

# Frac Wellbore Schematic Report

**Well Name: WELLS RANCH USX BB15-05**

Well Config: VERTICAL - ORIGINAL HOLE, 3/12/2012 12:49:50 PM		<b>Well Header</b>			
ftKB (MD)	Schematic - Actual	API	Business Unit	Spud Date	Well Configuration Type
		05-123-26501	WATTENBERG	3/29/2008	VERTICAL
		Orig KB Elev (ft)	KB - GL / ...	Quarter Quarter	Sec/Abs
		4,689.00	13	SWNW	15
				Twn/Sur...	Range
				5N	63W
		P & A Date			
		Comment			
		Directions To Well			
		WR USX BB15-05: From WCR 67 & 68, East .2 mile, South 2.6 mile to cow camp, Southwest .5 mile, South 1 mile, Southeast .3 mile, SW 0.1 mile, South 1.0 mile, Southwest .1 mile into location.			
		Current PBSD (ftKB)			
		ORIGINAL HOLE - 6800.8			
		<b>Bottom Hole Location</b>			
		North-South Distance (ft)	From N or S Line	East-West Distance (ft)	From E or W Line
		<b>PBTDs</b>			
		Date	Depth (ftKB)	Method	Comment
		4/1/2008	6,852.3	CASING TALLY	FLOAT COLLAR
		4/7/2008	6,813.0	CASED HOLE LOG	DEPTH LOGGER ON CBL
		<b>Wellbore Sections</b>			
		Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
		SURFACE	12 1/4	13.0	487.0
		PRODUCTION	7 7/8	487.0	6,875.0
		<b>Zone Statuses</b>			
		Zone	Status Date	Status	Job
		CODELL	4/26/2008	PR	DRILLING/COMPLETION - ORIGI...
		NIOBRARA	4/26/2008	PR	DRILLING/COMPLETION - ORIGI...
		CODELL	11/4/2011	PR	RE-FRAC, 9/1/2011 12:00
		<b>Casing Strings</b>			
		Casing Description	Run Date	String OD (in)	String Wt (lbs/ft)
		Surface	3/29/2008	8 5/8	24.00
		Production	4/1/2008	4 1/2	11.60
				String Grade	Top (ftKB)
				J-55	13.0
				M-80	6,868.0
		<b>Cement</b>			
		Description	Top (ftKB)	Btm (ftKB)	
		Surface Casing Cement	13.0	477.0	
		Production Casing Cement	1,980.0	6,868.0	
		<b>Tubing Components</b>			
		Item Description	OD (in)	Wt (lbs/ft)	Grade
		Pup Joint	2 3/8	4.70	J-55
		Pup Joint	2 3/8	4.70	J-55
		EUE 8rd Tubing	2 3/8	4.70	J-55
		Seal Nipple	2 3/8	4.70	N-80
		Notched collar	2 3/8	4.70	J-55
				Jts	Len (ft)
				1	10.00
				1	10.00
				213	6,647.82
				1	1.10
				1	0.40
		<b>Perforation Data</b>			
		Zone	Bnch/Stg	Entered Shot Total	Top (ftKB)
		NIOBRARA, ORIGI...	A	64	6,452.0
		NIOBRARA, ORIGI...	B	64	6,521.0
		CODELL, ORIGINA...		48	6,698.0
					Btm (ftKB)
					6,468.0
					6,537.0
					6,710.0
		<b>Stimulations &amp; Treatments</b>			
		Bnch/...	Date	Zone	Primary Job Type
			4/25/2008	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
		Comment			
		Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
		Proppant Ottawa 264536 lb	132846	144816	
		Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
		3,448.0	3,979.0	18.60	18.70
		Bnch/...	Date	Zone	Primary Job Type
			4/25/2008	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
		Comment			
		Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
		Proppant Ottawa 250614 lb	174258	185598	
		Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
		4,783.0	4,900.0	52.40	55.10

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**Stimulations & Treatments**

Brch/...	Date	Zone	Primary Job Type	
	9/23/2011	NIOBRARA, ORIGINAL HOLE	RE-FRAC	
Comment				
CD-REFRAC-Job went well with no issues to report				
Total Add Amount		V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant Ottawa		129797	140525	
235906.878 lb				
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)	
4,911.0	5,898.0	15.90	16.20	

**Other In Hole**

Run Date	Description	OD (in)	Top (ftKB)	Btm (ftKB)

**Logs**

Date	Type	Top (ftKB)	Btm (ftKB)
4/1/2008	Caliper/Comp.Density/Neutron/GR/...	2,580.0	6,875.0
4/1/2008	DIL/GR/SP/Caliper	477.0	6,875.0
4/7/2008	CBL/CCL/GR	1,880.0	6,806.0
4/12/2011	GYRO	10.0	6,600.0

