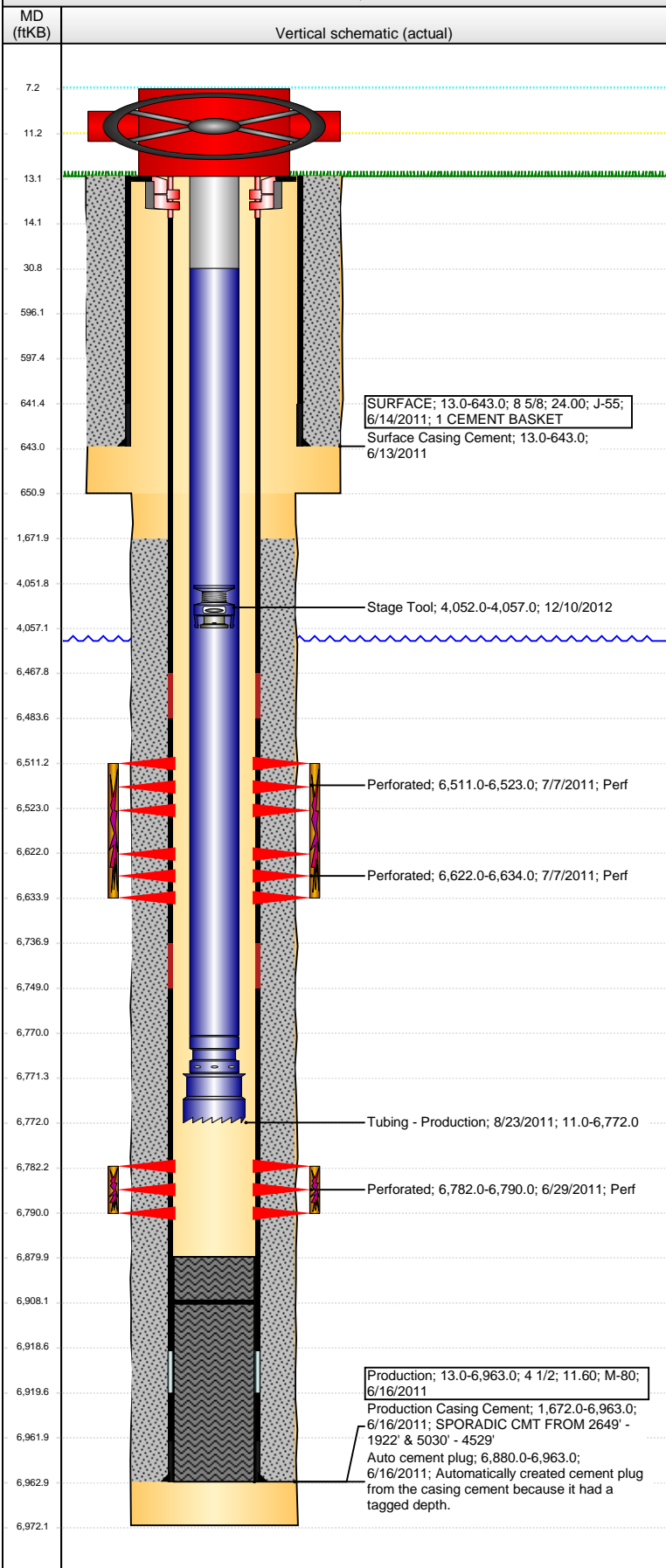


Well Name: WELLS RANCH PC AA22-05

VERTICAL - ORIGINAL HOLE, 3/8/2016 11:12:32 AM



Well Header			
API	Business Unit	District	Well Config
05-123-31896	DJ BASIN	15	VERTICAL
Original KB Elevation (ft)	KB - GL / MSL (ftKB)	Spud Date	P & A Date
4,754	13.00	6/13/2011	
Comment			
Directions To Well WCR 67 & 68, GO EAST 0.2 MILES, SOUTH 0.25 MILES, THEN SOUTHWEST INTO LOCATION			
Congressional Location			
Quarter 1	Quarter 2	Quarter 3	Quarter 4
		SW	NW
Section	Township	Twnshp N...	Range
22	6 N		63 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
6/17/2011	6,953.0	CASING TALLY	FLOAT COLLAR
6/28/2011	6,880.0	CASED HOLE LOG	DEPTH LOGGER ON CBL
8/23/2011	6,908.0	TUBING TALLY	DRILL CFTP W/ BLADE BIT, CHASE DOWN W/ 22...
Wellbore Sections			
Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	13.0	651.0
PRODUCTION	7 7/8	651.0	6,972.0
Zone Statuses			
Zone Name	Status Date	Status	Fluid Type
NIOBRARA	7/9/2011	PR	
CODELL	7/9/2011	PR	
Casing Strings			
SURFACE, 643.0ftKB			
Casing Description	Run Date	OD (in)	Wt/Len (L...)
SURFACE	6/14/2011	8 5/8	24.00
Grade	Top, MD (ft...)	MD (ftKB)	
J-55	13.0	643.0	
Production, 6,963.0ftKB			
Casing Description	Run Date	OD (in)	Wt/Len (L...)
Production	6/16/2011	4 1/2	11.60
Grade	Top, MD (ft...)	MD (ftKB)	
M-80	13.0	6,963.0	
Cement			
Description	Top Depth (ftKB)	Bottom Depth (ftKB)	
Surface Casing Cement	13.0	643.0	
Description	Top Depth (ftKB)	Bottom Depth (ftKB)	
Production Casing Cement	1,672.0	6,963.0	
Tubing Strings			
Tubing Description	Run Date	String...	ID (in)
Tubing - Production	8/23/2011	2 3/8	1.995
Wt (lb/ft)	Grade	Len (ft)	Set De...
4.70	J-55	6,761.02	
Tubing Components			
Item Des	OD (in)	Wt (lb/ft)	Grade
Tubing Pup Joint	2 3/8	4.70	J-55
EUE 8rd Tubing	2 3/8	4.70	J-55
Pump Seating Nipple	2 3/8		J-55
Pump Off Bit Sub	3 1/16		J-55
Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)
2	20.00	31.0	31.0
217	6,739.13	6,770.1	
1	1.10	6,771.2	
1	0.79	6,772.0	
Perforation Data			
Zone	Bnch/St g	Entered Shot Total	Top (ftKB)
NIOBRARA, ORIGINAL HOLE	A	24	6,511.00
NIOBRARA, ORIGINAL HOLE	B	24	6,622.00
CODELL, ORIGINAL HOLE		32	6,782.00
Btm (ftKB)	Date		
6,523.00	7/7/2011		
6,634.00	7/7/2011		
6,790.00	6/29/2011		
Stimulations & Treatments			
Date	Zone	Primary Job Type	
7/7/2011	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details		Tech Result Note
Success	According to Plan		
Comment			
(CODELL): REVERSE STEP RATE RESULTS: PO - 7. NWB FRIC - 64 PSI. PERF FRIC - 659 PSI. ISIP - 2724 PSI. PROBLEMS WITH CATS DURING 2 PSA STAGE. OTHERWISE TREATMENT WENT WELL. POST ISIP - 3164 PSI. AVG VISC - 26.29 CP. AVG TEMP - 73.0F. AVG PH - 10.24.			

Well Name: WELLS RANCH PC AA22-05

VERTICAL - ORIGINAL HOLE, 3/8/2016 11:12:34 AM

Stimulations & Treatments

Date	Zone	Primary Job Type
7/7/2011	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL
Technical Result	Tech Result Details	Tech Result Note
Success	According to Plan	
Comment (NIOBRARA A&B): NO APPARENT BREAK. ISIP - 3064 PSI. TREATMENT WENT WELL. POST ISIP - 3205 PSI. AVG NOLTE - 0.06. AVG VISC - 23.67 CP. AVG TEMP - 73.0F. AVG PH - 9.98.		

Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
12/10/2012	Stage Tool	2	4,052.0	4,057.0

Logs

Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
6/16/2011	Caliper/Comp. Density/Neutron/GR/SP/ML	641.0	6,979.0
6/16/2011	DIL/GR/SP/Caliper	641.0	6,979.0
6/28/2011	CBL/CCL/GR	1,422.0	6,879.0

