

ITEM	TUBES		Shell		TUBES Installed	TUBES		HYDRO		SHELL		HYDRO
	CLEAN	PULL	CLEAN	INS. BY		TESTED	INS. BY	TESTED	INS. BY	TESTED	INS. BY	
E10A	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E10B	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E11A	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E11B	12-4		OK	UOP 12-4	12-4	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E319B	12-6		OK	UOP 12-6	12-6	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E320	12-7		OK	UOP 12-7	12-7	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E3009	12-7		OK	UOP 12-7	12-7	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E301A	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E301B	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E303	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E3003	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E3004	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E3005A	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E3005B	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E3007	12-9		OK	UOP 12-9	12-9	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E1	12-6		OK	UOP 12-6	12-6	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E2	12-7		OK	UOP 12-7	12-7	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E3	12-7		OK	UOP 12-7	12-7	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E4	12-7		OK	UOP 12-7	12-7	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E5	12-7		OK	UOP 12-7	12-7	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E6	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E7	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E8	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E9	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E13	12-5		OK	UOP 12-5	12-5	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83
E15	12-7		OK	UOP 12-7	12-7	OK	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83	12-19-83

ITEM	PULL	TUBES		Shell		TUBES Installed	TUBES HYDRO		SHELL TESTED	HYDRO INSP. BY
		CLEAN	INSP. BY	CLEAN	INSP. BY		TESTED	INSP. BY		
E3017		12-7	UOP-OK	OK	UOP-OK		12-11-83	TH	12-11-83	TH
E3020	12/4	12-4	UOP-OK	OK	UOP-OK		12-11-83	TH		
E3021		12-5	UOP-OK	OK	UOP-OK		12-11-83	TH		
E3022										
E3023	Repair	12-10	UOP-OK	OK	UOP-OK		12-12	TH		
E3013		12-6	UOP-OK	OK	UOP-OK		12-12	TH		
E3015		12-6	UOP-OK	OK	UOP-OK		12-12	TH		
E318A		12-6	UOP-OK	OK	UOP-OK		12-12	TH		
E319A		12-6	UOP-OK	OK	UOP-OK		12-12	TH		
E3010		12-6	UOP-OK	OK	UOP-OK		12-12	TH		
E305A		12-7	OK	OK	OK		12-12	TH		
E305B		12-7	OK	OK	OK		12-12	TH		
E306A		12-7	OK	OK	OK		12-12	TH		
E306B		12-7	OK	OK	OK		12-12	TH		
E307A		12-7	OK	OK	OK		12-12	TH		
E307B		12-7	OK	OK	OK		12-12	TH		
E307C		12-7	OK	OK	OK		12-12	TH		
E307D		12-7	OK	OK	OK		12-12	TH		
E307E		12-7	OK	OK	OK		12-12	TH		
E307F		12-7	OK	OK	OK		12-12	TH		
E307G		12-7	OK	OK	OK		12-12	TH		
E307H		12-7	OK	OK	OK		12-12	TH		
E307I		12-7	OK	OK	OK		12-12	TH		
E307J		12-7	OK	OK	OK		12-12	TH		
E307K		12-7	OK	OK	OK		12-12	TH		
E307L		12-7	OK	OK	OK		12-12	TH		
E307M		12-7	OK	OK	OK		12-12	TH		
E307N		12-7	OK	OK	OK		12-12	TH		
E307O		12-7	OK	OK	OK		12-12	TH		
E307P		12-7	OK	OK	OK		12-12	TH		
E307Q		12-7	OK	OK	OK		12-12	TH		
E307R		12-7	OK	OK	OK		12-12	TH		
E307S		12-7	OK	OK	OK		12-12	TH		
E307T		12-7	OK	OK	OK		12-12	TH		
E307U		12-7	OK	OK	OK		12-12	TH		
E307V		12-7	OK	OK	OK		12-12	TH		
E307W		12-7	OK	OK	OK		12-12	TH		
E307X		12-7	OK	OK	OK		12-12	TH		
E307Y		12-7	OK	OK	OK		12-12	TH		
E307Z		12-7	OK	OK	OK		12-12	TH		
E308	FIN FAN									
E309	FIN FAN									
E310	FIN FAN									
E311	FIN FAN									
E312	FIN FAN									
E313	FIN FAN									
E314	FIN FAN									
E315	FIN FAN									
E316	FIN FAN									
E317	FIN FAN									
E318	FIN FAN									
E319	FIN FAN									
E320	FIN FAN									
E321	FIN FAN									
E322	FIN FAN									
E323	FIN FAN									
E324	FIN FAN									
E325	FIN FAN									
E326	FIN FAN									
E327	FIN FAN									
E328	FIN FAN									
E329	FIN FAN									
E330	FIN FAN									
E331	FIN FAN									
E332	FIN FAN									
E333	FIN FAN									
E334	FIN FAN									
E335	FIN FAN									
E336	FIN FAN									
E337	FIN FAN									
E338	FIN FAN									
E339	FIN FAN									
E340	FIN FAN									
E341	FIN FAN									
E342	FIN FAN									
E343	FIN FAN									
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E372	FIN FAN									
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E374	FIN FAN									
E375	FIN FAN									
E376	FIN FAN									
E377	FIN FAN									
E378	FIN FAN									
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E381	FIN FAN									
E382	FIN FAN									
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E390	FIN FAN									
E391	FIN FAN									
E392	FIN FAN									
E393	FIN FAN									
E394	FIN FAN									
E395	FIN FAN									
E396	FIN FAN									
E397	FIN FAN									
E398	FIN FAN									
E399	FIN FAN									
E400	FIN FAN									



Payne & Keller Company
Contractors & Engineers

Date 12-5-83

Exchanger No. 20

Bundle

Inspection Passed Ray Jackson 12/5/83 - 12/5/83 - UOP & W

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. E-20

Shell

Inspection Passed SPD

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval Ray Saw

Date 12-8-83

Date 12-8-83

Exchanger No. E-20

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed SPD

Test Pressure 350

Test Pressure Maintain 30 minutes SPD



Payne & Keller Company
Contractors & Engineers

Date 12-5-83

Exchanger No. E-8

Bundle

Inspection Passed _____

Inspection Rejected ✓

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

*Requires UOP Inspect,
Metal Loss.*

⊗ Repair recommended by UOP-GW

*WILL USE STAINLESS STEEL SEAL STRIPS
INSTEAD OF MONEL 12/7*

EXCHANGER NO. E-8

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval _____

Date _____

Date _____

Exchanger No. _____

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure _____

Test Pressure Maintain 30 minutes _____

35 tubes Plugged



Payne & Keller Company
Contractors & Engineers

Date 12/5/83

Exchanger No. E 11A

Bundle

Inspection Passed _____

Inspection Rejected ✓ **REQUIRES UOP INSPECTION**

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

Metal loss

UOP- OK'd. 12/5/83 GW

EXCHANGER NO. E 11A

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval _____

Date _____

Date 12-11-83

Exchanger No. E 11A

Final Inspection:

Gasket on Shell Side ✓
Head Gaskets Installed ✓

Test Pressure tubes #550 Shell 550 7K

Test Pressure Maintain 30 minutes ✓



Payne & Keller Company
Contractors & Engineers

Date 12/5/83

Exchanger No. E-10A

Bundle

Inspection Passed _____

Inspection Rejected ✓

REQUIRES UOP INSPECTION
Metal loss

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

12/5/83 OK by UOP-GW

EXCHANGER NO. E-10A

Shell

Inspection Passed _____

Inspection Rejected _____

35 tubes plugged
...

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

SOME LEAKAGE STILL
EXISTS, IT WAS SMALL
ENOUGH SO THAT IT FLOWED
NO PROBLEM END

Inspector Approval _____

Date _____

Date _____

Exchanger No. _____

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure _____

Test Pressure Maintain 30 minutes _____



Payne & Keller Company
Contractors & Engineers

Date 12/5/83

Exchanger No. E-10B

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Small LEAKAGE ON
TUBES. OK. HYDROTEST
WITH LEAKAGE
OK

Inspector Approval _____

Date _____

Date _____

Exchanger No. _____

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure _____

Test Pressure Maintain 30 minutes _____



Payne & Keller Company
Contractors & Engineers

Date 12/5

Exchanger No. E-9

Bundle

Inspection Passed OK UOP 12-5

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. E-9

Shell

Inspection Passed _____

Inspection Rejected ✓ needs cleaning

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

*OK cleaned
CJ?*

Inspector Approval Gary Saw

Date 12-9-83

Date 12-9-83

Exchanger No. E-9

Final Inspection:

Gasket on Shell Side 5.05
Head Gaskets Installed 0.00

Test Pressure 350

Test Pressure Maintain 30 minutes 0.00



Payne & Keller Company
Contractors & Engineers

Date 12/5/83

Exchanger No. E-6

Bundle

IN PLACE

Inspection Passed OK by UOP 12/5/83 Gw

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. E-6

Shell

Inspection Passed OK

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval Sam Sain

Date 12-8-83

Date 12-8-83

Exchanger No. E-6

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed OK

Test Pressure 300

Test Pressure Maintain 30 minutes OK



Payne & Keller Company
Contractors & Engineers

Date 12/5/83

Exchanger No. E-21

Bundle

IN PLACE

Inspection Passed OK by UOP 12/5/83 GW

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. E-21

Shell

Inspection Passed yes

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval Say Sam

Date 12-8-83

Date 12-8-83

Exchanger No. E-21

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed yes

Test Pressure 300

Test Pressure Maintain 30 minutes yes



Payne & Keller Company
Contractors & Engineers

Date 12-8-83

Exchanger No. E-13 A,B,C

Bundle

Inspection Passed JACD 12/8

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. E-13-A,B,C

Shell

Inspection Passed JACD

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval Ray Jones

Date 12-8-83

Date 12-8-83

Exchanger No. E-13 A,B,C

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed JACD

Test Pressure 600 LB

Test Pressure Maintain 30 minutes JACD



Payne & Keller Company
Contractors & Engineers

Date 12/9/83
Exchanger No. E 3013

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected: .

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval E. J. Davis

Date 12/9/83

Date 12/9/83

Exchanger No. 3013

Final Inspection:

Gasket on Shell Side ✓
Head Gaskets Installed ✓

Test Pressure 225 PSI

Test Pressure Maintain 30 minutes ✓



Payne & Keller Company
Contractors & Engineers

Date _____

Exchanger No. E-319A

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval S. J. Davis

Date 12/9/83

Date 12/9/83

Exchanger No. E-319A

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure 300 PSI

Test Pressure Maintain 30 minutes ✓



Payne & Keller Company
Contractors & Engineers

Date 12/9/83
Exchanger No. E-318 A/B

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval E. J. Davis

Date 12/9/83

Date 12/9/83
Exchanger No. E-318 A/B

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure 300 PSI

Test Pressure Maintain 30 minutes ✓



Payne & Keller Company
Contractors & Engineers

Date 12/9/83
Exchanger No. E-9

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval [Signature]
Date 12/9/83

Date 12/9/83
Exchanger No. E-9

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure 350 PSI
Test Pressure Maintain 30 minutes ✓



Payne & Keller Company
Contractors & Engineers

Date 12-10

Exchanger No. E-15

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval _____

Date _____

Date 12-10

Exchanger No. E15

Final Inspection:

Gasket on Shell Side ✓
Head Gaskets Installed ✓

Test Pressure 450

Test Pressure Maintain 30 minutes 219



Payne & Keller Company
Contractors & Engineers

Date _____

Exchanger No. E-2

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval _____

Date _____

Date 12-10

Exchanger No. E-2

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure SS 460

Test Pressure Maintain 30 minutes 7/1



Payne & Keller Company
Contractors & Engineers

Date 12-11-83

Exchanger No. E-3010

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval _____

Date _____

Date _____

Exchanger No. 3010

Final Inspection:

Gasket on Shell Side ☒
Head Gaskets Installed ☒

Test Pressure 475 & 75 27K

Test Pressure Maintain 30 minutes ☒



Payne & Keller Company
Contractors & Engineers

Date _____

Exchanger No. E-3017

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval _____

Date _____

Date ~~E-3017~~ 12-11-53

Exchanger No. E 3017

Final Inspection:

Gasket on Shell Side ✓
Head Gaskets Installed ✓

Test Pressure Shell 475 Tube 300 ETK

Test Pressure Maintain 30 minutes ✓



Payne & Keller Company
Contractors & Engineers

Date _____

Exchanger No. _____

Bundle

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Tube Sheet _____
Tubes Shell Side _____
Tubes Internal _____
Flanges Dirty _____

EXCHANGER NO. _____

Shell

Inspection Passed _____

Inspection Rejected _____

Reasons Rejected:

Flange Face Clean _____
Shell Walls Clean _____
Head Flange Clean _____
Bonnett Clean _____
Bonnett Flange Clean _____

Inspector Approval _____

Date _____

Date _____

Exchanger No. _____

Final Inspection:

Gasket on Shell Side _____
Head Gaskets Installed _____

Test Pressure _____

Test Pressure Maintain 30 minutes _____