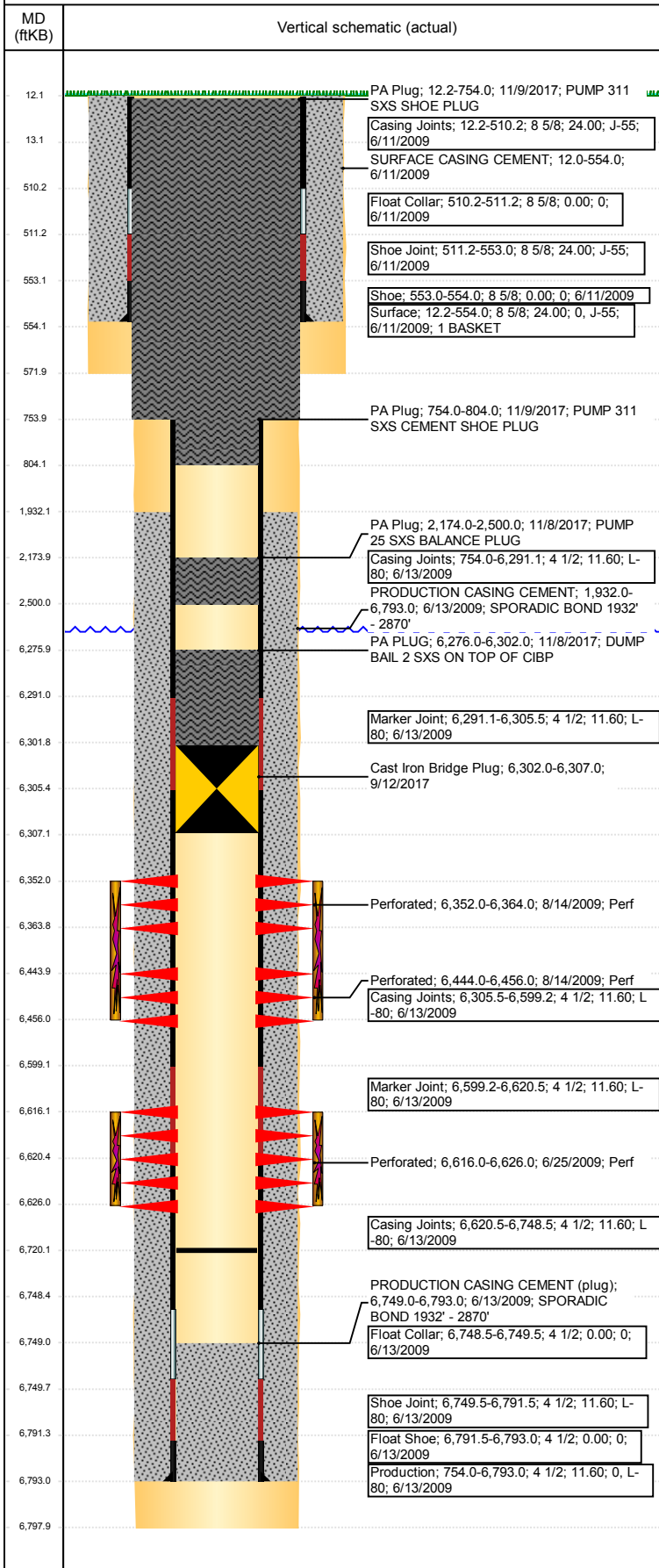


Well Name: WELLS RANCH BB12-04

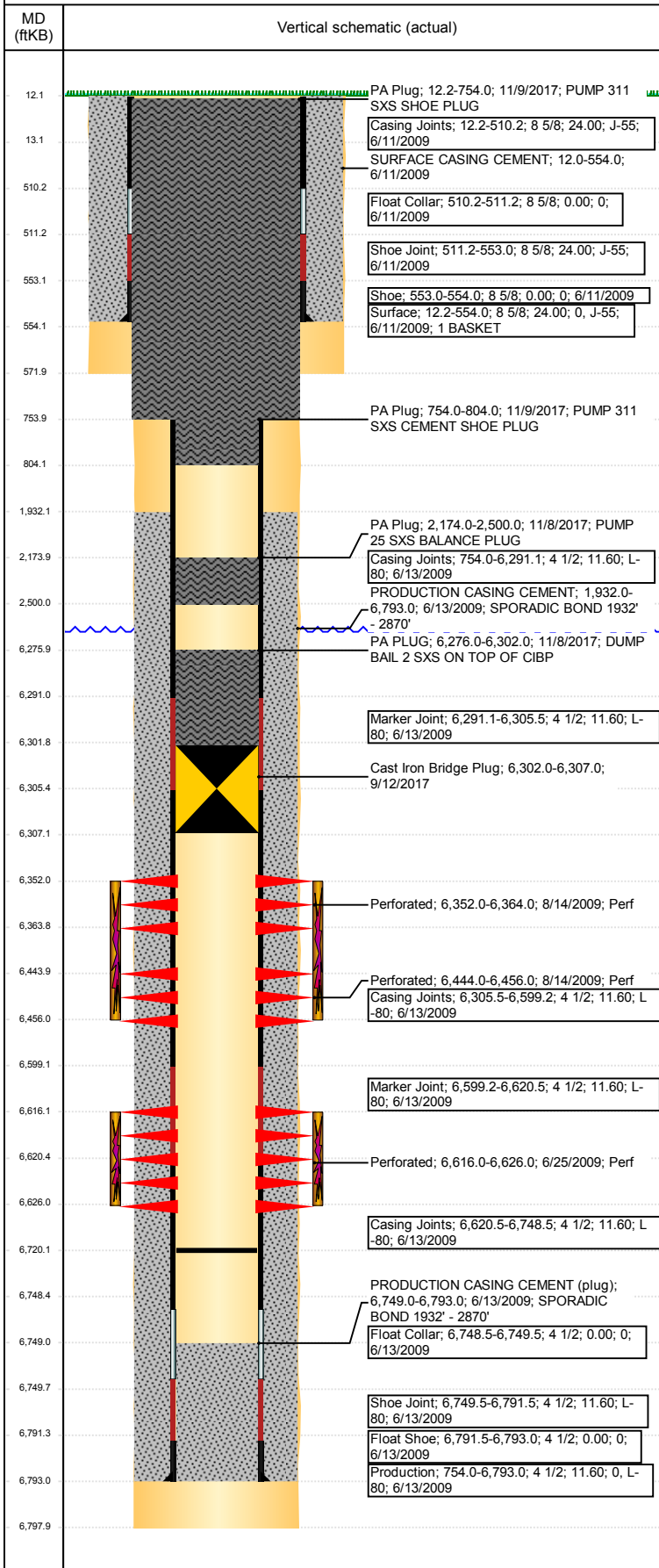
VERTICAL - ORIGINAL HOLE, 11/30/2017 11:40:01 AM



Well Header						
API 05-123-30153	Business Unit DJ BASIN		District 15		Well Config VERTICAL	
Original KB Elevation (ft) 4,690	KB - GL / MSL (ftKB) 12.00		Spud Date 6/11/2009		P & A Date 11/9/2017	
Comment						
Directions To Well Wells Ranch BB12-04; WCR 67 & 68, E .2, S 2.75, past cow camp, E/SE 2.5, S 1, W .5, NW Into location.						
Congressional Location						
Quarter 3 NW	Quarter 4 NW	Section 12	Township 5	Twntshp N/S Dir N	Range 63	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		
6/13/2009	6,749.0	CASING TALLY		TOP OF FLOAT COLLAR		
6/23/2009	6,735.0	CASED HOLE LOG		DEPTH LOGGER ON CBL		
7/27/2009	6,746.0	TUBING TALLY				
9/29/2009	6,720.0	TUBING TALLY		DRILL CIFTP W/ CUTRITE BIT AND N2, CHASE D...		
Wellbore Sections						
Section Des		Size (in)		Act Top, MD (ftKB)		Act Btm, MD (ftKB)
SURFACE		12 1/4		12		572
PRODUCTION		7 7/8		572		6,798
Zone Statuses						
Zone Name	Status Date	Status	Fluid Type	Job	Prod Method	
NIOBRARA	8/16/2009	PR	Water	DRILLING/CO...	Flowing	
NIOBRARA	2/1/2010	PR				
NIOBRARA	2/14/2016	PR				
NIOBRARA	9/12/2017	P&A	Water	ABANDON WE...		
CODELL	8/16/2009	PR		DRILLING/CO...	Flowing	
CODELL	2/1/2010	PR				
CODELL	9/12/2017	P&A		ABANDON WE...		
Casing Strings						
Surface, 554.0ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (l...	Grade	Top, MD (ft...	MD (ftKB)
Surface	6/11/2009	8 5/8	24.00	J-55	12.2	554.0
Production, 6,793.0ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (l...	Grade	Top, MD (ft...	MD (ftKB)
Production	6/13/2009	4 1/2	11.60	L-80	12.1	6,793.0
Cement						
Description				Top Depth (ftKB)		Bottom Depth (ftKB)
Description				Top Depth (ftKB)		Bottom Depth (ftKB)
SURFACE CASING CEMENT				12.0		554.0
Description				Top Depth (ftKB)		Bottom Depth (ftKB)
PRODUCTION CASING CEMENT				1,932.0		6,793.0
Description				Top Depth (ftKB)		Bottom Depth (ftKB)
PA PLUG				6,276.0		6,302.0
Description				Top Depth (ftKB)		Bottom Depth (ftKB)
PA Plug				2,174.0		2,500.0
Description				Top Depth (ftKB)		Bottom Depth (ftKB)
PA Plug				754.0		804.0
Description				Top Depth (ftKB)		Bottom Depth (ftKB)
PA Plug				12.2		754.0
Tubing Strings						
Tubing Description	Run Date	String...	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing - Production	9/29/2009	2 3/8	2.00	4.70	J-55	6,587.80
Set De... 6,593.4						
Tubing Components						
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)
Tubing Pup Joint	2 3/8	4.70	J-55	1	10.00	20.0
Tubing	2 3/8	4.70	J-55	215	6,575.87	6,595.9
Pump Seating	2 3/8			1	1.10	6,597.0
Nipple						6,592.6
Cutrite Blade Bit	3 7/8			1	0.83	6,597.8
						6,593.4

Well Name: WELLS RANCH BB12-04

VERTICAL - ORIGINAL HOLE, 11/30/2017 11:40:02 AM



Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
9/12/2017	Cast Iron Bridge Plug	4	6,302.0	6,307.0

Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
6/13/2009	Caliper/Comp. Density/Neutron/GR/SP/ML	2,600.0	6,798.0
6/13/2009	DIL/GR/SP/Caliper	554.0	6,798.0
6/23/2009	CBL/CCL/GR	1,638.0	6,728.0
7/27/2009	GYRO	12.0	6,700.0
7/28/2009	CCL/GR	5,000.0	6,742.0

Perforation Data

Linked Zone	Bnch/St g	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	24	6,352.00	6,364.00	8/14/2009
NIOBRARA, ORIGINAL HOLE	B	24	6,444.00	6,456.00	8/14/2009
CODELL, ORIGINAL HOLE		40	6,616.00	6,626.00	6/25/2009

Total (Sum)

88

Stimulation Intervals

Start Date 8/14/2009	Primary Job Type DRILLING/COMPLETION - ORIGINAL	
Technical Result Success	Tech Result Details According to Plan	Tech Result Note

Comment

(CODELL): REVERSE STEP RATE RESULTS. PO 11 NWB 260 PSI WB 268 PSI PPF 295 PSI FOR A TOTAL OF 823 PSI OF FRICTION. PRE JOB 5 MINUTE OF 2587 PSI, CONCURRENT WELL HAD A PRE JOB 5 MINUTE OF 2498 PSI. RAISED TREATMENT RATE TO 22 BPM. DROPPED RATE DOWN TO 18 BPM, CONCURRENT WELL NOLTE GOING NEGATIVE. TREATMENT WENT WELL. AVG VISC 28 CPS AVG TEMP 73F AVG PH 10.09. POST JOB 5 MINUTE OF 3077 PSI.

Start Date	Primary Job Type	
8/14/2009	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	

Comment

(NIOBRARA): TREATMENT WENT WELL. RAISED TREATMENT RATE TO 60 BPM DUE TO LOW PRESSURE AT 50 BPM. AVG VISC 24 CPS AVG TEMP 82F AVG PH 10.05. POST JOB 5 MINUTE OF 3050 PSI.