



Do It Once
Do It Right

**Horizontal Open Hole Multi-Stage
Fracturing and Stimulation
FINAL REPORT**

30-025-39902
Red Hills West -8- Federal #1H - 4-1/2" 20-Stage StackFRAC® HD

FINAL JOB REPORT

Prepared for Mewbourne Oil Company

StackFRAC® HD
High Density Multi-Stage
Fracturing System



Do It Once
Do It Right

Packers Plus Energy Services (USA) Inc.®

FINAL JOB REPORT

November 28, 2010

Prepared for

Mewbourne Oil Company

Red Hills West -8- Federal #1H

Mr. Mickey Young

Hobbs, NM

**Multi-Stage Open Hole Horizontal
Fracturing and Stimulation System**

Packers Plus		<i>Do It Once. Do It Right.</i>		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Drawing	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 25-Nov-10			
Well Name Red Hill West -8- Fed #1H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD		Location Lea County, NM			
Depth	Drawing	Description		OD(in)	ID(in)	Length	
				Page 1 of 4			
REV_							
TD 13,513							
TVD 8,932							
KOP 8,350							
TOL 9,042							
345BBLs							
		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: 108425-000012 (Shear Pins: 2 @ 482 plus 1 @ 241 : 1,205 psi setting pressure)		5.875"	4.750	3.31	
		SF Bottom Guide S# SNU0001247		5.850"	3.850	2.51	
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	2.44	
		7" 26# P-110 LT&C Casing					
SHOE 9,343		4-1/2" 11.60# P-110 LTC LINER JOINTS: 8		4.500"	4.000	357.08	
Stage 20 9,409		Packers Plus 4-1/2" Drillable FracPORT™ with 3.625" Seat for 3.750" High Pressure Ball PN: 121332-000024 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040601		5.630"	3.625	2.65	
351BBLs				3.840			
RSII 9,552		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3		4.500"	4.000	134.80	
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	5.99	
		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)S# EA0015994		5.750"	3.750	5.25	
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	3.00	
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2		4.500"	4.000	90.34	
Stage 19 9,651		Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball PN: 121332-000023 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0038887		5.630"	3.500	2.65	
355BBLs				3.720			
RSII 9,748		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2		4.500"	4.000	88.46	
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	5.99	
		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)S# EA0023875		5.750"	3.750	5.25	
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	3.01	
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3		4.500"	4.000	136.67	
Stage 18 9,893		Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.250" High Pressure Ball PN: 108482-000060 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0041339		5.630"	3.375	2.65	
359BBLs				3.720			
RSII 9,991		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2		4.500"	4.000	89.29	
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	5.98	
		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)S# EA0016010		5.750"	3.750	5.25	
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	3.00	
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2		4.500"	4.000	91.19	
Stage 17 10,090		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)S# EM0041861		5.630"	3.250	2.65	
362BBLs				3.720			
RSII 10,186		4-1/2" 11.60# P-110 LTC LINER JOINTS: 2		4.500"	4.000	87.35	
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	6.00	
		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)S# EA0016084		5.750"	3.750	5.25	
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint		4.500"	4.000	3.00	
		4-1/2" 11.60# P-110 LTC LINER JOINTS: 3		4.500"	4.000	136.80	
Stage 16 10,331		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)S# EM0041237		5.630"	3.125	2.65	
366BBLs				3.720			
Service Center Midland, TX		Telephone 432-563-8024		Contact Keith Martin		Telephone Chad Williams 405-255-3223	



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Final
Drawing

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 25-Nov-10	
Well Name Red Hill West -8- Fed #1H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD		Location Lea County, NM	
Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 2 of 4					
REV_		4-1/2" 11.60# P-110 LTC LINER	JOINTS: 1		
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	44.76
RSII 10,385		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	4.500"	4.000	6.00
		PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0016012	5.750"	3.750	5.25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	2.97
		4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	92.71
		JOINTS: 2			
Stage 15 10,486 369BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball	5.630"	3.000	2.65
		PN: 108482-000057 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0042635		3.720	
		4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	92.62
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	5.99
RSII 10,587		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	5.750"	3.750	5.25
		PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0015288			
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	2.99
		4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	91.51
		JOINTS: 2			
Stage 14 10,687 372BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball	5.630"	2.875	2.65
		PN: 108482-000056 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040393		3.720	
		4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	90.01
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	5.99
RSII 10,785		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	5.750"	3.750	5.25
		PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0015324			
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.00
		4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	139.01
	JOINTS: 3				
Stage 13 10,933 376BBLs	Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball	5.630"	2.750	2.65	
	PN: 108482-000055 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0041639		3.720		
	4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	91.82	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	5.99	
RSII 11,033	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	5.750"	3.750	5.25	
	PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0016182				
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.00	
	4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	92.58	
	JOINTS: 2				
Stage 12 11,134 379BBLs	Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball	5.630"	2.625	2.65	
	PN: 108482-000054 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0042129		3.720		
	4-1/2" 11.60# P-110 LTC LINER	4.500"	4.000	89.20	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	5.98	
RSII 11,232	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	5.750"	3.750	5.25	
	PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0016076				
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.03	
Service Center Midland, TX		Telephone 432-563-8024	Contact Keith Martin	Telephone Chad Williams 405-255-3223	



Packers Plus

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**Final
Drawing**

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 25-Nov-10	
Well Name Red Hill West -8- Fed #1H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD		Location Lea County, NM	

Depth

REV_

Drawing

Description

OD(in)

ID(in)

Length

Page 3 of 4

Stage 11 11,331 382BBLs	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 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)S# EM0041169	4.500" 4.000 91.44 5.630" 2.500 2.65 3.720
RSII 11,431	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 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)S# EA0024181 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500" 4.000 90.95 4.500" 4.000 6.02 5.750" 3.750 5.25 4.500" 4.000 3.00 4.500" 4.000 131.62
Stage 10 11,571 386BBLs	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)S# EM0041743	5.630" 2.375 2.65 3.720
RSII 11,671	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 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)S# EA0016020 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 91.54 4.500" 4.000 6.07 5.750" 3.750 5.25 4.500" 4.000 3.00 4.500" 4.000 88.30
Stage 9 11,768 389BBLs	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)S# EM0041891	5.630" 2.250 2.65 3.720
RSII 11,866	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 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)S# EA0016006 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 89.34 4.500" 4.000 6.03 5.750" 3.750 5.25 4.500" 4.000 3.01 4.500" 4.000 85.03
Stage 8 11,959 392BBLs	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)S# EM0035117	5.630" 2.125 2.65 3.720
RSII 12,052	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 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)S# EA0023899 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500" 4.000 84.70 4.500" 4.000 6.00 5.750" 3.750 5.25 4.500" 4.000 3.02 4.500" 4.000 134.20
Stage 7 12,195 394BBLs	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)S# EM0041493	5.630" 2.000 2.65 3.720
RSII 12,295	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 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)S# EA0015310 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 91.18 4.500" 4.000 5.95 5.750" 3.750 5.25 4.500" 4.000 3.01 4.500" 4.000 82.84
Stage 6 12,386 397BBLs	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)S# EM0034991	5.630" 1.875 2.65 3.720
RSII 12,482	4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 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)S# EA0016080 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3	4.500" 4.000 87.40 4.500" 4.000 6.00 5.750" 3.750 5.25 4.500" 4.000 2.99 4.500" 4.000 128.15
Stage 5 12,618 401BBLs	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)S# EM0035075	5.630" 1.750 2.65 3.720

Service Center
Midland, TX

Telephone
432-563-8024

Contact
Keith Martin

Telephone
Chad Williams 405-255-3223



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Final
Drawing

Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 25-Nov-10	
Well Name Red Hill West -8- Fed #1H		Type of Installation 20-Stage 4-1/2" StackFRAC® HD		Location Lea County, NM	
Depth	Drawing	Description	OD(in)	ID(in)	Length
Page 4 of 4					
REV_		4-1/2" 11.60# P-110 LTC LINER	JOINTS: 2		
RSII		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	91.24
12,718		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	4.500"	4.000	5.98
		PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0016022	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	92.65
Stage 4		Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball	5.630"	1.625	2.65
12,819		PN: 108482-000048 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0022871		3.720	
404BBLs					
		4-1/2" 11.60# P-110 LTC LINER	JOINTS: 2		
RSII		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	85.61
12,913		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	4.500"	4.000	6.05
		PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0015986	5.750"	3.750	5.25
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.02
		4-1/2" 11.60# P-110 LTC LINER	JOINTS: 2		
			4.500"	4.000	92.60
Stage 3		Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball	5.630"	1.500	2.65
13,014		PN: 108482-000047 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0036513		3.720	
407BBLs					
	4-1/2" 11.60# P-110 LTC LINER	JOINTS: 2			
RSII	6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	86.95	
13,110	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	4.500"	4.000	5.99	
	PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0016136	5.750"	3.750	5.25	
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.02	
	4-1/2" 11.60# P-110 LTC LINER	JOINTS: 3			
		4.500"	4.000	136.16	
Stage 2	Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball	5.630"	1.375	2.65	
13,254	PN: 108482-000046 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0037909		3.720		
411BBLs					
	4-1/2" 11.60# P-110 LTC LINER	JOINTS: 2			
RSII	6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	90.35	
13,353	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer	4.500"	4.000	6.00	
	PN: 102188-000003 (6 shear pins at 324 psi each: 1,950 psi setting pressure)S# EA0023915	5.750"	3.750	5.25	
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	3.01	
	4-1/2" 11.60# P-110 LTC LINER	JOINTS: 2			
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	92.65	
Stage 1	Packers Plus 4-1/2" Dual Hydraulic FracPORT™ Centralized PN: 105900-000002	5.630"	3.750	4.34	
13,460	(11 pins at 391 psi each: 4,301 psi Upper) / (7 pins at 630 psi each: 4,410 psi Lower)				
414BBLs	3' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	2.99	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	6.00	
TOE	Packers Plus 4-1/2" Toe Circulating Sub w/ 1.00" Seat for 1.25" High Pressure Ball	5.500"	NA	2.73	
13,473	PN: 103039-000011 (3 pins at 366 psi each: 1,098 psi closing pressure)S# EA0032381				
	4-1/2" LTC Single Valve Float Collar PN: 104733	5.000"	NA	1.33	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint	4.500"	4.000	5.99	
G.S	4-1/2" LTC Single Valve Float Collar PN: 104733	5.000"	NA	1.33	
13,486	4-1/2" LTC Guide Shoe PN: 121704-000001	5.500"	2.250	0.75	
Service Center Midland, TX			Telephone Chad Williams 405-255-3223		
Telephone 432-563-8024			Contact Keith Martin		

PACKERS PLUS - PACKER PLACEMENT

Red Hill West -8- Fed #1H					
Item	Description	Length	Landed @	Accumulated	Proposed
			Actual MD		
			13486.00		
	Guide Shoe	0.75	13485.25	0.75	
	Float Collar	1.33	13483.92	2.08	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.99	13477.93	8.07	
	Float Collar	1.33	13476.60	9.40	
	Toe Circulating Sub	2.73	13473.87	12.13	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.00	13467.87	18.13	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	2.99	13464.88	21.12	
	Dual Hyd.FRAC PORT	4.34	13460.54	25.46	13460.00
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.00	13454.54	31.46	
1	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.32	13408.22	77.78	
2	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.33	13361.89	124.11	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.01	13358.88	127.12	
	ROCK SEAL II OPENHOLE PACKER	5.25	13353.63	132.37	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.00	13347.63	138.37	
3	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	13301.33	184.67	
4	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.05	13257.28	228.72	
	1.375" DRILLABLE FRAC PORT	2.65	13254.63	231.37	13245.00
5	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.34	13208.29	277.71	
6	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.52	13164.77	321.23	
7	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	13118.47	367.53	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.02	13115.45	370.55	
	ROCK SEAL II OPENHOLE PACKER	5.25	13110.20	375.80	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.99	13104.21	381.79	
8	One Jt. 4-1/2" 11.6# P-110 LTC Liner	40.61	13063.60	422.40	
9	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.34	13017.26	468.74	
	1.50" DRILLABLE FRAC PORT	2.65	13014.61	471.39	13035.00
10	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	12968.31	517.69	
11	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	12922.01	563.99	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.02	12918.99	567.01	
	ROCK SEAL II OPENHOLE PACKER	5.25	12913.74	572.26	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.05	12907.69	578.31	
12	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.33	12861.36	624.64	
13	One Jt. 4-1/2" 11.6# P-110 LTC Liner	39.28	12822.08	663.92	
	1.625" DRILLABLE FRAC PORT	2.65	12819.43	666.57	12820.00
14	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.31	12773.12	712.88	
15	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.34	12726.78	759.22	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.03	12723.75	762.25	
	ROCK SEAL II OPENHOLE PACKER	5.25	12718.50	767.50	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.98	12712.52	773.48	
16	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.92	12667.60	818.40	
17	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.32	12621.28	864.72	
	1.75" DRILLABLE FRAC PORT	2.65	12618.63	867.37	12600.00
18	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.28	12572.35	913.65	
19	One Jt. 4-1/2" 11.6# P-110 LTC Liner	39.84	12532.51	953.49	

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20	One Jt. 4-1/2" 11.6# P-110 LTC Liner	42.03	12490.48	995.52	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	2.99	12487.49	998.51	
	ROCK SEAL II OPENHOLE PACKER	5.25	12482.24	1003.76	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.00	12476.24	1009.76	
21	One Jt. 4-1/2" 11.6# P-110 LTC Liner	42.22	12434.02	1051.98	
22	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.18	12388.84	1097.16	
	1.875" DRILLABLE FRAC PORT	2.65	12386.19	1099.81	12400.00
23	One Jt. 4-1/2" 11.6# P-110 LTC Liner	36.53	12349.66	1136.34	
24	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.31	12303.35	1182.65	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.01	12300.34	1185.66	
	ROCK SEAL II OPENHOLE PACKER	5.25	12295.09	1190.91	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.95	12289.14	1196.86	
25	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.85	12244.29	1241.71	
26	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.33	12197.96	1288.04	
	2.00" DRILLABLE FRAC PORT	2.65	12195.31	1290.69	12190.00
27	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.62	12150.69	1335.31	
28	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.34	12104.35	1381.65	
29	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.24	12061.11	1424.89	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.02	12058.09	1427.91	
	ROCK SEAL II OPENHOLE PACKER	5.25	12052.84	1433.16	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.00	12046.84	1439.16	
30	One Jt. 4-1/2" 11.6# P-110 LTC Liner	41.40	12005.44	1480.56	
31	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.30	11962.14	1523.86	
	2.125" DRILLABLE FRAC PORT	2.65	11959.49	1526.51	11975.00
32	One Jt. 4-1/2" 11.6# P-110 LTC Liner	39.91	11919.58	1566.42	
33	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.12	11874.46	1611.54	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.01	11871.45	1614.55	
	ROCK SEAL II OPENHOLE PACKER	5.25	11866.20	1619.80	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.03	11860.17	1625.83	
34	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.90	11815.27	1670.73	
35	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.44	11770.83	1715.17	
	2.25" DRILLABLE FRAC PORT	2.65	11768.18	1717.82	11760.00
36	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.05	11723.13	1762.87	
37	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.25	11679.88	1806.12	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.00	11676.88	1809.12	
	ROCK SEAL II OPENHOLE PACKER	5.25	11671.63	1814.37	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.07	11665.56	1820.44	
38	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.22	11620.34	1865.66	
39	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.32	11574.02	1911.98	
	2.375" DRILLABLE FRAC PORT	2.65	11571.37	1914.63	11565.00
40	One Jt. 4-1/2" 11.6# P-110 LTC Liner	40.85	11530.52	1955.48	
41	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	11484.22	2001.78	
42	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.47	11439.75	2046.25	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.00	11436.75	2049.25	
	ROCK SEAL II OPENHOLE PACKER	5.25	11431.50	2054.50	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.02	11425.48	2060.52	
43	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.33	11379.15	2106.85	
44	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.62	11334.53	2151.47	

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	2.50" DRILLABLE FRAC PORT	2.65	11331.88	2154.12	11350.00
45	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.34	11285.54	2200.46	
46	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.10	11240.44	2245.56	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.03	11237.41	2248.59	
	ROCK SEAL II OPENHOLE PACKER	5.25	11232.16	2253.84	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.98	11226.18	2259.82	
47	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	11179.88	2306.12	
48	One Jt. 4-1/2" 11.6# P-110 LTC Liner	42.90	11136.98	2349.02	
	2.625" DRILLABLE FRAC PORT	2.65	11134.33	2351.67	11140.00
49	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.29	11088.04	2397.96	
50	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.29	11041.75	2444.25	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.00	11038.75	2447.25	
	ROCK SEAL II OPENHOLE PACKER	5.25	11033.50	2452.50	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.99	11027.51	2458.49	
51	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.54	10981.97	2504.03	
52	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.28	10935.69	2550.31	
	2.75" DRILLABLE FRAC PORT	2.65	10933.04	2552.96	10920.00
53	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.31	10886.73	2599.27	
54	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.40	10840.33	2645.67	
55	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	10794.03	2691.97	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.00	10791.03	2694.97	
	ROCK SEAL II OPENHOLE PACKER	5.25	10785.78	2700.22	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.99	10779.79	2706.21	
56	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.35	10733.44	2752.56	
57	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.66	10689.78	2796.22	
	2.875" DRILLABLE FRAC PORT	2.65	10687.13	2798.87	10700.00
58	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.25	10640.88	2845.12	
59	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.26	10595.62	2890.38	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	2.99	10592.63	2893.37	
	ROCK SEAL II OPENHOLE PACKER	5.25	10587.38	2898.62	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.99	10581.39	2904.61	
60	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.32	10535.07	2950.93	
61	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.30	10488.77	2997.23	
	3.00" DRILLABLE FRAC PORT	2.65	10486.12	2999.88	10500.00
62	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.35	10439.77	3046.23	
63	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.36	10393.41	3092.59	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	2.97	10390.44	3095.56	
	ROCK SEAL II OPENHOLE PACKER	5.25	10385.19	3100.81	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.00	10379.19	3106.81	
64	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.76	10334.43	3151.57	
	3.125" DRILLABLE FRAC PORT	2.65	10331.78	3154.22	10330.00
65	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.26	10285.52	3200.48	
66	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.32	10239.20	3246.80	
67	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.22	10194.98	3291.02	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.00	10191.98	3294.02	
	ROCK SEAL II OPENHOLE PACKER	5.25	10186.73	3299.27	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	6.00	10180.73	3305.27	
68	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.15	10135.58	3350.42	

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69	One Jt. 4-1/2" 11.6# P-110 LTC Liner	42.20	10093.38	3392.62	
	3.25" DRILLABLE FRAC PORT	2.65	10090.73	3395.27	10100.00
70	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.24	10044.49	3441.51	
71	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.95	9999.54	3486.46	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.00	9996.54	3489.46	
	ROCK SEAL II OPENHOLE PACKER	5.25	9991.29	3494.71	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.98	9985.31	3500.69	
72	One Jt. 4-1/2" 11.6# P-110 LTC Liner	42.90	9942.41	3543.59	
73	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.39	9896.02	3589.98	
	3.375" DRILLABLE FRAC PORT	2.65	9893.37	3592.63	9880.00
74	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.27	9847.10	3638.90	
75	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.20	9801.90	3684.10	
76	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.20	9756.70	3729.30	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.01	9753.69	3732.31	
	ROCK SEAL II OPENHOLE PACKER	5.25	9748.44	3737.56	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.99	9742.45	3743.55	
77	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.17	9697.28	3788.72	
78	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.29	9653.99	3832.01	
	3.50" DRILLABLE FRAC PORT	2.65	9651.34	3834.66	9660.00
79	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.94	9607.40	3878.60	
80	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.40	9561.00	3925.00	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	3.00	9558.00	3928.00	
	ROCK SEAL II OPENHOLE PACKER	5.25	9552.75	3933.25	
	4-1/2" 11.6# P-110 LTC 6' Pup Jt	5.99	9546.76	3939.24	
81	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.92	9501.84	3984.16	
82	One Jt. 4-1/2" 11.6# P-110 LTC Liner	43.56	9458.28	4027.72	
83	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.32	9411.96	4074.04	
	3.625" DRILLABLE FRAC PORT	2.65	9409.31	4076.69	9430.00
84	One Jt. 4-1/2" 11.6# P-110 LTC Liner	42.40	9366.91	4119.09	
85	One Jt. 4-1/2" 11.6# P-110 LTC Liner	44.94	9321.97	4164.03	
86	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.28	9275.69	4210.31	
87	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.28	9229.41	4256.59	
88	One Jt. 4-1/2" 11.6# P-110 LTC Liner	39.65	9189.76	4296.24	
89	One Jt. 4-1/2" 11.6# P-110 LTC Liner	45.02	9144.74	4341.26	
90	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.40	9098.34	4387.66	
91	One Jt. 4-1/2" 11.6# P-110 LTC Liner	46.11	9052.23	4433.77	
	4-1/2" 11.6# P-110 LTC 3' Pup Jt	2.44	9049.79	4436.21	
	Bottom	1.26	9048.53	4437.47	
	SF Hangar	2.51	9046.02	4439.98	
	Top Sleeve	3.31	9042.71	4443.29	
	Setting Tool	5.02	9037.69	4448.31	
	Swivel	1.68	9036.01	4449.99	
	Handling Sub	11.72	9024.29	4461.71	
x	3 1/2 Drill Pipe Joint 13.3#	32.06	8992.23	4493.77	
xx	3 1/2 Drill Pipe Joint 13.3#	31.71	8960.52	4525.48	
1	3 1/2 Drill Pipe Joint 13.3#	31.81	8928.71	4557.29	
x	3 1/2 Drill Pipe Joint 13.3#	31.77	8896.94	4589.06	
xx	3 1/2 Drill Pipe Joint 13.3#	31.81	8865.13	4620.87	

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2	3 1/2 Drill Pipe Joint 13.3#	31.86	8833.27	4652.73	
x	3 1/2 Drill Pipe Joint 13.3#	31.70	8801.57	4684.43	
xx	3 1/2 Drill Pipe Joint 13.3#	30.28	8771.29	4714.71	
3	3 1/2 Drill Pipe Joint 13.3#	31.81	8739.48	4746.52	
x	3 1/2 Drill Pipe Joint 13.3#	31.85	8707.63	4778.37	
xx	3 1/2 Drill Pipe Joint 13.3#	31.50	8676.13	4809.87	
4	3 1/2 Drill Pipe Joint 13.3#	31.74	8644.39	4841.61	
x	3 1/2 Drill Pipe Joint 13.3#	31.97	8612.42	4873.58	
xx	3 1/2 Drill Pipe Joint 13.3#	31.30	8581.12	4904.88	
5	3 1/2 Drill Pipe Joint 13.3#	31.88	8549.24	4936.76	
x	3 1/2 Drill Pipe Joint 13.3#	31.58	8517.66	4968.34	
xx	3 1/2 Drill Pipe Joint 13.3#	31.81	8485.85	5000.15	
6	3 1/2 Drill Pipe Joint 13.3#	31.76	8454.09	5031.91	
x	3 1/2 Drill Pipe Joint 13.3#	31.58	8422.51	5063.49	
xx	3 1/2 Drill Pipe Joint 13.3#	31.31	8391.20	5094.80	
7	3 1/2 Drill Pipe Joint 13.3#	32.01	8359.19	5126.81	
x	3 1/2 Drill Pipe Joint 13.3#	31.73	8327.46	5158.54	
xx	3 1/2 Drill Pipe Joint 13.3#	31.73	8295.73	5190.27	
8	3 1/2 Drill Pipe Joint 13.3#	31.71	8264.02	5221.98	
x	Drill Collars 4 3/4" 46.6#	31.57	8232.45	5253.55	
xx	Drill Collars 4 3/4" 46.6#	30.98	8201.47	5284.53	
9	Drill Collars 4 3/4" 46.6#	30.58	8170.89	5315.11	
x	Drill Collars 4 3/4" 46.6#	31.04	8139.85	5346.15	
xx	Drill Collars 4 3/4" 46.6#	31.77	8108.08	5377.92	
10	Drill Collars 4 3/4" 46.6#	31.06	8077.02	5408.98	
x	Drill Collars 4 3/4" 46.6#	30.45	8046.57	5439.43	
xx	Drill Collars 4 3/4" 46.6#	31.36	8015.21	5470.79	
11	Drill Collars 4 3/4" 46.6#	30.80	7984.41	5501.59	
x	Drill Collars 4 3/4" 46.6#	31.11	7953.30	5532.70	
xx	Drill Collars 4 3/4" 46.6#	31.68	7921.62	5564.38	
12	Drill Collars 4 3/4" 46.6#	30.55	7891.07	5594.93	
x	Drill Collars 4 3/4" 46.6#	31.44	7859.63	5626.37	
xx	Drill Collars 4 3/4" 46.6#	31.37	7828.26	5657.74	
13	Drill Collars 4 3/4" 46.6#	31.16	7797.10	5688.90	
x	Drill Collars 4 3/4" 46.6#	30.65	7766.45	5719.55	
xx	Drill Collars 4 3/4" 46.6#	31.22	7735.23	5750.77	
14	Drill Collars 4 3/4" 46.6#	31.01	7704.22	5781.78	
x	Drill Collars 4 3/4" 46.6#	30.70	7673.52	5812.48	
xx	Drill Collars 4 3/4" 46.6#	31.39	7642.13	5843.87	
15	Drill Collars 4 3/4" 46.6#	31.08	7611.05	5874.95	
x	Drill Collars 4 3/4" 46.6#	30.96	7580.09	5905.91	
xx	Drill Collars 4 3/4" 46.6#	30.88	7549.21	5936.79	
16	Drill Collars 4 3/4" 46.6#	31.73	7517.48	5968.52	
x	Drill Collars 4 3/4" 46.6#	29.68	7487.80	5998.20	
xx	Drill Collars 4 3/4" 46.6#	31.70	7456.10	6029.90	
17	Drill Collars 4 3/4" 46.6#	29.80	7426.30	6059.70	
x	Drill Collars 4 3/4" 46.6#	31.48	7394.82	6091.18	
xx	Drill Collars 4 3/4" 46.6#	30.69	7364.13	6121.87	

PACKERS PLUS - PACKER PLACEMENT

18	Drill Collars 4 3/4" 46.6#	31.02	7333.11	6152.89	
x	Drill Collars 4 3/4" 46.6#	31.25	7301.86	6184.14	
xx	Drill Collars 4 3/4" 46.6#	30.89	7270.97	6215.03	
19	Drill Collars 4 3/4" 46.6#	31.30	7239.67	6246.33	
x	Drill Collars 4 3/4" 46.6#	31.14	7208.53	6277.47	
xx	Drill Collars 4 3/4" 46.6#	31.62	7176.91	6309.09	
20	Drill Collars 4 3/4" 46.6#	30.72	7146.19	6339.81	
x	Drill Collars 4 3/4" 46.6#	29.83	7116.36	6369.64	
xx	Drill Collars 4 3/4" 46.6#	30.85	7085.51	6400.49	
21	Drill Collars 4 3/4" 46.6#	31.03	7054.48	6431.52	
x	Drill Collars 4 3/4" 46.6#	31.58	7022.90	6463.10	
xx	Drill Collars 4 3/4" 46.6#	31.13	6991.77	6494.23	
22	Drill Collars 4 3/4" 46.6#	31.16	6960.61	6525.39	
x	3 1/2 Drill Pipe Joint 13.3#	31.77	6928.84	6557.16	
xx	3 1/2 Drill Pipe Joint 13.3#	31.91	6896.93	6589.07	
23	3 1/2 Drill Pipe Joint 13.3#	31.94	6864.99	6621.01	
x	3 1/2 Drill Pipe Joint 13.3#	31.95	6833.04	6652.96	
xx	3 1/2 Drill Pipe Joint 13.3#	32.03	6801.01	6684.99	
24	3 1/2 Drill Pipe Joint 13.3#	31.82	6769.19	6716.81	
x	3 1/2 Drill Pipe Joint 13.3#	31.71	6737.48	6748.52	
xx	3 1/2 Drill Pipe Joint 13.3#	31.85	6705.63	6780.37	
25	3 1/2 Drill Pipe Joint 13.3#	31.73	6673.90	6812.10	
x	3 1/2 Drill Pipe Joint 13.3#	31.78	6642.12	6843.88	
xx	3 1/2 Drill Pipe Joint 13.3#	31.80	6610.32	6875.68	
26	3 1/2 Drill Pipe Joint 13.3#	31.71	6578.61	6907.39	
x	3 1/2 Drill Pipe Joint 13.3#	31.90	6546.71	6939.29	
xx	3 1/2 Drill Pipe Joint 13.3#	31.78	6514.93	6971.07	
27	3 1/2 Drill Pipe Joint 13.3#	31.93	6483.00	7003.00	
x	3 1/2 Drill Pipe Joint 13.3#	31.93	6451.07	7034.93	
xx	3 1/2 Drill Pipe Joint 13.3#	31.61	6419.46	7066.54	
28	3 1/2 Drill Pipe Joint 13.3#	31.76	6387.70	7098.30	
x	3 1/2 Drill Pipe Joint 13.3#	31.88	6355.82	7130.18	
xx	3 1/2 Drill Pipe Joint 13.3#	31.92	6323.90	7162.10	
29	3 1/2 Drill Pipe Joint 13.3#	31.95	6291.95	7194.05	
x	3 1/2 Drill Pipe Joint 13.3#	31.88	6260.07	7225.93	
xx	3 1/2 Drill Pipe Joint 13.3#	31.82	6228.25	7257.75	
30	3 1/2 Drill Pipe Joint 13.3#	31.53	6196.72	7289.28	
x	3 1/2 Drill Pipe Joint 13.3#	32.02	6164.70	7321.30	
xx	3 1/2 Drill Pipe Joint 13.3#	31.35	6133.35	7352.65	
31	3 1/2 Drill Pipe Joint 13.3#	31.70	6101.65	7384.35	
x	3 1/2 Drill Pipe Joint 13.3#	31.92	6069.73	7416.27	
xx	3 1/2 Drill Pipe Joint 13.3#	31.66	6038.07	7447.93	
32	3 1/2 Drill Pipe Joint 13.3#	31.88	6006.19	7479.81	
x	3 1/2 Drill Pipe Joint 13.3#	31.74	5974.45	7511.55	
xx	3 1/2 Drill Pipe Joint 13.3#	31.98	5942.47	7543.53	
33	3 1/2 Drill Pipe Joint 13.3#	31.72	5910.75	7575.25	
x	3 1/2 Drill Pipe Joint 13.3#	31.38	5879.37	7606.63	
xx	3 1/2 Drill Pipe Joint 13.3#	31.45	5847.92	7638.08	

PACKERS PLUS - PACKER PLACEMENT

34	3 1/2 Drill Pipe Joint 13.3#	31.72	5816.20	7669.80	
x	3 1/2 Drill Pipe Joint 13.3#	31.71	5784.49	7701.51	
xx	3 1/2 Drill Pipe Joint 13.3#	31.88	5752.61	7733.39	
35	3 1/2 Drill Pipe Joint 13.3#	31.97	5720.64	7765.36	
x	3 1/2 Drill Pipe Joint 13.3#	31.63	5689.01	7796.99	
xx	3 1/2 Drill Pipe Joint 13.3#	31.82	5657.19	7828.81	
36	3 1/2 Drill Pipe Joint 13.3#	31.93	5625.26	7860.74	
x	3 1/2 Drill Pipe Joint 13.3#	31.85	5593.41	7892.59	
xx	3 1/2 Drill Pipe Joint 13.3#	31.61	5561.80	7924.20	
37	3 1/2 Drill Pipe Joint 13.3#	31.70	5530.10	7955.90	
x	3 1/2 Drill Pipe Joint 13.3#	31.71	5498.39	7987.61	
xx	3 1/2 Drill Pipe Joint 13.3#	31.76	5466.63	8019.37	
38	3 1/2 Drill Pipe Joint 13.3#	31.65	5434.98	8051.02	
x	3 1/2 Drill Pipe Joint 13.3#	31.95	5403.03	8082.97	
xx	3 1/2 Drill Pipe Joint 13.3#	32.10	5370.93	8115.07	
39	3 1/2 Drill Pipe Joint 13.3#	31.70	5339.23	8146.77	
x	3 1/2 Drill Pipe Joint 13.3#	32.03	5307.20	8178.80	
xx	3 1/2 Drill Pipe Joint 13.3#	31.84	5275.36	8210.64	
40	3 1/2 Drill Pipe Joint 13.3#	32.04	5243.32	8242.68	
x	3 1/2 Drill Pipe Joint 13.3#	31.94	5211.38	8274.62	
xx	3 1/2 Drill Pipe Joint 13.3#	31.70	5179.68	8306.32	
41	3 1/2 Drill Pipe Joint 13.3#	31.70	5147.98	8338.02	
x	3 1/2 Drill Pipe Joint 13.3#	31.74	5116.24	8369.76	
xx	3 1/2 Drill Pipe Joint 13.3#	31.90	5084.34	8401.66	
42	3 1/2 Drill Pipe Joint 13.3#	31.98	5052.36	8433.64	
x	3 1/2 Drill Pipe Joint 13.3#	31.75	5020.61	8465.39	
xx	3 1/2 Drill Pipe Joint 13.3#	31.98	4988.63	8497.37	
43	3 1/2 Drill Pipe Joint 13.3#	31.65	4956.98	8529.02	
x	3 1/2 Drill Pipe Joint 13.3#	31.80	4925.18	8560.82	
xx	3 1/2 Drill Pipe Joint 13.3#	31.95	4893.23	8592.77	
44	3 1/2 Drill Pipe Joint 13.3#	31.84	4861.39	8624.61	
x	3 1/2 Drill Pipe Joint 13.3#	31.95	4829.44	8656.56	
xx	3 1/2 Drill Pipe Joint 13.3#	31.83	4797.61	8688.39	
45	3 1/2 Drill Pipe Joint 13.3#	31.80	4765.81	8720.19	
x	3 1/2 Drill Pipe Joint 13.3#	31.48	4734.33	8751.67	
xx	3 1/2 Drill Pipe Joint 13.3#	31.79	4702.54	8783.46	
46	3 1/2 Drill Pipe Joint 13.3#	31.98	4670.56	8815.44	
x	3 1/2 Drill Pipe Joint 13.3#	31.10	4639.46	8846.54	
xx	3 1/2 Drill Pipe Joint 13.3#	31.98	4607.48	8878.52	
47	3 1/2 Drill Pipe Joint 13.3#	31.86	4575.62	8910.38	
x	3 1/2 Drill Pipe Joint 13.3#	31.94	4543.68	8942.32	
xx	3 1/2 Drill Pipe Joint 13.3#	32.03	4511.65	8974.35	
48	3 1/2 Drill Pipe Joint 13.3#	32.58	4479.07	9006.93	
x	3 1/2 Drill Pipe Joint 13.3#	32.00	4447.07	9038.93	
xx	3 1/2 Drill Pipe Joint 13.3#	31.88	4415.19	9070.81	
49	3 1/2 Drill Pipe Joint 13.3#	31.98	4383.21	9102.79	
x	3 1/2 Drill Pipe Joint 13.3#	31.88	4351.33	9134.67	
xx	3 1/2 Drill Pipe Joint 13.3#	31.88	4319.45	9166.55	

PACKERS PLUS - PACKER PLACEMENT

50	3 1/2 Drill Pipe Joint 13.3#	31.83	4287.62	9198.38	
x	3 1/2 Drill Pipe Joint 13.3#	32.03	4255.59	9230.41	
xx	3 1/2 Drill Pipe Joint 13.3#	32.01	4223.58	9262.42	
51	3 1/2 Drill Pipe Joint 13.3#	31.98	4191.60	9294.40	
x	3 1/2 Drill Pipe Joint 13.3#	31.48	4160.12	9325.88	
xx	3 1/2 Drill Pipe Joint 13.3#	31.52	4128.60	9357.40	
52	3 1/2 Drill Pipe Joint 13.3#	32.01	4096.59	9389.41	
x	3 1/2 Drill Pipe Joint 13.3#	31.64	4064.95	9421.05	
xx	3 1/2 Drill Pipe Joint 13.3#	31.48	4033.47	9452.53	
53	3 1/2 Drill Pipe Joint 13.3#	31.85	4001.62	9484.38	
x	3 1/2 Drill Pipe Joint 13.3#	31.52	3970.10	9515.90	
xx	3 1/2 Drill Pipe Joint 13.3#	31.82	3938.28	9547.72	
54	3 1/2 Drill Pipe Joint 13.3#	31.13	3907.15	9578.85	
x	3 1/2 Drill Pipe Joint 13.3#	31.78	3875.37	9610.63	
xx	3 1/2 Drill Pipe Joint 13.3#	31.98	3843.39	9642.61	
55	3 1/2 Drill Pipe Joint 13.3#	32.05	3811.34	9674.66	
x	3 1/2 Drill Pipe Joint 13.3#	31.94	3779.40	9706.60	
xx	3 1/2 Drill Pipe Joint 13.3#	32.00	3747.40	9738.60	
56	3 1/2 Drill Pipe Joint 13.3#	31.60	3715.80	9770.20	
x	3 1/2 Drill Pipe Joint 13.3#	31.98	3683.82	9802.18	
xx	3 1/2 Drill Pipe Joint 13.3#	31.20	3652.62	9833.38	
57	3 1/2 Drill Pipe Joint 13.3#	31.68	3620.94	9865.06	
x	3 1/2 Drill Pipe Joint 13.3#	31.84	3589.10	9896.90	
xx	3 1/2 Drill Pipe Joint 13.3#	31.63	3557.47	9928.53	
58	3 1/2 Drill Pipe Joint 13.3#	31.68	3525.79	9960.21	
x	3 1/2 Drill Pipe Joint 13.3#	31.88	3493.91	9992.09	
xx	3 1/2 Drill Pipe Joint 13.3#	32.10	3461.81	10024.19	
59	3 1/2 Drill Pipe Joint 13.3#	31.83	3429.98	10056.02	
x	3 1/2 Drill Pipe Joint 13.3#	31.82	3398.16	10087.84	
xx	3 1/2 Drill Pipe Joint 13.3#	31.88	3366.28	10119.72	
60	3 1/2 Drill Pipe Joint 13.3#	31.75	3334.53	10151.47	
x	3 1/2 Drill Pipe Joint 13.3#	31.85	3302.68	10183.32	
xx	3 1/2 Drill Pipe Joint 13.3#	31.98	3270.70	10215.30	
61	3 1/2 Drill Pipe Joint 13.3#	32.12	3238.58	10247.42	
x	3 1/2 Drill Pipe Joint 13.3#	31.88	3206.70	10279.30	
xx	3 1/2 Drill Pipe Joint 13.3#	31.68	3175.02	10310.98	
62	3 1/2 Drill Pipe Joint 13.3#	31.50	3143.52	10342.48	
x	3 1/2 Drill Pipe Joint 13.3#	31.28	3112.24	10373.76	
xx	3 1/2 Drill Pipe Joint 13.3#	32.00	3080.24	10405.76	
63	3 1/2 Drill Pipe Joint 13.3#	31.98	3048.26	10437.74	
x	3 1/2 Drill Pipe Joint 13.3#	31.82	3016.44	10469.56	
xx	3 1/2 Drill Pipe Joint 13.3#	31.63	2984.81	10501.19	
64	3 1/2 Drill Pipe Joint 13.3#	31.98	2952.83	10533.17	
x	3 1/2 Drill Pipe Joint 13.3#	31.62	2921.21	10564.79	
xx	3 1/2 Drill Pipe Joint 13.3#	31.74	2889.47	10596.53	
65	3 1/2 Drill Pipe Joint 13.3#	31.82	2857.65	10628.35	
x	3 1/2 Drill Pipe Joint 13.3#	31.26	2826.39	10659.61	
xx	3 1/2 Drill Pipe Joint 13.3#	31.91	2794.48	10691.52	

PACKERS PLUS - PACKER PLACEMENT

66	3 1/2 Drill Pipe Joint 13.3#	31.99	2762.49	10723.51	
x	3 1/2 Drill Pipe Joint 13.3#	31.60	2730.89	10755.11	
xx	3 1/2 Drill Pipe Joint 13.3#	31.98	2698.91	10787.09	
67	3 1/2 Drill Pipe Joint 13.3#	31.88	2667.03	10818.97	
x	3 1/2 Drill Pipe Joint 13.3#	31.83	2635.20	10850.80	
xx	3 1/2 Drill Pipe Joint 13.3#	31.85	2603.35	10882.65	
68	3 1/2 Drill Pipe Joint 13.3#	31.42	2571.93	10914.07	
x	3 1/2 Drill Pipe Joint 13.3#	32.04	2539.89	10946.11	
xx	3 1/2 Drill Pipe Joint 13.3#	31.70	2508.19	10977.81	
69	3 1/2 Drill Pipe Joint 13.3#	31.60	2476.59	11009.41	
x	3 1/2 Drill Pipe Joint 13.3#	31.94	2444.65	11041.35	
xx	3 1/2 Drill Pipe Joint 13.3#	31.66	2412.99	11073.01	
70	3 1/2 Drill Pipe Joint 13.3#	31.60	2381.39	11104.61	
x	3 1/2 Drill Pipe Joint 13.3#	31.81	2349.58	11136.42	
xx	3 1/2 Drill Pipe Joint 13.3#	31.97	2317.61	11168.39	
71	3 1/2 Drill Pipe Joint 13.3#	31.62	2285.99	11200.01	
x	3 1/2 Drill Pipe Joint 13.3#	31.75	2254.24	11231.76	
xx	3 1/2 Drill Pipe Joint 13.3#	31.67	2222.57	11263.43	
72	3 1/2 Drill Pipe Joint 13.3#	31.93	2190.64	11295.36	
x	3 1/2 Drill Pipe Joint 13.3#	32.00	2158.64	11327.36	
xx	3 1/2 Drill Pipe Joint 13.3#	31.62	2127.02	11358.98	
73	3 1/2 Drill Pipe Joint 13.3#	32.03	2094.99	11391.01	
x	3 1/2 Drill Pipe Joint 13.3#	31.34	2063.65	11422.35	
xx	3 1/2 Drill Pipe Joint 13.3#	31.23	2032.42	11453.58	
74	3 1/2 Drill Pipe Joint 13.3#	31.60	2000.82	11485.18	
x	3 1/2 Drill Pipe Joint 13.3#	31.78	1969.04	11516.96	
xx	3 1/2 Drill Pipe Joint 13.3#	31.78	1937.26	11548.74	
75	3 1/2 Drill Pipe Joint 13.3#	31.58	1905.68	11580.32	
x	3 1/2 Drill Pipe Joint 13.3#	31.82	1873.86	11612.14	
xx	3 1/2 Drill Pipe Joint 13.3#	31.75	1842.11	11643.89	
76	3 1/2 Drill Pipe Joint 13.3#	31.38	1810.73	11675.27	
x	3 1/2 Drill Pipe Joint 13.3#	31.80	1778.93	11707.07	
xx	3 1/2 Drill Pipe Joint 13.3#	31.82	1747.11	11738.89	
77	3 1/2 Drill Pipe Joint 13.3#	31.68	1715.43	11770.57	
x	3 1/2 Drill Pipe Joint 13.3#	31.89	1683.54	11802.46	
xx	3 1/2 Drill Pipe Joint 13.3#	31.90	1651.64	11834.36	
78	3 1/2 Drill Pipe Joint 13.3#	31.95	1619.69	11866.31	
x	3 1/2 Drill Pipe Joint 13.3#	31.52	1588.17	11897.83	
xx	3 1/2 Drill Pipe Joint 13.3#	31.72	1556.45	11929.55	
79	3 1/2 Drill Pipe Joint 13.3#	31.95	1524.50	11961.50	
x	3 1/2 Drill Pipe Joint 13.3#	31.72	1492.78	11993.22	
xx	3 1/2 Drill Pipe Joint 13.3#	31.66	1461.12	12024.88	
80	3 1/2 Drill Pipe Joint 13.3#	31.82	1429.30	12056.70	
x	3 1/2 Drill Pipe Joint 13.3#	31.72	1397.58	12088.42	
xx	3 1/2 Drill Pipe Joint 13.3#	31.18	1366.40	12119.60	
81	3 1/2 Drill Pipe Joint 13.3#	31.90	1334.50	12151.50	
x	3 1/2 Drill Pipe Joint 13.3#	31.89	1302.61	12183.39	
xx	3 1/2 Drill Pipe Joint 13.3#	31.77	1270.84	12215.16	

PACKERS PLUS - PACKER PLACEMENT

82	3 1/2 Drill Pipe Joint 13.3#	31.86	1238.98	12247.02	
x	3 1/2 Drill Pipe Joint 13.3#	32.03	1206.95	12279.05	
xx	3 1/2 Drill Pipe Joint 13.3#	31.75	1175.20	12310.80	
83	3 1/2 Drill Pipe Joint 13.3#	31.80	1143.40	12342.60	
x	3 1/2 Drill Pipe Joint 13.3#	31.91	1111.49	12374.51	
xx	3 1/2 Drill Pipe Joint 13.3#	31.72	1079.77	12406.23	
84	3 1/2 Drill Pipe Joint 13.3#	31.90	1047.87	12438.13	
x	3 1/2 Drill Pipe Joint 13.3#	31.75	1016.12	12469.88	
xx	3 1/2 Drill Pipe Joint 13.3#	31.66	984.46	12501.54	
85	3 1/2 Drill Pipe Joint 13.3#	31.68	952.78	12533.22	
x	3 1/2 Drill Pipe Joint 13.3#	31.58	921.20	12564.80	
xx	3 1/2 Drill Pipe Joint 13.3#	31.77	889.43	12596.57	
86	3 1/2 Drill Pipe Joint 13.3#	31.91	857.52	12628.48	
x	3 1/2 Drill Pipe Joint 13.3#	31.82	825.70	12660.30	
xx	3 1/2 Drill Pipe Joint 13.3#	31.80	793.90	12692.10	
87	3 1/2 Drill Pipe Joint 13.3#	30.28	763.62	12722.38	
x	3 1/2 Drill Pipe Joint 13.3#	31.70	731.92	12754.08	
xx	3 1/2 Drill Pipe Joint 13.3#	31.30	700.62	12785.38	
88	3 1/2 Drill Pipe Joint 13.3#	32.10	668.52	12817.48	
x	3 1/2 Drill Pipe Joint 13.3#	31.80	636.72	12849.28	
xx	3 1/2 Drill Pipe Joint 13.3#	31.81	604.91	12881.09	
89	3 1/2 Drill Pipe Joint 13.3#	31.91	573.00	12913.00	
x	3 1/2 Drill Pipe Joint 13.3#	31.95	541.05	12944.95	
xx	3 1/2 Drill Pipe Joint 13.3#	31.43	509.62	12976.38	
90	3 1/2 Drill Pipe Joint 13.3#	31.60	478.02	13007.98	
x	3 1/2 Drill Pipe Joint 13.3#	32.02	446.00	13040.00	
xx	3 1/2 Drill Pipe Joint 13.3#	31.58	414.42	13071.58	
91	3 1/2 Drill Pipe Joint 13.3#	31.65	382.77	13103.23	
x	3 1/2 Drill Pipe Joint 13.3#	31.92	350.85	13135.15	
xx	3 1/2 Drill Pipe Joint 13.3#	31.98	318.87	13167.13	
92	3 1/2 Drill Pipe Joint 13.3#	31.62	287.25	13198.75	
x	3 1/2 Drill Pipe Joint 13.3#	31.90	255.35	13230.65	
xx	3 1/2 Drill Pipe Joint 13.3#	32.03	223.32	13262.68	
93	3 1/2 Drill Pipe Joint 13.3#	31.78	191.54	13294.46	
x	3 1/2 Drill Pipe Joint 13.3#	31.98	159.56	13326.44	
xx	3 1/2 Drill Pipe Joint 13.3#	31.60	127.96	13358.04	
94	3 1/2 Drill Pipe Joint 13.3#	31.90	96.06	13389.94	
x	3 1/2 Drill Pipe Joint 13.3#	32.06	64.00	13422.00	
xx	3 1/2 Drill Pipe Joint 13.3#	31.85	32.15	13453.85	
95	3 1/2 Drill Pipe Joint 13.3#	31.91	0.24	13485.76	
x	3 1/2 Drill Pipe Joint 13.3#	32.04	-31.80	13517.80	



**Do It Once
Do It Right**

Job Record

Operator:	Mewbourne Oil Company	Base Point:	Midland Tx
Company Rep:	Westley Noseff	Packers Plus Rep:	Mario Hernandez
Well Name:	Red Hills West 8Fed #1H	Date Started:	22-Nov
Ticket Number:	SOU001420	Date Completed:	11/25/2010
County/State:	Lea Co. NM	Type of Job:	20Stg StacFRAC HD
Field	West Jal	Formation	Avalon Shale
Legal Description of Location	S.5-T20S-R29E		

DETAIL THE JOB - THIS FORM USED TO REPORT WHAT ACTUALLY TOOK PLACE - FILL OUT COMPLETELY

General Well Information					Stages				
Well Profile	Open	open	V	H	Number of Stages	20			
	Cased		D	M					
Depth TVD	8932				FT	Distance Between Stages			
Depth MD	13513				FT	Toe to Stage 1	8.99	Stage 15 to Stage 16	151.69
						Stage 1 to Stage 2	203.26	Stage 16 to Stage 17	238.4
						Stage 2 to Stage 3	237.37	Stage 17 to Stage 18	194.71
Lateral Length	4170				FT	Stage 3 to Stage 4	192.53	Stage 18 to Stage 19	239.38
						Stage 4 to Stage 5	198.15	Stage 19 to Stage 20	239.38
KOP	8350				FT	Stage 5 to Stage 6	229.79		
						Stage 6 to Stage 7	188.23		
Hole Size	6.125				IN	Stage 7 to Stage 8	233.17		
						Stage 8 to Stage 9	188.66		
BHP	3994				PS	Stage 9 to Stage 10	194.16		
						Stage 10 to Stage 11	236.84		
BHT					°F	Stage 11 to Stage 12	194.9		
						Stage 12 to Stage 13	198.64		
Reamer run?	yes	Size	5.95			Stage 13 to Stage 14	243.26		
Build Rate	10deg					Stage 14 to Stage 15	198.36		
Max Dog Leg	12.22					Average Stage Length	200.4935		Feet
						Planned Depth Bullet Guide	13486		Feet
Angle of Perma Plus	70deg					Actual Depth Bullet Guide	13486		Feet
						Distance Off	0		Feet

WORK STRING INFORMATION

Casing	Weight	Thread	ID	Capacity	Grade	Shoe	
7"	26#	LTC	6.276	0.03826	P-110	9,343	
Drill Pipe	Weight	Thread	ID	Capacity	Grade	Length	Torque
3 1/2"	13.3#	IF	2.764	0.00742	S-135	7752.68	
Heavy Weight	Weight	Thread	ID	Capacity	Grade	Length	Torque
Drill Collar	Weight	Thread	ID	Capacity	Grade	Length	Torque
3 1/2"	46.8#	IF	2.25	0.0049	S-135	1303.41	
Liner	Weight	Thread	ID	Capacity	Grade	Length	Torque
4 1/2"	11.6#	LTC	4	.0155	P-110	4461.71	
Well Data						Open Hole	
MD	TVD	KOP	Shoe		Lateral	Size	Capacity
13,513	8,932	8,350		9,343	4,170	6 1/8	0.03644

FLUIDS

Mud Weight		Mud Type		Fill Fluid	Fill Weight	LCM?	Viscosity
8.6#		Cut Bryn/Polymer		3% kcl	8.4	0	45
Fluid Level in Annulus		PUMP			Elevator		
Start	full	TYPE	SPM	BPS	Top Drive	Kelly	Weight
Change		Denver PZ-10	72	0.069		x	10k

AS RUN IN HOLE WEIGHTS

Liner		Push Pipe		H.W.D.P.		D.P.	
Air	Mud	Air	Mud	Air	Mud	Air	Mud
51,747	51,587			60,980	60,791	103,101	102,781
Calculated Neutral Weight Including Blocks:		174k	Weight When Released From PermaPlus:		150k		
			Pipe Stretch In Inches Before Releasing:		20inch		
Setting Tool Part Number	108425-000012			Frac Port Part Number	121332-000024,23, 108482-000060-44		
Packer Part Number	102188-000003			Special Part Number			
FTR / NCR	YES			Problem on Job	Could not hold pressure on drill pipe/ backside		

Notes: