

**Well Name: DANIELS PM K05-13**

VERTICAL - ORIGINAL HOLE, 10/23/2012 2:05:30 PM

## Well Header

API 05-123-13977	Business Unit WATTENBERG	District 15	Well Config VERTICAL
Original KB Elevation (ft) 4,715.00	KB - GL / MSL (ftKB) 13.00	Spud Date 10/2/1988	P & A Date

## Comment

## Directions To Well

HWY 396 AND WCR 27 1/2, NORTH 2/10, FOLLOW MAIN ROAD AROUND FIELD 1/10 GO OVER CATTLE GAURD AND CONTINUE N, NW 5/10 THEN SOUTH INTO

## Current PBTD (ftKB)

ORIGINAL HOLE - 7,263.0

## Surface Location (Congressional)

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Twnshp N...	Range	Rng E/W Dir
		SW	SW	5	4	N	66	W

## 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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## Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
10/8/1988	7,337.0	CASING TALLY	GUIDE SHOE
10/12/1988	7,271.0	CASED HOLE LOG	DEPTH LOGGER

## Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	12.0	313.0
PRODUCTION	7 7/8	313.0	7,345.0

## Zone Statuses

Zone Name	Status Date	Status	Job
NIOBRARA	1/12/1988	PR	DRILLING/COMPLETION - ORIGINAL, 10/2/1988 00:00
NIOBRARA	8/20/2012	PR	RE-FRAC, 6/27/2012 06:00
CODELL	1/12/1988	PR	DRILLING/COMPLETION - ORIGINAL, 10/2/1988 00:00
CODELL	7/10/1999	PR	RE-FRAC, 6/24/1999 00:00
CODELL	5/1/2006	PR	TRI-FRAC, 2/28/2006 00:00

## Casing Strings

Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)
Surface	10/3/1988	8 5/8	24.00		12.0	313.0
Production	10/7/1988	4 1/2	15.10		12.0	7,337.0

## Cement

Des	Top (ftKB)	Btm (ftKB)
SURFACE CASING CEMENT	12.0	313.0
PRODUCTION CASING CEMENT	6,506.0	7,337.0

## Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)
Tubing	2 3/8	4.70	J-55	230	7,131.22
Pump Seating Nipple	2 3/8	1.10		1	1.20
Notched collar	2 3/8			1	0.40

## Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	3	6,866.0	6,881.0	1/4/1989
NIOBRARA, ORIGINAL HOLE	A	32	6,868.0	6,884.0	6/29/2012
NIOBRARA, ORIGINAL HOLE	C	2	7,030.0	7,049.0	1/4/1989
NIOBRARA, ORIGINAL HOLE	C	32	7,034.0	7,050.0	6/29/2012
CODELL, ORIGINAL HOLE		80	7,156.0	7,176.0	7/1/1999
CODELL, ORIGINAL HOLE		8	7,158.0	7,172.0	1/4/1989

## Stimulations & Treatments

Bnch/Stg	Date	Zone	Primary Job Type
	1/5/1989	NIOBRARA-CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

## Comment

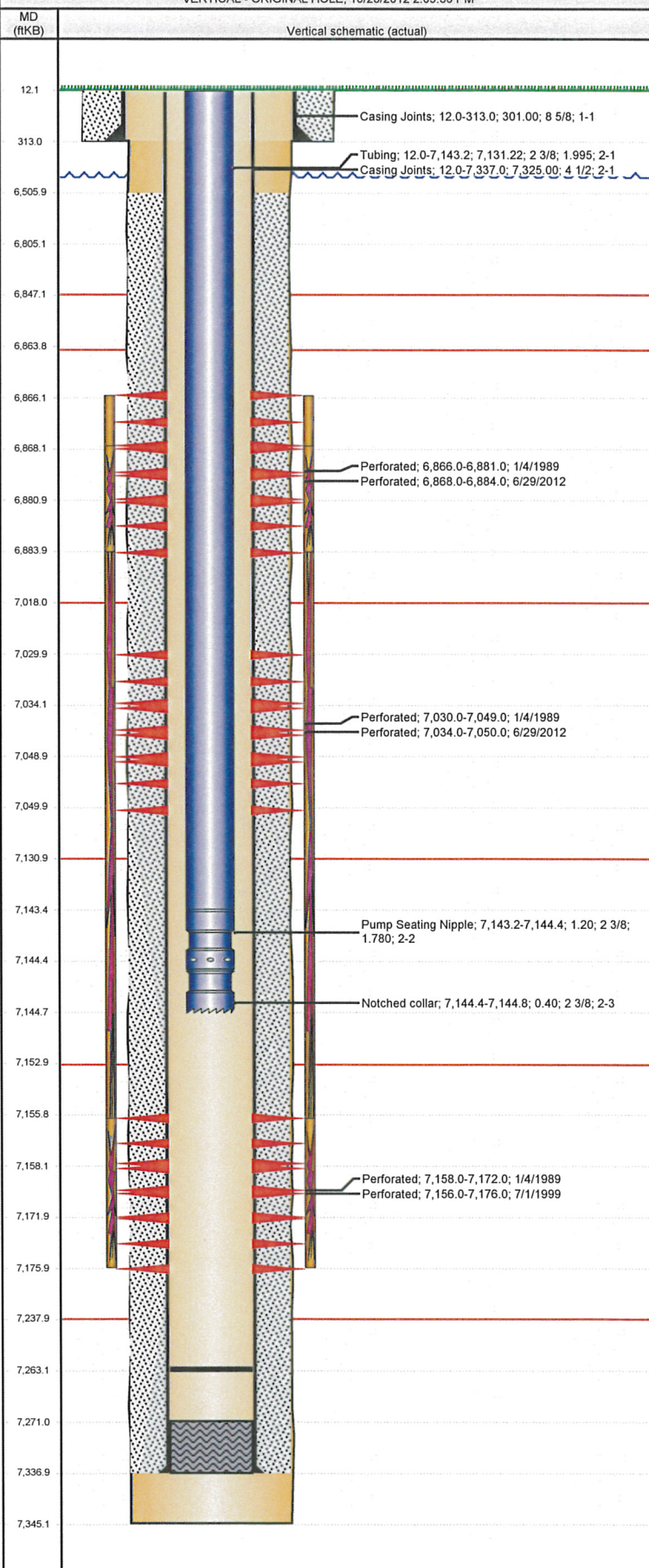
FRAC VIA LIMITED ENTRY

Total Add Amount Proppant 400000 lb	Total Clean Volume...	Vol Slurry Tot (gal) 85003.80	Vol Gas Tot (MCF)
Avg Treat Pressure (psi) 4,000.0	Max Treat Pressure (psi) 5,000.0	Avg Treat Rate (bbl/min) 20.00	Max Treat Rate (bbl/min) 25.00



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## Stimulations & Treatments

Bnch/Stg	Date	Zone	Primary Job Type
	7/6/1999	CODELL, ORIGINAL HOLE	RE-FRAC
Comment			
Total Add Amount		Total Clean Volume...	Vol Slurry Tot (gal)
Proppant Ottawa 245880 lb			133434.01
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
4,450.0	5,622.0	13.80	14.80
Bnch/Stg	Date	Zone	Primary Job Type
	3/27/2006	CODELL, ORIGINAL HOLE	TRI-FRAC
Comment			
Total Add Amount		Total Clean Volume...	Vol Slurry Tot (gal)
		5306028.27	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
		0.34	
Bnch/Stg	Date	Zone	Primary Job Type
	7/31/2012	NIOBRARA, ORIGINAL HOLE	RE-FRAC
Comment			
Total Add Amount		Total Clean Volume...	Vol Slurry Tot (gal)
Proppant Ottawa 242948.7 lb		153263.04	164285.10
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
4,971.0	5,724.0	47.10	50.40

## Other In Hole

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

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)
10/7/1988	COMPENSATED DENSITY	64,123,556.4	7,337.0
10/12/1988	CEMENT BOND	6,412.0	7,271.0