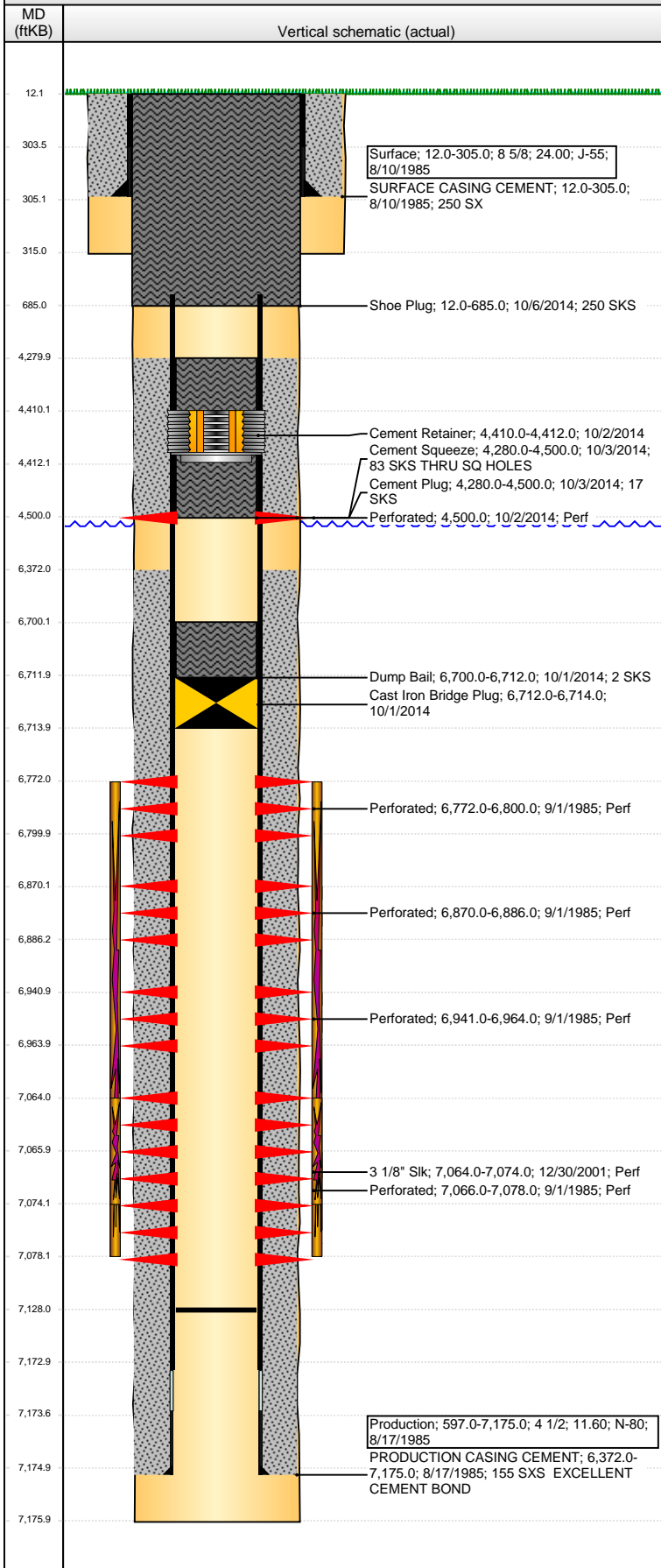


**Well Name: MUIRHEAD 01-02**

VERTICAL - ORIGINAL HOLE, 11/25/2014 12:05:50 PM



## Well Header

API	Business Unit	District	Well Config
05-123-12526	DJ BASIN	15	VERTICAL
Original KB Elevation (ft)	KB - GL / MSL (ftKB)	Spud Date	P & A Date
4,774.00	12.00	8/10/1985	10/2/2014

## Comment

DISCREPANCY: DR RPT TD DATE 8/17/1985; ST RPT TD DATE 8/16/1985

## Directions To Well

## Congressional Location

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Twnshp N...	Range	Rng E/W Dir
	SW	NE	SW	1		4 N	65	W

## Bottom Hole Location

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

## Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
8/29/1985	7,109.0	CASED HOLE LOG	DEPTH LOGGER ON CBL
1/13/2002	7,128.0	TAG	CIRC CLEAN TO LAND TUBING

## Wellbore Sections

Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	12.0	315.0
PRODUCTION	7 7/8	315.0	7,176.0

## Zone Statuses

Zone Name	Status Date	Status	Job
CODELL	9/19/1985	PR	DRILLING/COMPLETION - ORIGINAL, 8/10/1985 00:00
CODELL	1/14/2002	PR	RE-FRAC, 12/28/2001 00:00
CODELL	10/2/2014	P&A	ABANDON WELL, 9/30/2014 06:00
NIOBRARA	9/19/1985	PR	DRILLING/COMPLETION - ORIGINAL, 8/10/1985 00:00
NIOBRARA	10/2/2014	P&A	ABANDON WELL, 9/30/2014 06:00
NIOBRARA-CODELL	10/1/2014	P&A	

## Casing Strings

### Surface, 305.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Surface	8/10/1985	8 5/8	24.00	J-55	12.0	305.0

### Production, 7,175.0ftKB

Casing Description	Run Date	OD (in)	Wt/Len (l...)	Grade	Top, MD (ft...)	MD (ftKB)
Production	8/17/1985	4 1/2	11.60	N-80	12.0	7,175.0

## Cement

Description	Top Depth (ftKB)	Bottom Depth (ftKB)
SURFACE CASING CEMENT	12.0	305.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
PRODUCTION CASING CEMENT	6,372.0	7,175.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Dump Bail	6,700.0	6,712.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Cement Squeeze	4,280.0	4,500.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Cement Plug	4,280.0	4,500.0
Description	Top Depth (ftKB)	Bottom Depth (ftKB)
Shoe Plug	12.0	685.0

## Tubing Components

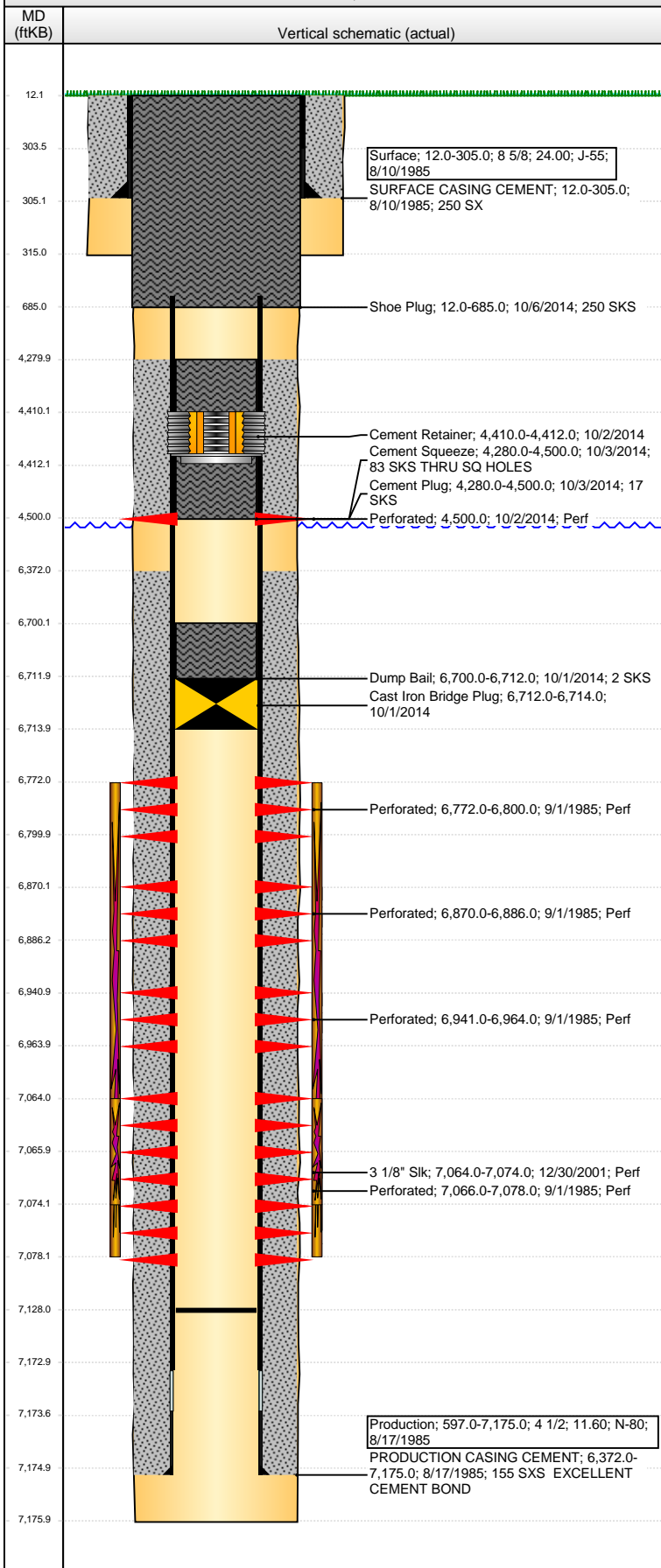
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)

## Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
CODELL, ORIGINAL HOLE		2	4,500.00	4,500.00	10/2/2014
NIOBRARA, ORIGINAL HOLE	A	3	6,772.00	6,800.00	9/1/1985
NIOBRARA, ORIGINAL HOLE	B	4	6,870.00	6,886.00	9/1/1985
NIOBRARA, ORIGINAL HOLE	C	3	6,941.00	6,964.00	9/1/1985
CODELL, ORIGINAL HOLE		40	7,064.00	7,074.00	12/30/2001
CODELL, ORIGINAL HOLE		7	7,066.00	7,078.00	9/1/1985

**Well Name: MUIRHEAD 01-02**

VERTICAL - ORIGINAL HOLE, 11/25/2014 12:05:53 PM



## Stimulations & Treatments

Date	Zone	Primary Job Type
9/4/1985	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result		
Tech Result Details		
Tech Result Note		
Comment		
Date	Zone	Primary Job Type
9/4/1985	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result		
Tech Result Details		
Tech Result Note		
Comment		
Date	Zone	Primary Job Type
9/4/1985	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result		
Tech Result Details		
Tech Result Note		
Comment		
Date	Zone	Primary Job Type
9/6/1985	NIOBRARA-CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result		
Failure		
Tech Result Details		
Screen-Out		
Tech Result Note		
Comment		
LIMITED ENTRY FRAC -- TWO BENCHES OF NIOBRARA APPEARED TO SCREEN OUT		
Date	Zone	Primary Job Type
1/11/2002	CODELL, ORIGINAL HOLE	RE-FRAC
Technical Result		
Tech Result Details		
Tech Result Note		
Comment		

## Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
10/1/2014	Cast Iron Bridge Plug	3.99	6,712.0	6,714.0
10/2/2014	Cement Retainer	3.99	4,410.0	4,412.0

## Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
8/17/1985	COMPENSATED DENSITY	164.0	7,190.0
8/17/1985	INDUCTION	164.0	7,190.0
8/29/1985	CEMENT BOND	6,250.0	7,106.0