

**Well Name: WELLS RANCH USX BB01-06**

Well Config: VERTICAL - ORIGINAL HOLE, 3/12/2012 1:51:25 PM

## Well Header

API 05-123-26098	Business Unit WATTENBERG	Spud Date 8/1/2007	Well Configuration Type VERTICAL
Orig KB Elev (ft) 4,724.00	KB - GL / ... 12	Quarter Quarter SEW	Sec/Abs 1
Twn/Sur... 5N	Range 63W	P & A Date	

Comment  
DV TOOL @ +/- 5467'

Directions To Well  
WCR 67 & WCR 68, E 0.2, S 2.6 TO COW CAMP, E 0.4, SE 1.5, S AND SE 0.3 INTO LOCATION.

Current PBTD (ftKB)

ORIGINAL HOLE - 6889.1

## Bottom Hole Location

North-South Distance (ft)	From N or S Line	East-West Distance (ft)	From E or W Line
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## PBTDs

Date	Depth (ftKB)	Method	Comment
8/5/2007	7,218.5	CASING TALLY	FLOAT COLLAR
8/24/2007	7,214.0	CASED HOLE LOG	DEPTH-LOGGER/CBL

## Wellbore Sections

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	12.0	458.0
PRODUCTION	7 7/8	458.0	7,245.0

## Zone Statuses

Zone	Status Date	Status	Job
NIOBRARA	9/9/2007	PR	DRILLING/COMPLETION - ORIGI...
CODELL	9/9/2007	PR	DRILLING/COMPLETION - ORIGI...
CODELL	10/31/2011	PR	RE-FRAC, 9/16/2011 06:00

## Casing Strings

Casing Description	Run Date	String OD (in)	String Wt (lbs/ft)	String Grade	Top (ftKB)	Set Depth (ftKB)
Surface	8/2/2007	8 5/8	24.00	J-55	12.0	440.0
Production	8/5/2007	4 1/2	11.60	M-80	12.0	7,235.0

## Cement

Description	Top (ftKB)	Btm (ftKB)
Surface Casing Cement	12.0	440.0
Production Casing Cement	1,624.0	5,480.0
Production Casing Cement	5,660.0	7,235.0

## Tubing Components

Item Description	OD (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)
Pup Joint	2 3/8	4.70	J-55	1	10.00
EUE 8rd Tubing	2 3/8	4.70	J-55	214	6,598.32
Seal Nipple	2 3/8	4.70	N-80	1	1.10
Notched collar	2 3/8	4.70	J-55	1	0.40

## Perforation Data

Zone	Bnch/Stg	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGI...	A	64	6,374.0	6,390.0	9/6/2007
NIOBRARA, ORIGI...	B	56	6,470.0	6,484.0	9/6/2007
CODELL, ORIGINA...		44	6,638.0	6,649.0	8/24/2007

## Stimulations & Treatments

Bnch/...	Date	Zone	Primary Job Type
	9/6/2007	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

## Comment

Total Add Amount Proppant 250380 lb	V (pumped) (gal) 4218564	V (slurry) (gal)	V (gas) (mcf)
Avg Treat Pressure (psi) 4,457.0	Max Treat Pressure (psi) 4,664.0	Avg Treat Rate (bbl/min) 1.52	Max Treat Rate (bbl/min) 1.53

Bnch/...	Date	Zone	Primary Job Type
	9/6/2007	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

## Comment

Total Add Amount Proppant Ottawa 269960 lb	V (pumped) (gal) 128764	V (slurry) (gal)	V (gas) (mcf)
Avg Treat Pressure (psi) 3,279.0	Max Treat Pressure (psi) 3,967.0	Avg Treat Rate (bbl/min) 0.55	Max Treat Rate (bbl/min) 0.55

## Comment

TD, 7,245, 8/4/2007



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## Stimulations & Treatments

Brch/...	Date	Zone	Primary Job Type
	10/8/2011	CODELL, ORIGINAL HOLE	RE-FRAC
<p>Comment</p> <p>ABORTED</p> <p>(CODELL): BREAK - 2703 PSI @ 0.8 BPM. ISIP 2846, 5 MIN - 2193. AFTER APPROX. 470 BBLs PRESSURE ON ANNULUS BEGAN TO INCREASE. ANNULUS PRESSURE WAS BLED OFF AND ONCE CLOSE IN QUICKLY RETURNED TO ITS PRESSURE OF 1500 PSI. PUMPS WERE BROUGHT OFF LINE AND ANNULUS WAS BLED OFF AGAIN. WHILE NOT PUMPING ONCE THE ANNULUS WAS CLOSED THE PRESSURE CLIMBED AND LEVELED OFF AT 300 PSI. PRESSURE THEN WAS INCREASED TO 2000 PSI ON THE ANNULUS WITH THE BELIEF THE COMMUNICATION MAY HAVE BEEN THROUGH FORMATION. RETURNED TO PUMPING ON THE TUBING AND ONCE TO RATE OF 14 BPM ANNULUS PRESSURE BEGAN TO RISE AGAIN AND PEAKED AT 2500. ANNULAR BOP OF RIG ONLY GOOD TO 3000 PSI. STOPPED PUMPING AGAIN AND BLED OFF ANNULUS DOWN TO 2000 PSI. BEGAN PUMPING ON TUBING AGAIN ONLY PUMPING AT 10 BPM AND PUMPED 0.5 PSA SAND TO ATTEMPT TO DETERMINE COLLAR LEAK OR FORMATION COMMUNICATION. ANNULUS PRESSURE BEGAN TO RISE AGAIN JUST AFTER SAND ENTERED FORMATION. BACKSIDE PRESSURE THEN WAS BROUGHT TO A WORKING PRESSURE OF 2500 AND ATTEMPTED TO PUMP INTO AGAIN SLOWLY AND SAW COMMUNICATION QUICKLY WITH PRESSURES APPROACHING 2800 PSI ON ANNULUS. ABLE TO FLUSH WELL WITH WATER AT 4 BPM AND CALLED JOB BEFORE MORE SAND AND PRESSURE WERE ENTERED INTO WELLBORE. RIG UNABLE TO WORK ON TUBING BECAUSE OF PRESSURE ON ANNULUS AND TUBING.</p>			

Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant Ottawa 1500 lb	35678	35738	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
4,060.0	4,832.0	10.20	15.10

Brch/...	Date	Zone	Primary Job Type
	10/12/2011	CODELL, ORIGINAL HOLE	RE-FRAC
<p>Comment</p> <p>(CODELL RF) ISIP 3104, 5 MIN 2513, SHORT SD DUE TO BLENDER HYDRAULIC TANK OVERFILLED, CONTINUED WITH JOB PER DESIGN. WET SAND CAUSED DROP IN DENSITY ON 4PPG. AVERAGES: PRESSURE 4023, TEMP 70.49, pH 10.5, VISC 25.46. POST ISIP 3171, POST 5 MIN 3145, NOLTE POSITIVE</p>			

Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant Ottawa 219379 lb	133308	139432	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
4,023.0	7,311.0	14.50	14.94

## Other In Hole

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

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)
8/5/2007	COMPENSATED DENSITY	2,650.0	7,223.0
8/5/2007	DIFL/DENS/GR/GRD/CAL	439.0	7,243.0
9/24/2007	CBL/CCL/GR	1,490.0	7,213.0

