

# Final Report



Do It Once  
Do It Right



## Woolsey Petroleum

Mr. Carl Durr

Prepared by  
Chad Williams 405-255-3223  
[chad.williams@packersplus.com](mailto:chad.williams@packersplus.com)

## 16-Stage 4-1/2" StackFRAC® HD

## Miller Gas Unit D-2H

Service Center  
Conway, AR  
Gary Leber  
[501-327-0241](tel:501-327-0241)

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Petroleum

Completion  
FINAL

Prepared for		Company		Date		
Mr. Carl Durr		Woolsey Petroleum		31-Jul-12		
Well Name		Type of Installation		Location		
Miller Gas Unit D-2H		16-Stage 4-1/2" StackFRAC® HD		Barber, KS		
Depth	Drawing	Description		OD (in)	ID (in)	Length
kop 4023'						
<b>Page 2 of 2</b>						
SF HANGER 5094' 200BBLS		7" 23-32 ppf x 3.875" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer (3 shear pins at 482 each; 1,944 psi setting pressure) PN: 108425-000001		5.875"	4.750"	9.45'
		SF Bottom Guide 3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001		5.850"	3.850"	
				4.500"	4.000"	
7" shoe 5707'		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	125.97'
		6-1/8" open hole horizontal				
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"	
5233'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001883		5.75"	3.875"	14.41'
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"	
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 2		4.500"	4.000"	84.38'
Stage 16 5352' 204BBLS		Packers Plus 4-1/2" Drillable FracPORT® with 3.500" Seat for 3.625" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000023 SN:EA1022007		5.630"	3.500"	2.65'
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	122.29'
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"	
5456'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001834		5.75"	3.875"	14.41'
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"	
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 2		4.500"	4.000"	83.64'
Stage 15 5548' 207BBLS		Packers Plus 4-1/2" Drillable FracPORT® with 3.375" Seat for 3.500" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000022 SN:EA1032422		5.630"	3.375"	2.65'
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	126.58'
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"	
5684'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001898		5.75"	3.875"	14.39'
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"	
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 2		4.500"	4.000"	81.95'
Stage 14 5774' 211BBLS		Packers Plus 4-1/2" Drillable FracPORT® with 3.250" Seat for 3.375" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000021 SN:EA1032121		5.630"	3.250"	2.65'
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	124.11'
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"	
5907'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA2023105		5.75"	3.875"	14.39'
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"	
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	122.85'
Stage 13 6038' 215BBLS		Packers Plus 4-1/2" Drillable FracPORT® with 3.125" Seat for 3.250" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000020 SN:EA1029909		5.630"	3.125"	2.65'
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	125.00'
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"	
6172'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA3019235		5.75"	3.875"	14.42'
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"	
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	124.43'
Stage 12 6304' 219BBLS		Packers Plus 4-1/2" Drillable FracPORT® with 3.000" Seat for 3.125" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000019 SN:EA1030962		5.630"	3.000"	2.65'
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	124.94'
Service Center Conway, AR	501-327-0241	Contact Gary Leber	Telephone Chad Williams 405-255-3223			

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Prepared for		Company		Date		
Mr. Carl Durr		Woolsey Petroleum		31-Jul-12		
Well Name		Type of Installation		Location		
Miller Gas Unit D-2H		16-Stage 4-1/2" StackFRAC® HD		Barber, KS		
Depth	Drawing	Description		OD (in)	ID (in)	Length
<b>Page 1 of 2</b>						
6438'	<p>Con't page 1</p>	6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"	
		<b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer</b>		5.75"	3.875"	14.41'
		(6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA3019243				
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"	
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	121.55'
<b>Stage 11</b>		<b>Packers Plus 4-1/2" Drillable FracPORT® with 2.875" Seat for 3.000" High Pressure Ball</b>		5.630"	<b>2.875"</b>	2.65'
6568'		(6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000018 SN:EA1030904			3.875"	
223BBLs		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	121.84'
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"	
		<b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer</b>		5.75"	3.875"	14.39'
		(6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA2018922				
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"	
		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	124.04'
<b>Stage 10</b>		<b>Packers Plus 4-1/2" Drillable FracPORT® with 2.750" Seat for 2.875" High Pressure Ball</b>		5.630"	<b>2.750"</b>	2.65'
6831'		(6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000017 SN:EA1030860			3.875"	
227BBLs		4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	120.26'
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"		
	<b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer</b>		5.75"	3.875"	14.43'	
	(6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001897					
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"		
	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	125.84'	
<b>Stage 9</b>	<b>Packers Plus 4-1/2" Drillable FracPORT® with 2.625" Seat for 2.750" High Pressure Ball</b>		5.630"	<b>2.625"</b>	2.65'	
7094'	(6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000016 SN:EA1031389			3.875"		
231BBLs	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	126.37'	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"		
	<b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer</b>		5.75"	3.875"	14.45'	
	(6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA2023161					
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"		
	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	124.36'	
<b>Stage 8</b>	<b>Packers Plus 4-1/2" Drillable FracPORT® with 2.500" Seat for 2.625" High Pressure Ball</b>		5.630"	<b>2.500"</b>	2.65'	
7362'	(6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000015 SN:EA1024786			3.875"		
235BBLs	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	125.82'	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"		
	<b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer</b>		5.75"	3.875"	14.42'	
	(6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA3019238					
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"		
	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	121.62'	
<b>Stage 7</b>	<b>Packers Plus 4-1/2" Drillable FracPORT® with 2.375" Seat for 2.500" High Pressure Ball</b>		5.630"	<b>2.375"</b>	2.65'	
7626'	(6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000014 SN:EA1030248			3.875"		
239BBLs	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	124.34'	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"		
	<b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer</b>		5.75"	3.875"	14.44'	
	(6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001866					
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"		
	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	121.59'	
<b>Stage 6</b>	<b>Packers Plus 4-1/2" Drillable FracPORT® with 2.250" Seat for 2.375" High Pressure Ball</b>		5.630"	<b>2.250"</b>	2.65'	
7889'	(6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000013 SN:EA1002824			3.875"		
243BBLs	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	124.27'	
	6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743		4.500"	4.000"		
	<b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer</b>		5.75"	3.875"	14.44'	
	(6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001859					
	3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743		4.500"	4.000"		
	4-1/2" 11.60# N-80 LTC LINER JOINTS: 3		4.500"	4.000"	122.22'	
8022'						
Service Center		Contact		Telephone		
Conway, AR 501-327-0241		Gary Leber		Chad Williams 405-255-3223		

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Prepared for		Company	Date		
Mr. Carl Durr		Woolsey Petroleum	31-Jul-12		
Well Name		Type of Installation	Location		
Miller Gas Unit D-2H		16-Stage 4-1/2" StackFRAC® HD	Barber, KS		
Depth	Drawing	Description	OD (in)	ID (in)	Length
Con't page 1			<b>Page 1 of 2</b>		
8153' 247BBLs		<b>Stage 5</b> Packers Plus 4-1/2" Drillable FracPORT® with 2.125" Seat for 2.250" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000012 SN:EA3024267 4-1/2" 11.60# N-80 LTC LINER JOINTS: 3 6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743	5.630"	2.125" 3.875"	2.65'
8284'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA2018924 3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743 4-1/2" 11.60# N-80 LTC LINER JOINTS: 3	4.500"	4.000"	122.86'
8416' 252BBLs		<b>Stage 4</b> Packers Plus 4-1/2" Drillable FracPORT® with 2.000" Seat for 2.125" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000011 SN:EA1021395 4-1/2" 11.60# N-80 LTC LINER JOINTS: 3 6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743	5.630"	2.000" 3.875"	2.65'
8560'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001840 3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743 4-1/2" 11.60# N-80 LTC LINER JOINTS: 3	4.500"	4.000"	122.95'
8704' 256BBLs		<b>Stage 3</b> Packers Plus 4-1/2" Drillable FracPORT® with 1.875" Seat for 2.000" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000010 SN:EA3016428 4-1/2" 11.60# N-80 LTC LINER JOINTS: 3 6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743	5.630"	1.875" 3.875"	2.65'
8849'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA4001874 3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743 4-1/2" 11.60# N-80 LTC LINER JOINTS: 3	4.500"	4.000"	135.78'
8993' 260BBLs		<b>Stage 2</b> Packers Plus 4-1/2" Drillable FracPORT® with 1.750" Seat for 1.875" High Pressure Ball (6 shear pins @ 315 psi each for 1,890 psi opening pressure) PN: 121332-000009 SN:EA1021010 4-1/2" 11.60# N-80 LTC LINER JOINTS: 2 6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743	5.630"	1.750" 3.875"	2.65'
9092'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Hydraulic Set Open Hole Packer (6 pins @ 324 psi each for 1,944 psi setting) PN: 121381-000001 SN:EA2023403 3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743 4-1/2" 11.60# N-80 LTC LINER JOINTS: 1	4.500"	4.000"	90.55'
9152'		Packers Plus 7" x 4-1/2" RockSEAL® IIS 10K Hydraulic Set Anchor Packer (6 shear pins at 324 psi each; 1,944 psi setting pressure) PN: 124306-000001 SN: EM0053906 3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743 4-1/2" 11.60# N-80 LTC LINER JOINTS: 1	5.75"	3.875"	13.84'
9213' 264BBLs		<b>Stage 1</b> Packers Plus 4-1/2" Dual Hydraulic FracPORT® (11 pins at 391 psi each: 4,301 psi Upper) / (7 pins at 630 psi each: 4,410 psi Lower) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106982-000001 w/ Centralizer PN: 104743 4-1/2" 11.60# N-80 LTC LINER JOINTS: 1 6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013	5.630"	3.875"	45.24'
9284' 265BBLs		<b>TOE SUB</b> Packers Plus 4-1/2" Toe Circulating Sub w/ 1.00" Seat for 1.25" High Pressure Ball (3 pins at 366 psi each: 1,098 psi closing pressure) PN: 103039-000011 SN:EA1022307 4-1/2" LTC Single Valve Float Collar PN: 104733-000001 6' x 4-1/2" 11.6# P-110 LTC Pup Joint PN: 106986-000013 w/ Centralizer PN: 104743	5.500"	.75"	16.47'
GS9285' MD9300'		4-1/2" LTC Single Valve Float Collar PN: 104733-000001 4-1/2" LTC Guide Shoe PN: 121704-000001	5.000"	4.000"	45.28'
			5.000"	4.000"	45.26'
			5.000"	4.000"	45.26'
			5.000"	2.250"	18.54'
Service Center		Telephone	Contact	Telephone	
Conway, AR	501-327-0241	Gary Leber	Chad Williams 405-255-3223		

Packers Plus		Do It Once Do It Right		Job Record V1.1.2			
Operator:	Woolsey Petroleum	Base Point:	20600 Conway				
Company Rep:	Mike Tharp	Packers Plus Rep:	Gary Goodman, Brad Kelley				
Well Name:	Miller Gas Unit D-2H	Date Started:	7/25/2012				
Ticket Number:	SOU005160	Date Completed:	7/31/2012				
County/State:	Barber Co, KS	Type of Job:	StackFrac HD				
Field	mayberry north	Formation	mississippi				
Rig Name	Dan D rig 11	Well API #	15-007-23894-01-00				
DETAIL THE JOB - THIS FORM USED TO REPORT WHAT ACTUALLY TOOK PLACE - FILL OUT COMPLETELY							
General Well Information				Stages			
Well Profile	Open Hole Horizontal			Number of Stages	16		
Depth TVD	4,631	Feet	MD to Packer 1	148			
Depth MD	9,300	Feet	Packer 1 to Packer 2	237.56			
Lateral Length	4,093	Feet	Packer 2 to Packer 3	283.47			
KOP	4,023	Feet	Packer 3 to Packer 4	270.62			
Hole Size	6.125	Inch	Packer 4 to Packer 5	256.92			
BHP	2,008	PSI	Packer 5 to Packer 6	257.69			
BHT	95	°F	Packer 6 to Packer 7	257.81			
Reamer run?	yes	Size	Packer 7 to Packer 8	262.01			
			Packer 8 to Packer 9	264.07			
Build Rate	10/100	°/100 FT	Packer 9 to Packer 10	256.11			
			Packer 10 to Packer 11	255.24			
Max Dog Leg	12	°/100 FT	Packer 11 to Packer 12	261.21			
Angle of Perma Plus	69	°	Packer 12 to Packer 13	259.66			
Planned Depth Bullet Guide	9,285	Feet	Packer 13 to Packer 14	217.86			
Actual Depth Bullet Guide	9,285	Feet	Packer 14 to Packer 15	222.03			
Distance Off	0	Feet	Packer 15 to Packer 16	218.57			
				Average Stage Length	247		Feet
WORK STRING INFORMATION							
Casing	Weight	Thread	ID	Capacity	Grade	Shoe	
7	23	LTC	6.366	0.039368521	J55	5207	
				0			
Drill Pipe	Weight	Thread	ID	Capacity	Grade	Length	Torque
4" Full Hole	14	IF	3.34	0.010836992	XH	4193.49	10K
Heavy Weight	Weight	Thread	ID	Capacity	Grade	Length	Torque
4" Full Hole	27.2	IF	3.31	0.01064319	XH	1233	10K
Drill Collar	Weight	Thread	ID	Capacity	Grade	Length	Torque
x	x	x	x	0	x	x	x
Liner	Weight	Thread	ID	Capacity	Grade	Length	Torque
4	11.6	LTC	4	0.015543035	L80	4193.49	2280
Well Data						Open Hole	
MD	TVD	KOP	Shoe	Lateral	Size	Capacity	
9300	4631	4023	9285	4093	6.125	0.03644417	bbl/ft
FLUIDS							
Mud Weight		Mud Type		Fill Fluid	Fill Weight	LCM (if yes-amount- ppg)	Viscosity
8.5		water		fresh water	8.34	0	28
Fluid Level in Annulus Start	full	PUMP TYPE	SPM	BPS	Rig Type	Kelly	Weight
Fluid Level in Annulus Change	full	DH-7000	75	0.079	Kelly	double	10K
AS RUN IN HOLE WEIGHTS							
Liner	Push Pipe	H.W.D.P.		D.P.			
Air	Mud	Air	Mud	Air	Mud	Air	Mud
0	9	0	9	0	9	0	9
Calculated Neutral Weight Including Blocks:		98,578		Weight When Released From PermaPlus:		92,000	
				Pipe Stretch in Inches Before Releasing:		20"	
Setting Tool Part Number	108720-000001			FracPORT Part Number	PN 121332-000020		
Elastomer / Metallurgy / Pinned to				Elastomer / Metallurgy / Pinned to			
Packer Part Number	PN 121381-000001			Other Part Number			
Elastomer / Metallurgy / Pinned to				Elastomer / Metallurgy / Pinned to			
FTR				Problem on Job			
Notes:							

# PACKERS PLUS - PACKER PLACEMENT



**Do It Once  
Do It Right**

Operator:	Woolsey Petroleum	Base Point:	20600 Conway
Company Rep:	Mike Tharp	Packers Plus Rep:	Gary Goodman
Well Name:	Miller Gas Unit D 2H	Date Started:	7/25/2012
Ticket Number:	SOU005160	Date Completed:	8/1/2012
County/State:	Barber Co, KS	Type of Job:	Stac Frac HD

Item	Description	Length	Date TMD		
			Landed @	Accumulated	Proposed
			Actual MD		
			9285.00		
	<b>GS</b>	<b>0.92</b>	9284.08	0.92	
	<b>FC</b>	<b>1.33</b>	9282.75	2.25	
	<b>PUP JOINT</b>	<b>6.13</b>	9276.62	8.38	
	<b>FC</b>	<b>1.33</b>	9275.29	9.71	
	<b>Toe Sub</b>	<b>2.72</b>	9272.57	12.43	
	<b>PUP JOINT</b>	<b>6.11</b>	9266.46	18.54	
1	4.5"11.6ppf N-80LTCLiner	45.26	9221.20	63.80	
	<b>PUP</b>	<b>3.09</b>	9218.11	66.89	
	<b>DHY</b>	<b>4.32</b>	9213.79	71.21	
	<b>PUP</b>	<b>6.09</b>	9207.70	77.30	
2	4.5"11.6ppf N-80LTCLiner	45.28	9162.42	122.58	
	<b>PUP</b>	<b>3.08</b>	9159.34	125.66	
	<b>RSIIS</b>	<b>7.28</b>	9152.06	132.94	
	<b>PUP</b>	<b>6.11</b>	9145.95	139.05	
3	4.5"11.6ppf N-80LTCLiner	45.24	9100.71	184.29	
	<b>PUP</b>	<b>3.09</b>	9097.62	187.38	
	<b>RSII</b>	<b>5.23</b>	9092.39	192.61	
	<b>PUP</b>	<b>5.52</b>	9086.87	198.13	
4	4.5"11.6ppf N-80LTCLiner	45.27	9041.60	243.40	
5	4.5"11.6ppf N-80LTCLiner	45.28	8996.32	288.68	
	<b>1.75 FRAC PORT</b>	<b>2.65</b>	8993.67	291.33	
6	4.5"11.6ppf N-80LTCLiner	45.26	8948.41	336.59	
7	4.5"11.6ppf N-80LTCLiner	45.24	8903.17	381.83	
8	4.5"11.6ppf N-80LTCLiner	45.26	8857.91	427.09	
	<b>PUP</b>	<b>3.08</b>	8854.83	430.17	
	<b>RSII</b>	<b>5.25</b>	8849.58	435.42	
	<b>PUP</b>	<b>6.12</b>	8843.46	441.54	
9	4.5"11.6ppf N-80LTCLiner	45.28	8798.18	486.82	
10	4.5"11.6ppf N-80LTCLiner	45.30	8752.88	532.12	
11	4.5"11.6ppf N-80LTCLiner	45.27	8707.61	577.39	
	<b>1.875 FRAC PORT</b>	<b>2.65</b>	8704.96	580.04	
12	4.5"11.6ppf N-80LTCLiner	45.26	8659.70	625.30	
13	4.5"11.6ppf N-80LTCLiner	45.25	8614.45	670.55	
14	4.5"11.6ppf N-80LTCLiner	45.27	8569.18	715.82	
	<b>PUP</b>	<b>3.07</b>	8566.11	718.89	
	<b>RSII</b>	<b>5.25</b>	8560.86	724.14	

## PACKERS PLUS - PACKER PLACEMENT

	PUP	6.13	8554.73	730.27	
15	4.5"11.6ppf N-80LTCLiner	45.25	8509.48	775.52	
16	4.5"11.6ppf N-80LTCLiner	45.30	8464.18	820.82	
17	4.5"11.6ppf N-80LTCLiner	45.26	8418.92	866.08	
	<b>2.00 FRAC PORT</b>	<b>2.65</b>	<b>8416.27</b>	<b>868.73</b>	
18	4.5"11.6ppf N-80LTCLiner	41.43	8374.84	910.16	
19	4.5"11.6ppf N-80LTCLiner	41.47	8333.37	951.63	
20	4.5"11.6ppf N-80LTCLiner	40.05	8293.32	991.68	
	PUP	3.08	8290.24	994.76	
	<b>RSII</b>	<b>5.25</b>	<b>8284.99</b>	<b>1000.01</b>	
	PUP	6.11	8278.88	1006.12	
21	4.5"11.6ppf N-80LTCLiner	41.43	8237.45	1047.55	
22	4.5"11.6ppf N-80LTCLiner	41.38	8196.07	1088.93	
23	4.5"11.6ppf N-80LTCLiner	40.05	8156.02	1128.98	
	<b>2.125 FRAC PORT</b>	<b>2.65</b>	<b>8153.37</b>	<b>1131.63</b>	
24	4.5"11.6ppf N-80LTCLiner	41.42	8111.95	1173.05	
25	4.5"11.6ppf N-80LTCLiner	41.42	8070.53	1214.47	
26	4.5"11.6ppf N-80LTCLiner	39.38	8031.15	1253.85	
	PUP	3.08	8028.07	1256.93	
	<b>RSII</b>	<b>5.25</b>	<b>8022.82</b>	<b>1262.18</b>	
	PUP	6.11	8016.71	1268.29	
27	4.5"11.6ppf N-80LTCLiner	41.40	7975.31	1309.69	
28	4.5"11.6ppf N-80LTCLiner	41.42	7933.89	1351.11	
29	4.5"11.6ppf N-80LTCLiner	41.45	7892.44	1392.56	
	<b>2.250 FRAC PORT</b>	<b>2.65</b>	<b>7889.79</b>	<b>1395.21</b>	
30	4.5"11.6ppf N-80LTCLiner	40.09	7849.70	1435.30	
31	4.5"11.6ppf N-80LTCLiner	41.41	7808.29	1476.71	
32	4.5"11.6ppf N-80LTCLiner	40.09	7768.20	1516.80	
	PUP	3.07	7765.13	1519.87	
	<b>RSII</b>	<b>5.25</b>	<b>7759.88</b>	<b>1525.12</b>	
	PUP	6.12	7753.76	1531.24	
33	4.5"11.6ppf N-80LTCLiner	41.46	7712.30	1572.70	
34	4.5"11.6ppf N-80LTCLiner	41.45	7670.85	1614.15	
35	4.5"11.6ppf N-80LTCLiner	41.43	7629.42	1655.58	
	<b>2.375 FRAC PORT</b>	<b>2.65</b>	<b>7626.77</b>	<b>1658.23</b>	
36	4.5"11.6ppf N-80LTCLiner	40.09	7586.68	1698.32	
37	4.5"11.6ppf N-80LTCLiner	41.47	7545.21	1739.79	
38	4.5"11.6ppf N-80LTCLiner	40.06	7505.15	1779.85	
	PUP	3.08	7502.07	1782.93	
	<b>RSII</b>	<b>5.24</b>	<b>7496.83</b>	<b>1788.17</b>	
	PUP	6.10	7490.73	1794.27	
39	4.5"11.6ppf N-80LTCLiner	41.41	7449.32	1835.68	
40	4.5"11.6ppf N-80LTCLiner	42.22	7407.10	1877.90	
41	4.5"11.6ppf N-80LTCLiner	42.19	7364.91	1920.09	
	<b>2.500 FRAC PORT</b>	<b>2.65</b>	<b>7362.26</b>	<b>1922.74</b>	
42	4.5"11.6ppf N-80LTCLiner	42.16	7320.10	1964.90	
43	4.5"11.6ppf N-80LTCLiner	40.05	7280.05	2004.95	
44	4.5"11.6ppf N-80LTCLiner	42.15	7237.90	2047.10	

## PACKERS PLUS - PACKER PLACEMENT

	PUP	3.08	7234.82	2050.18	
	RSII	5.25	7229.57	2055.43	
	PUP	6.12	7223.45	2061.55	
45	4.5"11.6ppf N-80LTCLiner	41.45	7182.00	2103.00	
46	4.5"11.6ppf N-80LTCLiner	42.20	7139.80	2145.20	
47	4.5"11.6ppf N-80LTCLiner	42.72	7097.08	2187.92	
	2.625 FRAC PORT	2.65	7094.43	2190.57	
48	4.5"11.6ppf N-80LTCLiner	42.18	7052.25	2232.75	
49	4.5"11.6ppf N-80LTCLiner	41.45	7010.80	2274.20	
50	4.5"11.6ppf N-80LTCLiner	42.21	6968.59	2316.41	
	PUP	3.09	6965.50	2319.50	
	RSII	5.24	6960.26	2324.74	
	PUP	6.10	6954.16	2330.84	
51	4.5"11.6ppf N-80LTCLiner	40.05	6914.11	2370.89	
52	4.5"11.6ppf N-80LTCLiner	38.79	6875.32	2409.68	
53	4.5"11.6ppf N-80LTCLiner	41.42	6833.90	2451.10	
	2.750 FRAC PORT	2.65	6831.25	2453.75	
54	4.5"11.6ppf N-80LTCLiner	41.99	6789.26	2495.74	
55	4.5"11.6ppf N-80LTCLiner	39.86	6749.40	2535.60	
56	4.5"11.6ppf N-80LTCLiner	42.19	6707.21	2577.79	
	PUP	3.06	6704.15	2580.85	
	RSII	5.21	6698.94	2586.06	
	PUP	6.12	6692.82	2592.18	
57	4.5"11.6ppf N-80LTCLiner	40.25	6652.57	2632.43	
58	4.5"11.6ppf N-80LTCLiner	41.49	6611.08	2673.92	
59	4.5"11.6ppf N-80LTCLiner	40.10	6570.98	2714.02	
	2.875 FRAC PORT	2.65	6568.33	2716.67	
60	4.5"11.6ppf N-80LTCLiner	41.44	6526.89	2758.11	
61	4.5"11.6ppf N-80LTCLiner	40.06	6486.83	2798.17	
62	4.5"11.6ppf N-80LTCLiner	40.05	6446.78	2838.22	
	PUP	3.08	6443.70	2841.30	
	RSII	5.23	6438.47	2846.53	
	PUP	6.10	6432.37	2852.63	
63	4.5"11.6ppf N-80LTCLiner	41.51	6390.86	2894.14	
64	4.5"11.6ppf N-80LTCLiner	41.40	6349.46	2935.54	
65	4.5"11.6ppf N-80LTCLiner	42.03	6307.43	2977.57	
	3.00 FRAC PORT	2.65	6304.78	2980.22	
66	4.5"11.6ppf N-80LTCLiner	42.19	6262.59	3022.41	
67	4.5"11.6ppf N-80LTCLiner	42.18	6220.41	3064.59	
68	4.5"11.6ppf N-80LTCLiner	40.06	6180.35	3104.65	
	PUP	3.09	6177.26	3107.74	
	RSII	5.23	6172.03	3112.97	
	PUP	6.10	6165.93	3119.07	
69	4.5"11.6ppf N-80LTCLiner	41.44	6124.49	3160.51	
70	4.5"11.6ppf N-80LTCLiner	41.41	6083.08	3201.92	
71	4.5"11.6ppf N-80LTCLiner	42.15	6040.93	3244.07	
	3.125 FRAC PORT	2.65	6038.28	3246.72	
72	4.5"11.6ppf N-80LTCLiner	40.05	5998.23	3286.77	



## PACKERS PLUS - PACKER PLACEMENT

73	4.5"11.6ppf N-80LTCLiner	41.38	5956.85	3328.15	
74	4.5"11.6ppf N-80LTCLiner	41.42	5915.43	3369.57	
	PUP	3.06	5912.37	3372.63	
	RSII	5.23	5907.14	3377.86	
	PUP	6.10	5901.04	3383.96	
75	4.5"11.6ppf N-80LTCLiner	40.03	5861.01	3423.99	
76	4.5"11.6ppf N-80LTCLiner	42.25	5818.76	3466.24	
77	4.5"11.6ppf N-80LTCLiner	41.83	5776.93	3508.07	
	3.250 FRAC PORT	2.65	5774.28	3510.72	
78	4.5"11.6ppf N-80LTCLiner	39.77	5734.51	3550.49	
79	4.5"11.6ppf N-80LTCLiner	42.18	5692.33	3592.67	
	PUP	3.05	5689.28	3595.72	
	RSII	5.24	5684.04	3600.96	
	PUP	6.10	5677.94	3607.06	
80	4.5"11.6ppf N-80LTCLiner	42.20	5635.74	3649.26	
81	4.5"11.6ppf N-80LTCLiner	42.16	5593.58	3691.42	
82	4.5"11.6ppf N-80LTCLiner	42.22	5551.36	3733.64	
	3.375 FRAC PORT	2.65	5548.71	3736.29	
83	4.5"11.6ppf N-80LTCLiner	42.14	5506.57	3778.43	
84	4.5"11.6ppf N-80LTCLiner	41.50	5465.07	3819.93	
	PUP	3.06	5462.01	3822.99	
	RSII	5.23	5456.78	3828.22	
	PUP	6.12	5450.66	3834.34	
85	4.5"11.6ppf N-80LTCLiner	42.17	5408.49	3876.51	
86	4.5"11.6ppf N-80LTCLiner	40.05	5368.44	3916.56	
87	4.5"11.6ppf N-80LTCLiner	40.07	5328.37	3956.63	
	3.50 FRAC PORT	2.65	5325.72	3959.28	
88	4.5"11.6ppf N-80LTCLiner	42.20	5283.52	4001.48	
89	4.5"11.6ppf N-80LTCLiner	42.18	5241.34	4043.66	
	PUP	3.07	5238.27	4046.73	
	RSII	5.23	5233.04	4051.96	
	PUP	6.11	5226.93	4058.07	
90	4.5"11.6ppf N-80LTCLiner	42.21	5184.72	4100.28	
91	4.5"11.6ppf N-80LTCLiner	41.58	5143.14	4141.86	
92	4.5"11.6ppf N-80LTCLiner	42.18	5100.96	4184.04	
	PUP	3.10	5097.86	4187.14	
	BOTTOM	1.02	5096.84	4188.16	
	SF LINER HANGER	1.84	5095.00	4190.00	
	lower lock adapter	0.67	5094.33	4190.67	
	LOWER SETTING SLEEVE	2.82	5091.51	4193.49	
	UPPER SETTING SLEEVE	4.47	5087.04	4197.96	
	TOP CONN	1.03	5086.01	4198.99	
	HANDLING SUB	7.84	5078.17	4206.83	
1	DRILL PIPE	60.57	5017.60	4267.40	
2		62.05	4955.55	4329.45	
3		62.91	4892.64	4392.36	
4		61.31	4831.33	4453.67	
5		62.59	4768.74	4516.26	

## PACKERS PLUS - PACKER PLACEMENT

6		60.75	4707.99	4577.01	
7		60.70	4647.29	4637.71	
8		62.75	4584.54	4700.46	
9		60.12	4524.42	4760.58	
10		61.59	4462.83	4822.17	
11		62.61	4400.22	4884.78	
12		61.15	4339.07	4945.93	
13		61.12	4277.95	5007.05	
14		62.01	4215.94	5069.06	
15		60.98	4154.96	5130.04	
16		58.25	4096.71	5188.29	
17		60.35	4036.36	5248.64	
18		60.95	3975.41	5309.59	
19		60.37	3915.04	5369.96	
20		62.13	3852.91	5432.09	
21		59.73	3793.18	5491.82	
22		63.39	3729.79	5555.21	
23		62.90	3666.89	5618.11	
24		61.06	3605.83	5679.17	
25	<b>DRILL PIPE</b>	58.46	3547.37	5737.63	
26	<b>HW DP</b>	61.50	3485.87	5799.13	
27		61.65	3424.22	5860.78	
28		60.79	3363.43	5921.57	
29		62.24	3301.19	5983.81	
30		61.81	3239.38	6045.62	
31		61.95	3177.43	6107.57	
32		61.29	3116.14	6168.86	
33		61.20	3054.94	6230.06	
34		61.43	2993.51	6291.49	
35		61.94	2931.57	6353.43	
36		62.05	2869.52	6415.48	
37		61.48	2808.04	6476.96	
38		61.82	2746.22	6538.78	
39		61.07	2685.15	6599.85	
40		61.96	2623.19	6661.81	
41		61.90	2561.29	6723.71	
42		61.93	2499.36	6785.64	
43		61.92	2437.44	6847.56	
44		61.94	2375.50	6909.50	
45	<b>HW DP</b>	61.79	2313.71	6971.29	
46	<b>DP</b>	62.17	2251.54	7033.46	
47		60.63	2190.91	7094.09	
48		60.48	2130.43	7154.57	
49		59.80	2070.63	7214.37	
50		62.80	2007.83	7277.17	
51		63.14	1944.69	7340.31	
52		60.12	1884.57	7400.43	
53		61.32	1823.25	7461.75	

## PACKERS PLUS - PACKER PLACEMENT

54		60.22	1763.03	7521.97	
55		61.58	1701.45	7583.55	
56		60.76	1640.69	7644.31	
57		59.12	1581.57	7703.43	
58		61.11	1520.46	7764.54	
59		61.95	1458.51	7826.49	
60		60.30	1398.21	7886.79	
61		62.72	1335.49	7949.51	
62		62.33	1273.16	8011.84	
63		62.00	1211.16	8073.84	
64		62.41	1148.75	8136.25	
65		60.87	1087.88	8197.12	
66		61.08	1026.80	8258.20	
67		62.82	963.98	8321.02	
68		60.83	903.15	8381.85	
69		62.45	840.70	8444.30	
70		58.59	782.11	8502.89	
71		62.74	719.37	8565.63	
72		60.50	658.87	8626.13	
73		60.39	598.48	8686.52	
74		62.73	535.75	8749.25	
75		61.31	474.44	8810.56	
76		59.92	414.52	8870.48	
77		62.25	352.27	8932.73	
78		59.64	292.63	8992.37	
79		62.94	229.69	9055.31	
80		60.86	168.83	9116.17	
81		60.55	108.28	9176.72	
82		60.24	48.04	9236.96	
83		62.35	-14.31	9299.31	