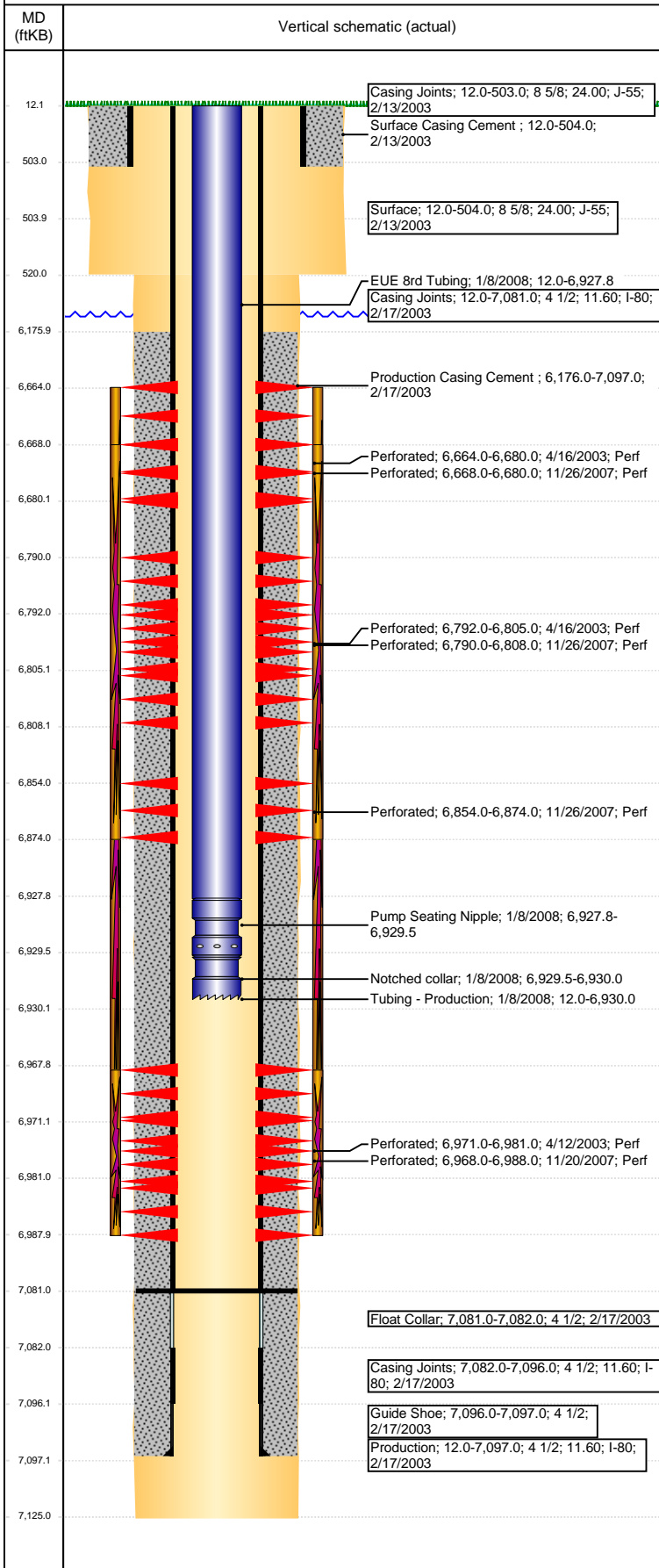


Well Name: LORENZ 16-15

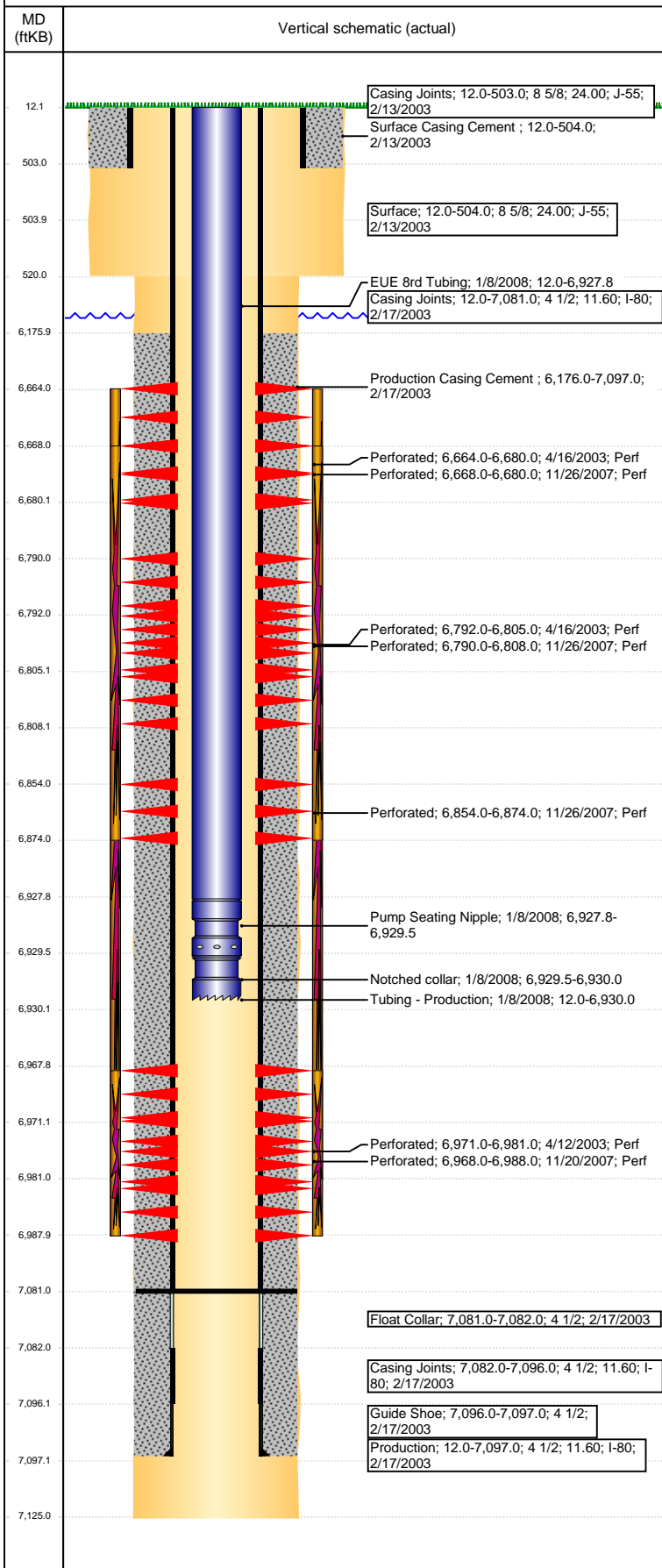
VERTICAL - ORIGINAL HOLE, 2/28/2017 10:36:31 AM



Well Header									
API 05-123-21313		Business Unit DJ BASIN		District 15		Well Config VERTICAL			
Original KB Elevation (ft) 4,629		KB - GL / MSL (ftKB) 12.00		Spud Date 2/12/2003		P & A Date			
Comment WELL DATA SKETCHY - INITIAL AND FIRST PROD DATES ESTIMATED.									
Directions To Well									
Congressional Location									
Quarter 3 SE		Quarter 4 SE		Section 15	Township 5	Twnshp N/S Dir N	Range 65		Range E/W Dir 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				
3/11/2003		7,085.0	CASED HOLE LOG		DEPTH LOGGER FROM CBL				
10/22/2007		7,081.0	TAG		CLEAN OUT & LAND TBG				
1/8/2008		7,081.0	TAG		CLEAN OUT AND LAND TBG				
Wellbore Sections									
Section Des			Size (in)		Act Top, MD (ftKB)		Act Btm, MD (ftKB)		
SURFACE			12 1/4		12		520		
PRODUCTION			7 7/8		520		7,125		
Zone Statuses									
Zone Name		Status Date	Status	Fluid Type	Job	Prod Method			
NIOBRARA		4/21/2007	PR		DRILLING/CO...				
NIOBRARA		12/7/2007	PR		RE-FRAC, 10/2...				
NIOBRARA		1/15/2008	PR		RE-FRAC, 10/2...				
CODELL		4/21/2003	PR		DRILLING/CO...				
CODELL		12/7/2007	PR		RE-FRAC, 10/2...				
CODELL		1/15/2008	PR		RE-FRAC, 10/2...				
Casing Strings									
Surface, 504.0ftKB									
Casing Description Surface		Run Date 2/13/2003	OD (in) 8 5/8	Wt/Len (l... 24.00	Grade J-55	Top, MD (ft... 12.0	MD (ftKB) 504.0		
Production, 7,097.0ftKB									
Casing Description Production		Run Date 2/17/2003	OD (in) 4 1/2	Wt/Len (l... 11.60	Grade I-80	Top, MD (ft... 12.0	MD (ftKB) 7,097.0		
Cement									
Description Surface Casing Cement					Top Depth (ftKB) 12.0		Bottom Depth (ftKB) 504.0		
Description Production Casing Cement					Top Depth (ftKB) 6,176.0		Bottom Depth (ftKB) 7,097.0		
Tubing Strings									
Tubing Description Tubing - Production		Run Date 4/22/2003	String... 2 3/8	ID (in) 2.00	Wt (lb/ft) 4.70	Grade J55	Len (ft) 6,928.01	Set De... 00	
Tubing Description Tubing - Production		Run Date 1/8/2008	String... 2 3/8	ID (in) 2.00	Wt (lb/ft) 4.70	Grade J-55	Len (ft) 6,918.00	Set De... 00	
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	220	6,915.85	6,927.8		
Pump Seating Nipple		2 3/8	1.10		1	1.65	6,929.5		
Notched collar		2 3/8				0.50	6,930.0		
Other In Hole									
Run Date		Des			OD (in)	Top (ftKB)	Btm (ftKB)		
Logs									
Date		Type				Top, MD (ftKB)	Btm, MD (ftKB)		
2/16/2000		COMPENSATED NEUTRON				4,200.0	7,117.0		
2/16/2000		INDUCTION				150.0	7,127.0		
3/11/2003		CEMENT BOND				6,035.0	7,061.0		

Well Name: LORENZ 16-15

VERTICAL - ORIGINAL HOLE, 2/28/2017 10:36:33 AM



Perforation Data					
Linked Zone	Brnch/St g	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	3	6,664.00	6,680.00	4/16/2003
NIOBRARA, ORIGINAL HOLE	A	24	6,668.00	6,680.00	11/26/2007
NIOBRARA, ORIGINAL HOLE	B	36	6,790.00	6,808.00	11/26/2007
NIOBRARA, ORIGINAL HOLE	B	4	6,792.00	6,805.00	4/16/2003
NIOBRARA, ORIGINAL HOLE		40	6,854.00	6,874.00	11/26/2007
CODELL, ORIGINAL HOLE		60	6,968.00	6,988.00	11/20/2007
CODELL, ORIGINAL HOLE		10	6,971.00	6,981.00	4/12/2003
Total (Sum)		177			

Stimulation Intervals		
Start Date 4/21/2003	Primary Job Type DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note
Comment LIMITED ENTRY		
Start Date 11/26/2007	Primary Job Type RE-FRAC	
Technical Result	Tech Result Details	Tech Result Note
Comment		
Start Date 11/26/2007	Primary Job Type RE-FRAC	
Technical Result	Tech Result Details	Tech Result Note
Comment		