

Bret Grandbouche 24-02H
Fracture Treatment Summary
Attachment to Form 5A

1/19/2012

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 Super LC (lbs)
1	Niobrara	Wolf Mnt/Toe Crk	12,400'-01', 12,338'-39', 12,276'-77', 12,214'-15', 12,152'-53' (Fired Add'l 30holes between 12,307'-12,400')	0.42	60	52.7	64,680	21,560
2	Niobrara	Wolf Mnt/Toe Crk	12,050'-51', 1,956'-57', 11,862'-63', 11,768'-74', 11,674'-75'	0.42	54	52.3	133,560	150,000
3	Niobrara	Wolf Mnt/Toe Crk	11,500'-01', 11,450'-51.5', 11,400'-01', 11,390'-91.5', 11,330'-31.5', 11,300'-301', 11,270'-71.5', 11,210'-11.5', 11,200'-01', 11,150'-51.5'	0.42	108	53.3	101,136	102,000
4	Niobrara	Wolf Mnt/Toe Crk	10,910'-11.5', 10,880'-81.5', 10,850'-51.5', 10,820'-01.5', 10,790'-91.5', 10,760'-61.5', 10,730'-31.5', 10,700'-01.5', 10,670'-71.5', 10,640'-41.5', 10,610'-11.5', 10,580'-81.5'	0.42	108	53.3	139,776	93,000
5	Niobrara	Wolf Mnt/Toe Crk	10,370'-71.5', 10,305'-06.5', 10,240'-41.5', 10,175'-76.5', 10,110'-11.5', 10,045'-46.5'	0.42	54	53.2	127,764	150,000
6	Niobrara	Wolf Mnt/Toe Crk	9,920'-21.5', 9,855'-56.5', 9,790'-91.5', 9,725'-26.5', 9,660'-61.5', 9,595'-96.5'	0.42	54	53.3	118,440	170,000
7	Niobrara	Wolf Mnt/Toe Crk	9,305'-06.5', 9,255'-56.5', 9,205'-06.5', 9,155'-56.5', 9,105'-06.5', 9,055'-56.5'	0.42	54	10.6	9,887	0
8	Niobrara	Wolf Mnt/Toe Crk	9,015'-16.5', 8,950'-51.5', 8,885'-86.5', 8,82'-21.5', 8,755'-56.5', 8,690'-91.5'	0.42	54	50.6	49,770	0