

KARLSBAD CORRAL 2 STATE #6-H Set 3-1/2" liner in 5-1/2" csg in existing horizontal lateral & fraced in 9 stages

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

OIL OR GAS SANDS OR ZONES

No. 3, from.....to.....

No. 4, from.....to.....

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

From	To	Thickness In Feet	Lithology
			- On File -



Do It Once.
Do It Right.

Confidential Information - Not to be
Released outside of Lime Rock Resources

Completion
Final

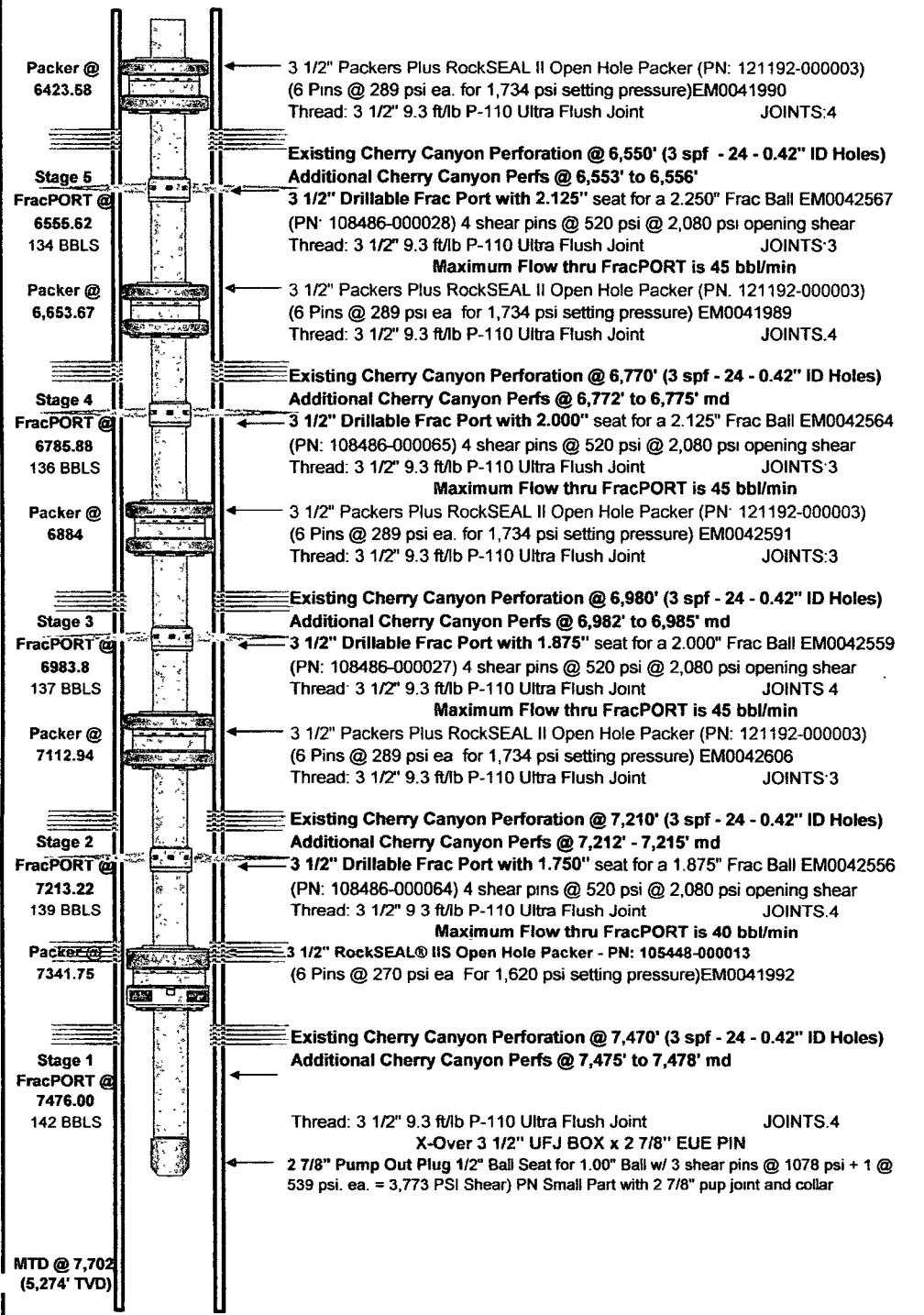
Richard Ghiselin	Company Lime Rock Resources	Date 10-Jun-11		
Karlsbad Corral 2 ST 6H	Type of Installation 5 1/2" x 3 1/2" 9 Stage Cased Hole Completion	Location Eddy, NM		
Drawing	Description	OD(in)	ID(in)	Length
Page 1 of 2				
KOP @ 4,844' MD TOP OF LINER 5246.44 SF HANGER@ 5249.16 Landed Curve @ 5,570' (5,323' TVD) Install: 3 1/2" 9.2# N-80 Ultra Flush Joint: LTC Liner set from 5,244' to 7,233'. containing 9 frac sleeves, 9 isolation packers and 1 liner top packer 5 1/2" x 3.625 x 3.00" Packer Plus Dual Bore LH Packer (PN: 106690-000008) Thread: 3 1/2" 9.3 lb/ft P-110 Ultra Flush Joint EM0039471 2 pins @ 529 psi ea. For 1,058 psi Setting Pressure "Do not allow rotation while running in the hole" Frac Zone: Cherry Canyon Pre Frac: 9,500 gals 15% NEFE Acid Frac: 129,822 gals x-linked gel w/ 200,000# 16/30 White Sand Frac Information: 1000 gal 15% NEFE HCl, Frac w/30K gal of 20# x linked fluid + 52,000# of 16/30 Brady + 12,000# of 16/30 RCS (per stage) 5 1/2" 17 ft/lb P-110 LT&C Casing to 7,648' MD Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:11 Stage 9 FracPORT @ 5604.52 125 BBLS Packer @ 5702.62 Additional Cherry Canyon Perfs @ 5,590' to 5,595' 3 1/2" Drillable Frac Port with 2.625" seat for a 2.750" Frac Ball EM0042577 (PN: 108486-000068) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:3 Maximum Flow thru FracPORT is 50 bbl/min 3 1/2" Packers Plus RockSEAL II Open Hole Packer (PN: 122192-000003) (6 Pins @ 289 psi ea. for 1,734 psi setting pressure) EM0041987 Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:3 Existing Cherry Canyon Perforation @ 5,800' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 5,805' to 5,808' 3 1/2" Drillable Frac Port with 2.500" seat for a 2.625" Frac Ball EM0042574 (PN: 108486-000067) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4 Maximum Flow thru FracPORT is 50 bbl/min 3 1/2" Packers Plus RockSEAL II Open Hole Packer (PN: 121192-000003) (6 Pins @ 289 psi ea. for 1,734 psi setting pressure) EM0041988 Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4 Existing Cherry Canyon Perforation @ 6,070' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 6,072' to 6,075' 3 1/2" Drillable Frac Port with 2.375" seat for a 2.500" Frac Ball EM0042571 (PN: 108486-000029) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:3 Maximum Flow thru FracPORT is 45 bbl/min 3 1/2" Packers Plus RockSEAL II Open Hole Packer (PN: 121192-000003) (6 Pins @ 289 psi ea. for 1,734 psi setting pressure) EM0041986 Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4 Existing Cherry Canyon Perforation @ 6,280' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 6,282' to 6,285' 3 1/2" Drillable Frac Port with 2.250" seat for a 2.375" Frac Ball USDFP1049 (PN: Customer Stock) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4 Maximum Flow thru FracPORT is 45 bbl/min Stage 8 FracPORT @ 5802.98 127 BBLS Packer @ 5932.82 Stage 7 FracPORT @ 6065.2 129 BBLS Packer @ 6163.43 Stage 6 FracPORT @ 6295.01 131 BBLS				
Telephone 432-563-8024		Contact Keith Martin		Telephone 281-414-8654
Telephone 432-563-8024		Contact Russell Robinson		Telephone 281-414-8654



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Completion
Final

Richard Ghiselin	Company	Lime Rock Resources		Date	10-Jun-11	
Karlsbad Corral 2 ST 6H	Type of Installation	5 1/2" x 3 1/2" 9 Stage Cased Hole Completion		Location	Eddy, NM	
Drawing	Description	OD(in)	ID(in)	Length	Page 2 of 2	
						
Packer @ 6423.58	3 1/2" Packers Plus RockSEAL II Open Hole Packer (PN: 121192-000003) (6 Pins @ 289 psi ea. for 1,734 psi setting pressure) EM0041990 Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4	4.500	2.800	4.74		
		3.500	2.800			
		3.500	2.800	127.3		
Stage 5	Existing Cherry Canyon Perforation @ 6,550' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 6,553' to 6,556'					
FracPORT @ 6555.62	3 1/2" Drillable Frac Port with 2.125" seat for a 2.250" Frac Ball EM0042567 (PN: 108486-000028) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:3 Maximum Flow thru FracPORT is 45 bbl/min	4.500	2.125	2.35		
134 BBLS			2.840			
		3.500	2.800	95.7		
Packer @ 6,653.67	3 1/2" Packers Plus RockSEAL II Open Hole Packer (PN: 121192-000003) (6 Pins @ 289 psi ea. for 1,734 psi setting pressure) EM0041989 Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4	4.500	2.800	4.74		
		3.500	2.800			
				127.47		
Stage 4	Existing Cherry Canyon Perforation @ 6,770' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 6,772' to 6,775' md					
FracPORT @ 6785.88	3 1/2" Drillable Frac Port with 2.000" seat for a 2.125" Frac Ball EM0042564 (PN: 108486-000065) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:3 Maximum Flow thru FracPORT is 45 bbl/min	4.500	2.000	2.35		
136 BBLS			2.840			
		3.500	2.800	95.77		
Packer @ 6884	3 1/2" Packers Plus RockSEAL II Open Hole Packer (PN: 121192-000003) (6 Pins @ 289 psi ea. for 1,734 psi setting pressure) EM0042591 Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:3	4.500	2.800	4.74		
		3.500	2.800			
				95.06		
Stage 3	Existing Cherry Canyon Perforation @ 6,980' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 6,982' to 6,985' md					
FracPORT @ 6983.8	3 1/2" Drillable Frac Port with 1.875" seat for a 2.000" Frac Ball EM0042559 (PN: 108486-000027) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4 Maximum Flow thru FracPORT is 45 bbl/min	4.500	1.875	2.35		
137 BBLS			2.840			
		3.500	2.800	126.79		
Packer @ 7112.94	3 1/2" Packers Plus RockSEAL II Open Hole Packer (PN: 121192-000003) (6 Pins @ 289 psi ea. for 1,734 psi setting pressure) EM0042606 Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:3	4.500	2.800	4.74		
		3.500	2.800			
				95.54		
Stage 2	Existing Cherry Canyon Perforation @ 7,210' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 7,212' - 7,215' md					
FracPORT @ 7213.22	3 1/2" Drillable Frac Port with 1.750" seat for a 1.875" Frac Ball EM0042556 (PN: 108486-000064) 4 shear pins @ 520 psi @ 2,080 psi opening shear Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4 Maximum Flow thru FracPORT is 40 bbl/min	4.500	1.750	2.35		
139 BBLS			2.840			
		3.500	2.800	126.18		
Packer @ 7341.75	3 1/2" RockSEAL II Open Hole Packer - PN: 105448-000013 (6 Pins @ 270 psi ea. For 1,620 psi setting pressure) EM0041992	4.500	2.760			
Stage 1	Existing Cherry Canyon Perforation @ 7,470' (3 spf - 24 - 0.42" ID Holes) Additional Cherry Canyon Perfs @ 7,475' to 7,478' md					
FracPORT @ 7476.00	Thread: 3 1/2" 9.3 ft/lb P-110 Ultra Flush Joint JOINTS:4 X-Over 3 1/2" UFJ BOX x 2 7/8" EUE PIN	3.500	2.800	126.73		
142 BBLS	2 7/8" Pump Out Plug 1/2" Ball Seat for 1.00" Ball w/ 3 shear pins @ 1078 psi + 1 @ 539 psi. ea. = 3,773 PSI Shear) PN Small Part with 2 7/8" pup joint and collar	3.650	0.500	1.88'		
MTD @ 7,702 (5,274' TVD)						
Telephone 432-563-8024	Contact Keith Martin	Russell Robinson		Telephone 281-414-8654		