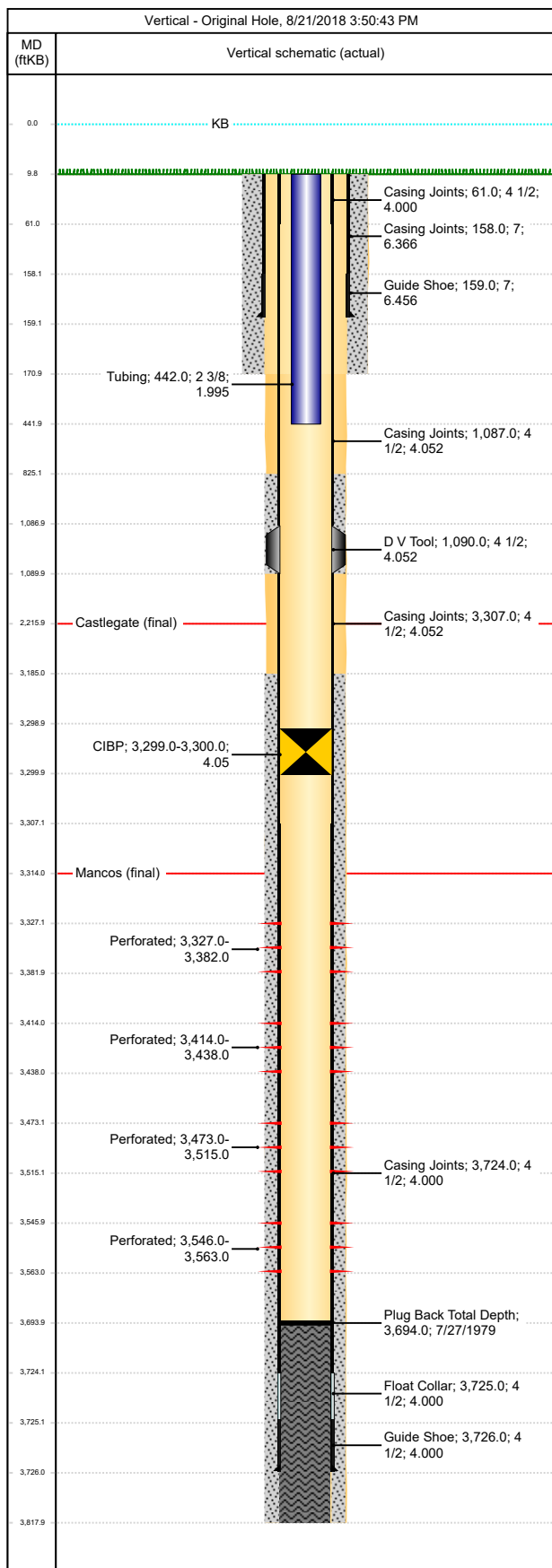




# UGC - Downhole Well Profile

Well Name: CATHEDRAL FEDERAL P-23-3S-101W

API/UWI 05103083470000	Surface Legal Location SESE-S23-T3S-R101W-6PM	Field Name Cathedral	License #	State/Province CO	Well Configuration Type Vertical
Original KB Elevation (ft) 6,983	KB-Tubing Head Distance (ft) 10	Spud Date 7/23/1979 00:00	Rig Release Date 7/28/1973 00:00	PBTD (All) (ftKB) Original Hole - 3,694.0	Total Depth All (TVD) (ftKB) Original Hole - 3,818.0



Casing Strings								
Casing Description Surface	OD (in) 7	Wt/Len (lb/ft) 23.00	String Grade K-55	Top Connection	Set Depth (ftKB) 159.0			
Casing Components								
Item Description Casing Joints	Length (ft) 148	ID (in) 6.366	Joints 1	Drift (in) 6.241	P Collapse (psi) 3270	P Burst (psi) 4360		
Item Description Guide Shoe	Length (ft) 1	ID (in) 6.456	Joints 1	Drift (in)	P Collapse (psi)	P Burst (psi)		
Casing Description Production	OD (in) 4 1/2	Wt/Len (lb/ft) 10.50	String Grade	Top Connection	Set Depth (ftKB) 3,726.0			
Casing Components								
Item Description Casing Joints	Length (ft) 51	ID (in) 4.000	Joints 2	Drift (in) 3.875	P Collapse (psi) 4960	P Burst (psi) 5350		
Item Description Casing Joints	Length (ft) 1026	ID (in) 4.052	Joints 32	Drift (in) 3.927	P Collapse (psi) 4010	P Burst (psi) 4790		
Item Description D V Tool	Length (ft) 3	ID (in) 4.052	Joints 1	Drift (in)	P Collapse (psi)	P Burst (psi)		
Item Description Casing Joints	Length (ft) 2217	ID (in) 4.052	Joints 69	Drift (in) 3.875	P Collapse (psi) 4960	P Burst (psi) 5350		
Item Description Casing Joints	Length (ft) 417	ID (in) 4.000	Joints 2	Drift (in) 3.875	P Collapse (psi) 4960	P Burst (psi) 5350		
Item Description Float Collar	Length (ft) 1	ID (in) 4.000	Joints 1	Drift (in)	P Collapse (psi)	P Burst (psi)		
Item Description Guide Shoe	Length (ft) 1	ID (in) 4.000	Joints 1	Drift (in)	P Collapse (psi)	P Burst (psi)		
Perforations								
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone			
8/9/1979	3327	3382	0.2	12	Mancos, Original Hole			
8/9/1979	3414	3438	0.2	4	Mancos, Original Hole			
8/9/1979	3473	3515	0.1	6	Mancos, Original Hole			
8/9/1979	3546	3563	0.2	4	Mancos, Original Hole			
Tubing Strings								
Tubing Description Tubing - Production	Run Date 8/2/2018	String Length (ft) 432.00	Set Depth (ftKB) 442.0					
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	P Burst (psi)	P Collapse (psi)	Tensile Max (1000lbf)
Tubing	14	2 3/8	4.70	J-55	432	7700	8100	85
Rod Strings								
Rod Des	Run Date	Len (ft)	Set Depth (ftKB)	Comment				
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Com		
Other In Hole								
Description CIBP	OD (in) 4.052	Top (ftKB) 3299	Run Date 8/2/2018	Pull Date	Comment			
Cement Stages								
Stg # 1	Description Surface Casing Cement	Top (ftKB) 10	Btm (ftKB) 171	Comment Lead - 100 sacks of thixotropic "H" cement with 3% CaCl2, 12% cal-seal and 1/4 # floseal/sack.  Tail - 10 sacks class "H" cement.				
Stg # 1	Description Cement Plug	Top (ftKB) 3694	Btm (ftKB) 3818	Comment				
Stg # 1	Description Production Casing Cement	Top (ftKB) 3185	Btm (ftKB) 3818	Comment 55 sxs 50-50 poz-mix w/ 2% gel, 1/4 # flo-cele.				
Stg # 2	Description Production Casing Cement	Top (ftKB) 825	Btm (ftKB) 1090	Comment 45 sxs 50-50 poz-mix.				