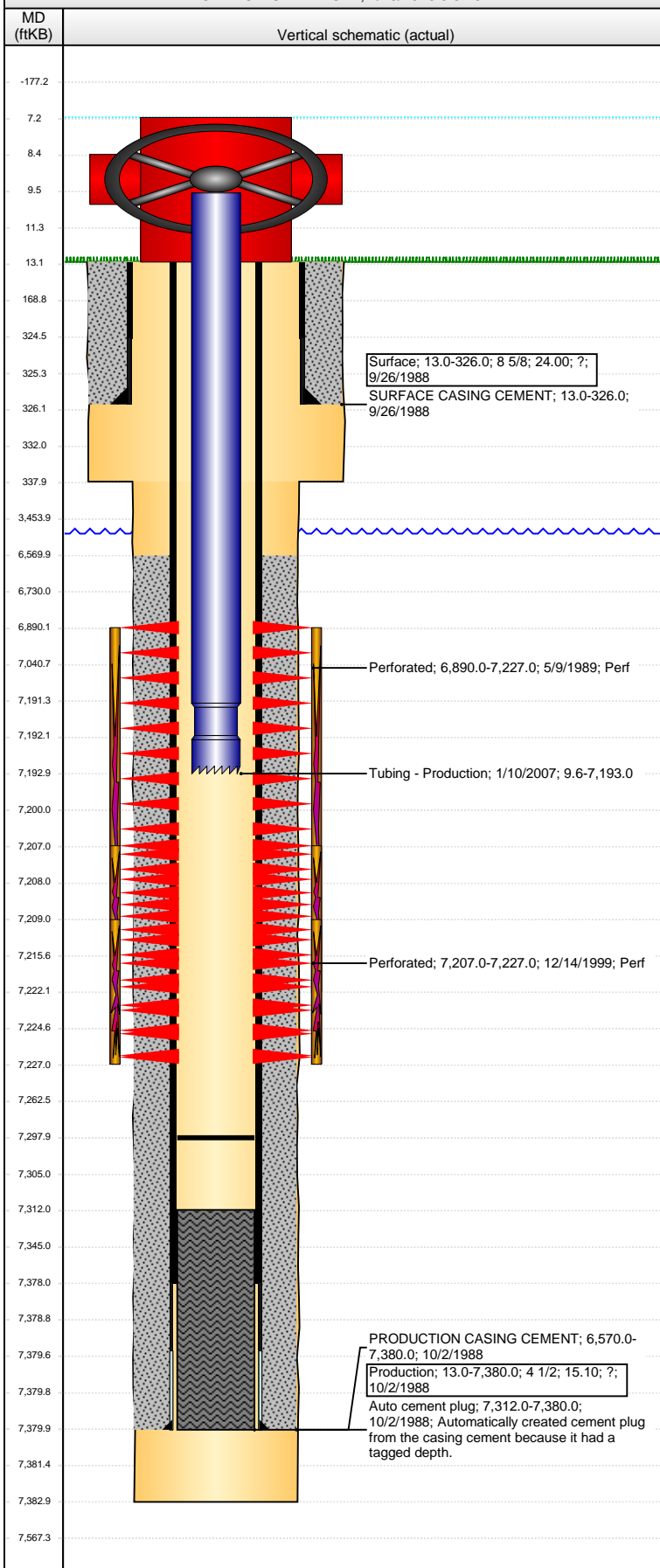


**Well Name: BERNHARDT PMO12-03**

VERTICAL - ORIGINAL HOLE, 1/25/2016 3:57:07 PM



## Well Header

API 05-123-14047	Business Unit DJ BASIN	District 15	Well Config VERTICAL
Original KB Elevation (ft) 4,749.00	KB - GL / MSL (ftKB) 13.00	Spud Date 9/26/1988	P & A Date
Comment			

## Directions To Well

## Congressional Location

Quarter 1	Quarter 2	Quarter 3 NE	Quarter 4 NW	Section 12	Township 4 N	Twnshp N...	Range 67	Rng 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
10/2/1988	7,380.0	FLOAT COLLAR	
11/3/1988	7,312.0	CASED HOLE LOG	
1/10/2007	7,298.0	TAG	

## Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	13.0	338.0
PRODUCTION	7 7/8	338.0	7,383.0

## Zone Statuses

Zone Name	Status Date	Status	Fluid Type	Job	Prod Method
CODELL	6/17/1989	PR		DRILLING/CO...	
CODELL	12/20/1999	PR		RE-FRAC, 12/1...	
CODELL	12/12/2007	PR		TRI-FRAC, 1/8/...	
NIOBRARA	6/17/1989	PR		DRILLING/CO...	

## Casing Strings

### Surface, 326.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Surface	9/26/1988	8 5/8	24.00	?	13.0	326.0

### Production, 7,380.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Production	10/2/1988	4 1/2	15.10	?	13.0	7,380.0

## Cement

Description	Top Depth (ftKB)	Bottom Depth (ftKB)
SURFACE CASING CEMENT	13.0	326.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
PRODUCTION CASING CEMENT	6,570.0	7,380.0

## Tubing Strings

Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De...
Tubing - Production	1/10/2007	2 3/8	1.995	4.70	J-55	7,183.41	

## Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
EUE 8rd Tubing	2 3/8	4.70	J-55	227	7,181.76	7,191.4	
Notched collar	2 3/8			1	1.65	7,193.0	

## Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA-CODELL, ORIGINAL...		19	6,890.00	7,227.00	5/9/1989
NIOBRARA-CODELL, ORIGINAL...		80	7,207.00	7,227.00	12/14/1999

## Stimulations & Treatments

Date	Zone	Primary Job Type
5/9/1989	NIOBRARA-CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result		Tech Result Details
		Tech Result Note

## Comment

Date	Zone	Primary Job Type
12/16/1999	NIOBRARA-CODELL, ORIGINAL HOLE	RE-FRAC
Technical Result		Tech Result Details
		Tech Result Note

## Comment

**Well Name: BERNHARDT PMO12-03**

VERTICAL - ORIGINAL HOLE, 1/25/2016 3:57:09 PM

## Stimulations & Treatments

Date 1/8/2007	Zone NIOBRARA-CODELL, ORIGINAL HOLE	Primary Job Type TRI-FRAC
Technical Result	Tech Result Details	Tech Result Note
Comment		

## Other In Hole

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

## Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
10/1/1988	COMPENSATED DENSITY	3,900.0	7,389.0
10/1/1988	INDUCTION	3,900.0	7,389.0
11/3/1988	CBL/CCL/GR	6,500.0	7,309.0

