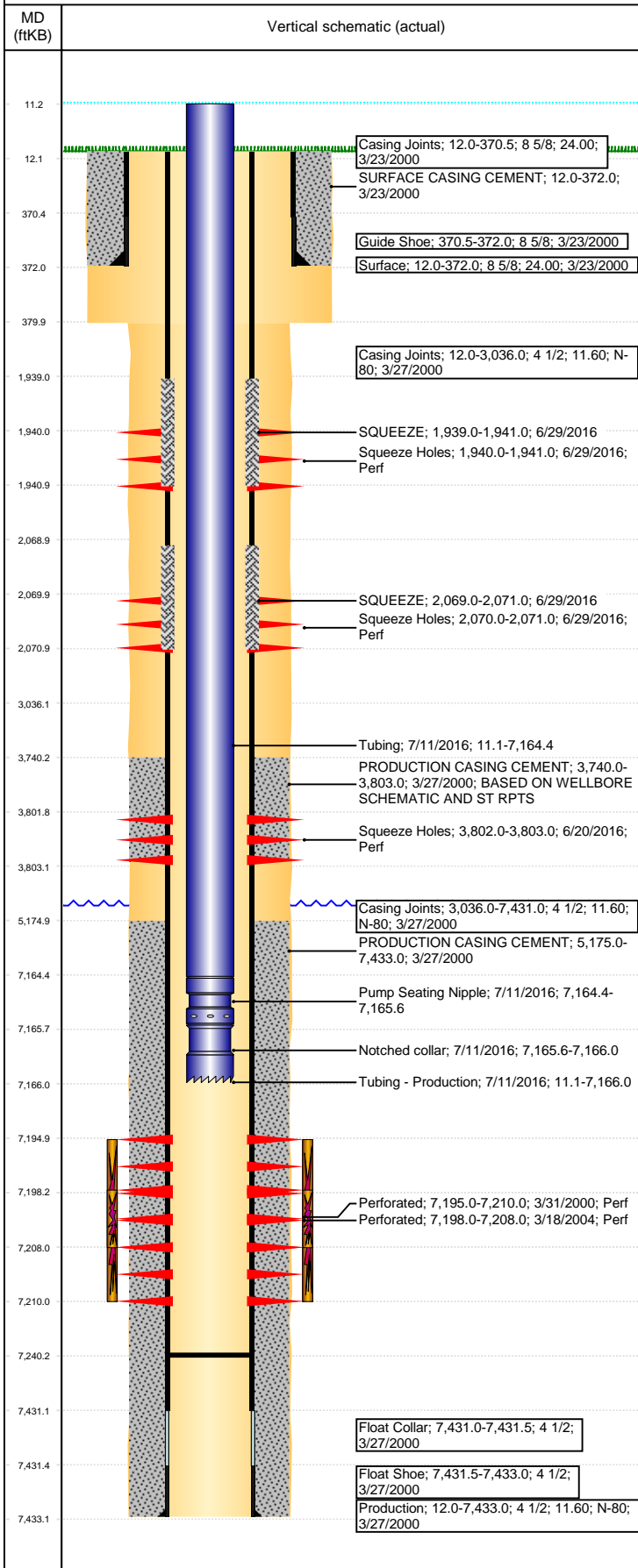


Frac Wellbore Schematic Report

Well Name: EHRLICH 13-22

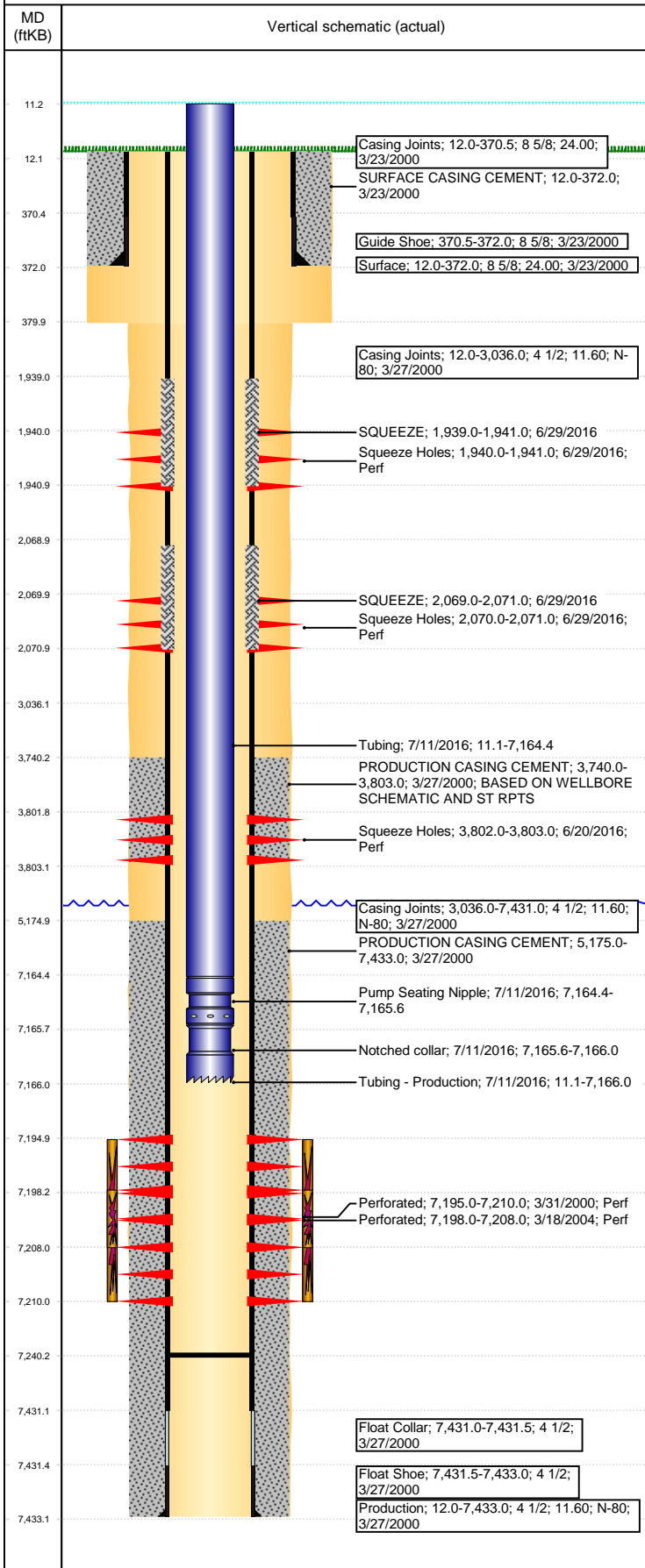
VERTICAL - ORIGINAL HOLE, 12/19/2016 1:03:59 PM



Well Header						
API 05-123-19846	Business Unit DJ BASIN	District 15	Well Config VERTICAL			
Original KB Elevation (ft) 4,775	KB - GL / MSL (ftKB) 12.00	Spud Date 3/23/2000		P & A Date		
Comment DISCREPANCY: DRL RPT & ST CMP HAS TD @ 7432' BUT PROD CSG SET AT 7433'						
Directions To Well HWY 60 AND CR 46 WEST 1.5 SOUTH 50' WEST ALONG FIELD .4 SOUTH .1 INTO						
Current PBDT (mKB) ORIGINAL HOLE - 7,240.0						
Surface Location (Congressional)						
Quarter 3 NW	Quarter 4 NW	Section 13	Township 4	Twnshp N/S Dir N	Range 67	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		
3/27/2000	7,405.0	CASING TALLY		PBDT ON CASING TALLY		
3/30/2000	7,394.0	CASED HOLE LOG		DEPTH LOGGER ON CBL		
3/31/2004	7,270.0	TAG		CLEAN OUT TO LAND TUBING		
1/15/2016	7,240.0			NO TAG		
Wellbore Sections						
Section Des		Size (in)		Act Top, MD (ftKB)		Act Btm, MD (ftKB)
SURFACE		12 1/4		12		380
PRODUCTION		7 7/8		380		7,433
Zone Statuses						
Zone Name	Status Date	Status	Fluid Type	Job		Prod Method
CODELL	4/11/2000	PR		DRILLING/COMPLETION - ORIGINAL, 3/23/2000...		
CODELL	3/31/2004	PR		RE-FRAC, 3/17/2004 00:00		
Casing Strings						
Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top, MD (ftKB)	MD (ftKB)
Surface	3/23/2000	8 5/8	24.00		12.0	372.0
Production	3/27/2000	4 1/2	11.60	N-80	12.0	7,433.0
Cement						
Des				Top (ftKB)		Btm (ftKB)
SURFACE CASING CEMENT				12.0		372.0
PRODUCTION CASING CEMENT				3,740.0		3,803.0
PRODUCTION CASING CEMENT				5,175.0		7,433.0
SQUEEZE				1,939.0		1,941.0
SQUEEZE				2,069.0		2,071.0
Tubing Components						
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	
Tubing	2 3/8	4.70	J-55	223	7,153.34	
Pump Seating Nipple	2 3/8	1.10	N-80	1	1.20	
Notched collar	2 3/8		J-55	1	0.40	
Perforation Data						
Linked Zone	Bnch/Stg	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date	
CODELL, ORIGINAL HOLE		2	1,940.00	1,941.00	6/29/2016	
CODELL, ORIGINAL HOLE		4	2,070.00	2,071.00	6/29/2016	
CODELL, ORIGINAL HOLE		4	3,802.00	3,803.00	6/20/2016	
CODELL, ORIGINAL HOLE		60	7,195.00	7,210.00	3/31/2000	
CODELL, ORIGINAL HOLE		40	7,198.00	7,208.00	3/18/2004	
Other In Hole						
Run Date	Des			OD (in)	Top (ftKB)	Btm (ftKB)
Logs						
Date	Type			Top, MD (ftKB)	Btm, MD (ftKB)	
3/26/2000	COMPENSATED DENSITY			4,100.0	7,420.0	
3/26/2000	INDUCTION			372.0	7,437.0	
3/30/2000	CEMENT BOND			6,008.0	7,389.0	
6/17/2016	CBL/CCL/GR			0.0	7,104.0	
6/28/2016	CBL/CCL/GR			3,803.0	7,432.0	

Well Name: EHRlich 13-22

VERTICAL - ORIGINAL HOLE, 12/19/2016 1:04:01 PM



Stimulation Intervals				
Bnch/Stg	Start Date	Primary Job Type		
	4/6/2000	DRILLING/COMPLETION - ORIGINAL		
Comment				
Volume Slurry Total (gal)				
133,392.00				
Treat Pressure Avg (psi)	Treat Pressure Max (psi)	Slurry Rate Avg (bbl/min)	Slurry Rate Max (bbl/min)	
3,222.0	3,757.0	14.5		
Bnch/Stg	Start Date	Primary Job Type		
	3/30/2004	RE-FRAC		
Comment				
Volume Slurry Total (gal)				
123,186.00				
Treat Pressure Avg (psi)	Treat Pressure Max (psi)	Slurry Rate Avg (bbl/min)	Slurry Rate Max (bbl/min)	
3,431.0	4,082.0	14.2		