

PACKERS PLUS HD 10 Stage StageFrac

Prepared for	Company	Date
ERIK VIK	Petrofrontier / Rodinia	October 13 2011
Well Name	Location	Type of Installation
Baldwin 2H	EP 103 Northern Territory Australia	10 Stage Horizontal Stage Frac
Depth	Description	OD (IN) ID (IN) Length (m)
	WELL DATA : Well Profile 3HP: 890 PSI BHT: 75 C H2S: No Wellbore Fluid: Clean 9.1 Brine KB to Tbg hanger: 5 Meters Centralizer installed on every joint of 4.5" Casing All Volumes are from Kelly bushing.	
Volume of 5.5" 82.65 BBLs 13.14 M3	Casing joint 5.5" TDFJ	5.500 4.892 1084.07
Cemented Back 5.5" Casing 1091.35 MRKB TO 315 MRKB	4-OVER 4-1/2" PIN LTC 15.1# x 5-1/2" Box TDFJ	5.550 4.000 0.42
Serial EM0037909 Assembly 26 SFCementor Tool 1091.35 MRKB 884 MTVD	1-1/2 - 11.6# LTC x 6 FT, P110, Pup Joint	4.500 4.000 1.95
	1 1/2" SF Cementor Tool (3.875 ID) (11.6#) LTC, P110, VITON,	5.750 3.875 6.25
	1-1/2 - 11.6# LTC - P110, Pup Joint	4.500 4.000 0.93
	1-1/2 - 13.50# LTC P110, Pup Joint	4.500 3.920 1.86
	DEBRIS SUB ASSEMBLY, 5.630 X 4 1/2 (3.875 ID) (11.6#) LTC, w/1.50 CAST" Ball	5.630 1.500 0.38
Serial EM0038559 Assembly 27 Deb Sub Assy. 1096.04 MRKB 884 MTVD	Seat, P110 for a 1.750" (44.45mm) SF2 actuation ball - 3.72" Mill Out ID	4.500 3.920 0.94
	Threads: 4-1/2 - 13.50# LTC Box X Pin	
	4-1/2 - 13.50# LTC P110, Pup Joint	4.500 4.000 23.52
	2 Casing joint 4.5" 11.6#/ft K-55	
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.85
S/N EM0037535 Assembly 25 RS IIS 1123.03 MRKB 883 MTVD	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	7 x 4-1/2, RockSEAL IIS Open Hole Packer	5.750 3.750 2.16
	4-1/2-13.50 ppf LTC Connections	
	Size: 7" x 4-1/2" LTC	
	Threads: 4-1/2" 13.50 ppf LTC Box X Pin	
	Elastomer: HSN	
	Metallurgy: P 110	
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	1 Casing joint 4.5" 11.6#/ft K-55	
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
S/N EM0031348 Assembly 23 RS II 1140.22 MRKB 883 MTVD	7 x 4-1/2, RockSEAL II Open Hole Packer	5.750 3.750 1.60
	4-1/2-13.50 ppf LTC Connections	
	Size: 7" x 4-1/2" LTC	
	Threads: 4-1/2" 13.50 ppf LTC Box X Pin	
	Elastomer: HSN	
	Metallurgy: P 110	
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	3 Casing joint 4.5" 11.6#/ft K-55	
	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 1.86
S/N EM0036987 Assembly 22 3.125" Seat 3.250" Ball 1179.65 MRKB 87.05 Bbls 13.84 M3	4-1/2 Drillable Closeable FracPort Tool, P-110 3.72" Mill out ID	5.630 3.125 1.59
	3.125" (79.38 mm) HD Ball Seat for 3.250" (82.55 mm) SF10 actuation ball	
	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 0.94
	3 Casing joint 4.5" 11.6#/ft K-55	4.500 4.000 34.72
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
S/N EM0031346 Assembly 21 RS II 1219.05 MRKB 881 MTVD	7 x 4-1/2, RockSEAL II Open Hole Packer	5.750 3.750 1.60
	4-1/2-13.50 ppf LTC Connections	
	Size: 7" x 4-1/2" LTC	
	Threads: 4-1/2" 13.50 ppf LTC Box X Pin	
	Elastomer: HSN	
	Metallurgy: P 110	
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94

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	3 Casing joint 4.5" 11.6#/ft K-55	4.500" 4.000" 34.41
S/N EM0036984	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 1.86
Assembly 20 3.000" Seat 3.125" Ball 1258.14 MRKB 91.33 Bbbls 14.52M3	4-1/2 Drillable Closeable FracPort Tool, P-110 3.72" Mill out ID 3.00" (76.20 mm) HD Ball Seat for 3.125" (79.38 mm) SF10 actuation ball	5.630 3.000 1.59
	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 0.94
	3 Casing joint 4.5" 11.6#/ft K-55	4.500" 4.000" 34.81
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
S/N EM0031347	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD 7 x 4-1/2, RockSEAL II Open Hole Packer 4-1/2-13.50 ppf LTC Connections Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.812 3.875 0.31 5.750 3.750 1.60
Assembly 19 RS II 1297.73MRKB 877.62 MTVD	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	3 Casing joints 4.5" 11.6#/ft K-55	4.500" 4.000" 34.48
S/N EM0036983	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 1.86
Assembly 18 2.850" Seat 3.00" Ball 1336.89 MRKB 95.35Bbbls 15.16 M3	4 1/2 Drillable Closeable FracPort Tool, P-110 3.72" Mill out ID 2.875" (73.03 mm) HD Ball Seat for 3.00" (76.20 mm) SF10 actuation ball	5.630 2.850 1.59
	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 0.94
	3 Casing joints 4.5" 11.6#/ft K-55	4.500" 4.000" 34.51
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
S/N EM0031341	7 x 4-1/2, RockSEAL II Open Hole Packer 4-1/2-13.50 ppf LTC Connections Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.750 3.750 1.60
Assembly 17 RS II 1376.08 MRKB 875.60 MTVD	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	3 jointst 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.89
S/N EM0036980	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 1.86
Assembly 16 2.750" Seat 2.875" Ball 1415.26 MRKB 99.32 Bbbls 15.79 M3	5.63 x 4 1/2 Drillable Closeable FracPort Tool, P-110, 3.72" mill out ID 2.750" (69.85 mm) HD Ball Seat for 2.875" (73.03 mm) SF10 actuation ball	5.630 2.875 1.59
	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 0.94
	3 joints 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.92
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
S/N EM0031342	7 x 4-1/2, RockSEAL II Open Hole Packer 4-1/2-13.50 ppf LTC Connections Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.750 3.750 1.60
Assembly 15 RS II 1454.86 MRKB 872.65 MTVD	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 0.94
	4 joints 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 46.43
S/N EM0036979	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 1.86
Assembly 14 2.625 Seat 2.750" Ball 1505.97 MRKB 103.97 Bbbls 16.53 M3	4 1/2 Drillable Closeable FracPort Tool, P-110 3.72" Mill out ID 2.625" (66.68 mm) HD Ball Seat for 2.750" (69.85 mm) SF10 actuation ball	5.630 2.625 1.59
	Pup Joint 4-1/2 - 15.10# LTC- L-80	4.500 3.920 0.94
	3 joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 35.08
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
S/N EM0031353	7 x 4-1/2, RockSEAL II Open Hole Packer 4-1/2-13.50 ppf LTC Connections Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.750 3.750 1.60
Assembly 13 RS II 1545.73 MRKB 870 MTVD	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94

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Well Name	Location	Type of Installation
Baldwin 2H	EP 103 Northern Territory Australia	10 Stage Horezental Stage Frac
S/N EM0036975	2 joints 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 23.40
Assembly 12 2.500" Seat 2.625" Ball 1573.81 MRKB 107.43 Bbls 17.08 M3	4-1/2 - 13.50# LTC - P110, Pup Joint	4.500 3.920 1.86
	4 1/2 Drillable Closeable FracPort Tool, P-110 3.72" Mill out ID 2.500" Ball Seat for 2.625" SF-6 actuation ball-	5.630 2.375 1.59
	4-1/2 - 13.50# LTC - P110, Pup Joint	4.500 3.920 0.94
	3 joints 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.76
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
S/N EM0031340	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
Assembly 11 RS II 1613.25 MRKB 868 MTVD	7 x 4-1/2, RockSEAL II Open Hole Packer Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.750 3.750 1.60
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
S/N EM0036972	joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.58
Assembly 10 2.375" Seat 2.500" Ball 1652.51 M/RKB 111.46 Bbls 17.72 M3	4-1/2 - 13.50# LTC - P110, Pup Joint	4.500 3.920 1.86
	4 1/2 Drillable Closeable FracPort Tool, P-110 3.72" Millout ID 2.375" Ball Seat for 2.500" SF-6 actuation ball-	5.630 2.375 1.59
	4-1/2 - 13.50# LTC - P110, Pup Joint	4.500 3.920 0.94
	3 joints 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.51
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	7 x 4-1/2, RockSEAL II Open Hole Packer Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.750 3.750 1.60
S/N EM0031349	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
Assembly 9 RS II 1691.70 MRKB 864 MTVD	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	3 Joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.52
	4-1/2 - 13.50# LTC - P110, Pup Joint	4.500 3.920 1.86
S/N EM0036971	4 1/2 Drillable Closeable FracPort Tool, P-110 3.72" Mill out ID 2.25" Ball Seat for 2.375" SF-6 Actuation ball-	5.630 2.250 1.59
Assembly 8 2.25" Seat 2.375" Ball 1730.90 MRKB 115.42 Bbls 18.35 M3	4-1/2 - 13.50# LTC - P110, Pup Joint	4.500 3.920 0.94
	3 Joints 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.63
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
S/N EM0031352	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
Assembly 7 RockSEAL II 1770.21 MRKB 864 MTVD	7 x 4-1/2, RockSEAL II Open Hole Packer Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.750 3.750 1.60
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	3 joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.46
S/N EM0036969	Pup Joint 4-1/2 - 13.50# LTC - P110	4.500 3.920 1.865
Assembly 6 2.125" Seat 2.250" Ball 1809.38 M/RKB 119.51 Bbls 19 M3	4 1/2 Drillable Closeable FracPort Tool, P-110 3.72" Mill out ID 2.125" (53.98 mm) HD Ball Seat for 2.250" SF-6 Actuation ball	5.630 2.125 1.59
	Pup Joint 4-1/2 - 13.50# LTC - P110	4.500 3.920 0.94
	3 Joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 34.70
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.812 OD	5.812 3.875 0.31
	7 x 4-1/2, RockSEAL II Open Hole Packer 4-1/2-13.50 ppf LTC Connections Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	5.750 3.750 1.60
Assembly 5 SN EM0031345 RockSEAL II 1848.76 MRKB 864 MTVD	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.812OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	2 joints 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 23.20

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Well Name	Location	Type of Installation
Baldwin 2H	EP 103 Northern Territory Australia	10 Stage Horizontal Stage Frac
S/N EM0038088	4-1/2 - 13.50# LTC x 6 FT, L-80, Pup Joint	4.500 3.920 1.80
Assembly 24 HP F/SEAT 1876.67 M/RKB 863 MTVD	HP F/SEAT ASSEMBLY WITH 1.75" BALL SEAT Casing OD,5.00" Max Drill out ID- 3.720"	5.000 1.750 0.44
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	1 joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 11.82
	4-1/2 - 13.50# LTC x 6 FT, P-110 Pup Joint	4.500 3.920 1.85
S/N EA0059453	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
Assembly 4 DEH HY, F.PORT 1892.01 M/RKB Total Volume 123.66 BBLs 19.66 M3	5.63 x 4-1/2 DEH Hydraulic FracPort(External),P-110, Pinned to open with 4041 PSI Upper Pinned to open with 3852 PSI Lower	5.630 3.750 1.32
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.812 OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 11.53
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.812 OD	5.812 3.875 0.31
S/N EA0034478	7 x 4-1/2, RockSEAL II Open Hole Packer	5.750 3.750 1.60
Assembly 3 RS II 1908.25MRKB 862.12 MTVD	4-1/2-13.50 ppf LTC Connections Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.812OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	1 joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000" 11.61
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.85
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.31
S/N EM0034147	7 x 4-1/2, RockSEAL IIS Open Hole Packer	5.750 3.750 2.16
Assembly 2 RS IIS 1924.84 MRKB 861.70 MTVD	4-1/2-13.50 ppf LTC Connections Size: 7" x 4-1/2" LTC Threads: 4-1/2" 13.50 ppf LTC Box X Pin Elastomer: HSN Metallurgy: P 110	
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.812OD	5.812 3.875 0.31
	4-1/2 - 13.50# LTC x 3 FT, P-110, Pup Joint	4.500 3.920 0.94
	1 Joint 4.5" 11.6#/ft K-55 Casing	4.500" 4.000 11.61
	4-1/2 - 13.50# LTC x 6 FT, P-110 Pup Joint	4.500 3.920 1.85
S/N EM0036965	7 x 4 1/2 Toe Circulating Sub with 4 1/2" - 13.50 ppf LTC Connections P110,HSN/Viton, c/w 1.2500" (31.37 mm) Seat for 1.500" (38.10 mm) SF2 Actuation	5.500 1.250 0.83
Assembly 1 Toe Circ Sub 1941.71 M/RKB Total Volume 126.17 bbls 20.06 M3	4-1/2 Float Collar with Single Valve, 4-1/2 - 13.50 ppf LTC Conn	5.000 N/A 0.40
	7 x 4-1/2 13.50# LTC Swivel Centralizer, Special Clearance Ø5.750 OD	5.812 3.875 0.40
	4-1/2 - 13.50# LTC x 6 FT, P-110, Pup Joint	4.500 3.920 1.86
Liner Bottom 1945.70 M/RKB 860 M/TVD	4-1/2 Float Collar with Single Valve, 4-1/2 - 13.50 ppf LTC Conn	5.000 N/A 0.40
	Bullet Reentry Guide c/w 4-1/2" LTC Box 5.500" OD	5.500 N/A 0.23
	TD: 1952 Meters TVD 862 Meters.	
Service Center	Contact	Telephone
Bahrain	Doug Mezenen	973 39 76 8100