

# Frac Wellbore Schematic Report

**Well Name: RYANN STATE C21-27**

Well Config: VERTICAL - ORIGINAL HOLE, 3/12/2012 10:41:54 AM

## Well Header

API	Business Unit		Spud Date		Well Configuration Type	
05-123-25464	WATTENBERG		2/12/2008		VERTICAL	
Orig KB Elev (ft)	KB - GL / ...	Quarter Quarter	Sec/Abs	Twn/Sur...	Range	P & A Date
4,695.00	13	SESE	16	4N	64W	
Comment						

## Directions To Well

From the intersection of WCR 44 & WCR 55, go North 4/10ths, NW through cattleguard 4/10 to tank battery, South 2 1/10, East 2 1/10, South 2/10 and East into.

## Current PBD (ftKB)

ORIGINAL HOLE - 6980.0

## Bottom Hole Location

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

## PBDs

Date	Depth (ftKB)	Method	Comment
2/15/2008	6,980.0	CASING TALLY	FLOAT COLLAR
2/20/2008	6,956.0	CASED HOLE LOG	DEPTH LOGGER ON CBL

## Wellbore Sections

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	13.0	577.0
PRODUCTION	7 7/8	577.0	7,007.0

## Zone Statuses

Zone	Status Date	Status	Job
CODELL	3/22/2008	PR	DRILLING/COMPLETION - ORIGI...
NIOBRARA	12/9/2011	PR	RECOMPLETION, 11/28/2011 14:30

## Casing Strings

Casing Description	Run Date	String OD (in)	String Wt (lbs/ft)	String Grade	Top (ftKB)	Set Depth (ftKB)
SURFACE	2/12/2008	8 5/8	24.00	J-55	13.0	566.7
PRODUCTION	2/15/2008	4 1/2	11.60	M-80	0.0	6,996.3

## Cement

Description	Top (ftKB)	Btm (ftKB)
Surface Casing Cement	13.0	566.7
Production Casing Cement	2,100.0	6,996.3

## Tubing Components

Item Description	OD (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)
Tubing Sub	2 3/8	4.70	J-55	1	10.00
Tubing	2 3/8	4.70	J-55	219	6,811.77
Seating Nipple	2 3/8	4.70	x	1	1.10
Notched collar	2 3/8	0.00	x	1	0.50

## Perforation Data

Zone	Bnch/Stg	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGI...		24	6,586.0	6,598.0	11/30/2011
NIOBRARA, ORIGI...		24	6,662.0	6,674.0	11/30/2011
CODELL, ORIGINA...		52	6,850.0	6,863.0	2/22/2008

## Stimulations & Treatments

Bnch/...	Date	Zone	Primary Job Type
	3/20/2008	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

## Comment

ISSUES DURING FRAC; HAD TO PULL CFP OUT BUT WIRELINE GOT TANGLED, SET PLUG @ 1358'. DID NOT COMPLETE NIO

Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant Ottawa 263609 lb	131670	143724	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
3,908.0	4,243.0	22.20	23.50

Bnch/...	Date	Zone	Primary Job Type
	12/8/2011	NIOBRARA, ORIGINAL HOLE	RECOMPLETION

## Comment

(NIO) CREW WAS SUPPOSE TO GET A FRAC PUMP THAT NEVER SHOWED UP. PUMPED JOB AT 34 BPM AT 3900 PSI. ACID TRANSPORT SHOWED UP AFTER I GOT TO LOCATION. CREW DID NICE JOB. AVG VISC 20 CPS, AVG TEMP 68.9F, AVG PH 10.4, AVG PRESS 4066 PSI, AVG RATE 32.6 BPM.

Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant Ottawa 251541 lb	151872	163506	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
4,066.0	4,506.0	32.60	34.30

**Well Name: RYANN STATE C21-27**

Well Config: VERTICAL - ORIGINAL HOLE, 3/12/2012 10:41:54 AM

## Other In Hole

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

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)
2/14/2008	Caliper/Comp. Density/Neutron/GR/SP/ML	2,600.0	6,985.0
2/14/2008	DIL/GR/SP/Caliper	567.0	7,005.0
2/20/2008	CBL/CCL/GR	1,950.0	6,956.0
3/17/2011	GYRO	10.0	6,720.0

