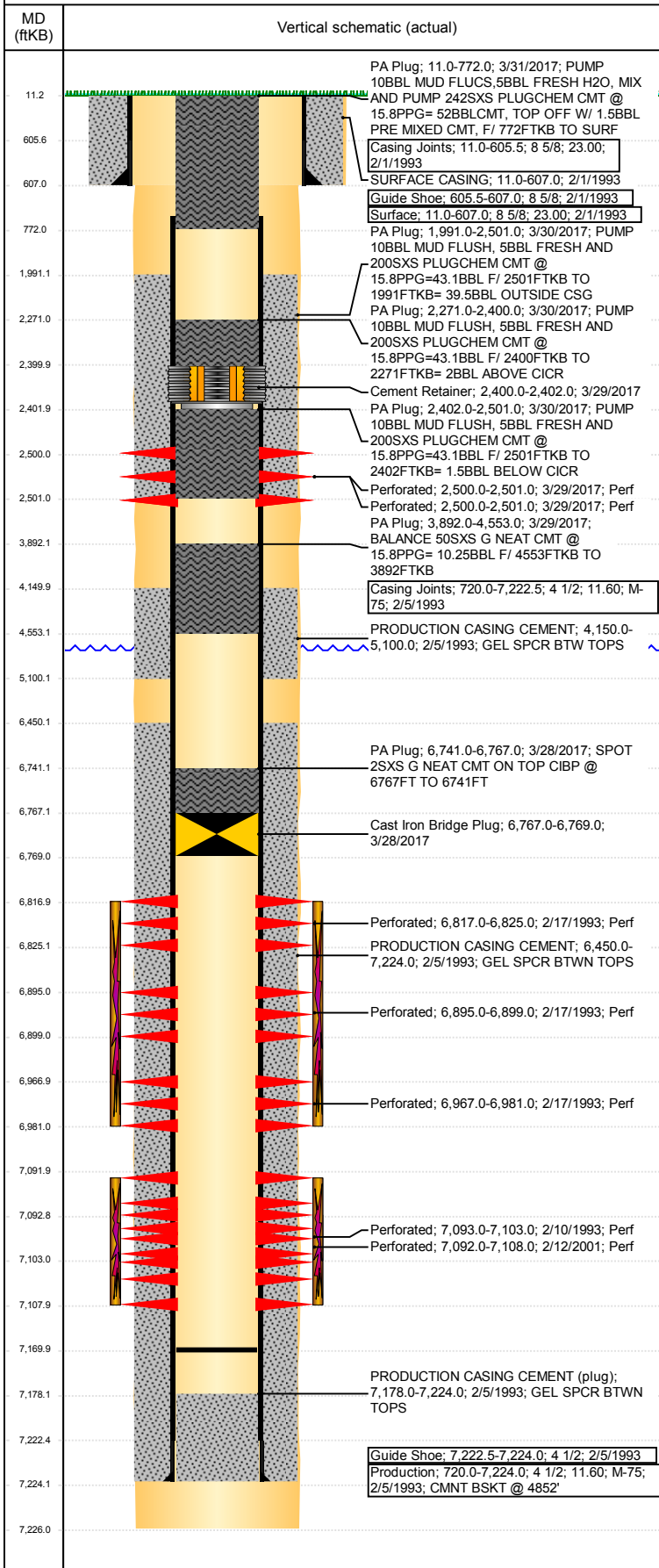


**Well Name: BOCKIUS 34-07G**

VERTICAL - ORIGINAL HOLE, 5/2/2017 4:30:45 PM



## Well Header

API 05-123-16498	Business Unit DJ BASIN	District 15	Well Config VERTICAL
Original KB Elevation (ft) 4,764	KB - GL / MSL (ftKB) 11.00	Spud Date 1/31/1993	P & A Date 3/31/2017

## Comment

CODELL REFRAC 2/2001, FRAC'D INTO 34-2G

## Directions To Well

RDS 40 & 43, EAST 5/10, SOUTH 5/10, EAST ACROOS CATTLE GAURD 1/10, NORTH INTO.

## Congressional Location

Quarter 3 SW	Quarter 4 NE	Section 34	Township 4	Twntshp N/S Dir N	Range 65	Range E/W Dir W
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## 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
2/5/1993	7,178.0	CASED HOLE LOG	DEPTH LOGGER ON CBL
2/22/2001	7,122.0	TAG	LANDED TBG
1/18/2011	7,170.0	TUBING TALLY	62' OF RAT HOLE

## Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	11	607
PRODUCTION	7 7/8	607	7,226

## Zone Statuses

Zone Name	Status Date	Status	Fluid Type	Job	Prod Method
CODELL	2/23/1993	PR	Water	DRILLING - OR...	Flowing
CODELL	2/26/2001	PR		RE-FRAC, 2/7/...	
CODELL	2/2/2010	PR		TRI-FRAC, 1/6/...	
CODELL	2/24/2011	PR		PLUG AND AB...	
CODELL	3/28/2017	P&A	Water	DRILLING - OR...	Flowing
NIOBRARA	2/23/1993	PR			
NIOBRARA	2/2/2010	PR			
NIOBRARA	9/20/2016	PR			
NIOBRARA	3/22/2017	SI			
NIOBRARA	3/28/2017	P&A		PLUG AND AB...	

## Casing Strings

### Surface, 607.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Surface	2/1/1993	8 5/8	23.00		11.0	607.0

### Production, 7,224.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Production	2/5/1993	4 1/2	11.60	M-75	11.0	7,224.0

## Cement

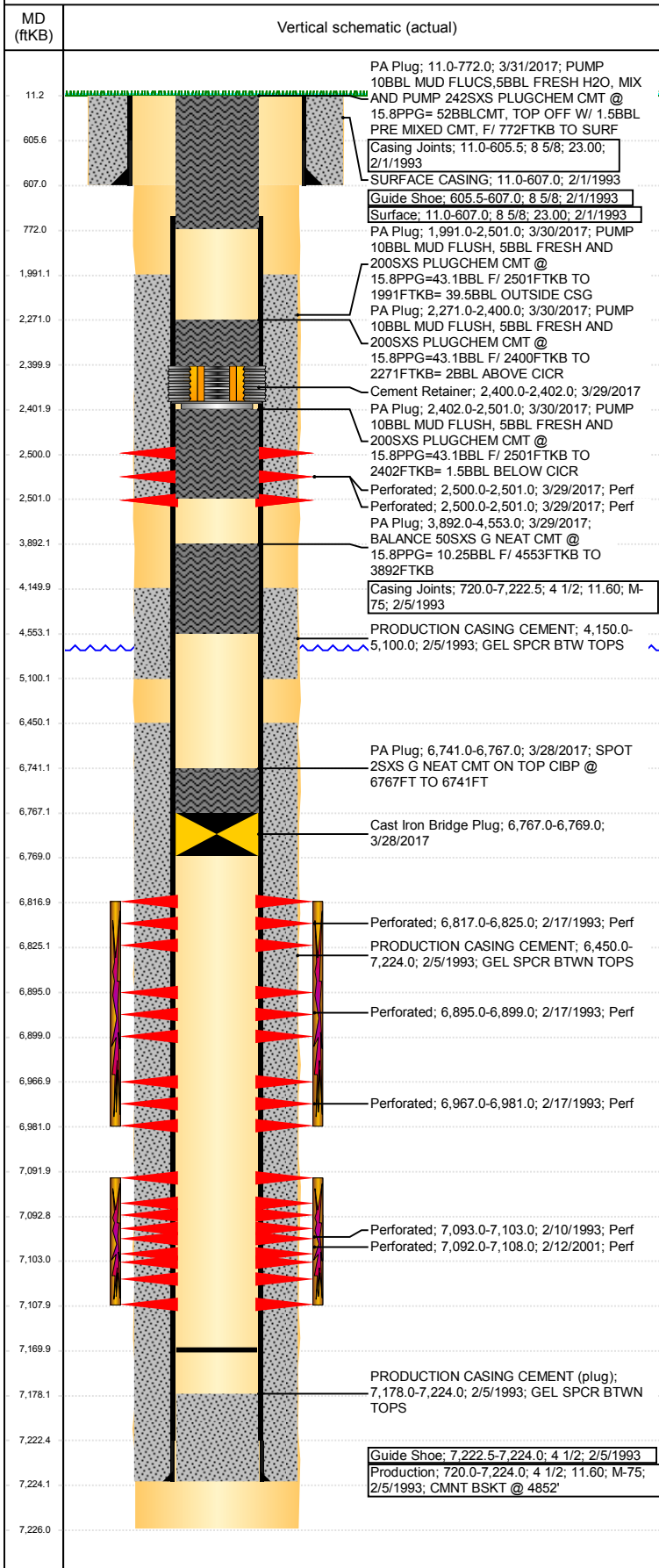
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
SURFACE CASING	11.0	607.0
PRODUCTION CASING CEMENT	4,150.0	5,100.0
PRODUCTION CASING CEMENT	6,450.0	7,224.0
PA Plug	6,741.0	6,767.0
PA Plug	3,892.0	4,553.0
PA Plug	2,271.0	2,400.0
PA Plug	2,402.0	2,501.0
PA Plug	1,991.0	2,501.0
PA Plug	11.0	772.0

## Tubing Strings

Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Production	2/22/2001	2 3/8		4.70		7,049.00	
Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Frac string	1/10/2011	2 7/8	2.44	6.50	N-80	7,030.42	

**Well Name: BOCKIUS 34-07G**

VERTICAL - ORIGINAL HOLE, 5/2/2017 4:30:46 PM



Tubing Strings							
Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Production	1/18/2011	2 3/8	2.00	4.70	J-55	7,069.02	

Other In Hole				
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
3/28/2017	Cast Iron Bridge Plug	3.99	6,767.0	6,769.0
3/29/2017	Cement Retainer	3.99	2,400.0	2,402.0

Logs			
Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
2/4/1993	COMPENSATED DENSI	4,310.0	7,224.0
2/4/1993	INDUCTION	606.0	7,226.0
2/4/1993	SONIC CEMENT	3,950.0	7,173.0
11/2/2010	GYRO	11.0	7,050.0

Perforation Data					
Linked Zone	Bnch/St g	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
CODELL, ORIGINAL HOLE		6	2,500.00	2,501.00	3/29/2017
CODELL, ORIGINAL HOLE		6	2,500.00	2,501.00	3/29/2017
NIOBRARA, ORIGINAL HOLE	A	8	6,817.00	6,825.00	2/17/1993
NIOBRARA, ORIGINAL HOLE	B	10	6,895.00	6,899.00	2/17/1993
NIOBRARA, ORIGINAL HOLE	C	6	6,967.00	6,981.00	2/17/1993
CODELL, ORIGINAL HOLE		64	7,092.00	7,108.00	2/12/2001
CODELL, ORIGINAL HOLE		20	7,093.00	7,103.00	2/10/1993

**Total (Sum)** 120

## Stimulation Intervals

Start Date 2/11/1993	Primary Job Type DRILLING - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note

Comment	
Start Date 2/20/2001	Primary Job Type RE-FRAC

Technical Result	Tech Result Details	Tech Result Note
Comment		

Start Date	Primary Job Type		
1/13/2011	TRI-FRAC		
Technical Result	Tech Result Details		Tech Result Note
Success	According to Plan		

(CODELL TRI-FRAC): ISIP - 3767 PSI. TREATMENT WENT WELL. POST ISIP - 3940 PSI. AVG NOLTE - 0.07. AVG VISC - 25.5 CP. AVG TEMP - 72.7F. AVG PH - 10.25.

Start Date	Primary Job Type	
2/18/1993	DRILLING - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note

SCREENED OUT AT END OF 6PPG STAGE