

K-Diamond Federal 21-21  
Fracture Treatment Summary  
Attachment to Form 5A

11/11/2011

Stage Data			Perforation Summary			Treatment Summary		Proppant Summary	
Completion Stage:	Formation	Bench	Perforated Intervals	Perforation Dia. (in)	Number of Perforations	Maximum Injection Rate (bpm)	Fluid Volume (gal)	20/40 Ottawa (lbs)	20/40 SB Excel (lbs)
1	Niobrara	Basal Niobrara	6,550'-65', 6,435'-45', 6,370'-80', 6,320'-30	0.42	90	50.1	64,596	21,500	46,200
2	Niobrara	Wolf Mountain	6,140'-50', 6,040'-55', 6,000'-15'	0.42	120	52.6	77,448	77,500	36,750
3	Niobrara	Tow Creek	5,720'-30', 5,660'-70', 5,595'-605', 5,535-45	0.42	80	54.4	80,262	45,760	85,060
4	Niobrara	Buck Peak	5,385'-95', 5,315'-25', 5,285'-95', 5,200'-10	0.42	120	51.1	83,706	88,000	18,000