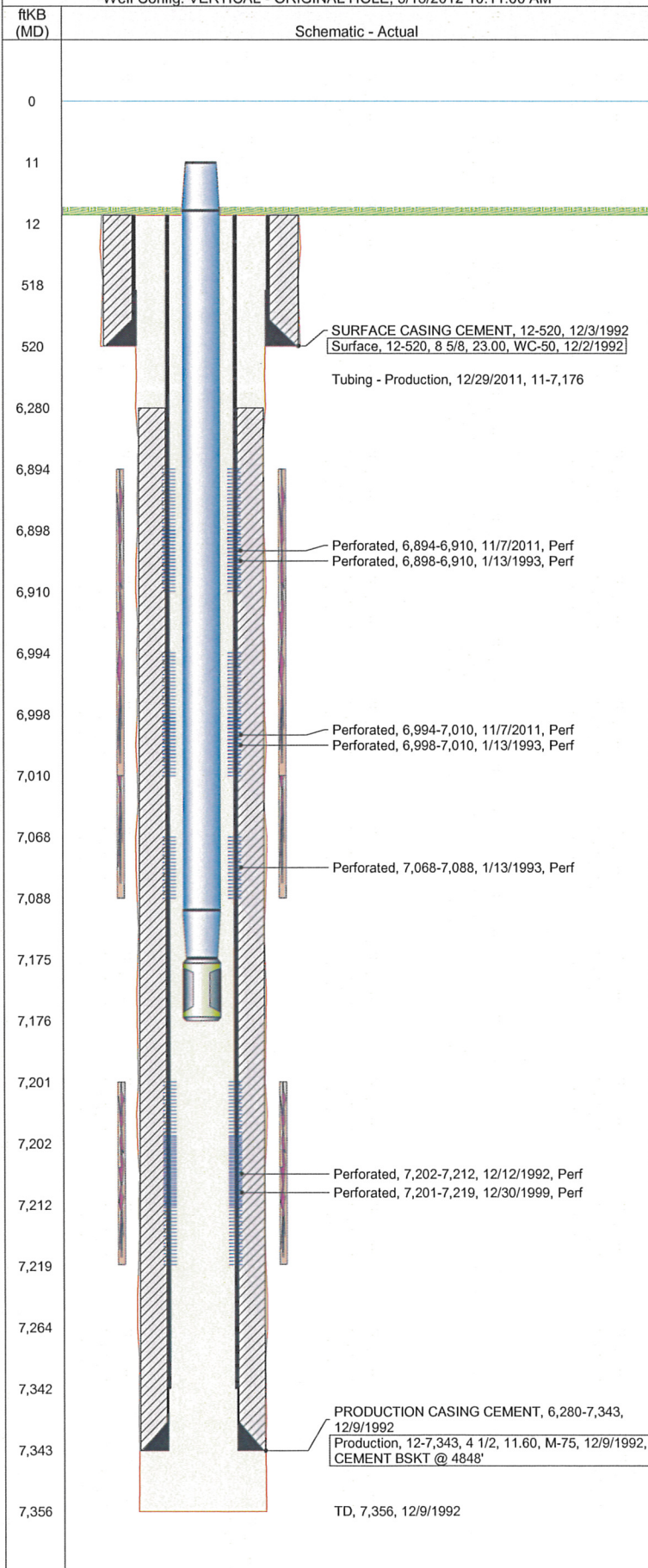


**Well Name: HUNGENBERG 13-12F**

Well Config: VERTICAL - ORIGINAL HOLE, 3/13/2012 10:11:06 AM



## Well Header

API	Business Unit		Spud Date		Well Configuration Type	
05-123-16472	WATTENBERG		12/2/1992		VERTICAL	
Orig KB Elev (ft)	KB - GL / ...	Quarter Quarter	Sec/Abs	Twn/Sur...	Range	P & A Date
4,730.00	12	NWSW	13	4N	66W	
Comment						

Comment

Directions To Well

RD 35 & 44, N 1/10, E 2/10, N 3 /10 INTO.

Current PBD (ftKB)

ORIGINAL HOLE - 7263.9

## 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
12/12/1992	7,262.0	CASED HOLE LOG	DEPTH LOGGER ON CBL
3/15/2006	7,275.0	TAG	C/O & LANDED TBG

## Wellbore Sections

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	12.0	520.0
PRODUCTION	7 7/8	520.0	7,356.0

## Zone Statuses

Zone	Status Date	Status	Job
CODELL	12/29/1992	PR	DRILLING/COMPLETION - ORIGI...
CODELL	1/23/1993	PR	RECOMPLETION, 1/12/1993 00:00
NIOBRARA	1/23/1993	PR	RECOMPLETION, 1/12/1993 00:00
CODELL	1/9/2000	PR	RE-FRAC, 12/23/1999 00:00
CODELL	4/17/2006	PR	TRI-FRAC, 2/13/2006 00:00
CODELL	11/3/2011	SI	RE-FRAC, 11/2/2011 06:00
NIOBRARA	11/26/2011	PR	RE-FRAC, 11/2/2011 06:00

## Casing Strings

Casing Description	Run Date	String OD (in)	String Wt (lbs/ft)	String Grade	Top (ftKB)	Set Depth (ftKB)
Surface	12/2/1992	8 5/8	23.00	WC-...	12.0	520.0
Production	12/9/1992	4 1/2	11.60	M-75	12.0	7,343.0

## Cement

Description	Top (ftKB)	Btm (ftKB)
SURFACE CASING CEMENT	12.0	520.0
PRODUCTION CASING CEMENT	6,280.0	7,343.0

## Tubing Components

Item Description	OD (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)
Tubing	2 3/8	4.70	J-55	231	7,163.81
Notched Seating Nipple	2 3/8			1	1.10

## Perforation Data

Zone	Bnch/Stg	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGI...	A	32	6,894.0	6,910.0	11/7/2011
NIOBRARA, ORIGI...	A	12	6,898.0	6,910.0	1/13/1993
NIOBRARA, ORIGI...	B	32	6,994.0	7,010.0	11/7/2011
NIOBRARA, ORIGI...	B	14	6,998.0	7,010.0	1/13/1993
NIOBRARA, ORIGI...	C	8	7,068.0	7,088.0	1/13/1993
CODELL, ORIGINA...		72	7,201.0	7,219.0	12/30/1999
CODELL, ORIGINA...		20	7,202.0	7,212.0	12/12/1992

## Stimulations & Treatments

Bnch/...	Date	Zone	Primary Job Type
	12/14/1992	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

Comment

Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant 250000 lb		77238	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
5,500.0	6,292.0	11.00	12.00

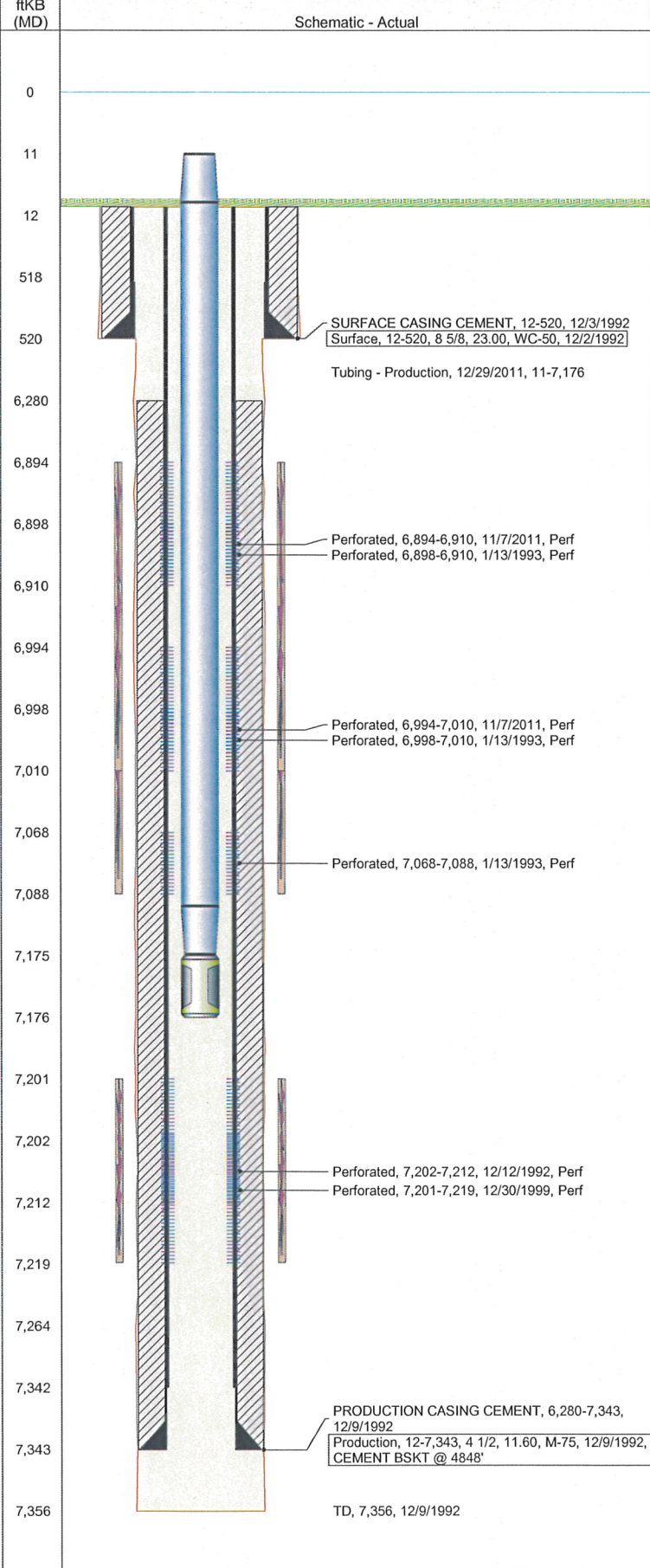
Bnch/...	Date	Zone	Primary Job Type
	1/14/1993	NIOBRARA, ORIGINAL HOLE	RECOMPLETION

Comment

Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant 163000 lb		64672	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
5,150.0	5,500.0	11.80	12.00

**Well Name: HUNGENBERG 13-12F**

Well Config: VERTICAL - ORIGINAL HOLE, 3/13/2012 10:11:06 AM



## Stimulations & Treatments

Bnch/...	Date	Zone	Primary Job Type		
	1/5/2000	CODELL, ORIGINAL HOLE	RE-FRAC		
Comment					
Total Add Amount		V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)	
Proppant Ottawa 245540 lb			133644		
Avg Treat Pressure (psi)		Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)		Max Treat Rate (bbl/min)
4,589.0		5,645.0	13.80		15.20
Bnch/...	Date	Zone	Primary Job Type		
	3/13/2006	CODELL, ORIGINAL HOLE	TRI-FRAC		
Comment					
Total Add Amount		V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)	
		5337864			
Avg Treat Pressure (psi)		Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)		Max Treat Rate (bbl/min)
			0.34		
Bnch/...	Date	Zone	Primary Job Type		
	11/23/2011	NIOBRARA, ORIGINAL HOLE	RE-FRAC		
Comment					
(NIOBRARA):5 MIN SHUT IN PSI IS 3411 JOB WENT WELL.					
Total Add Amount		V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)	
Proppant Ottawa 237685.598 lb		149421	160430		
Avg Treat Pressure (psi)		Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)		Max Treat Rate (bbl/min)
4,527.0		4,965.0	42.60		48.30

## Other In Hole

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

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)
12/9/1992	COMPENSATED DENSITY	4,420.0	7,354.0
12/9/1992	INDUCTION	519.0	7,356.0
12/12/1992	CBL/CCL/GR	6,100.0	7,262.0
2/24/2011	GYRO	10.0	7,100.0