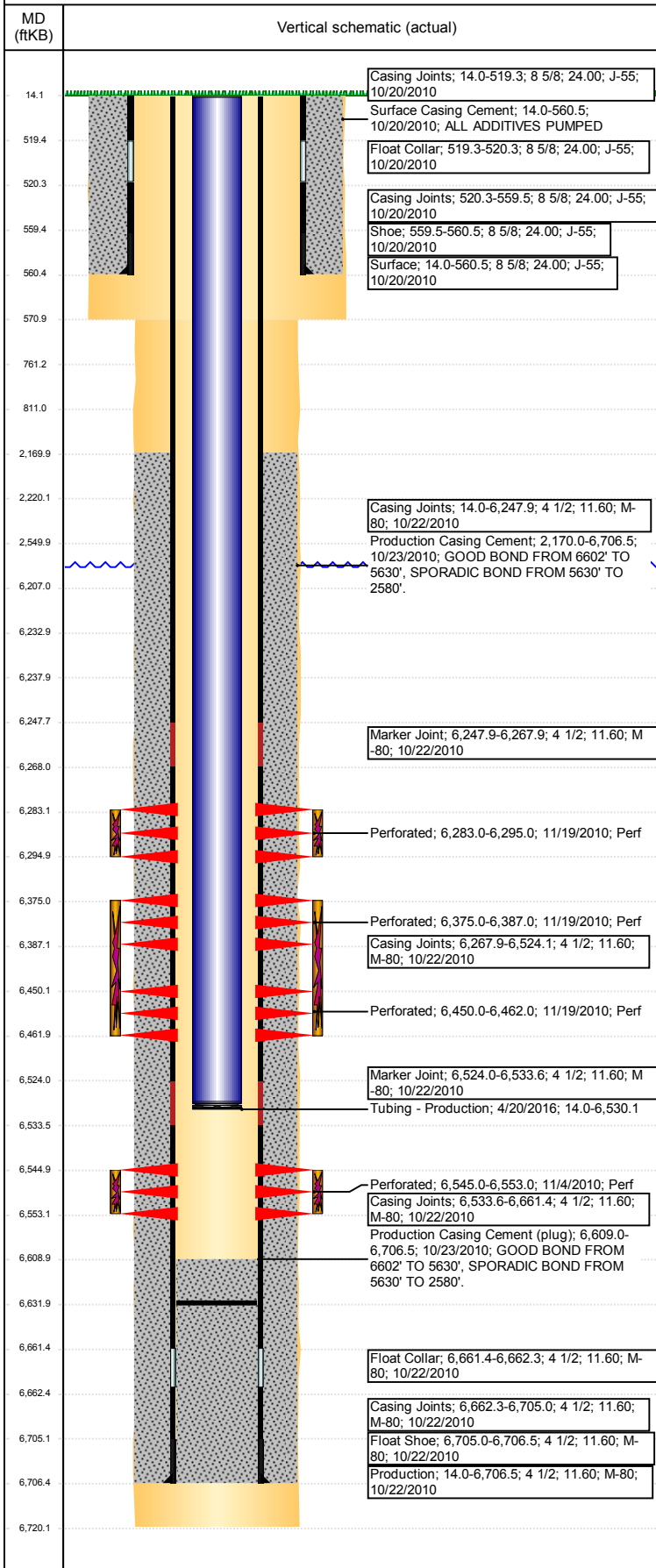


Well Name: WELLS RANCH AF07-03

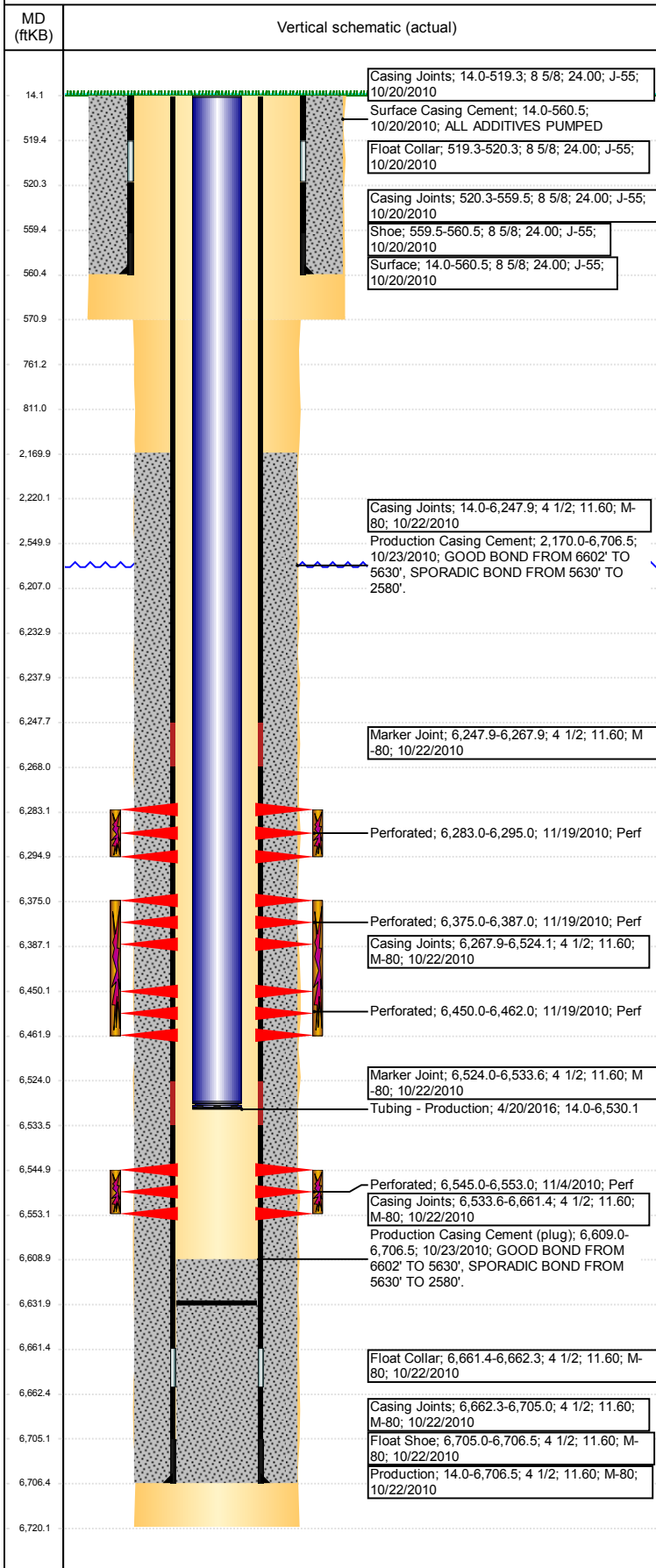
VERTICAL - ORIGINAL HOLE, 8/15/2017 10:26:19 AM



Well Header						
API 05-123-31624	Business Unit DJ BASIN	District 15	Well Config VERTICAL			
Original KB Elevation (ft) 4,669	KB - GL / MSL (ftKB) 16.00	Spud Date 10/19/2010	P & A Date			
Comment						
Directions To Well WCR 67 & 68, GO EAST 2/10THS, THEN SOUTH 2.75 MILES TO COW CAMP, EAST/SOUTHEAST 2.25 MILES THROUGH SEC. 35 INTO THE NE/4 OF SEC. 1, THEN SOUTH 1 MILE, EAST 0.5 MILE, THEN NORTHEAST INTO LOCATION						
Congressional Location						
Quarter 3 NE	Quarter 4 NW	Section 7	Township 5			
Twnshp N/S Dir N	Range 62	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			
10/23/2010	6,661.4	CASING TALLY	FLOAT COLLAR			
11/2/2010	6,609.0	CASED HOLE LOG	DEPTH LOGGER-CBL			
12/7/2010	6,641.0	TUBING TALLY	DRILL 2 CFTPS AND CHASE DOWN W/ 214 JTS			
6/27/2012	6,632.4	TAG	TBG TALLY MEASUREMENT.			
4/18/2016	6,632.0	TUBING TALLY				
Wellbore Sections						
Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)			
SURFACE	12 1/4	14	571			
PRODUCTION	7 7/8	571	6,720			
Zone Statuses						
Zone Name	Status Date	Status	Fluid Type	Job	Prod Method	
NIOBRARA	11/22/2010	PR	Water	DRILLING/CO...	Flowing	
NIOBRARA	11/25/2010	PR		DRILLING/CO...		
CODELL	11/22/2010	PR	Water		Flowing	
CODELL	11/25/2010	PR				
CODELL	3/10/2017	SI				
Casing Strings						
Surface, 560.5ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (L...)	Grade	Top, MD (ft...)	MD (ftKB)
Surface	10/20/2010	8 5/8	24.00	J-55	14.0	560.5
Production, 6,706.5ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (L...)	Grade	Top, MD (ft...)	MD (ftKB)
Production	10/22/2010	4 1/2	11.60	M-80	14.0	6,706.5
Cement						
Description	Top Depth (ftKB)	Bottom Depth (ftKB)				
Surface Casing Cement	14.0	560.5				
Production Casing Cement	2,170.0	6,706.5				
Dump Bail	6,207.0	6,233.0				
Balance Plug	2,220.0	2,550.0				
Balance Plug	761.0	811.0				
Shoe Plug	14.1	761.0				
Tubing Strings						
Tubing Description	Run Date	String... ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set De... 0
Tubing - Production	12/7/2010	2 3/8 2.00	4.70	J-55	6,515.12	6,528.0
Tubing - Production	6/27/2012	2 3/8 2.00	4.70	J-55	6,516.03	6,528.9
Tubing	4/18/2016	2 3/8 2.00	4.70	J-55	6,155.25	6,170.2
Tubing - Production	4/20/2016	2 3/8 2.00	4.70	J-55	6,516.06	6,529.0

Well Name: WELLS RANCH AF07-03

VERTICAL - ORIGINAL HOLE, 8/15/2017 10:26:19 AM



Other In Hole				
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
7/13/2017	Cast Iron Bridge Plug	3.99	6,233.0	6,238.0

Logs				
Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)	
10/22/2010	Caliper/Comp. Density/Neutron/GR/SP/ML	2,550.0	6,720.0	
10/22/2010	DIL/GR/SP/Caliper	561.0	6,720.0	
11/2/2010	CBL/CCL/GR	2,050.0	6,602.0	
11/2/2010	GYRO	16.0	6,500.0	

Perforation Data					
Linked Zone	Bnch/St g	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	24	6,283.00	6,295.00	11/19/2010
NIOBRARA, ORIGINAL HOLE	B	24	6,375.00	6,387.00	11/19/2010
NIOBRARA, ORIGINAL HOLE	C	24	6,450.00	6,462.00	11/19/2010
CODELL, ORIGINAL HOLE		32	6,545.00	6,553.00	11/4/2010
Total (Sum)		104			

Stimulation Intervals		
Start Date	Primary Job Type	
11/19/2010	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	
Comment (CODELL ND) GOOD JOB. AVG VISC = 24.87 CP, AVG TEMP = 68.16, AVG PH = 10.24, POST-JOB 5 MINUTE = 2967 PSI. NWB = 646		
Start Date	Primary Job Type	
11/19/2010	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	
Comment (NIO B & C ND) GOOD JOB. AVG VISC = 18.23, AVG TEMP = 68.64 F, AVG PH = 10.37, POST-JOB 5 MINUTE = 2841 PSI.		
Start Date	Primary Job Type	
11/19/2010	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	
Comment (NIO A ND) GOOD JOB. AVG VISC = 17.13, AVG TEMP = 67.88 F, AVG PH = 10.43, POST-JOB 5 MINUTE = 3007.		