISH: N/A
 5. APPROXIMATE WEIGHT: 190 LBS

BILL OF MATERIALS

ITEM QTY	REF.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
2	1	2-00034	SAW 3/8" THK x 2 1/2" x 23' 6 3/4" LG	SA-36	499
2	20	2-00039	RUNGS 3/4" DIA. x 1' 6 3/4" LG	SA-36	499

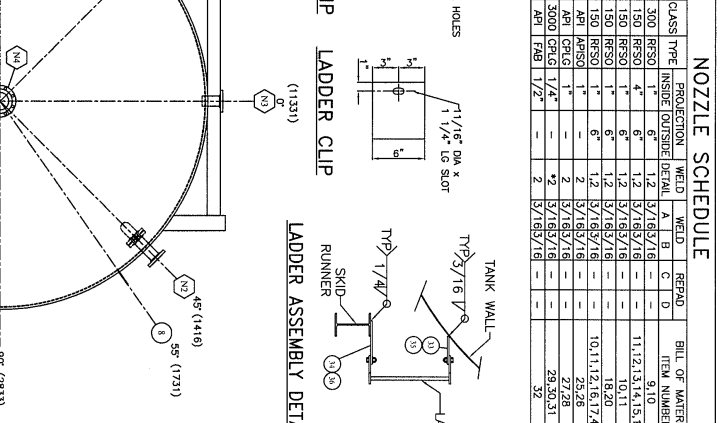
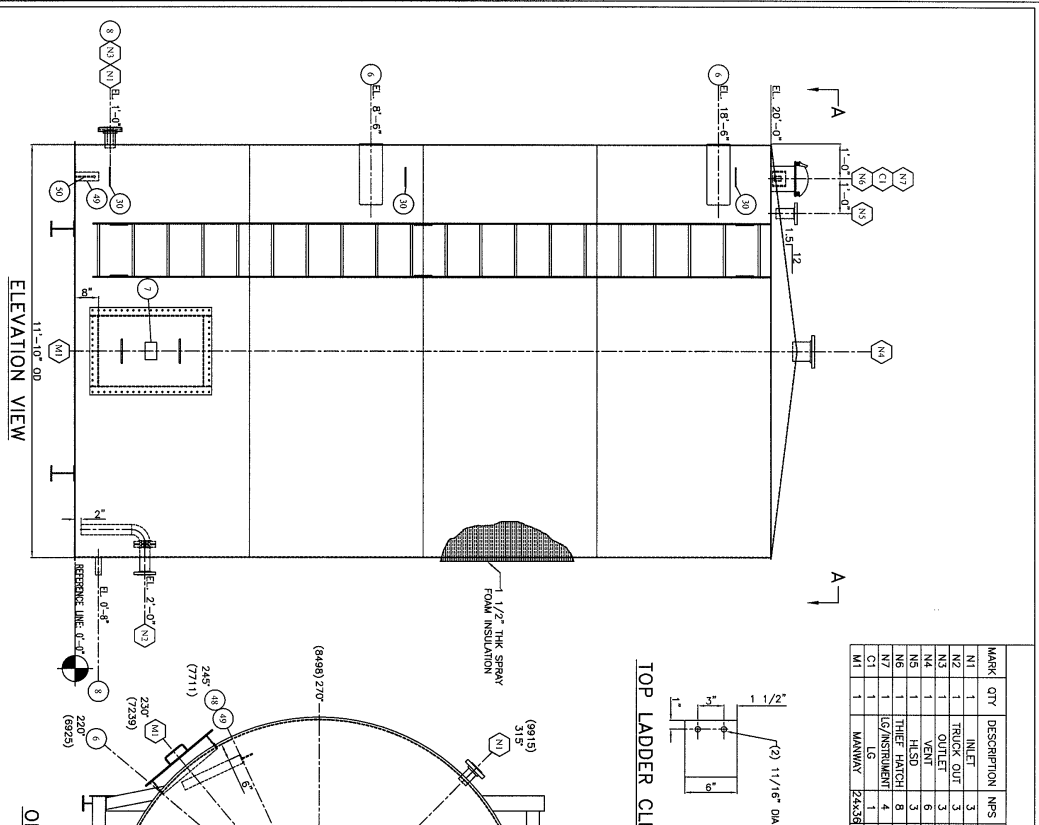
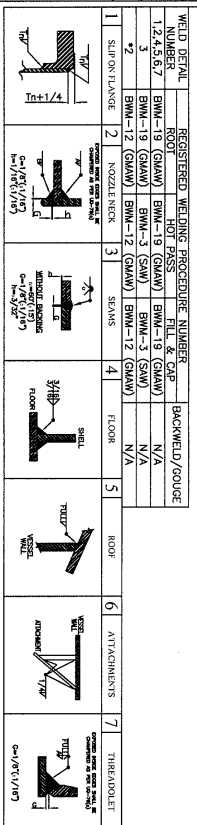


LADDER DETAILS

CERTIFIED AS BUILT

REV.	DATE	REVISION	BY	APP'D
0	07/28/11	ISSUED FOR FABRICATION	DGG	

BILTON		BOX CODE:
Welding & Manufacturing Ltd.		881.5 37 Street
1-888-227-4993		INNSWICK, AB
403-227-7799		
DATE: 07/17/11		
SHEET 1 OF 1		
DRAWN BY: DGG		
CHECKED BY: DGG		
APPROVED BY: [Signature]		
JOB ORDER: 11238		
DRAWING NO.: 11238-1		
REV: 0		



NOZZLE SCHEDULE

MARK	QTY	DESCRIPTION	NPS	CLASS	TYPE	PROTECTION	WELD	REPAID	BILL OF MATERIALS
									ITEM NO.
N1	1	INLET	3	3000	RFSG		1/2" LG		11.21.13.14.15.16.17
N2	1	TRUCK OUT	3	150	RFSG		1/2" LG		10.11
N3	1	OUTLET	3	150	RFSG	1"	3/16" LG		18.20
N4	1	VENT	6	150	RFSG	1"	3/16" LG		25.26
N5	1	VENT	6	150	RFSG	1"	3/16" LG		29.30.31
N6	1	THIEF HATCH	8	API	API50	1"	3/16" LG		32
N7	1	EG/INSTRUMENT	4	API	API50	1"	3/16" LG		
N8	1	3000	CHRG	1-2"	2	3/16" LG			
C1	1	MANWAY	24x36	API	788	1/2"	2	3/16" LG	

BILL OF MATERIALS

ITEM	QTY	REF.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
1	2	BRIEL	2-004698	3/16" THK x 80" W ROD TO 11'-0" OD (GR-C-37-2 1/8" LG)	SA-36	1152
2	2	SHRDL	2-004699	3/16" THK x 112" W ROD TO 11'-0" OD (GR-C-37-2 1/8" LG)	SA-36	4350
3A	1	ROOF	2-003570	3/16" THK x 12'-0" OD (121.5 SQFT)	SA-36	4350
4	1	ROOF	2-003571	3/16" THK x 12'-0" OD (121.5 SQFT)	SA-36	4350
5	1	ROOF	1-009471	LADDER ASSEMBLY		200
6	1	ROOF	1-009472	LADDER ASSEMBLY		200
7	1	ROOF	1-009473	LADDER ASSEMBLY		200
8	1	ROOF	1-009474	LADDER ASSEMBLY		200
9	1	ROOF	1-009475	LADDER ASSEMBLY		200
10	1	ROOF	1-009476	LADDER ASSEMBLY		200
11	1	ROOF	1-009477	LADDER ASSEMBLY		200
12	2	SMOULDS	2-000218	4" x 6" NAVELTYPE BRACKET	A-565	2
13	1	BRKING	2-000228	2" x 1/2" THK x 8" LG C/W HOLE (TEMPLATE #16)	SA-244-WPB	3
14	1	N2	1-000844	3" x 90" BW ELBOW SCH STD	SA-106-B	4
15	1	N2	1-003583	3" PIPE SCH STD x 1 1/2" LG (CBE)	SA-106-B	12
16	8	N2/N5	1-020271	5/8" DIA x 3 1/2" LG STUD	SA-194-2M	20
17	16	N2/N5	1-020272	5/8" DIA x 2" LG BOLT	GR 5	
18	1	N4	1-001888	5/8" DIA NUT	GR 5	
19	1	N4	1-001889	5/8" DIA W/ WEDG	GR 5	
20	1	N4	1-001890	5/8" DIA W/ WEDG	GR 5	
21	1	N6	1-004035	8" API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
22	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
23	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
24	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
25	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
26	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
27	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
28	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
29	1	N7	1-008853	API THIEF HATCH CONNECTION ASSEMBLY (SOUP)	SA-240-304	4
30	3	C1	2-000056	CALDERBOARD PARS: 4" x 1/2" THK x 6 1/2" LG (TEMPLATE #14)	SA-36	6
31	1	C1	1-012421	105-5010 (MID) (LVL) (ORIG) (200) 5/8" DIA (ROD) & BRACKETS (2BT)		150
32	1	LADDER	2-000281	LADDER CLIP: 3/8" THK x 8 1/2" LG HOLES (SEE DETAIL)	SA-36	6
33	1	LADDER	2-000282	LADDER CLIP: 3/8" THK x 8 1/2" LG HOLES (SEE DETAIL)	SA-36	6
34	1	LADDER	2-000283	LADDER CLIP: 3/8" THK x 8 1/2" LG HOLES (SEE DETAIL)	SA-36	6
35	2	LADDER	2-000284	LADDER CLIP: 3/8" THK x 8 1/2" LG HOLES (SEE DETAIL)	SA-36	10
36	2	LADDER	2-000285	LADDER CLIP: 3/8" THK x 8 1/2" LG HOLES (SEE DETAIL)	SA-36	10
37	8	LADDER	1-002071	5/8" DIA x 2" LG BOLT	GR 5	
38	8	LADDER	1-001888	5/8" DIA NUT	GR 5	
39	1	LADDER	1-015718	DBI LAB-SPE 30 FLEXIBLE FALL ARREST SYSTEM		
40	1	LADDER	1-009531	DBI SCENE & CHANGE MODEL 61180Z FALL ARREST SYSTEM		
41	1	LADDER	1-009532	DBI SCENE & CHANGE MODEL 61180Z FALL ARREST SYSTEM		
42	1	LADDER	1-009533	DBI SCENE & CHANGE MODEL 61180Z FALL ARREST SYSTEM		
43	1	ANODE	2-000531	ANODE CLIP: 3" x 3/8" THK x 8" LG (TEMPLATE #15)	SA-36	4
44	1	ANODE	2-000532	ANODE CLIP: 3" x 3/8" THK x 8" LG (TEMPLATE #15)	SA-36	4
45	1	ANODE	2-000780	ANODE GUSSET: 4" x 6" x 3/8" THK	SA-36	4
46	1	ANODE	2-000781	ANODE GUSSET: 4" x 6" x 3/8" THK	SA-36	4
51	1	ANODE	1-006286	ANODE BOLT: 5/8" DIAMETER x 2" LONG	188SS NF	-

GENERAL NOTES

- DESIGN PRESSURE: 20 PSIG
- TEMPERATURE: 200°F
- CORROSION ALLOWANCE: NIL
- EXTERNAL SANDBLAST: SSPC-SP6 (COMPOUND)
- INSULATED AREA:
- INSULATION: NON-FIBRIL (2) COATS STERILIZED 71300 PRIMER (GREY) NON-FIBRIL (1) COAT INDUSTRIAL PAINT (WHITE) ONE (1) COAT INDUSTRIAL PAINT (WHITE) ONE (1) COAT INDUSTRIAL PAINT (WHITE) ONE (1) COAT INDUSTRIAL PAINT (WHITE)
- INTERNAL FINISH: 304-SS-304 (20 GA THK)
- EXTERNAL FINISH: 304-SS-304 (20 GA THK)
- INSULATION: 1 1/2" THK FOAM INSULATION (WHIT)
- ALL GASKETS TO BE COVERED PRIOR TO SHIPPING
- ALL GASKETS TO BE COVERED PRIOR TO SHIPPING
- ALL GASKETS TO BE COVERED PRIOR TO SHIPPING
- ALL OUTSIDE PRODUCTIONS MOUNTED ALONG CENTERLINE OF NOZZLE
- SERIAL NUMBERS: 12-5" W x 13'-6" H x 24'-6" LG
- SERIAL NUMBERS: 12-5" W x 13'-6" H x 24'-6" LG

BILTON

Welding & Manufacturing Ltd. 400 BR. SINGLE WALL WATER STORAGE TANK

117/17/11

DATE: 11/7/11

SCALE: ORDER: 020839

DRAWING NO.: D1964

REV.: D

DATE: 11/7/11

SCALE: ORDER: 020839

DRAWING NO.: D1964

REV.: D

DATE: 11/7/11

SCALE: ORDER: 020839

DRAWING NO.: D1964

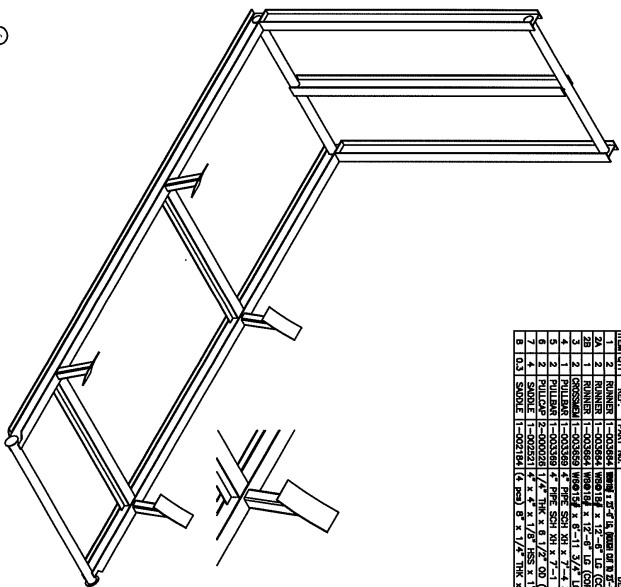
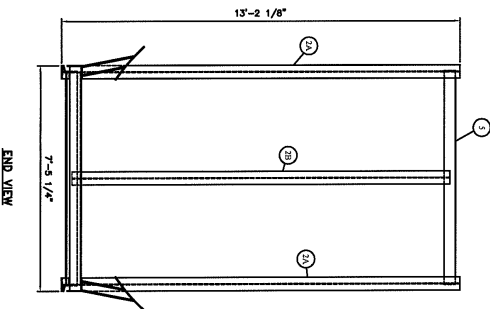
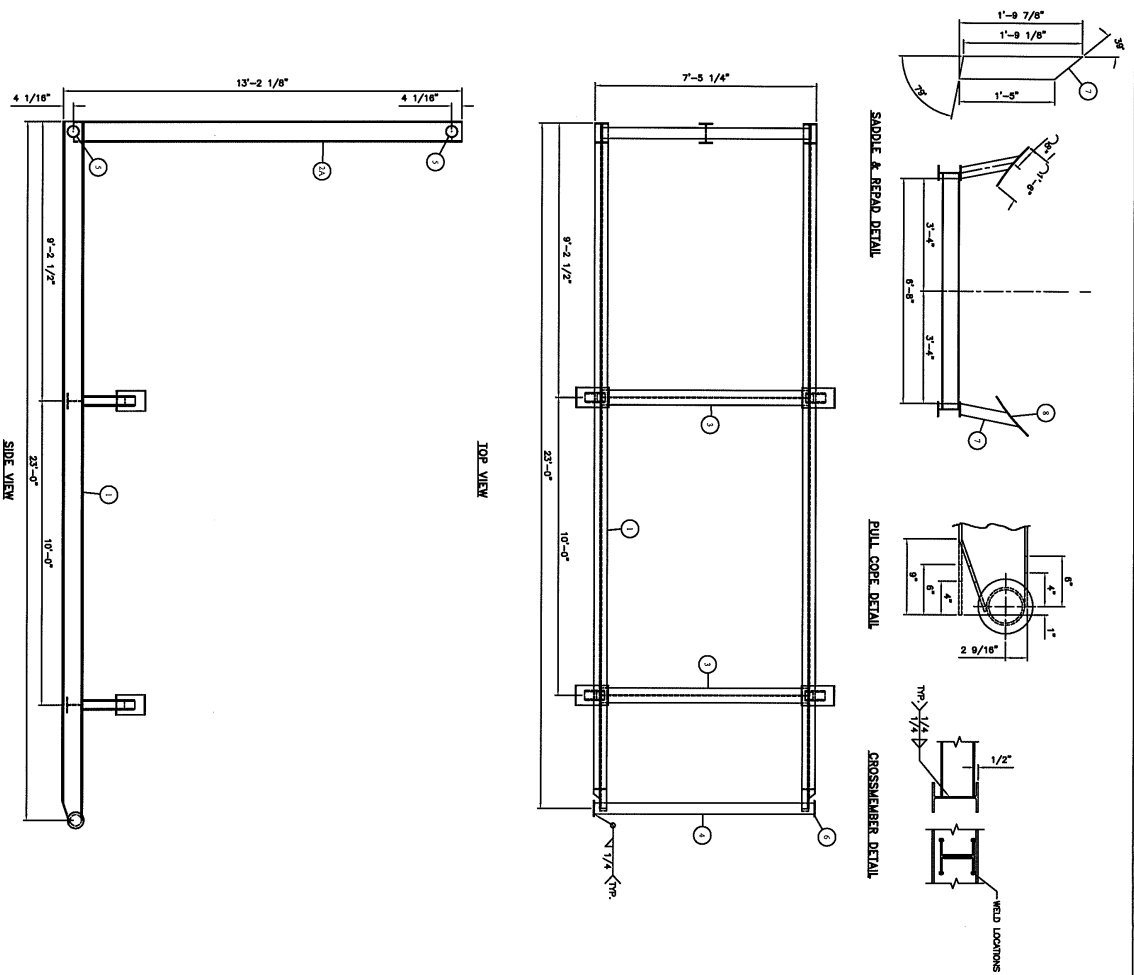
REV.: D

DATE: 11/7/11

SCALE: ORDER: 020839

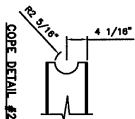
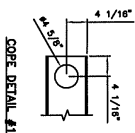
DRAWING NO.: D1964

REV.: D



BILL OF MATERIALS

ITEM NO.	QTY	REF.	PART No.	DESCRIPTION	UNIT	AMOUNT	WEIGHT
1	2		MINNER	COSSEL W8018 10 x 17 1/2 x 1/2 (LB CORN ONE END MS PER DETAIL #1)	SC-36	2.00	658.0
2	2		MINNER	COSSEL W8018 10 x 17 1/2 x 1/2 (LB CORN ONE END MS PER DETAIL #1)	SC-36	2.00	658.0
3	2		CROSSMEM	COSSEL W8018 10 x 17 1/2 x 1/2 (LB CORN ONE END MS PER DETAIL #2)	SC-36	2.00	658.0
4	1		FULLCORE	COSSEL 1/4\"/>			



GENERAL NOTES:

- 1. LUGS DESIGNED & FABRICATED TO
- 2. WELD PROCEEDURE: 60-11/40-1
- 3. MP DESIGNED FOR 11.5KX1 & 11.5KX3 CSA W89 LATEST EDITION
- 4. TOP FILLERS W/VA
- 5. EXTERNAL FINISH W/VA
- 6. APPROXIMATE WEIGHT: 2200 LBS

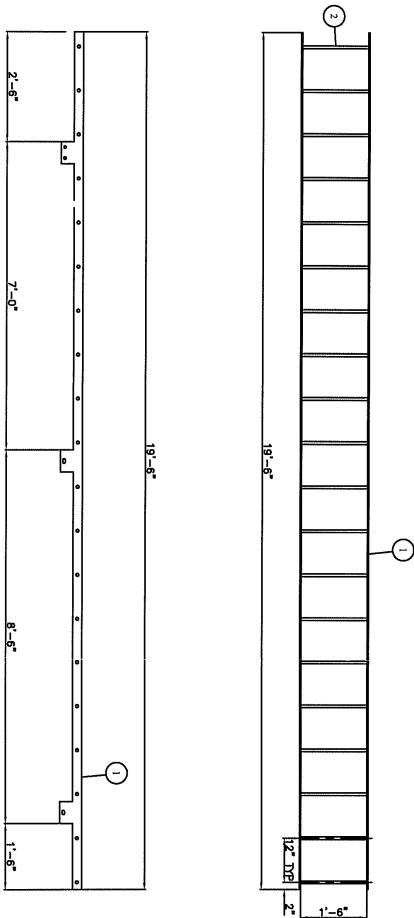
REV.	DATE	REVISION	BY	APP'D
0	11/24/11	ISSUED FOR FABRICATION	DBD	

BILTON		BILTON WELDING & MANUFACTURING LIMITED	
INDUSTRIAL & COMMERCIAL SERVICE LTD.		STANDARD T-SHIRT NECK	
1588-222-2403		11465-1	
525-111-7176		11465-1	
525-111-7176		11465-1	
525-111-7176		11465-1	
525-111-7176		11465-1	
525-111-7176		11465-1	
525-111-7176		11465-1	
525-111-7176		11465-1	
525-111-7176		11465-1	

AS-BUILT

FILE PATH:

LADDER DETAILS



- GENERAL NOTES:**
1. LADDER DESIGNED & FABRICATED TO: PIP AND OHMS REQUIREMENTS
 2. WELD PROCEDURE: OM-1/MC-1
 3. EXTERNAL SURFACES: N/A
 4. APPROXIMATE WEIGHT: 150 LBS

BILL OF MATERIALS			MATERIAL	WEIGHT
ITEM QTY	REF.	PART No.	DESCRIPTION	
1	2	000044	RAIL: 3/8" THK x 2 1/2" LG	SA-36 140#
2	20	LAODER	1-0082991 RUNGS: 3/4" THK x 1'-6" 3/4" LG	SA-36 48#

REV.	DATE	REVISION	BY	APP'D
0	11/14/11	ISSUED FOR FABRICATION	DDO	

BILTON		BOX 6106	BILTON WELDING & MANUFACTURING LTD.	
Welding & Manufacturing Ltd.		INDUSTRIAL AVE	400 BEL TANK	
1888-237-4032		3814 37 Street	LADDER DETAIL	
409-237-7199			SALE ORDER: 11466	
DATE: 01/17/11		DRAWN BY: DDO		SIZE: D
SHEET 1 OF 1		CHECKED BY: DDO		DRAWING NO.: 11466-1
APPROVED BY: [Signature]		DATE: [Signature]		REV: 0

AS-BUILT

TANK INSPECTION REPORT

Report # **TK- ET10AUG2015b**

Inspector: Ed Tymensen,
API 510 #27479, API 653 # 50479



Reference Inspection Report # _____

Facility	<u>Drayton Valley</u>	Location	<u>Warehouse / Boneyard</u>	Date	<u>Aug 10, 2015</u>
Serial #	<u>STTK-QJ-T2-15675</u>	PW Equipment #	<u>PWA - 19577</u>	Capacity	<u>400 bbl</u>
Manufacturer	<u>Bilton</u>	Year	<u>2011</u>	Product Stored	_____
Tank Location	Construction <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass Other: _____				

Thickness: **Floor** 3/16" 1/4" 5/16" **Shell** 1/8" 3/16" 1/4" **Roof** 1/8" 3/16" 1/4"

FLOOR

External Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> Inspection Not Performed
Internal Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	_____
Bottom Plate Projection	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<u>Not visible, foam insulated</u>
Internal Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> N/A
Floor Leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
UT Inspected	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> UT Inspection Not Performed

Comments/Recommendations: Floor underside 100% visible. No corrosion or damage noted. Floor topside coated, coating in good condition. No failures noted. UT scans found no evidence of wall thinning.

ROOF

External Condition	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Roof Leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Vented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Internal Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory		
Internal Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> N/A	

Random Roof Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10

Comments/Recommendations: Roof foam insulated on external side. No visual performed. Roof coated internally, coating in acceptable condition, no signs of failure noted.

SHELL

External Condition	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Shell Leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	Nozzles Back Welded?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Internal Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory		
Internal Coating Condition	<input checked="" type="checkbox"/> Satisfactory	<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> N/A	

Manual Shell Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10
North	0.225"	0.220"	0.218"	0.220"	0.221"	0.220"	0.220"	0.221"	0.219"	0.219"
East	0.228"	0.229"	0.225"	0.224"	0.220"	0.224"	0.226"	0.215"	0.219"	0.220"
South	0.218"	0.220"	0.215"	0.214"	0.218"	0.219"	0.213"	0.212"	0.209"	0.211"
West	0.225"	0.225"	0.221"	0.219"	0.220"	0.216"	0.218"	0.218"	0.217"	0.214"

Comments/Recommendations: Shell foam insulated externally. No visual performed. Foam insulation in good condition. Shell coated internally, coating in acceptable condition, with no failures noted.

NOZZLES

External Condition Satisfactory Unsatisfactory Inspection Not Performed
 Internal Condition Satisfactory Unsatisfactory
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Nozzle and Manway External UT Thickness Results

Description	Size (inches)	Location	Re-pad		Neck Thickness (inches)				Center Line
			Yes	No	0°	90°	180°	270°	
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
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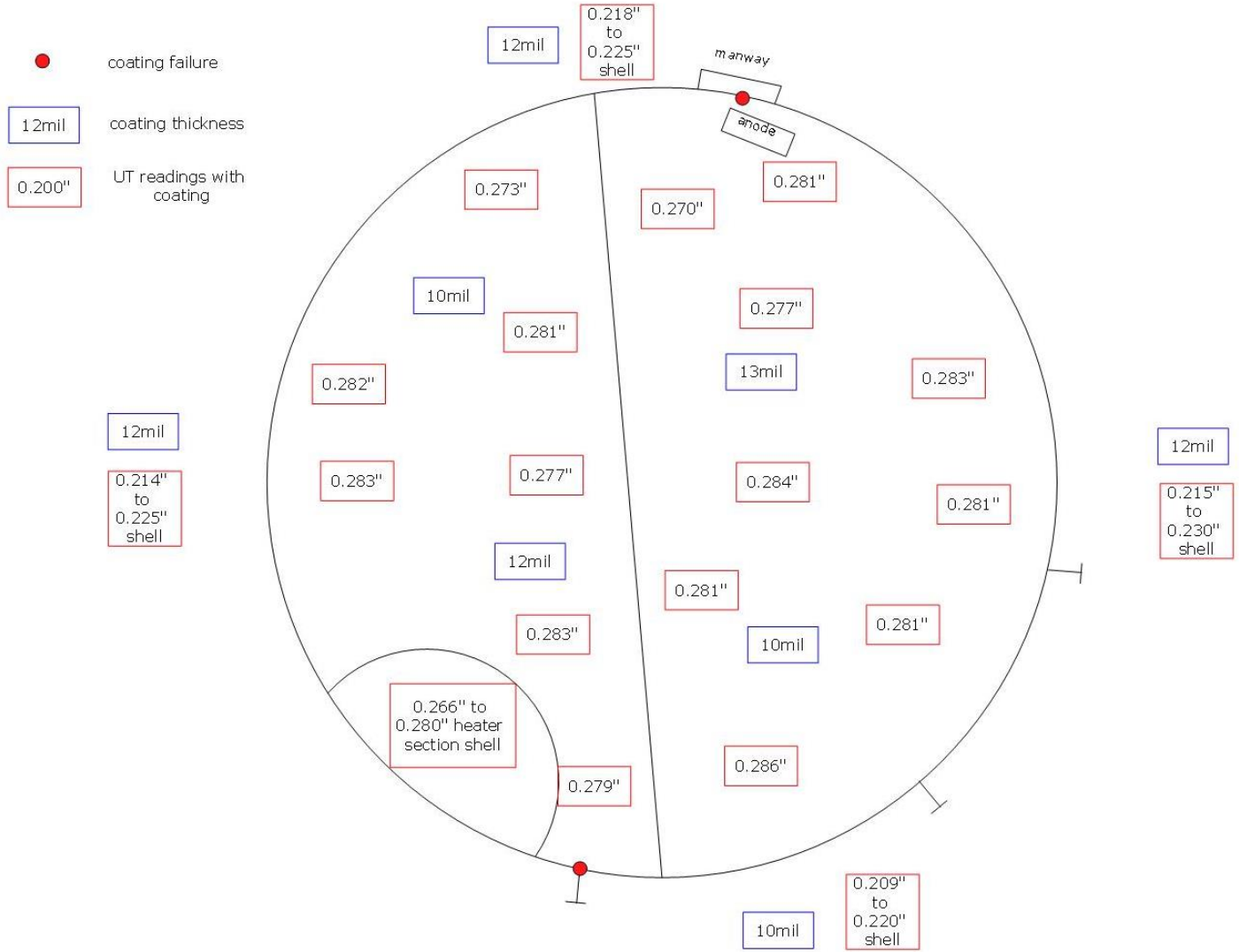
Note: Location starts at 0 from nameplate manway going clockwise.

Comments/Recommendations: Nozzles foam insulated externally. Nozzles coated internally. Several small coating failures noted on one nozzle. No corrosion or damage noted internally.

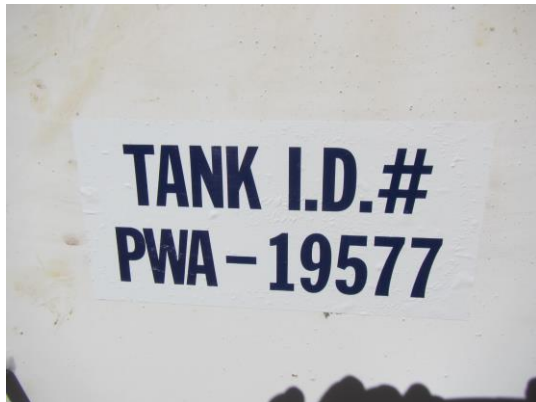
Burner Tube Satisfactory Unsatisfactory N/A
Ladder Condition Satisfactory Unsatisfactory Warning Sign? Yes No
Gauge Board Satisfactory Unsatisfactory N/A
Anode Condition Satisfactory Unsatisfactory N/A
Valves Satisfactory Unsatisfactory N/A Clip Gate Valves Present Yes No
Piping Satisfactory Unsatisfactory Inspection Not Performed
Envirobox Satisfactory Unsatisfactory N/A
Loading Envirobox Satisfactory Unsatisfactory N/A
Tank Above Grade Satisfactory Unsatisfactory Tank skidded
Visual Leak Detection Satisfactory Unsatisfactory
Impervious Liner Satisfactory Unsatisfactory N/A
High Level Control Satisfactory Unsatisfactory N/A
Dike Satisfactory Unsatisfactory Tank in boneyard

Tank Suitable for Continued Service Yes No Recommended Reinspection Period 5 years

Comments/Recommendations: Tank was inspected in Drayton Valley Boneyard.
 - Tank is foam insulated externally preventing external inspection of tank surface. Insulation in good condition.
 - Tank is skidded, floor underside 100% visible. No corrosion or damage noted on floor underside.
 - Some product was found above first course on shell, limiting visual inspection of coating.
 - Tank is epoxy coated internally. Coating was found to be in good overall condition.
 - Several small coating failures noted on one nozzle and on manway. No corrosion noted at coating failure locations.
 - All coating failures were patch coat repaired by Streamline Inspection.
 - No evidence of wall thinning of floor or shell CUI corrosion noted during UT scans done from internal surfaces.
 - Tank is in good condition and fit for service.
 New PWA# issued by Streamline Inspection



INSPECTION PHOTOGRAPHS



NEW PWA TAG



DATAPLATE



TANK OVERVIEW



TANK OVERVIEW



LEVEL CONTROL AND GAUGE BOARD



MANWAY



TANK SKIDDED



FLOOR UNDERSIDE



HEATER SECTION



ANODE



FLOOR OVERVIEW



HEATER SECTION INTERNALLY



FLOOR AND SHELL



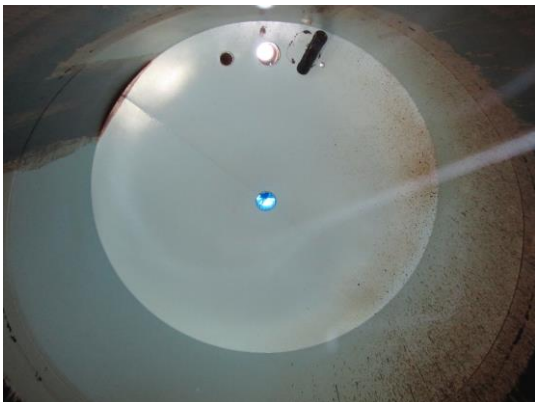
SHELL OVERVIEW



FLOOR TO SHELL FILLET WELD



FLOOR LONGSEAM



ROOF OVERVIEW



NOZZLES



NOZZLE COATING FAILURE



FLOAT



MANWAY COATING REPAIR



NOZZLE COATING REPAIR

TANK INSPECTION REPORT

Report # **TK- ET10AUG2015d**

Inspector: Ed Tymensen,
API 510 #27479, API 653 # 50479



Reference Inspection Report # _____

Facility	Drayton Valley	Location	Warehouse / Boneyard	Date	Aug 10, 2015
Serial #	STTK-QG-T2-15574	PW Equipment #	PWA - 20729	Capacity	400 bbl
Manufacturer	Bilton	Year	2011	Product Stored	
Tank Location	Construction <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass Other: _____				

Thickness: **Floor** 3/16" 1/4" 5/16" **Shell** 1/8" 3/16" 1/4" **Roof** 1/8" 3/16" 1/4"

FLOOR

External Condition Satisfactory Unsatisfactory Inspection Not Performed
 Internal Condition Satisfactory Unsatisfactory
 Bottom Plate Projection Satisfactory Unsatisfactory Not visible, foam insulated
 Internal Coating Condition Satisfactory Unsatisfactory N/A
 Floor Leaking? Yes No
 UT Inspected Satisfactory Unsatisfactory UT Inspection Not Performed
Comments/Recommendations: Floor underside 100% visible. No corrosion or damage noted. Floor topside coated, coating in good condition. One small coating failure noted on floor longseam, no corrosion at failure location. UT scans found no evidence of wall thinning.

ROOF

External Condition Satisfactory Unsatisfactory Roof Leaking? Yes No
 External Coating Condition Satisfactory Unsatisfactory Vented? Yes No
 Internal Condition Satisfactory Unsatisfactory
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Random Roof Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10

Comments/Recommendations: Roof foam insulated on external side. No visual performed. Roof coated internally, coating in acceptable condition, no signs of failure noted.

SHELL

External Condition Satisfactory Unsatisfactory Shell Leaking? Yes No
 External Coating Condition Satisfactory Unsatisfactory Nozzles Back Welded? Yes No
 Internal Condition Satisfactory Unsatisfactory
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Manual Shell Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10
North	0.231"	0.230"	0.234"	0.225"	0.226"	0.220"	0.216"	0.221"	0.219"	0.222"
East	0.236"	0.238"	0.235"	0.228"	0.229"	0.232"	0.233"	0.229"	0.235"	0.230"
South	0.219"	0.225"	0.223"	0.228"	0.230"	0.225"	0.218"	0.220"	0.221"	0.221"
West	0.225"	0.221"	0.215"	0.219"	0.225"	0.228"	0.224"	0.226"	0.224"	0.223"

Comments/Recommendations: Shell foam insulated externally. No visual performed. Foam insulation in good condition. Shell coated internally, with no failures noted.

NOZZLES

External Condition Satisfactory Unsatisfactory Inspection Not Performed
 Internal Condition Satisfactory Unsatisfactory
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Nozzle and Manway External UT Thickness Results

Description	Size (inches)	Location	Re-pad		Neck Thickness (inches)				Center Line
			Yes	No	0°	90°	180°	270°	
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
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			<input type="checkbox"/>	<input type="checkbox"/>					
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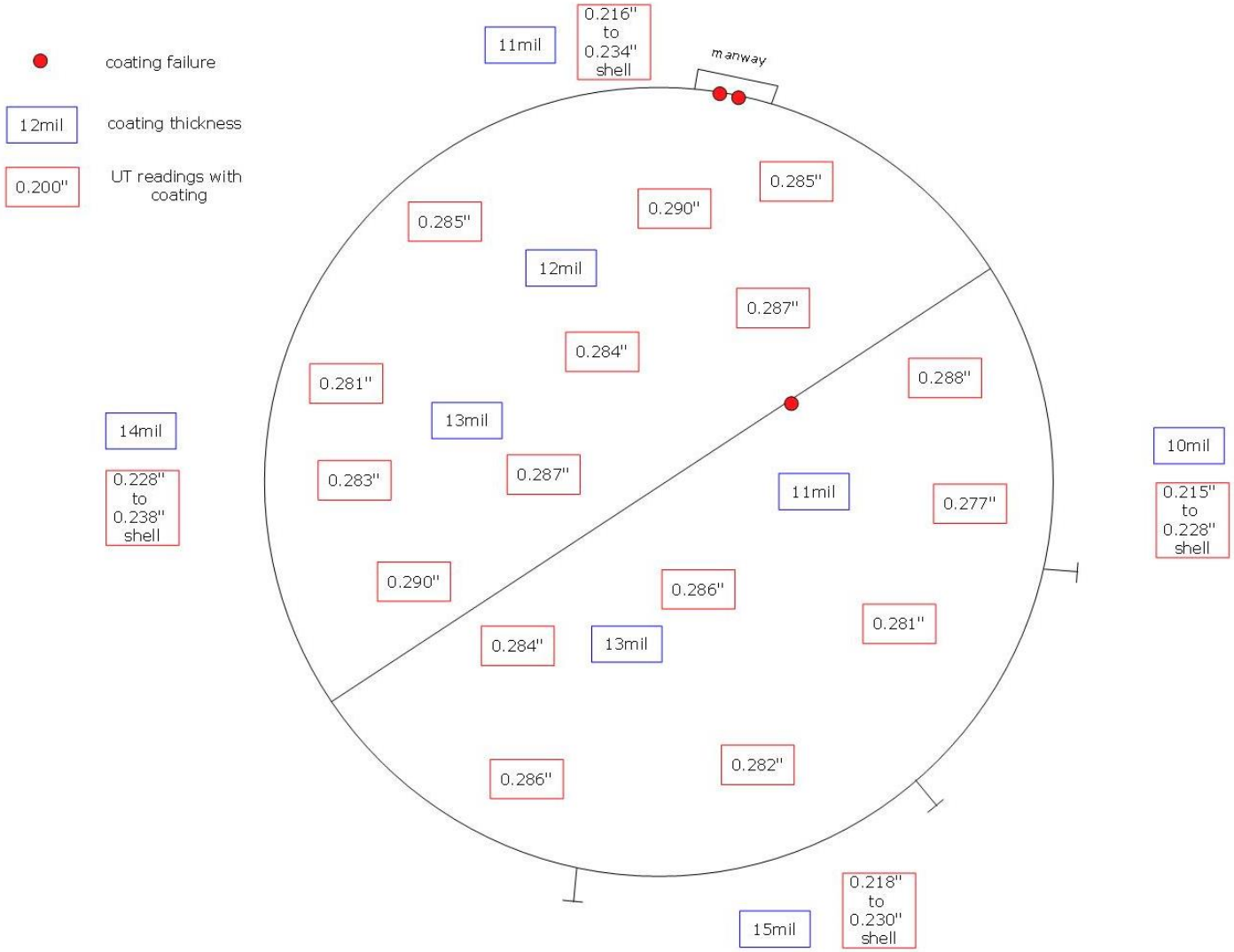
Note: Location starts at 0 from nameplate manway going clockwise.

Comments/Recommendations: Nozzles foam insulated externally. Nozzles coated internally. No coating failures, corrosion or damage noted internally. One coating failure on manway found, no corrosion at failure location.

Burner Tube Satisfactory Unsatisfactory N/A
Ladder Condition Satisfactory Unsatisfactory Warning Sign? Yes No
Gauge Board Satisfactory Unsatisfactory N/A
Anode Condition Satisfactory Unsatisfactory N/A
Valves Satisfactory Unsatisfactory N/A Clip Gate Valves Present Yes No
Piping Satisfactory Unsatisfactory Inspection Not Performed
Envirobox Satisfactory Unsatisfactory N/A
Loading Envirobox Satisfactory Unsatisfactory N/A
Tank Above Grade Satisfactory Unsatisfactory Tank skidded
Visual Leak Detection Satisfactory Unsatisfactory
Impervious Liner Satisfactory Unsatisfactory N/A
High Level Control Satisfactory Unsatisfactory N/A
Dike Satisfactory Unsatisfactory Tank in boneyard

Tank Suitable for Continued Service Yes No Recommended Reinspection Period 5 years

Comments/Recommendations: Tank was inspected in Drayton Valley Boneyard.
 - Tank is foam insulated externally preventing external inspection of tank surface. Insulation in good condition.
 - Tank is skidded, floor underside 100% visible. No corrosion or damage noted on floor underside.
 - Tank is epoxy coated internally. Coating was found to be in good overall condition.
 - Two small coating failures noted, one on floor longseam and one on manway. No corrosion noted at coating failure locations.
 - All coating failures were patch coat repaired by Streamline Inspection.
 - No evidence of wall thinning of floor or shell CUI corrosion noted during UT scans done from internal surfaces.
 - Tank is in good condition and fit for service.
 New PWA# issued by Streamline Inspection



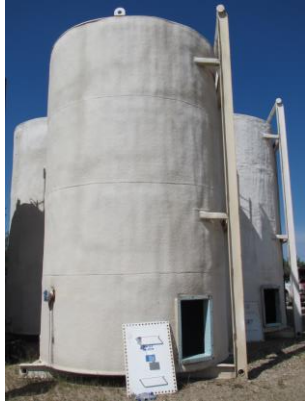
INSPECTION PHOTOGRAPHS



NEW PWA TAG



DATAPLATE



TANK OVERVIEW



TANK SKIDDED



MANWAY



LADDER AND GAUGE BOARD



LADDER AND GAUGEBOARD



NOZZLES



FLOOR UNDERSIDE



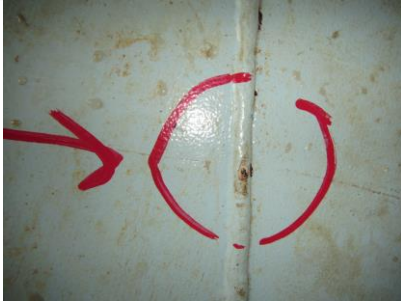
FLOOR OVERVIEW



FLOOR TO SHELL WELD



FLOOR LONGSEAM



FLOOR LONGSEAM COATING FAILURE



MANWAY COATING FAILURES



MANWAY COATING FAILURES



INTERNALS



SHELL OVERVIEW



ROOF



FLOAT



FLOOR LONGSEAM COATING REPAIR



MANWAY COATING REPAIRS

