

Packers Plus		Do It Once Do It Right.		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Drawing	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 29-May-10			
Well Name Crow Flats 28 Federal 2H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM			
Depth	Drawing	Description	OD(in)	ID(in)	Length		
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REV2							
KOP 5908'							
TVD 6561'							
TOL 6671'							
255.49 bbls EM0021833		***Drillable FracPORT's to be shipped without handling pups*** Latched Seal Assembly 7" 23-32 ppf x 3.875" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer PN: 108425-000001 (2 shear pins at 529 each, 1 058psi setting pressure) SF Bottom Guide	5.875"	4.750"	6.35		
		7" 28# P-110 LT&C Casing	5.850"	3.850"	3.07		
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 7	4.500"	4.000"	323.02		
Stage 20 7003'		Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball PN: 107943-000001 (5 shear pins at 315 psi each, 1,575 psi opening pressure)	5.630"	3.500"	2.64		
260.64 bbls EM0025022		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	138.49		
RS# 7151'		6" x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	6.15		
EM0009398		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each, 1,950 psi setting pressure)	5.750"	3.750"	5.25		
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	3.03		
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	92.32		
Stage 19 7251'		Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball PN: 108482-000060 (5 shear pins at 315 psi each, 1,575 psi opening pressure)	5.630"	3.375"	2.84		
264.48 bbls EM0017309		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	92.42		
RS# 7352'		6" x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	6.08		
EA0006896		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each, 1,950 psi setting pressure)	5.750"	3.750"	5.24		
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	3.09		
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	92.40		
Stage 18 7453'		Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball PN: 108482-000059 (5 shear pins at 315 psi each, 1,575 psi opening pressure)	5.630"	3.250"	2.64		
267.61 bbls EA0015495		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	133.49		
RS# 7595'		6" x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	6.10		
EA0009196		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each, 1,950 psi setting pressure)	5.750"	3.750"	5.23		
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	3.06		
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	90.86		
Stage 17 7695'		Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball PN: 108482-000058 (5 shear pins at 315 psi each, 1,575 psi opening pressure)	5.630"	3.125"	2.64		
271.36 bbls EA0015405		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	89.52		
RS# 7793'		6" x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	6.08		
EA0009232		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each, 1,950 psi setting pressure)	5.750"	3.750"	5.24		
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	3.08		
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	134.44		
Stage 16 7936'		Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball PN: 108482-000057 (5 shear pins at 315 psi each, 1,575 psi opening pressure)	5.630"	3.000"	2.64		
275.10 bbls EA0015183		4-1/2" 11.60# P-110 LTC LINER JOINTS: 4	4.500"	4.000"	178.10		
RS# 8122'		6" x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	6.09		
EA0009234		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each, 1,950 psi setting pressure)	5.750"	3.750"	5.24		
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	3.07		
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 4	4.500"	4.000"	179.88		
Stage 15 8311'		Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball PN: 108482-000056 (5 shear pins at 315 psi each, 1,575 psi opening pressure)	5.630"	2.875"	2.64		
286.66 bbls EA0006701		4-1/2" 11.60# P-110 LTC LINER JOINTS: 4	4.500"	4.000"	179.75		
RS# 8499'		6" x 4-1/2" 11.6# P-110 LTC x BTC Combo Pup Joint	4.500"	4.000"	5.93		
EA0018814		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000002 (6 shear pins at 324 psi each, 1,950 psi setting pressure)	5.750"	3.750"	5.16		
		3' x 4-1/2" 11.6# P-110 LTC x BTC Combo Pup Joint	4.500"	4.000"	3.20		
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000"	136.80		
Stage 14 8644'		Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball PN: 108482-000055 (5 shear pins at 315 psi each, 1,575 psi opening pressure)	5.630"	2.750"	2.64		
288.07 bbls EA0006655		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000"	92.17		
RS# 8745'		6" x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	6.10		
EA0009188		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each, 1,950 psi setting pressure)	5.750"	3.750"	5.24		
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000"	3.07		
Service Center Midland, TX		Telephone 432-563-8024	Contact Kelth Martin		Telephone Chad Williams 405-255-3223		

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Depth	Drawing	Description	OD(m)	ID(m)	Length
			Page 2 of 3		
REV2		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	126.70
Stage 13 8880' 289.73 bbls EA0014871		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball PN: 108482-000054 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	2.625 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	130.14
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.08
RSI 9019' EA0009240		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.10
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	128.44
Stage 12 9156' 294.01 bbls EA0014581		Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball PN: 108482-000053 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	2.500 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	135.90
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.10
RSI 9300' EA0008660		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.09
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	137.02
Stage 11 9448' 298.50 bbls EA0007477		Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball PN: 108482-000052 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	2.375 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000	91.42
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.11
RSI 9546' EA0009244		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.07
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	131.15
Stage 10 9635' 302.21 bbls EA0007391		Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball PN: 108482-000051 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	2.250 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000	92.36
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.10
RSI 9786' EA0009246		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.07
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	137.02
Stage 9 9932' 306.04 bbls EA0011413		Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball PN: 108482-000050 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	2.125 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000	92.36
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.08
RSI 10,033' EA0006914		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.08
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	138.54
Stage 8 10,180' 309.88 bbls EA0010617		Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball PN: 108482-000049 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	2.000 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000	92.39
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.10
RSI 10,281' EA0009242		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.07
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	138.58
Stage 7 10,428' 313.72 bbls EA0013743		Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball PN: 108482-000048 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	1.875 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000	92.37
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.10
RSI 10,529' EA0009228		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.05
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	138.59
Stage 6 10,676' 317.57 bbls EA0013671		Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball PN: 108482-000047 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	1.750 3.720	2.64
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4.500"	4.000	92.26
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.10
RSI 10,777' EA0006916		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	5.750"	3.750	5.24
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.07
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500"	4.000	138.30
Stage 5 10,923' 321.40 bbls EA0020147		Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball PN: 108482-000046 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5.630"	1.625 3.720	2.64
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Depth	Drawing	Description	OD(in)	ID(in)	Length		
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REV2							
RSII 11,069 EA0008662		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2	4 500"	4 000	136.81		
			4 500"	4 000	6 09		
			5 750"	3 750	5 25		
			4 500"	4 000	3 10		
			4 500"	4 000	92.22		
Stage 4 11,165' 325.21 bbls EA0005909		Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball PN: 108482-000045 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5 630"	1 500	2 64		
				3 720			
			4 500"	4 000	92 31		
			4 500"	4 000	6 10		
			5 750"	3 750	5 24		
			4 500"	4 000	3 08		
			4 500"	4 000	136 73		
Stage 3 11,415' 329.02 bbls EA0017014		Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball PN: 108482-000044 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5 630"	1 375	2 64		
				3 720			
			4 500"	4 000	91 81		
			4 500"	4 000	6 09		
			5 750"	3 750	5 25		
			4 500"	4 000	3 09		
			4 500"	4 000	138 48		
Stage 2 11,663' 332.87 bbls EA0010405		Packers Plus 4-1/2" Drillable FracPORT™ with 1.250" Seat for 1.375" High Pressure Ball PN: 108482-000043 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	5 630"	1 250	2 64		
				3 720			
			4 500"	4 000	137 48		
			4 500"	4 000	6 10		
			5 750"	3 750	5 24		
			4 500"	4 000	3 07		
			4 500"	4 000	136 43		
			4 500"	4 000	6 09		
			5 630"	3 750	4 34		
Stage 1 11,980' 337.47 bbls EA0007954		Packers Plus 4-1/2" Dual Hydraulic FracPORT™ Centralized PN: 105900-000002 (10 pins at 391 psi each; 3,910 psi Upper) / (7 pins at 630 psi each; 4,410 psi Lower) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 1 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 4-1/2" Toe Circulating Sub w/ 1.00" Seat for 1.25" High Pressure Ball PN: 103039-000011 (3 pins at 366 psi each; 1,098 psi closing pressure)	4 500"	4 000	3 08		
			4 500"	4 000	46.23		
			4 500"	4 000	6 06		
			5 500"	NA	2 72		
			5 000"	NA	1 20		
			4 500"	4 000	6 11		
			5 000"	NA	1 20		
			5 500"	2 250	0 74		
Toe Sub 12,020' EA0013499		4-1/2" LTC Single Valve Float Collar PN: 104733 6' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" LTC Single Valve Float Collar PN: 104733 4-1/2" LTC Guide Shoe PN: 121704-000001	5 000"	NA	1 20		
			4 500"	4 000	6 11		
			5 000"	NA	1 20		
			5 500"	2 250	0 74		
MD 12,032'							
Service Center Midland, TX		Telephone 432-563-8024		Contact Keith Martin		Telephone Chad Williams 405-255-3223	