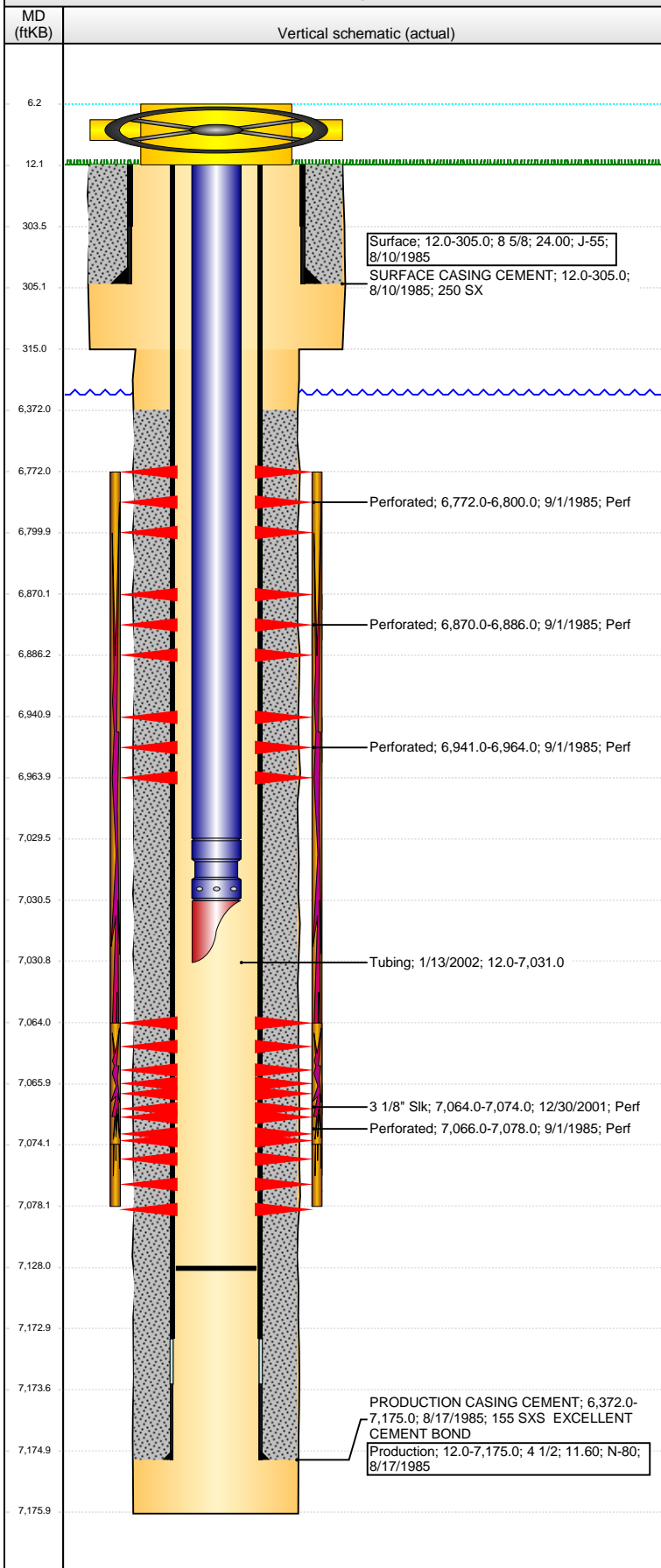


**Well Name: MUIRHEAD 01-02**

VERTICAL - ORIGINAL HOLE, 8/6/2014 12:30:20 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	

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	Twtnshp 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
NIOBRARA	9/19/1985	PR	DRILLING/COMPLETION - ORIGINAL, 8/10/1985 00:00

## 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
PRODUCTION CASING CEMENT	6,372.0	7,175.0

## Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
Tubing	2 3/8			226	7,017.40	7,029.4	
Seal Nipple	2 3/8			1	1.10	7,030.5	
Mule Shoe	2 3/8			1	0.50	7,031.0	

## Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
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

## Stimulations & Treatments

Date	Zone	Primary Job Type
9/4/1985	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note

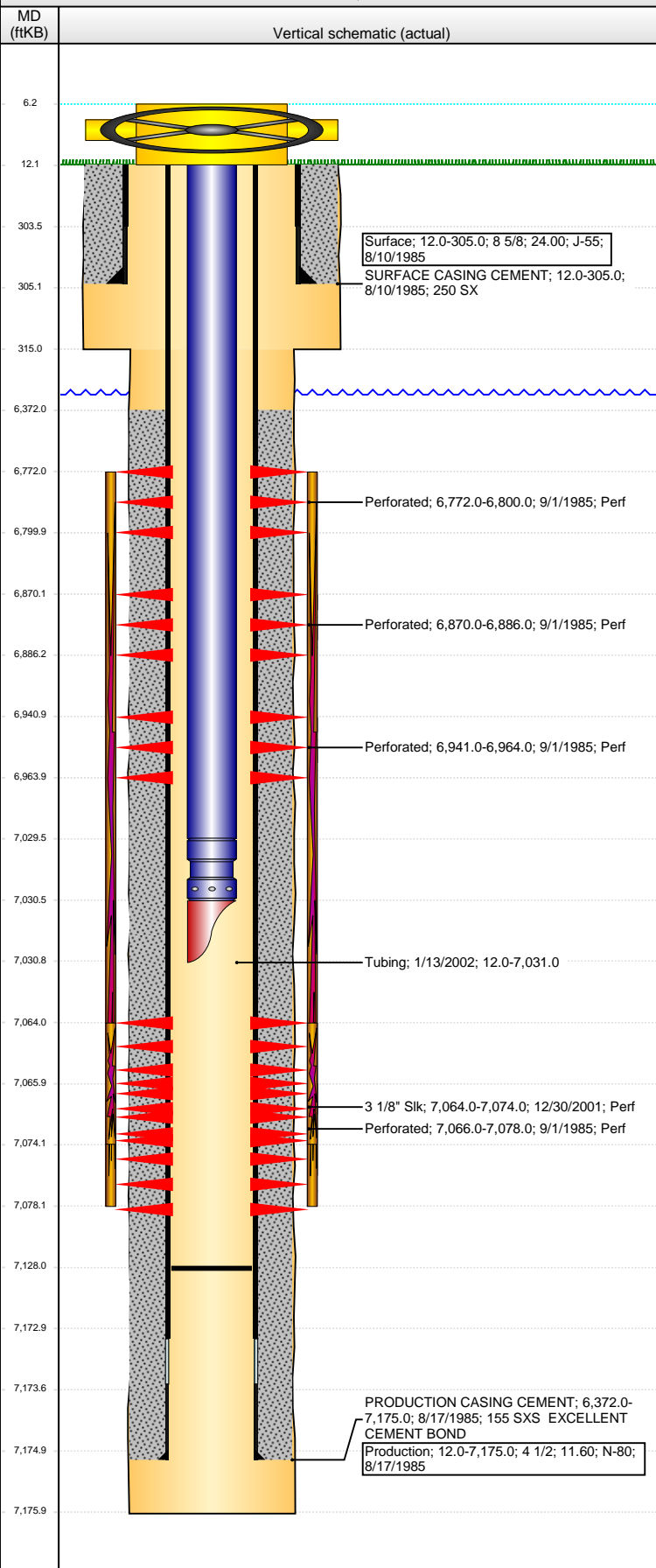
Comment

Date	Zone	Primary Job Type
9/4/1985	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note

Comment

**Well Name: MUIRHEAD 01-02**

VERTICAL - ORIGINAL HOLE, 8/6/2014 12:30:23 PM



## Stimulations & Treatments

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