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Do It Right

Confidential Information - not to be disclosed  
outside Mewbourne Oil Company

Final  
Drawing

Prepared for <b>Mr. Mickey Young</b>	Company <b>Mewbourne Oil Company</b>	Date <b>24-Mar-12</b>
Well Name <b>Empire -7MP- Federal #1H</b>	Type of Installation <b>18-Stage 4-1/2" StackFRAC® HD</b>	Location <b>Eddy County, NM</b>

Depth	Drawing	Description	OD(in)	ID(in)	Length
REV_			<b>Page 1 of 3</b>		
TD 8,241					
TVD 4,085					
KOP 3,594					
TOL 4,059					
155bbbs					
		***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: 108425-000004 (Shear Pins: 2 @ 482 plus 1 @ 241 : 1,205 psi setting pressure) SF Bottom Guide S# SNU0008205	5.875"	4.750	3.30
				3.875	2.51
			5.850"	3.850	0.92
					3.11
7" Shoe 4,288		7" 26# L-80 LT&C Casing			
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 6	4.500"	4.000	255.50
Stage 18 4,324		Packers Plus 4-1/2" Drillable FracPORT™ with 3.625" Seat for 3.750" High Pressure Ball PN: 121332-000024 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EA10122031	5.630"	3.625	2.65
159bbbs				3.840	
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.19
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	6.03
RSII 4,418		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008461	4.500"	4.000	3.10
			4.500"	4.000	84.56
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	84.56
Stage 17 4,511		Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball PN: 121332-000023 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EA3017278	5.630"	3.500	2.65
162bbbs				3.840	
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 3	4.500"	4.000	127.77
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	6.09
RSII 4,648		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008479	4.500"	4.000	3.09
			4.500"	4.000	85.18
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.18
Stage 16 4,741		Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball PN: 108481-000020 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0043439	5.630"	3.375	2.65
165bbbs				3.720	
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.09
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	6.01
RSII 4,835		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008460	4.500"	4.000	3.03
			4.500"	4.000	85.25
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.25
Stage 15 4,928		Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball PN: 108481-000019 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0043433	5.630"	3.250	2.65
168bbbs				3.720	
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.26
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	6.02
RSII 5,022		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008708	4.500"	4.000	3.02
			4.500"	4.000	85.20
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.20
Stage 14 5,116		Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball PN: 108481-000018 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040533	5.630"	3.125	2.65
171bbbs				3.720	
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 3	4.500"	4.000	127.78
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	6.01
RSII 5,252		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008641	4.500"	4.000	3.01
			4.500"	4.000	127.80
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 3	4.500"	4.000	127.80

Service Center Midland, TX	Telephone 432-563-8024	Contact Scott Mabry	Telephone Chad Williams 405-255-3223
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Final  
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Prepared for **Mr. Mickey Young** Company **Mewbourne Oil Company** Date **24-Mar-12**

Well Name **Empire -7MP- Federal #1H** Type of Installation **18-Stage 4-1/2" StackFRAC® HD** Location **Eddy County, NM**

Depth	Drawing	Description	OD(in)	ID(in)	Length
<b>Page 2 of 3</b>					
REV_					
Stage 13 5,388 175bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball PN: 108481-000017 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S# EM0043426 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3 6' x 4-1/2" 11 60# L-80 LTC Pup Joint	5 630"	3.000	2 65
RSII 5,522		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure) L-80 Mat'I 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008471 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4 500"	4.000	125.46
Stage 12 5,616 179bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball PN: 108481-000016 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S# EM 0040793 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4 500"	4.000	6 03
RSII 5,710		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure) L-80 Mat'I 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008475 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	5 750"	3.875	5.25
Stage 11 5,803 182bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball PN: 108481-000015 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S# EM0043416 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4 500"	4.000	3.04
RSII 5,897		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure) L-80 Mat'I 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008443 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3	4 500"	4.000	85.20
Stage 10 6,033 185bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball PN: 108481-000014 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S# EM0043410 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# L-80 LTC Pup Joint	5 630"	2.875	2.65
RSII 6,126		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure) L-80 Mat'I 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008159 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3	4 500"	4.000	85.20
Stage 9 6,261 189bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball PN: 108481-000013 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S# EM0043407 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4 500"	4.000	6 01
RSII 6,355		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure) L-80 Mat'I 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008478 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3	5 750"	3.875	5.25
Stage 8 6,491 192bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball PN: 108481-000012 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S# EM0043403 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4 500"	4.000	3.05
RSII 6,585		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure) L-80 Mat'I 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008448 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4 500"	4.000	127 79
Stage 7 6,679 195bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball PN: 108481-000011 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S#EM0045708 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2 6' x 4-1/2" 11.60# L-80 LTC Pup Joint	5 630"	2.625	2.65
RSII 6,773		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure) L-80 Mat'I 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008476 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4 500"	4.000	85.24
Stage 6 6,866 199bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball PN: 108481-000010 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S# EM0046413 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3	4 500"	4.000	6.00
			5.750"	3.875	5.25
			4 500"	4.000	3.08
			4 500"	4.000	85.19
			4 500"	4.000	5.97
			5.750"	3.875	5.25
			4 500"	4.000	3.08
			4 500"	4.000	85.19
			5.630"	2.125	2.65
			4.500"	4.000	127.05

Service Center **Midland, TX** Telephone **432-563-8024** Contact **Scott Mabry** Telephone **Chad Williams 405-255-3223**



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Prepared for <b>Mr. Mickey Young</b>	Company <b>Mewbourne Oil Company</b>	Date <b>24-Mar-12</b>
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Well Name <b>Empire -7MP- Federal #1H</b>	Type of Installation <b>18-Stage 4-1/2" StackFRAC® HD</b>	Location <b>Eddy County, NM</b>
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Depth	Drawing	Description	OD(in)	ID(in)	Length
<b>Page 3 of 3</b>					
REV_		6' x 4-1/2" 11 60# L-80 LTC Pup Joint	4.500"	4.000	5.98
RSII 7,002		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008481 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	5.750"	3.875	5.25
Stage 5 7,094 202bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball PN: 108481-000009 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0046407 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	3.03
		6' x 4-1/2" 11 60# L-80 LTC Pup Joint	4.500"	4.000	84.39
RSII 7,188		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008464 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	5.630"	2.000	2.65
Stage 4 7,281 205bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball PN: 108481-000008 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0045158 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.05
		6' x 4-1/2" 11 60# L-80 LTC Pup Joint	4.500"	4.000	6.00
RSII 7,375		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008442 4-1/2" 11.60# L-80 LTC LINER JOINTS: 1	5.750"	3.875	5.25
Stage 3 7,426 207bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball PN: 108481-000007 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0038100 4-1/2" 11.60# L-80 LTC LINER JOINTS: 1	4.500"	4.000	3.10
		6' x 4-1/2" 11 60# L-80 LTC Pup Joint	4.500"	4.000	85.18
RSII 7,477		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008457	5.630"	1.875	2.65
		4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	4.500"	4.000	85.24
		6' x 4-1/2" 11 60# L-80 LTC Pup Joint	4.500"	4.000	6.01
RSII 8,001		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008482 4-1/2" 11.60# L-80 LTC LINER JOINTS: 1	5.750"	3.875	5.25
Stage 2 8,052 217bbbls		Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball PN: 108481-000006 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0034469 4-1/2" 11.60# L-80 LTC LINER JOINTS: 1	4.500"	4.000	3.05
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	6.05
RSII 8,103		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure) L-80 Mat'l 3' x 4-1/2" 11.60# L-80 LTC Pup Joint S# SNU0008439 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2	5.630"	1.625	2.65
Stage 1 8,200 219bbbls		6' x 4-1/2" 11.60# L-80 LTC Pup Joint Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)	4.500"	4.000	42.60
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	6.01
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	5.750"	3.875	5.25
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	3.06
		6' x 4-1/2" 11.60# L-80 LTC Pup Joint	4.500"	4.000	85.21
		Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)			3.10

Service Center Midland, TX	Telephone 432-563-8024	Contact Scott Mabry	Telephone Chad Williams 405-255-3223
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